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KENNAMETAL®

CATALOGO
MASTER 2018

VOLUME 1 | UTENSILI DI **TORNITURA**

Tornitura ISO | Scanalatura e troncatura | Filettatura | Applicazioni specifiche

KENNAMETAL

Beyond™ Evolution™ — Scanalatura, Taglio e Tornitura multi-direzionale EASY

Scegliere l'utensile giusto può essere complicato e richiedere molto tempo. Abbiamo ideato un nuovo utensile basato sulla semplicità che rende EASY la vita di chi opera sulla macchina.

Beyond™ Evolution™

Vedere pagg. C2–C85.

Fin dai suoi inizi nel 1938, Kennametal ha capito perfettamente come migliorare le vostre prestazioni e la vostra redditività introducendo prodotti e servizi senza uguali per ridurre i vostri costi operativi e i tempi di produzione.

Queste oltre 900 pagine presentano le più recenti innovazioni sui prodotti per tornitura, insieme ai servizi studiati nello specifico per aumentare la produttività, anche nelle situazioni più complesse di lavorazione dei metalli.

Affidatevi a Kennametal per potenziare notevolmente la vostra competitività. Per ulteriori informazioni, contattate il vostro rappresentante Kennametal o il partner di distribuzione autorizzato Kennametal.

Visitateci su **kennametal.com**.

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Volume I • Utensili di Tornitura

Questo catalogo è composto da due volumi - Volume 1: Utensili di Tornitura / Volume 2: Utensili Rotanti

Utensili di Tornitura

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Tornitura

NOVITÀ SUI PRODOTTI

BEYOND™ EVOLUTION™

Per maggiori dettagli consultare la sezione C.

Kennametal è fiera di presentare la linea Beyond™ Evolution™. Questa piattaforma innovativa è basata sulla semplicità e sfida l'approccio attuale alla scanalatura e alla troncatura. Selezionare l'utensile giusto è facile con la linea Beyond™ Evolution™, perché questo sistema ad alte prestazioni è versatile e flessibile. È il primo portafoglio nel mercato a essere competitivo su tutte le applicazioni di scanalatura e troncatura, con una riduzione fino al 35% dell'uso degli utensili rispetto alla concorrenza attuale.

Il sistema di adduzione del refrigerante esclusivo eroga il refrigerante in modo preciso sui taglienti al di sotto del truciolo, che è il metodo migliore per ridurre il calore nelle applicazioni di scanalatura e troncatura.

beyond™ EVOLUTION™

BEYOND™ DRIVE™

Per maggiori dettagli consultare la sezione B.

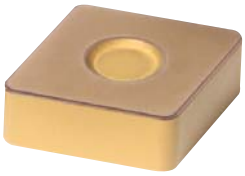
Gli inserti ISO per tornitura Beyond™ Drive™ offrono fino al 50% di aumento nell'utilizzo del tagliente. Il trattamento superficiale avanzato riduce lo stress del rivestimento e ne migliora l'adesione. Il colore bronzo dello strato esterno facilita l'identificazione dell'usura e aumenta l'utilizzo dell'inserto. Le qualità PVD KCU10™ e KCU25™ con tecnologia Beyond™ resistono alle alte temperature delle lavorazioni delle leghe dure. Ottengono fino al 30–40% di maggior durata dell'utensile, per una più alta redditività in meccanica generale, industria dei trasporti, industria aerospaziale, settore energetico e mercati per il movimento terra. Il rivestimento in PVD aiuta a mantenere un controllo coerente del truciolo e a ridurre l'usura del tagliente nella tornitura, nella scanalatura e nella troncatura per un'ampia gamma di materiali e applicazioni.

beyond™ DRIVE™

TORNITURA DELLA GHISA CON KBK45™

Per maggiori dettagli consultare la sezione B.

KBK45 è una nuova qualità PcBN ad alto contenuto, progettata per lavorazioni ad alte prestazioni della ghisa grigia, come dischi per freni e volani. È progettata per ridurre sprechi di angoli non usati, ridurre il costo per pezzo (CPP) mantenendo i cambi utensile tra turni, e migliorare la produzione utilizzando prodotti più affidabili. La qualità KBH45 fornisce un eccellente valore di CPP.



TORNITURA PESANTE CON KBH20™

Per maggiori dettagli consultare la sezione B.

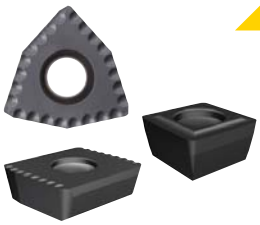
KBH20 è la qualità di tornitura dura PcBN ideale per applicazioni di tagli continui e leggermente interrotti utilizzabile fino ad interruzioni di gravità media. La struttura e le diverse preparazioni dei taglienti consentono tolleranze strette e ripetibili dei pezzi, ottime finiture superficiali e integrità superficiale — anche a velocità elevate.

La qualità KBH20 è un nuovo substrato per applicazioni come i componenti cementati, compresi ingranaggi, alberi e altri componenti della trasmissione.

Il rivestimento nanocomposito migliora le velocità di taglio e la durata dell'utensile. La preparazione migliorata del tagliente prolunga la durata dell'utensile, rende le prestazioni più affidabili e migliora la finitura superficiale.

Foratura

NOVITÀ SUI PRODOTTI



DRILL FIX™ DFSP™

PUNTE CON INSERTI A FISSAGGIO MECCANICO CON INSERTI DS E LP

Per maggiori dettagli consultare la sezione J (Volume 2).

DFSP è il nuovo nome della piattaforma per foratura con punte con inserti a fissaggio meccanico Drill Fix DFS™ ora ampliata. La gamma di diametri standard è ora 14–55mm nei rapporti L/D 2 x D, 3 x D, 4 x D e 5 x D. La linea DFSP combina l'economico inserto esterno quadrato con le eccellenti capacità di auto-centraggio dell'inserto interno trigonale. Queste punte con inserti a fissaggio meccanico offrono un maggior volume di truciolo asportato ed elevate qualità superficiali e rettilineità del foro.

Utilizzare i nuovi design degli inserti rompitruciolo DS e LP con gli inserti a fissaggio meccanico Drill Fix DFSP, DFT™ e HTS, e con le punte modulari KSEM PLUS™. Questi inserti permettono un'eccellente formazione del truciolo su acciai a basso contenuto di carbonio e altri materiali a truciolo lungo.

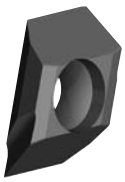
KENTIP™ FS

LA FUSIONE PERFETTA DI UNA PUNTA IN METALLO DURO INTEGRALE E UNA AD INSERTI.

Per maggiori dettagli consultare la sezione H (Volume 2).

La nuova punta modulare kenTIP FS copre più applicazioni e fornisce prestazioni migliori di qualsiasi altro sistema modulare, generando un risparmio sostanziale sui costi e semplificando i processi della vostra officina.

- 3 geometrie di cuspidi, 3 qualità ad alte prestazioni, 3 differenti tipologie di codolo.
- Range di diametri 6–26mm.
- Profondità di foratura fino a 12 x D.
- Applicabile su acciaio, acciaio inossidabile e ghisa.



COUNTERFIX MICRO

PICCOLI INSERTI CHE FANNO UNA GRANDE DIFFERENZA!

Per maggiori dettagli consultare la sezione H (Volume 2).

I nuovi inserti tangenziali CounterFix Micro (CFM) offrono un nuovo modo per migliorare le operazioni di foratura, smussatura e lamatura. Permettono di utilizzare gradini a incrementi molto piccoli su punte a gradino fatte su misura, e di ottenere una durata utensile per tagliente più lunga e una finitura superficiale migliorata.

Gli inserti CFM possono essere utilizzati con prodotti KenTIP, KSEM™ e Drill Fix, e anche con utensili per svasatura a fissaggio meccanico disponibili su ordinazione.

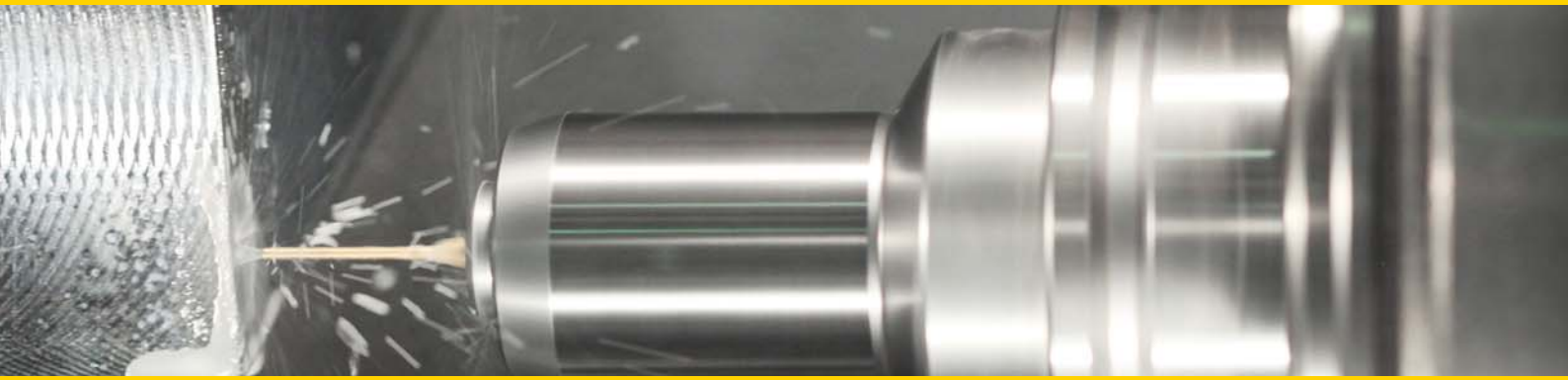
I CounterFix Micro saranno disponibili per le punte personalizzate KenTIP FS su richiesta nel 2018.

NOVITÀ PUNTE SGL CON REFRIGERANTE INTERNO PER ACCIAI INOSSIDABILI.

Per maggiori dettagli consultare la sezione G (Volume 2).

Le nuove punte in metallo duro integrale della serie B21_SGL sono progettate specificatamente per le applicazioni su acciai inossidabili, offrendo alte prestazioni e una lunga vita utensile anche sulle leghe resistenti alle alte temperature e sugli acciai normali.
Dalla combinazione delle caratteristiche di Kennametal, come la nuova geometria SGL con un design unico dell'elica brevettato e il rivestimento migliore della classe, tutto in un unico utensile, la punta B21*SGL è l'utensile finale per la produzione ad alto volume.

La nuova serie di punte B27_SGL è specificatamente progettata per le applicazioni di foratura profonda fino a 40 x D su acciaio inossidabile e leghe resistenti alle alte temperature.



NOVITÀ PUNTE KMH PER MATERIALI DURI

Per maggiori dettagli consultare la sezione G (Volume 2).

Le nuove punte in metallo duro integrale KMH sono progettate per le applicazioni su materiali duri fino a 65 HRC. La serie B94_ senza la refrigerazione interna è specificatamente progettata per lavorare materiali duri o superficialmente induriti con l'uso della refrigerazione esterna. Con il suo angolo di punta a 145° può anche essere perfettamente usata come punta pilota per la serie B95_ con refrigerante interno e come punta a 140° per le applicazioni più profonde.

Entrambe le serie hanno un nocciolo aumentato per rinforzare la punta, sono caratterizzate da un tagliente curvo e smussato all'angolo per evitare scheggiature sui margini di guida ed aumentare la vita utensile su questi materiali impegnativi.

ALESATORI A DISCO RMR™ E RHR™

Per maggiori dettagli consultare la sezione K (Volume 2).

Prestazioni, qualità e riaffilabilità, come alesatori in metallo duro per diametri 14–42,5mm.

I normali alesatori hanno riporti singoli brasati su un corpo in acciaio. I nuovi alesatori RMR e RHR di Kennametal hanno un disco in metallo duro brasato sul corpo in acciaio. Questo permette più possibilità di riaffilatura rispetto a un alesatore con riporto convenzionale, riducendo sensibilmente il costo per foro. Il nuovo rivestimento KCU05 conferisce alla finitura superficiale una durata più di due volte superiore rispetto ai rivestimenti convenzionali applicati sugli alesatori, a seconda del materiale da lavorare.

GOTAP™

MASCHI HSS-E MULTIUSO

Per maggiori dettagli consultare la sezione M (Volume 2).

GOtap è la nostra linea multiuso di maschi con geometrie ottimizzate e rivestimenti in PVD per poter eseguire operazioni di maschiatura su una vasta gamma di materiali duttili, come acciai inossidabili, acciai al carbonio e legati, alluminio fuso e ghisa duttile. La versatilità dei maschi GOtap va oltre il suo campo di applicazione, poiché può essere utilizzata per un'ampia gamma di macchine utensili e condizioni di applicazione. I nuovi maschi GOtap TC multiuso consentono la maschiatura di fori ciechi con portautensili a tensione/compressione senza problemi di dimensionamento causati da sovravanzamento. La versatilità dei maschi GOtap permette di abbassare i costi di inventario senza perdite in termini di produttività, durata dell'utensile costante e finitura del filetto di alta qualità.

Fresatura a candela in metallo duro

NOVITÀ SUI PRODOTTI

DUO-λOCK®

Per maggiori dettagli consultare la sezione O (Volume 2).

Duo-Lock™ è un nuovo rivoluzionario sistema di accoppiamento per le applicazioni di fresatura a candela in metallo duro. Questa struttura a testa sostituibile combina un'elevata precisione di runout e ripetibilità sulla lunghezza con la massima stabilità, rendendola un'interfaccia precisa e praticamente infrangibile per applicazioni di fresatura complesse.

- **La capacità di scanalatura completa fino a 1 x D aumenta il volume di truciolo asportato dando una produttività notevolmente maggiore.**
- **La lunghezza del tagliente standard 1,5 x D permette di ridurre il numero delle passate.**
- **Dati di taglio e durata dell'utensile comparabili agli utensili in metallo duro ad alte prestazioni.**

DUO-λOCK®
di HAIMER® e Kennametal

FAMIGLIA HARVI™ III

Per maggiori dettagli consultare la sezione P (Volume 2).

Le frese HARVI III sono la prima scelta per lavorazioni di leghe resistenti al calore, di profilatura, semifinitura e finitura. La qualità Beyond KCSM15™ permette un maggior volume di truciolo asportato ed eccellente durata dell'utensile nella lavorazione del titanio e dell'acciaio inossidabile, e anche ottime finiture superficiali.

- **Testa sferica conica per lavorazioni complesse su 5 assi.**
- **Testa sferica per profilatura tridimensionale.**
- **Testa quadrata per operazioni di semi-finitura/finitura.**

beyond™

FRESE A CANDELA IN CERAMICA DURA BEYOND™ EADE

Per maggiori dettagli consultare la sezione P (Volume 2).

Le frese a candela in ceramica dura Beyond™ EADE offrono maggiore produttività nella sgrossatura di leghe resistenti al calore a base di nichel. Con un tempo di lavorazione ridotto, le frese a candela in ceramica EADE permettono anche di ottenere un notevole miglioramento della durata dell'utensile rispetto agli utensili in metallo duro.

— La qualità Beyond KYS40™ permette velocità di taglio fino a 1000 m/min.

beyond™

PIATTAFORMA GOMILL™ GP

Per maggiori dettagli consultare la sezione Q (Volume 2).

Gli utensili GOmill GP permettono la fresatura a tuffo, la scanalatura e la profilatura, oltre a una maggior durata dell'utensile su una vasta gamma di materiali. Sono progettati per fornire maggiori volumi di truciolo asportato e buone finiture di superficie con un ottimo rapporto costi-benefici.

— Sgrossatura e finitura con un unico utensile.

— Ottimo rapporto costi-benefici.

— Qualità multistrato KC633M™ per una maggiore durata dell'utensile.

Fresatura a fissaggio meccanico

NOVITÀ SUI PRODOTTI

MILL 4-11™ E MILL 4-15™

Per maggiori dettagli consultare la sezione T (Volume 2).

Gli utensili delle serie Mill 4-11™ e Mill 4-15™ sono appositamente progettati per raggiungere sia un'eccellente qualità superficiale sia elevati volumi di truciolo asportato nelle applicazioni di fresatura a spallamento. La sua struttura unica consente passate multiple (lavorazione in affondo) con risultati notevoli.

Utilizzare Mill 4-11 in applicazioni di sgrossatura e finitura su acciaio, ghisa, acciaio inossidabile, materiali non ferrosi e leghe resistenti al calore. Utilizzare Mill 4-15 per lavorazioni dalla sgrossatura fino alla finitura su acciaio, ghisa, acciaio inossidabile e titanio.

MILL 16™

Per maggiori dettagli consultare la sezione S (Volume 2).

La nuova serie di frese Mill 16™ è una piattaforma personalizzata per la sgrossatura di componenti come testate e monoblocchi, alloggiamenti, scatole ingranaggi in ghisa (CGI, DCI, GCI), e tutte le altre operazioni di spianatura della ghisa.

KCSM40™

NUOVA QUALITÀ DI FRESATURA PER LA LAVORAZIONE DEL TITANIO

Qualità di fresatura a fissaggio meccanico innovativa per operazioni di sgrossatura e semifinitura su titanio e acciai inossidabili — campo di applicazione S40, M30.

Disponibile in queste piattaforme per fresatura a fissaggio meccanico: Mill 1-10™, Mill 1-14™, Mill 1-18™, Mill 4-11™, Mill 4-15™, Dodeka™ Mini, Dodeka, Dodeka MAX™, MEGA™, KSOM™ Mini, KSOM™, KSRM™, NGE™, KSSM™ 90, KSSM8+™, Rodeka™, Stellram® 5230, Stellram 7713 e Stellram 7792.

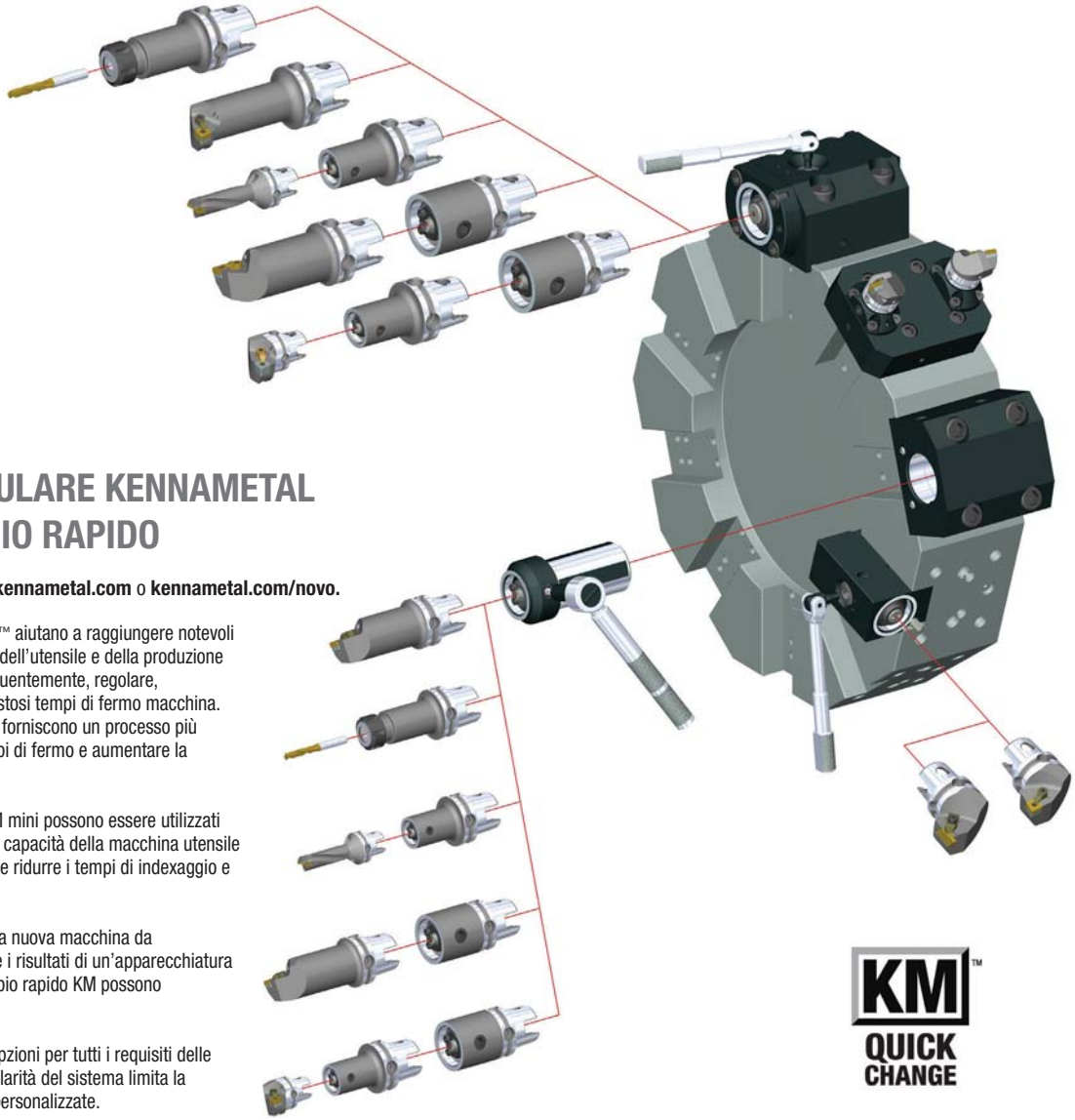
SERIE A ELEVATE VELOCITÀ DI AVANZAMENTO STELLRAM® 7792VX

Per maggiori dettagli consultare la sezione V (Volume 2).

Le frese della serie 7792VX sono progettate per applicazioni di fresatura ad alto avanzamento con una generazione superficiale superiore. Le frese 7792VX sono progettate per un'ampia gamma di applicazioni, comprese la spianatura, la fresatura di tasche, la fresatura in rampa, l'interpolazione elicoidale e la fresatura a tuffo. Sono capaci di lavorare tutti i materiali, compresi acciaio, acciaio inossidabile, ghisa, leghe resistenti al calore e leghe di alluminio.

Sistemi di utensili

NOVITÀ SUI PRODOTTI



SISTEMA MODULARE KENNAMETAL (KM™) A CAMBIO RAPIDO

Per ulteriori dettagli, visitare **kennametal.com** o **kennametal.com/novo.**

Gli utensili a cambio rapido KM™ aiutano a raggiungere notevoli miglioramenti delle prestazioni dell'utensile e della produzione del macchinario. Cambiare frequentemente, regolare, e calibrare gli utensili causa costosi tempi di fermo macchina. Gli utensili a cambio rapido KM forniscono un processo più efficiente che può ridurre i tempi di fermo e aumentare la produttività.

Inoltre, i sistemi KM micro e KM mini possono essere utilizzati per aumentare notevolmente la capacità della macchina utensile su torni automatici e universali e ridurre i tempi di indexaggio e di attrezzamento fino al 66%.

Sia che si stia considerando una nuova macchina da equipaggiare o come migliorare i risultati di un'apparecchiatura già esistente, gli utensili a cambio rapido KM possono massimizzare la produzione.

Il programma KM comprende opzioni per tutti i requisiti delle applicazioni, e grazie alla modularità del sistema limita la necessità di costose soluzioni personalizzate.

KM™ QUICK CHANGE

KM4X™

Per ulteriori dettagli, visitare **kennametal.com** o **kennametal.com/novo**.

L'interfaccia mandrino KM4X è progettata per le applicazioni di lavorazione pesante. È particolarmente ideale per la lavorazione di componenti di grandi strutture. Questi adattatori per utensili rotanti e statici forniscono una capacità di resistenza alla flessione 3 volte maggiore rispetto ai corrispettivi modelli della concorrenza.

- Configurazione rigida grazie ad una maggiore forza di serraggio.
- La struttura permette le configurazioni di mandrini a innesto frontale.
- Elevata velocità del mandrino.
- Ideata per l'utilizzo nella maggior parte delle applicazioni.
- Da utilizzare in un'ampia gamma di velocità e coppie alte e basse.
- Si può aggiornare a KM4X su mandrini che utilizzano un attacco HSK.
- Mantenere il contatto sul cono alle velocità più alte.

BLOCCHI DI UTENSILI GUIDATI E STATICI

Per ulteriori dettagli, visitare **kennametal.com** o **kennametal.com/novo**.

Trasformate il vostro tornio CNC in un sistema multi-funzione con blocchi di serraggio adattati alla torretta che fornisce soluzioni per applicazioni in rotazione e con blocchi di utensili statici per la massima flessibilità nel cambio rapido. Sia che si tratti di fresatura, foratura, maschiatura, barenatura o applicazioni non rotanti, è possibile massimizzare l'utilizzo della macchina impiegando gli utensili e le soluzioni Kennametal. Disponibili in molteplici dimensioni KM™ per versatilità e produttività massime.

- Opzioni a 0 e 90° disponibili come standard.
- Velocità fino a 12.000 giri/min per un alto volume di truciolo asportato.
- Disponibili rapporti di trasmissione 1:1 e 1:2 per velocità o coppia addizionali.
- Configurazioni standard per fabbricazioni multiple e personalizzabili per adattarsi alla maggior parte delle torrette.
- Soluzioni di cambio rapido per applicazioni statiche e rotanti, per massimizzare l'efficacia della macchina.

BARENATURA REGOLABILE

Per ulteriori dettagli, visitare **kennametal.com** o **kennametal.com/novo**.

I bareni regolabili Kennametal permettono di aumentare la produttività e risolvere lo sfarfallamento e altri problemi nelle operazioni di barenatura su lunghezze estese.

I diversi miglioramenti fondamentali alla nostra attuale offerta di bareni regolabili includono:

- Un processo di regolazione avanzato ed effettuato in fabbrica assicura una regolazione precisa ad una sporgenza massima.
- La nitrurazione dei bareni regolabili in acciaio elimina gli effetti dello sfregamento del truciolo.
- L'eliminazione dei piani sui bareni regolabili migliora la stabilità e il corretto funzionamento del portautensili.
- L'aggiunta di un piccolo piano sul collare di collegamento consente l'uso di un utensile di allineamento dell'altezza del centro.
- Processo di montaggio migliorato.

Kennametal sul Web

kennametal.com

TROVARE LE PIÙ RECENTI INFORMAZIONI DI PRODOTTO

Che si tratti di tornitura, fresatura o foratura, i marchi Kennametal rappresentano l'utensileria ad elevate prestazioni di cui avete bisogno. Offriamo soluzioni standard e personalizzate per un'ampia gamma di applicazioni.

Trovare informazioni aggiornate sulle campagne e sui cataloghi.

Registrarsi su Konnect per avere la funzionalità completa del sito web di Kennametal per l'ordinazione online.

CONTATTATECI

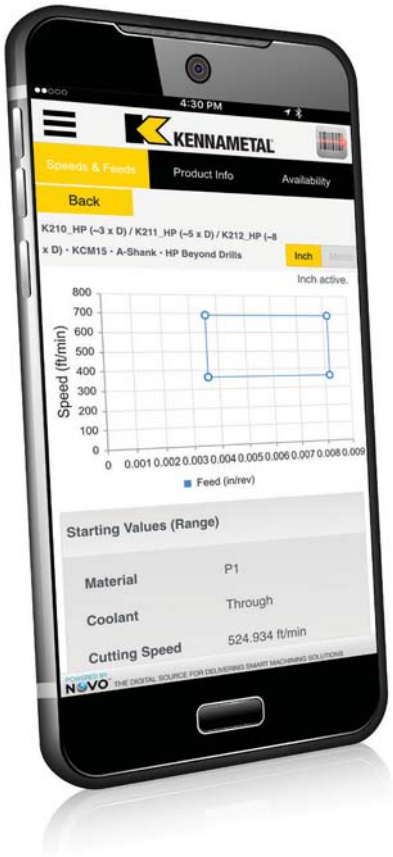
I nostri clienti sono importanti per noi. Desideriamo offrirvi il miglior servizio clienti del settore. Inviateci i vostri commenti o le vostre domande. Cercheremo di rispondere a tutte le richieste entro 24 ore.

TROVARE IL PARTNER DI DISTRIBUZIONE AUTORIZZATO PIÙ VICINO

Kennametal offre prodotti e servizi di prim'ordine in tutto il mondo. I nostri distributori ci conoscono bene e, ciò che più importa, conoscono bene anche voi. Sanno meglio di chiunque altro in questo settore come mettere le potenzialità di Kennametal al servizio del vostro settore, nella vostra area e per la vostra azienda.

App mobile

L'app mobile Kennametal rende facile l'accesso a informazioni sul prodotto, a calcolatori e molto altro da iPhone® e dispositivi Android™.



CARATTERISTICHE

Leggere il codice a barre di una confezione di utensili Kennametal o ricercare il numero di catalogo di un prodotto per accedere a tutte le informazioni sul prodotto.

Le informazioni sul prodotto comprendono l'immagine dell'utensile, dimensioni, qualità e novità sui prodotti.

Visualizzare la disponibilità dei prodotti in tutte le sedi nel mondo.

Ottenere le informazioni sulle velocità di rotazione e avanzamento con valori in pollici e metrici per tutti i prodotti per il taglio di metalli.

Visualizzare i suggerimenti tecnici per trovare risposte utili a domande frequenti sulle lavorazioni.

Contattare l'Assistenza clienti direttamente dall'app.

CALCOLATORI DI LAVORAZIONE

Guardare i dati per le applicazioni di fresatura e foratura.

Valori calcolati in pollici e metrici.

ORDINAZIONE

Accedere utilizzando le credenziali Konnect per completare un acquisto.

DOVE SI TROVA

Scaricare subito l'app gratuita da iTunes® o da Google Play™ store.

ANDROID APP ON Google play

Available on the App Store

Servizio e supporto

Customer Application Support (CAS)

Subito una risposta affidabile ai problemi più difficili di taglio dei metalli

Il team Customer Application Support (CAS), è la più importante risorsa help-desk nell'industria della lavorazione dei metalli per soluzioni applicative di utensileria e risoluzione dei problemi.

Facile accesso a una collaudata competenza nella lavorazione dei metalli!

I tecnici Kennametal Customer Application forniscono assistenza ai clienti e ai gruppi tecnici di tutto il mondo con consigli sulla scelta competente di utensili e applicazioni in relazione all'intera gamma di utensili Kennametal.

ECCELLENZA NEL LIVELLO DI SERVIZIO

Risposta telefonica veloce.
Soluzioni tecniche rapide.
Gestione efficiente del caso.

SERVIZI

Parametri di funzionamento.
Ottimizzazione dei processi.
Supporto hardware.
Scelta degli utensili.
Soluzione dei problemi.

UTENSILI E TECNOLOGIA DI SUPPORTO ECCELLENTI

Database dei materiali.
Calcolatrici per applicazioni.
Esperti nel rendimento degli utensili.

Paese di origine	Lingua	Telefono	E-mail
Australia	Inglese	1800 666 667	ap-kmt.techsupport@kennametal.com
Austria	Tedesco	0800 202873	eu.techsupport@kennametal.com
Belgio	Inglese/Francese	0800 80850	eu.techsupport@kennametal.com
Cina	Cinese	400 889 2238	k-cn.techsupport@kennametal.com
Danimarca	Inglese	808 89298	na.techsupport@kennametal.com
Finlandia	Inglese	0800 919412	na.techsupport@kennametal.com
Francia	Francese	080 5540 367	eu.techsupport@kennametal.com
Germania	Tedesco	0800 0006651	eu.techsupport@kennametal.com
India	Inglese	1 800 103 5227	in.techsupport@kennametal.com
Israele	Inglese	1809 449889	na.techsupport@kennametal.com
Italia	Italiano	800 916561	eu.techsupport@kennametal.com
Giappone	Inglese	03 3820 2855	ap-kmt.techsupport@kennametal.com
Corea del Sud	Inglese	+82 2 2100 6100	ap-kmt.techsupport@kennametal.com
Malesia	Inglese	1800 812 990	ap-kmt.techsupport@kennametal.com
Messico	Spagnolo	1800 253 0758	na.techsupport@kennametal.com
Paesi Bassi	Inglese	0800 0201 130	eu.techsupport@kennametal.com
Nuova Zelanda	Inglese	0800 450 941	ap-kmt.techsupport@kennametal.com
Norvegia	Inglese	800 10080	na.techsupport@kennametal.com
Polonia	Polacco	0080 04411887	eu.techsupport@kennametal.com
Russia (linea fissa)	Russo	8800 5556394	eu.techsupport@kennametal.com
Russia (telefono cellulare)	Russo	+7 8005556394	eu.techsupport@kennametal.com
Singapore	Inglese	1800 6221031	ap-kmt.techsupport@kennametal.com
Sudafrica	Inglese	0800 981643	na.techsupport@kennametal.com
Svezia	Inglese	020799246	na.techsupport@kennametal.com
Taiwan	Inglese	0800 666 197	ap-kmt.techsupport@kennametal.com
Thailandia	Inglese	1800 4417820	ap-kmt.techsupport@kennametal.com
Regno Unito	Inglese	0800 032 8339	na.techsupport@kennametal.com
Ucraina	Russo	0800502664	eu.techsupport@kennametal.com
USA	Inglese	800 835 3668	na.techsupport@kennametal.com

I numeri elencati sono validi solo per il paese corrispondente.

NOVO SA COME FARE: RICERCA

La ricerca di un utensile è stata migliorata dalle funzioni Consiglio e Selezione nell'applicazione NOVO™ — per risparmiare tempo e denaro.

CONSIGLIARE

Utilizza un approccio basato su regole per fornire consigli sull'utensile da taglio:

- Definire le caratteristiche di lavorazione (spianatura, scanalatura, lavorazione di fori ciechi, ecc.)
- Applicare le limitazioni richieste (limitazioni geometriche, di materiale, di tolleranza, ecc.)
- Impostare la sequenza di lavorazione (operazione singola o multistep, prima sgrossatura quindi finitura, ecc.)
- Ricevere risultati catalogati

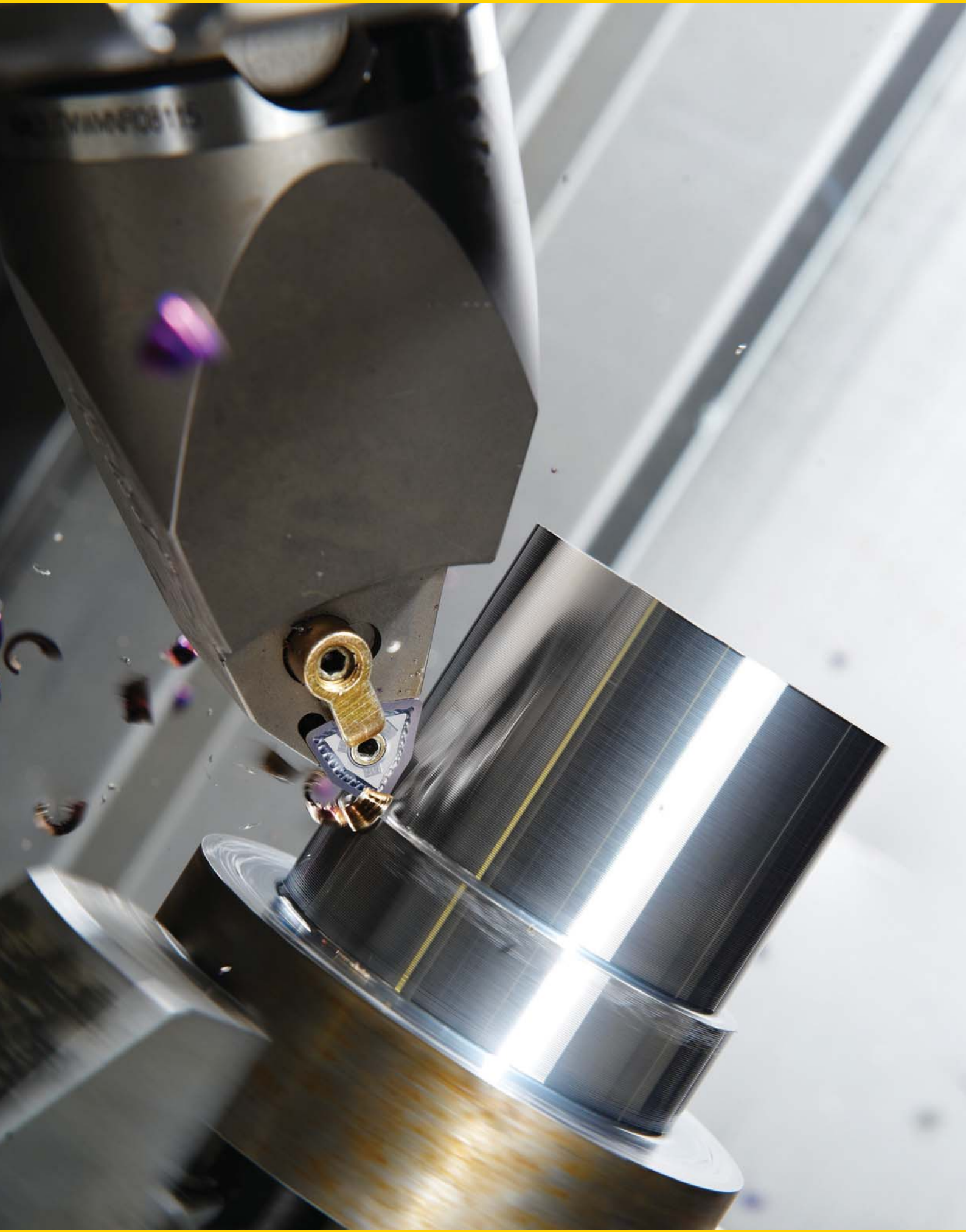
SELEZIONARE

Un metodo per selezionare gli utensili da taglio da una struttura ramificata utilizzando una ricerca gerarchica o parametrica:

- Se si conosce quale prodotto si sta cercando, è possibile effettuare una ricerca rapida utilizzando il codice catalogo o la descrizione del prodotto.
- L'applicazione di filtri intelligenti riduce significativamente la quantità di soluzioni di utensili potenzialmente disponibili.
- Dopo aver scelto l'utensile, NOVO fornisce anche le opzioni di taglio e di adattamento specifiche per ogni soluzione.

L'applicazione NOVO garantisce di avere gli utensili giusti per ogni macchina, nella sequenza giusta. Questo permette un'esecuzione impeccabile che velocizza ogni lavoro e massimizza ogni turno.
kennametal.com/novo

KENNAMETAL



Tornitura

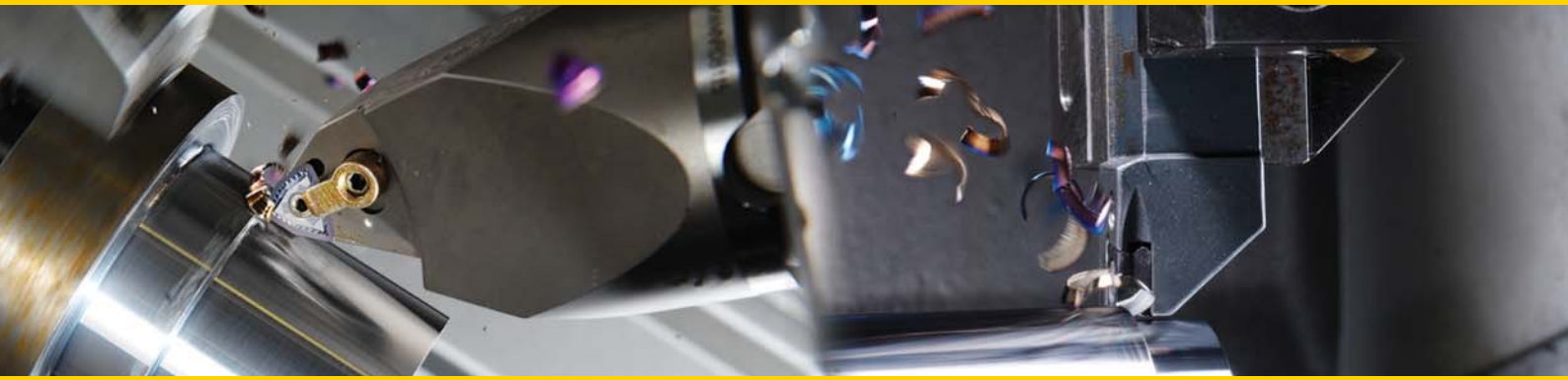
Introduzione alla tornitura A2–A3

Tornitura ISO B1–B387

Scanalatura e troncatura C1–C179

Filettatura D1–D110

Specifico per il tipo di applicazione E1–E65



Prodotti per tornitura

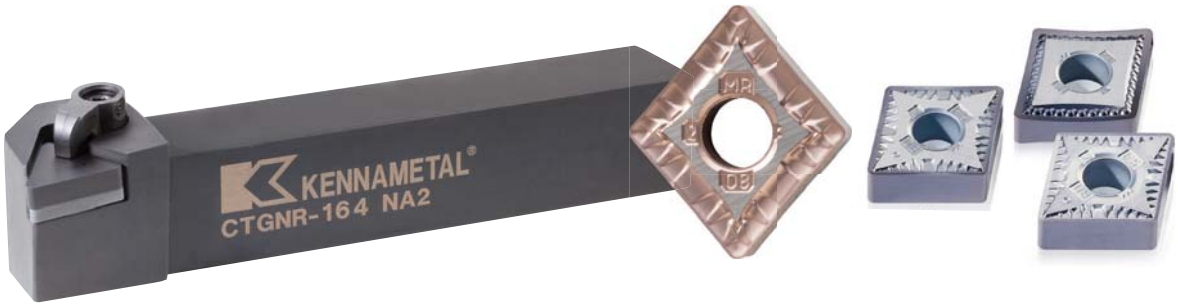
Le nostre innovazioni più recenti nel settore della lavorazione dei metalli sono state progettate per offrire maggiore produttività, maggiore durata dell'utensile ed elevata versatilità.

Per ulteriori informazioni sui più recenti prodotti e servizi Kennametal, contattate il rappresentante Kennametal o il partner di distribuzione autorizzato Kennametal o visitate il sito **kennametal.com**.

TORNITURA ISO

Per maggiori dettagli, consultare la sezione B.

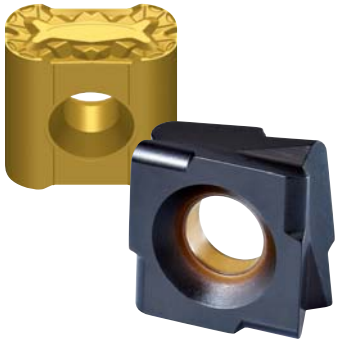
- Inserti Negativi
- Utensili, bareni, cartucce e testine per inserti negativi.
- Inserti positivi
- Utensili, bareni, cartucce e testine per inserti positivi.
- Inserti in materiale avanzato per la lavorazione di:
  — Ghisa
  — Acciai temprati
  — Leghe resistenti al calore
- Inserti in PCD.
- Portautensili, bareni, cartucce e teste fissate con bulloni per uso con inserti in materiale avanzato.
- Bareni regolabili.



FILETTATURA, SCANALATURA E TRONCATURA (TG&C)

Vedere le sezioni C e D per ulteriori dettagli.

- Beyond™ Evolution™ Scanalatura,taglio e tornitura
- A4™ Scanalatura e Tornitura
- Scanalatura Top Notch™
- Filettatura Top Notch
- Filettatura Laydown



SPECIFICO PER IL TIPO DI APPLICAZIONE

Per maggiori dettagli, consultare la sezione E.

- Tornitura Fix-Perfect™
- Profilatura Top Notch
- Utensili per l'industria ferroviaria e la lavorazione di ruote
- K-Lock™

Tornitura ISO

Sistema di selezione inserto Kennametal B2–B21

Qualità Kennametal ed area di applicazione B22–B29

Geometrie forma truciolo, area di applicazione, avanzamento e profondità di passata B30–B35

Panoramica codici ISO Utensili, bareni e cartucce B36–B45

Inserti di tipo negativo Kenloc, portautensili, bareni, cartucce e testine bolt-on B46–B165

Inserti di tipo positivo Kendex, portautensili, bareni, cartucce e testine bolt-on B166–B174

Inserti di tipo positivo screw-on, portautensili, bareni, cartucce e testine bolt-on B175–B273

Inserti in materiale avanzato, portautensili, bareni, cartucce e testine bolt-on B274–B378

- Materiali avanzati per la lavorazione della ghisa B278–B300
- Materiali avanzati per materiali duri B302–B324
- Materiali avanzati per lavorazioni ad alte temperature B326–B337
- Inserti in PCD B338–B352
- Portautensili, bareni, cartucce e testine bolt-on B353–B378

Bareni regolabili B380–B387

App Mobile

L'applicazione mobile di Kennametal fornisce un facile accesso alle informazioni sui prodotti e ai calcolatori, sia sui device iPhone® che Android™. Abbiamo elencato una serie di funzionalità chiave...

C'è un app per questo.

PARAMETRI DI TAGLIO

Visualizza le informazioni sulle velocità di taglio e gli avanzamenti dei prodotti per l'asportazione truciolo.

DISPONIBILITA' DEI PRODOTTI

Verifica la disponibilità globale dei prodotti. Visualizza le quantità disponibili utilizzando le credenziali dell'account Konnect.

CALCOLATORI

Utilizza i nostri calcolatori per le applicazioni di fresatura e foratura.

Scansionando semplicemente il codice a barre sulla confezione degli inserti è possibile trovare i parametri di taglio più produttivi per la miglior vita utensile, i tempi della lavorazione e le informazioni sul campo di controllo truciolo.

NOTA: l'applicazione è al momento disponibile solo nella versione in lingua inglese. Sono pianificati per il futuro il rilascio di successivi aggiornamenti per la versione tradotta in lingua locale.

Google play

Available on the App Store

Inserti, portautensili e bareni per tornitura ISO

Le moderne macchine CNC e gli impianti di produzione flessibili richiedono utensili con versatilità applicativa. Gli inserti Kennametal ad alta prestazione, gli utensili ed i bareni sono progettati per risolvere ogni applicazione. Sia che si stia lavorando acciaio o titanio o si stia facendo finitura o sgrossatura pesante, abbiamo la soluzione di utensili per soddisfare le vostre esigenze.

Caratteristiche e vantaggi

Inserti Beyond™ Drive™

- Per fornire una maggiore produttività.
- Il trattamento post-rivestimento riduce lo stress e migliora l'adesione del rivestimento.
- Eccellente tenacità e resistenza all'usura.
- Migliore identificazione dell'usura dell'inserto.

Qualità PVD Beyond™

Qualità KCU10™
- Resistenza all'usura superiore e velocità di taglio più elevate a temperature più alte.
- Ideale per acciai inossidabili e leghe resistenti al calore.
- Migliore resistenza all'usura ad intaglio.
- Per lavorazioni che vanno dalla finitura alla lavorazione media.

Qualità KCU25™
- Tenacità superiore del tagliente
- Eccellente resistenza all'usura.
- Per lavorazioni medie e sgrossatura.

Soluzioni Kennametal per la tornitura a seconda del materiale

P	Acciaio	Inserti in carburo o Cermet
M	Acciaio inossidabile	Inserti in carburo
K	Ghisa	Inserti in carburo, ceramici o PcBN
N	Materiali non ferrosi	Inserti in carburo o PCD
S	Leghe resistenti al calore	Inserti in carburo, ceramici, PcBN o PCD
H	Materiali temprati	Inserti ceramici o PcBN

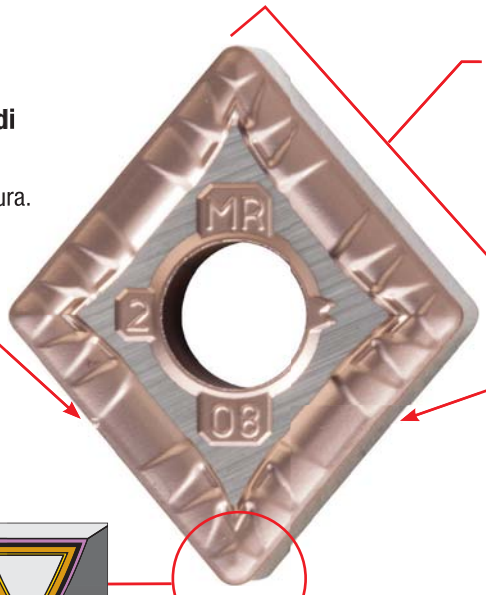
Inserti Beyond™ Drive™ • Dettagli della tecnologia

Il trattamento post-rivestimento

- Migliora la tenacità del tagliente.
- Durata prevedibile e prolungata dell'inserto.
- Riduce la formazione di intagli.
- Ampia gamma di applicazioni.

Rettifica post-rivestimento sui piani di appoggio superiore ed inferiore

- Garantisce una superficie d'appoggio sicura.

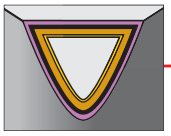


Taglienti micro-lucidati

- Migliora la tenacità del tagliente.
- Offre una superficie esterna liscia, che permette la riduzione delle forze, della frizione e del tagliente di riporto.

Strato di allumina a grana fine

- Garantisce l'integrità del rivestimento anche a velocità elevate.
- Produttività e affidabilità maggiori a temperature di taglio elevate.

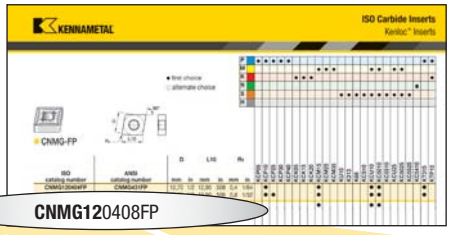


TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Portautensili, bareni e cartucce

Come utilizzare i codici del catalogo

Ciascun numero e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



CNMG120408FP

C — Forma inserto

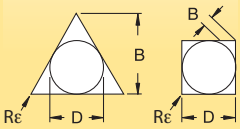
H	Esagonale 120°	
O	Ottagonale 135°	
P	Pentagonale 108°	
R	Tonda —	
S	Quadrata 90°	
T	Triangolare 60°	
C	Romboidale 80°	
D	55°	
E	75°	
M	86°	
V	35°	
W	Trigonale 80° con gli angoli degli spigoli ampliati	
L	Rettangolare 90°	
A	Parallelogramma 85°	
B	82°	
N/K	55°	

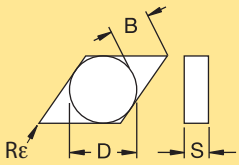
N — Angolo di spoglia dell'inserto

A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Indicato per altri angoli di spoglia inferiore che richiedono descrizioni.

M — Classe di tolleranza

Le tolleranze devono essere considerate prima della preparazione e del rivestimento del tagliente





D = Diametro teorico della circonferenza inscritta nell'inserto
S = Spessore
B = Vedere le figure di seguito

G — Caratteristiche dell'inserto

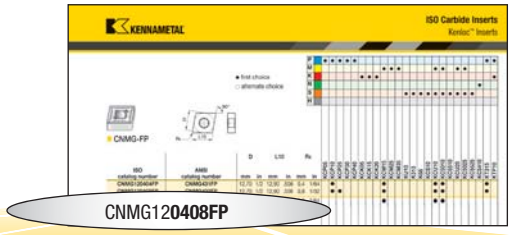
N	
R	
F	
A	
M	
G	
W	
T	
Q	
U	
B	
H	
C	
J	
X	Design speciale

12 — Dimensione

"D" mm	Codice per la lunghezza in pollici del tagliente "L10" C	D	R	S	T	V	W
3,97	S4	04	03	03	06	—	—
4,76	04	05	04	04	08	08	S3
5,56	05	06	05	05	09	09	03
6,00	—	—	06	—	—	—	—
6,35	06	07	06	06	11	11	04
7,94	08	09	07	07	13	13	05
8,00	—	—	08	—	—	—	—
9,52	09	11	09	09	16	16	06
10,00	—	—	10	—	—	—	—
11,11	11	13	11	11	19	19	07
12,00	—	—	12	—	—	—	—
12,70	12	15	12	12	22	22	08
14,29	14	17	14	14	24	24	09
15,88	16	19	15	15	27	27	10
16,00	—	—	16	—	—	—	—
17,46	17	21	17	17	30	30	11
19,05	19	23	19	19	33	33	13
20,00	—	—	20	—	—	—	—
22,22	22	27	22	22	38	38	15
25,00	—	—	25	—	—	—	—
25,40	25	31	25	25	44	44	17
31,75	32	38	31	31	54	54	21
32,00	—	—	32	—	—	—	—

classe di tolleranza	tolleranza su "D"	tolleranza su "B"	tolleranza su "S"
C	±0,025	±0,013	±0,025
H	±0,013	±0,013	±0,025
E	±0,025	±0,025	±0,025
G	±0,025	±0,025	±0,013
M	Vedere le tabelle nella pagina successiva		±0,013
U	Vedere le tabelle nella pagina successiva		±0,013

Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.



04

Spessore
S

simbolo mm	spessore mm
–	0,79
T0	1,00
01	1,59
T1	1,98
02	2,38
03	3,18
T3	3,97
04	4,76
05	5,56
06	6,35
07	7,94
9	9,52
11	11,11
12	12,70

08

Angolo
Raggio di
punta "Rε"

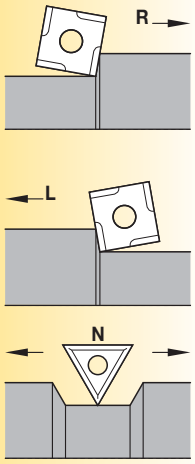
simbolo mm	raggio di punta mm
X0	0,04
01	0,1
02	0,2
04	0,4
08	0,8
12	1,2
16	1,6
20	2,0
24	2,4
28	2,8
32	3,2
00	inserto rotondo
M0	
—	

Lato dell'inserto
(facoltativo)

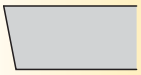
R = Destro

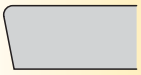
L = Sinistro

N = Neutro



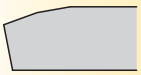
Tagliente
(facoltativo)

F  Affilato

E  Arrotondato

T Smussato

S Smussato e arrotondato

K  A doppio smusso

P A doppio smusso e arrotondato

FP

Rompitruciolo
(facoltativo)

F	=	Affilato
FF	=	Finitura di precisione
FN	=	Finitura, negativo
MN	=	Medio, negativo
MR	=	Sgrossatura media
RN	=	Sgrossatura, negativo
UN	=	Universale, negativo
FP	=	Finitura, positivo
MP	=	Medio, positivo
RP	=	Sgrossatura, positivo
RM	=	Sgrossatura, medio
RH	=	Sgrossatura pesante
FW	=	Wiper di finitura
MW	=	Wiper medio
FS	=	Finitura, affilato
MS	=	Medio, affilato
RW	=	Wiper di sgrossatura
HP	=	Altamente positivo
UP	=	Universale, positivo
K	=	Controllo del truciolo ad avanzamento leggero
UF	=	Finitura ad altissima precisione
LF	=	Finitura leggera
MF	=	Finitura media
E	=	Solo onatura
T	=	Profilo negativo
S	=	Profilo negativo con onatura
MP-K	=	Medio, positivo
MG-P	=	Medio, positivo

	Tolleranza ± su "D"			
	Tolleranza classe M			Tolleranza classe U
"D" mm	Forme S, T, C, R, & W mm	Forma D mm	Forma V mm	Forme S, T, & C mm
3,97	0,05	–	–	–
4,76	0,05	–	–	0,08
5,56	0,05	0,05	0,05	0,08
6,35	0,05	0,05	0,05	0,08
7,94	0,05	0,05	0,05	0,08
9,52	0,05	0,05	0,05	0,08
11,11	0,08	0,08	0,08	0,13
12,70	0,08	0,08	0,08	0,13
14,29	0,08	0,08	0,08	0,13
15,88	0,10	0,10	0,10	0,18
17,46	0,10	0,10	0,10	0,18
19,05	0,10	0,10	0,10	0,18
22,22	0,13	–	–	0,25
25,40	0,13	–	–	0,25
31,75	0,15	–	–	0,25

	Tolleranza ± su "B"			
	Tolleranza classe M			Tolleranza classe U
"D" mm	Forme S, T, C, R, & W mm	Forma D mm	Forma V mm	Forme S, T, & C mm
3,97	0,08	–	–	–
4,76	0,08	–	–	0,13
5,56	0,08	0,11	–	0,13
6,35	0,08	0,11	–	0,13
7,94	0,08	0,11	–	0,13
9,52	0,08	0,11	0,18	0,13
11,11	0,13	0,15	–	–
12,70	0,13	0,15	0,25	0,20
14,29	0,13	0,15	–	–
15,88	0,15	0,18	–	0,27
17,46	0,15	0,18	–	0,27
19,05	0,15	0,18	–	0,27
22,22	0,15	–	–	0,38
25,40	0,18	–	–	0,38
31,75	0,20	–	–	0,38

Un sistema di qualità, geometrie e consigli per le applicazioni garantisce il prodotto ideale per ogni necessità di lavorazione. È semplice stabilire quale sia l'utensile da taglio Kennametal con controllo del truciolo più specificamente adatto al materiale e all'applicazione!

Qualità • Beyond™ • Beyond™ Drive™

K	C	P	M	25	B
Marchio	Materiale dell'inserto	Principale materiale del pezzo *(ISO 513)*	Materiale secondario del pezzo *(opzionale)*	Gamma delle applicazioni	Aggiornamenti successivi *(opzionale)*

K = Kennametal

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati
U	Lavorazioni Universali

campo vuoto	=	Metallo duro, non rivestito
C	=	Metallo duro rivestito
T	=	Cermet
Y	=	Ceramica
D	=	PCD
B	=	PcBN
S	=	Acciaio

Durezza

5	finitura di precisione
10	finitura
15, 20	lavorazione media e sgrossatura
25, 30, 35	sgrossatura
40, 45, 50	sgrossatura pesante

Spessore

B	=	Beyond™ Drive™
C	=	3 generazione

ecc.

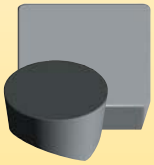
NOTA: Il campo di applicazione non si applica alle qualità PcBN.

Inserti positivi

Inserti Screw-on

- Gli inserti screw-on sono la prima scelta per la tornitura interna di tutti i materiali e per la tornitura esterna su torni di piccole e medie dimensioni.
- Disponibili con geometrie a spoglia superiore piana e con controllo del truciolo, con bordi stampati e rettificati. Ideali per qualsiasi tipo di materiale.

Vedere le pagine:
Metallo duro: B175–B273
Materiali avanzati: B284–B351



Inserti Kendex™ e con fondo a V

- Gli inserti Kendex positivi e con fondo a V sono la prima scelta per la lavorazione di leghe resistenti al calore su torni di medie e grandi dimensioni.
- Disponibili con geometrie a spoglia superiore piana con bordo rettificato.

Vedere le pagine:
Metallo duro: B166–B168
Materiali avanzati: B284–B351

Inserti di profilatura Top Notch™

- Prima scelta per profilatura con elevata produzione.
- Il design esclusivo del sistema di bloccaggio inserto offre un'elevata rigidità.
- Disponibili con geometrie con controllo del truciolo, con bordi stampati e rettificati. Ideali per qualsiasi tipo di materiale.

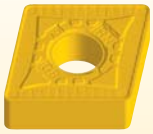
Vedere le pagine E20–E43 per l'elenco dei prodotti.

Inserti K-Lock™

- Gli inserti K-Lock sono ideali per scanalature e profilature profonde.
- Il sistema esclusivo di bloccaggio dell'inserto favorisce il flusso del truciolo.
- Disponibili con bordi stampati e rettificati.

Vedere a pagina E62–E65 per l'elenco dei prodotti.

Inserti negativi



Inserti Kenloc™

- Ideali per la lavorazione generale di qualsiasi materiale su torni di medie o grandi dimensioni.
- Gli inserti Kenloc offrono la soluzione migliore per grandi quantità di truciolo asportato.
- Disponibili con geometrie a spoglia superiore piana e con controllo del truciolo, con bordi stampati e rettificati. Ideali per qualsiasi tipo di materiale.

Vedere le pagine:
Metallo duro: B46–B165
Materiali avanzati: B284–B351

Inserti Kendex

- Gli inserti Kendex in ceramica sono la scelta perfetta per la lavorazione di leghe resistenti al calore.
- Gli inserti a spoglia negativa Kendex sono inoltre consigliati per la lavorazione di materiali temprati e ghise.
- Disponibili con geometrie a spoglia superiore piana, con bordi stampati e rettificati.
- Viene offerta una vasta gamma di portautensili standard.

Vedere le pagine B284–B351 per l'elenco dei prodotti.

Inserti per tornitura Top Notch

- Gli inserti di tornitura Top Notch in ceramica sono la prima scelta per la sgrossatura e finitura ad alta velocità di pezzi in ghisa.
- Disponibili con geometrie a spoglia superiore piana, con bordi stampati e rettificati.

Vedere le pagine B284–B351 per l'elenco dei prodotti.

Inserti Fix-Perfect™

- Design tangenziale e sistema di bloccaggio rigido.

Vedere le pagine E2–E18 per l'elenco dei prodotti.

Inserti per tornitura ferroviaria

- Progettato per la lavorazione di ruote e assi ferroviari.

Vedere le pagine E44–E61 per l'elenco dei prodotti.

Sistema di selezione dell'inserto

Come usare

Il sistema di selezione degli inserti in tre fasi di Kennametal rende la scelta e l'applicazione dell'utensile più produttivo semplici come contare 1, 2 e 3. I consigli sugli utensili si basano su sei gruppi di materiali, massimizzando la precisione della scelta.

Esempio:
sei gruppi di materiali da lavorare

Passo 1 • Scegliere la geometria dell'inserto

Noto:	profondità di taglio = 1 mm avanzamento = 0,4 mm
Sconosciuta:	**Geometria dell'inserto**
Soluzione:	-MN

Passo 2 • Scegliere la qualità

Noto:	condizioni di taglio: taglio leggermente interrotto
Geometria:	-MN
Sconosciuta:	**qualità**
Soluzione:	KCP25B

Passo 3 • Scegliere la velocità di taglio

Noto:	qualità KCP25B condizioni di taglio materiale CK15
Sconosciuta:	**velocità di taglio**
Soluzione:	280 m/min

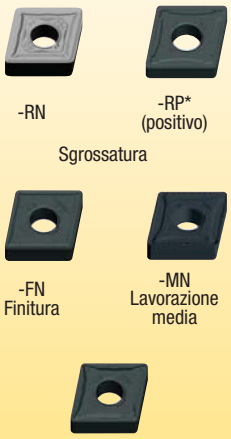
Serve aiuto per scegliere un prodotto?
Per ulteriori informazioni contattare il
team Customer Application Support di Kennametal.
Accedere al sito kennametal.com per i numeri di telefono nazionali.

Passo 1 • Scegliere la geometria dell'inserto

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

beyond beyond DRIVE™

Inserti negativi



-RN

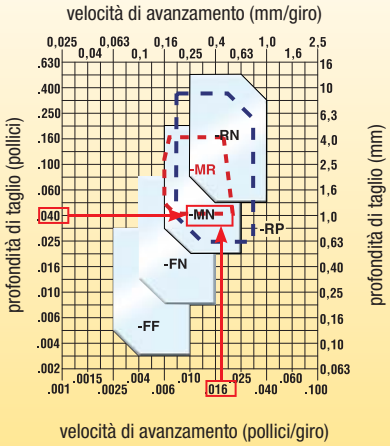
-RP* (positivo)

Sgrossatura

-FN Finitura

-MN Lavorazione media

-FF Finitura di precisione



* -RP – Geometria di riferimento per materiali ad alta resistenza

Passo 2 • Scegliere la qualità

condizione di taglio	-FF	-FN	-MN	-RN	-RP	-11	-UF	-LF	-FP	-MF	-MP
taglio fortemente interrotto	KCP10B/ KCP10	KCP25B/ KCP25	KCP30B/ KCP30	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCU25/ KCP25B/ KCP25	KCP40B/ KCP40B	KCP40B/ KCP40B
taglio leggermente interrotto	KCP10B/ KCP10	KCP25B/ KCP25	KCP25B/ KCP25	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25
profondità di taglio variabile, superfici di fusione o di forgiatura	KCP05B/ KCP05/ KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10

Passo 3 • Scegliere la velocità di taglio

Acciaio a basso tenore di carbonio (<0,3% C) e acciaio ad alta lavorabilità — **velocità — m/min (SFM)** — **Condizioni iniziali**

gruppo materiali	qualità	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P1	KCP05B/KCP05/KTP10										435	1450
	KCP10B/KCP10										395	1320
	KCP25B/KCP25										275	925
	KCP30B/KCP30/KCP40B/KCP40										210	700

Guida alla scelta del nuovo gruppo di materiali Beyond™:

Per ottimizzare i consigli sulla velocità, ad ognuno dei sei gruppi di materiali da lavorare sono stati aggiunti i sottogruppi dei materiali Beyond.

materiale	codice ISO del gruppo materiali	numero dei sottogruppi di materiali
acciaio	P	1–6
acciaio inossidabile	M	1–3
ghisa	K	1–3
materiali non ferrosi	N	1–8
leghe resistenti al calore	S	1–4
materiali temprati	H	1

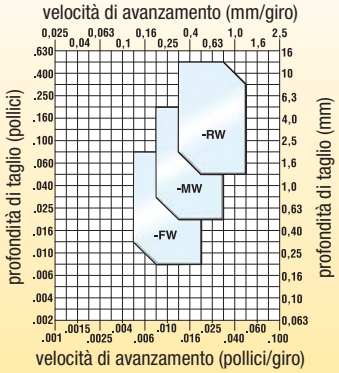
Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi

-RW
Wiper di sgrossatura

-MW
Wiper medio

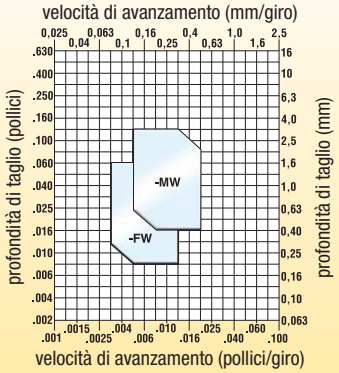
-FW
Wiper di finitura



Inserti positivi

-MW
Wiper medio

-FW
Wiper di finitura



Passo 2 • Scegliere la qualità

condizione di taglio	Geometria negativa dell'inserto -FW	Geometria negativa dell'inserto -MW	Geometria negativa dell'inserto -RW	Geometria positiva dell'inserto -FW	Geometria positiva dell'inserto -MW
taglio fortemente interrotto	–	–	KCP25B/KCP25	–	KCP25B/KCP25
taglio leggermente interrotto	KCP10B/KCP10	KCP25B/KCP25	KCP25B/KCP25	KCP25B/KCP25	KCP25B/KCP25
profondità di taglio variabile, superfici di fusione o di forgiatura	KCP05B/KCP05/ KT315	KCP10B/KCP10	KCP10B/KCP10	KCP10B/KCP10/ KCK20B/KCK20	KCP10B/KCP10
taglio uniforme, superficie pre-tornita	KCP05B/KCP05/ KT315	KCP05B/KCP05	KCP10B/KCP10	KCP10B/KCP10/ KT315	KT315

Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi

-RN

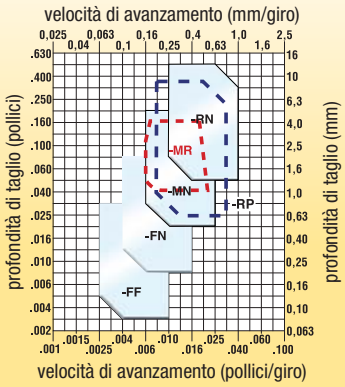
-RP*
(positivo)

-MR
Sgrossatura media

-MN
Lavorazione media

-FN
Finitura

-FF
Finitura di precisione



* -RP – Geometria di riferimento per materiali ad alta resistenza

Inserti positivi

-MF

-MP
Positivo

Lavorazione media

-LF

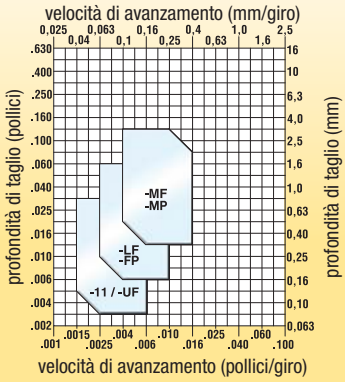
-FP
Positivo

Finitura

-11

-UF

Finitura di precisione



Passo 2 • Scegliere la qualità

condizione di taglio	Geometria negativa dell'inserto -FF	-FN	-MN	-MR	-RN	-RP	Geometria positiva dell'inserto -11	-UF	-LF	-FP	-MF	-MP
taglio fortemente interrotto	KCP10B/ KCP10	KCP25B/ KCP25	KCP30B/ KCP30	–	KCP30B/ KCP40B	KCP30B/ KCP40B	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP40B/ KCP40	KCM25B/ KCM25
taglio leggermente interrotto	KCP10B/ KCP10	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25
profondità di taglio variabile, superfici di fusione o di forgiatura	KCP05B/ KCP05/ KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10
taglio uniforme, superficie pre-tornita	KCP05B/ KCP05/ KT315	KCP05B/ KCP05	KCP05B/ KCP05	KCP10B/ KCP10/ KCK15B	KCP05B/ KCP10	KCP05B/ KCP10	KT315	KCP05B/ KCP05	KCP05B/ KCP05/ KT315	KCP05B/ KCP05/ KTP10	KCP05B/ KCP05	KCP05B/ KCP05

Passo 3 • Scegliere la velocità di taglio

Acciaio a basso tenore di carbonio (< 0,3 % C) e acciaio ad alta lavorabilità — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P0/P1	KCP05B/KCP05/KCPK05										435	1450
	KCP10B/KCP10										395	1320
	KCP25B/KCP25										275	925
	KCP30B/KCP30/KCP40B/KCP40										210	700
	KT315/KTP10										440	1450
	KCU10										280	925

Acciai a medio e alto contenuto di carbonio (> 0,3 % C) — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P2	KCP05B/KCP05/KCPK05										240	800
	KCP10B/KCP10										265	880
	KCP25B/KCP25										195	650
	KCP30B/KCP30/KCP40B/KCP40										150	500
	KT315/KTP10										270	880
	KCU10										200	650

Acciai legati e per utensili (≤330 HB) (≤35 HRC) — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P3	KCP05B/KCP05/KCPK05										205	680
	KCP10B/KCP10										190	630
	KCP25B/KCP25										155	510
	KCP30B/KCP30/KCP40B/KCP40										120	400
	KT315/KTP10										210	680
	KCU10										155	510

Acciai legati e per utensili (340–450 HB) (36–48 HRC) — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	60 (200)	90 (300)	120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	m/min	SFM
P4	KCP05B/KCP05/KCPK05										160	530
	KCP10B/KCP10										145	480
	KCP25B/KCP25										105	360
	KCP30B/KCP30/KCP40B/KCP40										95	325
	KT315/KTP10										210	530
	KCU10										110	360

Acciai inossidabili ferritici, martensitici e PH (≤330 HB) (≤35 HRC) — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	330 (1100)	360 (1200)	m/min	SFM
P5	KCP05B/KCP05/KCPK05										240	800
	KCP10B/KCP10										215	720
	KCP25B/KCP25										195	650
	KCP30B/KCP30/KCP40B/KCP40										135	450
	KT315/KTP10										250	800
	KCU10										200	660

Acciai inossidabili ferritici, martensitici e PH (340–450 HB) (36–48 HRC) — velocità — m/min (SFM) — Condizioni iniziali

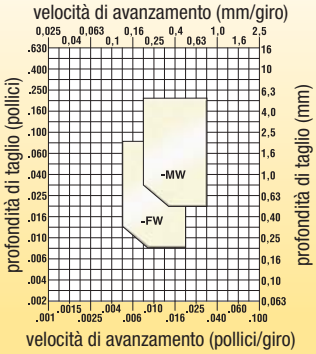
gruppo materiali	qualità	105 (350)	135 (450)	165 (550)	195 (650)	225 (750)	255 (850)	285 (950)	315 (1050)	345 (1150)	m/min	SFM
P6	KCP05B/KCP05/KCPK05										200	660
	KCP10B/KCP10										180	600
	KCP25B/KCP25										150	500
	KCP30B/KCP30/KCP40B/KCP40										105	350
	KT315/KTP10										200	660
	KCU10										150	500

Passo 1 • Scegliere la geometria dell'inserto

Inserti wiper negativi

-MW
Wiper medio

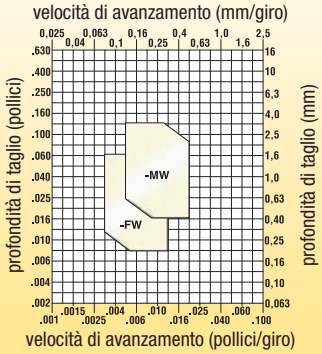
-FW
Wiper di finitura



Inserti wiper positivi

-MW
Wiper medio

-FW
Wiper di finitura



Passo 2 • Scegliere la qualità

condizione di taglio		Geometria negativa dell'inserto -FW	Geometria negativa dell'inserto -MW	Geometria positiva dell'inserto -FW	Geometria positiva dell'inserto -MW
taglio fortemente interrotto		–	–	–	–
taglio leggermente interrotto		KCM15B/KCM15	KCM25B/KCM25	KCM15B/KCM15	KCM15B/KCM15
profondità di taglio variabile, superfici di fusione o di forgiatura		KCM15B/KCM15/ KCU10	KCM15B/KCM15	KCU10	KCU10
taglio uniforme, superficie pre-tornita		KCM15B/KCM15/ KT315	KCM15B/KCM15	KT315	KT315

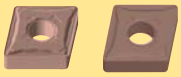
Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi

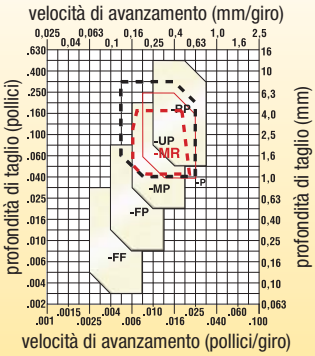
-RP -P
Sgrossatura

-MR
Sgrossatura media

-MP -UP
Lavorazione media



-FP -FF
Finitura



Inserti positivi

-MP
Lavorazione media

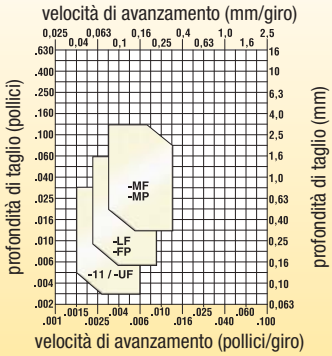
-LF

..GT-LF

Finitura

-11

-UF
Finitura di precisione



Passo 2 • Scegliere la qualità

condizione di taglio		Geometria negativa dell'inserto -FF	-FP	-MP/-UP	-P/-RP	-MR
taglio fortemente interrotto		KCU10	KCM15B/KCM15	KCM35B/KCM35	KCM35B/KCM35	KCM35B/KCM35
taglio leggermente interrotto		KCU10	KCM15B/KCM15	KCM25B/KCM25	KCM25B/KCM25	KCM25B/KCM25
profondità di taglio variabile, superfici di fusione o di forgiatura		KT315	KCM15B/KCM15/ KCU10	KCM15B/KCM15	KCM15B/KCM15/ KCM25B/KCM25	KCM15B/KCM15
taglio uniforme, superficie pre-tornita		KT315	KCM15B/KCM15/ KT315	KCM15B/KCM15/ KCU10	KCU10	KCM15B/KCM15

(continua)

Passo 2 • Scegliere la qualità *(continua)*

condizione di taglio		Geometria positiva dell'inserto -11	-UF	-LF	-MP/-MF	-FP	..GT-LF
taglio fortemente interrotto		–	KCU25	KCM35B/KCM35	KCM25B/KCM25	KCU25/KCM25B/ KCM25	KCU25
taglio leggermente interrotto		–	KCU10	KCM25B/KCM25	KCM25B/KCM25	KCM15B/KCM15	KCU25
profondità di taglio variabile, superfici di fusione o di forgiatura		KT315	–	KCM15B/KCU10	KCM15B/KCM15	KCU10	KCU10
taglio uniforme, superficie pre-tornita		KT315	–	KCM15B/KCM15/ KT315	KCM15B/KCM15	KTP10	KCU10

Passo 3 • Scegliere la velocità di taglio

Acciai inossidabili austenitici — velocità — m/min (SFM) — Condizioni iniziali ◁▷

gruppo materiali	qualità	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M1	KCM15B/KCM15			◁▷							180	600
	KCM25B/KCM25		◁▷								150	500
	KCM35B/KCM35	◁▷									120	400
	KT315				◁▷						230	750
	KCU10			◁▷							215	700
	KCU25			◁▷							180	550

Acciai inossidabili austenitici — velocità — m/min (SFM) — Condizioni iniziali ◁▷

gruppo materiali	qualità	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M2	KCM15B/KCM15			◁▷							165	550
	KCM25B/KCM25		◁▷								140	450
	KCM35B/KCM35	◁▷									105	350
	KT315				◁▷						215	700
	KCU10			◁▷							200	650
	KCU25			◁▷							165	500

Acciai inossidabili austenitici: Duplex (Mix ferritici e austenitici) — velocità — m/min (SFM) — Condizioni iniziali ◁▷

gruppo materiali	qualità	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M3	KCM15B/KCM15			◁▷							150	500
	KCM25B/KCM25		◁▷								120	400
	KCM35B/KCM35	◁▷									90	300
	KT315				◁▷						200	650
	KCU10			◁▷							185	600
	KCU25			◁▷							150	450

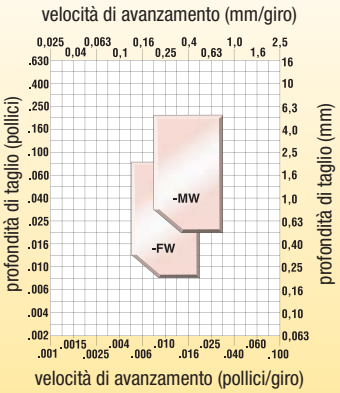
Passo 1 • Scegliere la geometria dell'inserto

Inserti wiper negativi

-MW -S...MW
Wiper medio

-FW -FW
-T-20FW

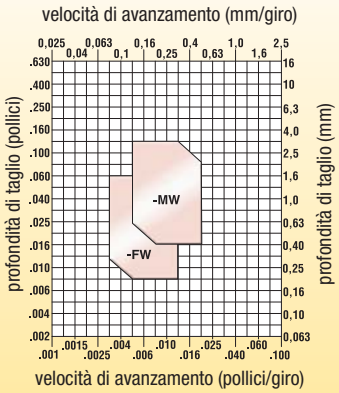
-FW
-T-20FW
Wiper di finitura



Inserti wiper positivi

-MW
Wiper medio

-FW
Wiper di finitura



Passo 2 • Scegliere la qualità

Ghisa grigia

condizione di taglio	Geometria negativa dell'inserto -FW	Geometria negativa dell'inserto -T-20FW	Geometria negativa dell'inserto -S...MW...	Geometria positiva dell'inserto -FW	Geometria positiva dell'inserto -MW
taglio fortemente interrotto	–	KY3500	KB1345	–	KCK15B/KCK15/ KCK20B/KCK20
taglio leggermente interrotto	KCK15B/KCK15	KY3500	KB1345	KCK20B/KCK20	KCK15B/KCK15/ KCK20B/KCK20
profondità di taglio variabile, superfici di fusione o di forgiatura	KCK05B/KCK05/ KT315	KYK10	KB1345	KCK20B/KCK20	KCK15B/KCK15/ KCK20B/KCK20
taglio uniforme, superficie pre-tornita	KCK05B/KCK05/ KT315	KYK25	KB1345	KCK20B/ KT315	KCK15B/KCK15/ KCK20B/KCK20/KT315

Ghisa duttile

condizione di taglio	Geometria negativa dell'inserto -FW	Geometria negativa dell'inserto -T-20FW	Geometria positiva dell'inserto -FW	Geometria positiva dell'inserto -MW
taglio fortemente interrotto	–	–	–	–
taglio leggermente interrotto	KCK15B/ KCK15	KY3500	KCK20B/ KCK20	KCK20B/ KCK20
profondità di taglio variabile, superfici di fusione o di forgiatura	KCK05B/KCK05/ KT315	KYK10	KCK20B/ KCK20	KCK20B/ KCK20
taglio uniforme, superficie pre-tornita	KCK05B/KCK05/ KT315	KYK25	KCK20B/KCK20/ KT315	KCK20B/KCK20/ KT315

Passo 3 • Scegliere la velocità di taglio

Ghisa grigia — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K1	KCK05B/KCK05										450	1500
	KCK15B/KCK15										360	1200
	KCK20B/KCK20/KCPK05										300	1000
	KT315										275	900

Ghise duttili, con grafite compatta e malleabili (resistenza alla trazione <600 MPa) — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K2	KCK05B/KCK05										360	1200
	KCK15B/KCK15										270	900
	KCK20B/KCK20/KCPK05										240	800
	KT315										275	900

Ghise duttili, con grafite compattata e malleabili (resistenza alla trazione >600 MPa) — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K3	KCK05B/KCK05										240	800
	KCK15B/KCK15										215	725
	KCK20B/KCK20/KCPK05										210	700
	KT315										230	750

Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi

..MA
-S-20

-T-20

-MR
Sgrossatura media

-S-20
Sgrossatura

-UN

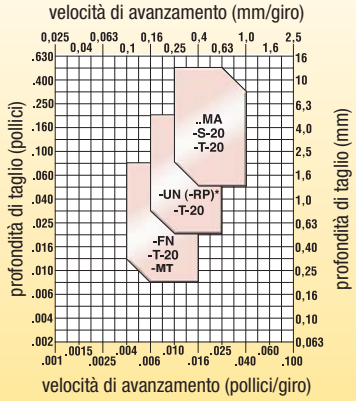
-RP

-T-20
Lavorazione media

-FN
Finitura

-T-20

-MT
Finitura



Inserti positivi

-MF

-T-20

-MP

-C
Lavorazione media

-LF

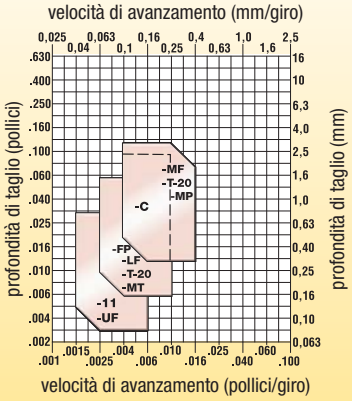
-T-20

-FP
Positivo

-MT
Finitura

-11

-UF
Finitura di precisione



* La geometria può essere utilizzata nelle lavorazioni medie per ridurre la pressione sull'utensile su metalli ad alta resistenza.

Passo 2 • Scegliere la qualità

Ghisa grigia

condizione di taglio	Geometria negativa dell'inserto -FN	-MR	-UN(-RP)	-MA	Geometria positiva dell'inserto -LF	-FP	-MF	-MP
taglio fortemente interrotto	KCK15B/ KCK15	KCP25B/ KCP25/ KCP10B/KCP10	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
taglio leggermente interrotto	KCK15B/ KCK15	KCP10B/ KCP10/ KCP25B/KCP25	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
profondità di taglio variabile, superfici di fusione o di forgiatura	KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK15B/ KCK15	KCK15B/ KCK15	KCK15B/ KCK15	KCK20B/ KCK20	KCK15B/ KCK15	KCK20B/ KCK20
taglio uniforme, superficie pre-tornita	KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK05B/ KCK05	KCK05B/ KCK05	KCK05B/ KCK05	KCK20B/ KCK20	KCK15B/ KCK15	KCK20B/ KCK20

Ghisa duttile

condizione di taglio	Geometria negativa dell'inserto -FN	-UN(-RP)	-MA	Geometria positiva dell'inserto -11/-UF	-LF	-MF	-FP	-MP
taglio fortemente interrotto	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20	–	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
taglio leggermente interrotto	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20	KCU10	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
profondità di taglio variabile, superfici di fusione o di forgiatura	KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK15B/ KCK15	KCU10	KCK15B/ KCK15	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20
taglio uniforme, superficie pre-tornita	KCK05B/ KCK05/ KT315	KCK05B/ KCK05	KCK05B/ KCK05	KT315	KCU10	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20

(continua)

Passo 3 • Scegliere la velocità di taglio *(continua)* (La velocità ottimale dipende dalla qualità e dalla forma della fusione.)

Ghisa grigia — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	60 (200)	180 (600)	305 (1000)	430 (1400)	550 (1800)	675 (2200)	800 (2600)	920 (3000)	1040 (3400)	1160 (3800)	m/min	SFM
K1	KT315											275	900
	KB1340/KB1345											760	2500
	KCK05B/KCK05											450	1500
	KCK15B/KCK15											360	1200
	KCK20B/KCK20/KCPK05											300	1000

Ghise duttili, con grafite compatta e malleabili (resistenza alla trazione <600 MPa) — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	500 (1650)	550 (1800)	600 (1950)	m/min	SFM
K2	KT315													275	900
	KCU10													200	650
	KCK05B/KCK05													360	1200
	KCK15B/KCK15													270	900
	KCK20B/KCK20/KCPK05													240	800

Ghise duttili, con grafite compattata e malleabili (resistenza alla trazione >600 MPa) — velocità — m/min (SFM) — Condizioni iniziali

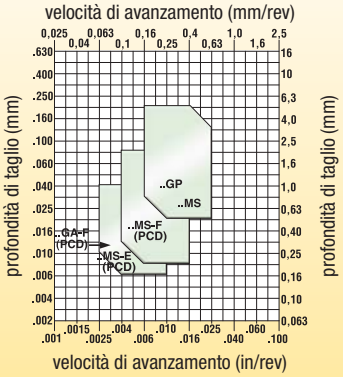
gruppo materiali	qualità	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	500 (1650)	550 (1800)	600 (1950)	m/min	SFM
K3	KT315													230	750
	KCU10													150	500
	KCK05B/KCK05													240	800
	KCK15B/KCK15													215	725
	KCK20B/KCK20/KCPK05													210	700

Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi

..GP ..MS

Finitura media



Inserti positivi

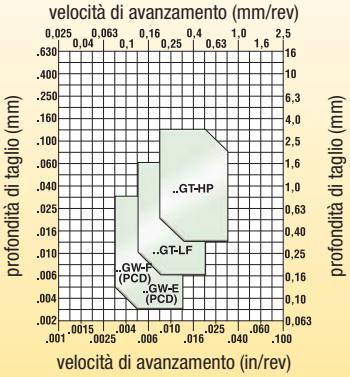
..GT-HP

Finitura media

..GT-LF

Finitura

..GW-F (PCD) ..GW-E (PCD)



Passo 2 • Scegliere la qualità

condizione di taglio		Geometria negativa dell'inserto ..GP	Geometria negativa dell'inserto ..MS	Geometria positiva dell'inserto ..GT-LF	Geometria positiva dell'inserto ..GT-HP
taglio fortemente interrotto		KC5410/K313	KC5410	–	KC5410
taglio leggermente interrotto		KC5410/K313	KC5410	KC5410	KC5410
profondità di taglio variabile, superfici di fusione o di forgiatura		KC5410/K313	KC5410	KC5410	KC5410
taglio uniforme, superficie pre-tornita		KC5410/K313	KC5410	KC5410	KC5410

Passo 3 • Scegliere la velocità di taglio

Leghe di alluminio a basso contenuto di silicio (ipoeutettico <12,2% Si) e leghe di magnesio — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	2250 (7200)	2500 (8000)	m/min	SFM
N1	KC5410											550	1800

Ulteriori consigli sulla velocità di taglio per materiali vari

A base di rame, ottone e zinco con indice di lavorabilità di 70–100 — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N4	KC5410					275	900
	K313					260	850

Nylon, materie plastiche, gomme, fenoli, resine, fibra di vetro e vetro — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N5	KC5410					170	550

Compositi in carbonio e grafite:
Leghe abrasive, Kevlar e grafite (280–400 HB) (30–43 HRC) — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N6	KC5410					200	650

Leghe di stagno, di fusione: ASTM 823, leghe 1, 2, 3, 11 — velocità — m/min (SFM) — Condizioni iniziali

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N8	KC5410					215	700
	K313					180	600

Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi

-RP

-MS

Sgrossatura

Lavorazione media

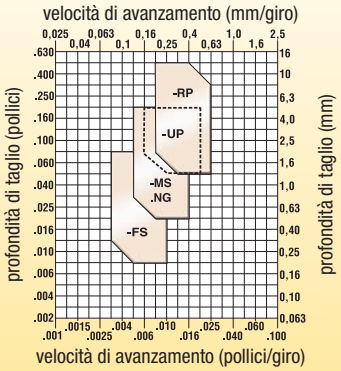
.NG

-UP

Lavorazione media

-FS

Finitura



Inserti positivi

MT-LF

R.GV-T

Lavorazione media

MT-FP

Lavorazione media

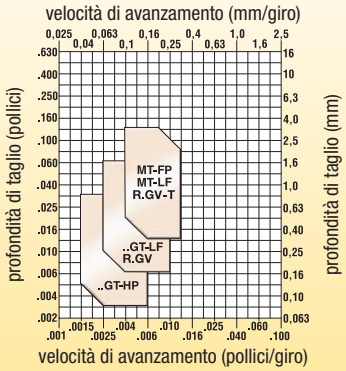
..GT-LF

Finitura di precisione

R.GV

..GT-HP

Finitura di precisione



Passo 2 • Scegliere la qualità

condizione di taglio		Geometria negativa dell'inserto -FS	-MS	-UP	-RP
taglio fortemente interrotto		KCU25	KCU25	KCM35B	KCM25B/ KCM35B
taglio leggermente interrotto		KCU10	KCU25	KCM25B	KCM15B
profondità di taglio variabile, superfici di fusione o di forgiatura		KCU10	KCU10	KCM15B	KCU25
taglio uniforme, superficie pre-tornita		KCU10/K313	KCU10/K313	KCU10	KCU10

condizione di taglio		Geometria positiva dell'inserto MT-FP	..GT-HP	MT-LF	..GT-LF
taglio fortemente interrotto		KCU25	–	KCU25	KCU25
taglio leggermente interrotto		KCU25	KCU25	KCU25	KCU25
profondità di taglio variabile, superfici di fusione o di forgiatura		KCU10/KU10	KCU10	KCU10	KCU10
taglio uniforme, superficie pre-tornita		KCU10/KU10	KCU10/K313	KCU10/K313	KCU10/K313

Passo 3 • Scegliere la velocità di taglio

Leghe a base di ferro resistenti al calore (135–320 HB) (≤34 HRC) — velocità — m/min (SFM) — Condizioni iniziali ◁▷

gruppo materiali	qualità	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S1	K313/KU10														30	100
	KCU10														55	180
	KCU25														40	125
	KCM15B/KCM15														55	180
	KCM25B/KCM25/KCM35B/KCM35														40	125

Leghe a base di cobalto resistenti al calore (150–425 HB) (≤45 HRC) — velocità — m/min (SFM) — Condizioni iniziali ◁▷

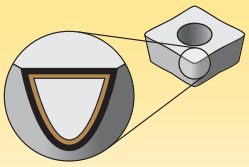
gruppo materiali	qualità	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S2	K313/KU10														35	110
	KCU10														60	195
	KCU25														30	100
	KCM15B/KCM15														60	195
	KCM25B/KCM25/KCM35B/KCM35														30	100

Leghe a base di nichel resistenti al calore (140–475 HB) (≤48 HRC) — velocità — m/min (SFM) — Condizioni iniziali ◁▷

gruppo materiali	qualità	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S3	K313/KU10														40	125
	KCU10														70	225
	KCU25														40	125
	KCM15B/KCM15														70	225
	KCM25B/KCM25/KCM35B/KCM35														40	125

Titanio e leghe di titanio (110–450 HB) (≤48 HRC) — velocità — m/min (SFM) — Condizioni iniziali ◁▷

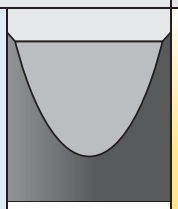
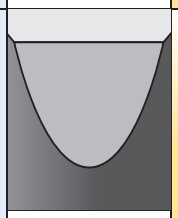
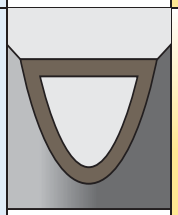
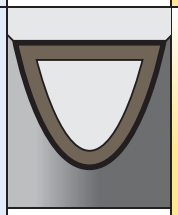
gruppo materiali	qualità	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S4	K313/KU10														45	150
	KCU10														70	225
	KCU25														55	175
	KCM15B/KCM15														70	225
	KCM25B/KCM25/KCM35B/KCM35														55	175

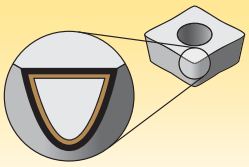


I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ **tenacità**

	Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
Qualità in metallo duro non rivestito	K313	 —	**Composizione:** Qualità dura WC/Co a grana fine non legata a basso contenuto di legante. **Applicazione:** Eccezionale resistenza all'usura del tagliente con un'altissima resistenza per le lavorazioni di titanio, ghise, acciai inossidabili austenitici, metalli non ferrosi, non metalli e la maggior parte delle leghe resistenti al calore. Resistenza superiore alla deformazione termica e all'usura ad intaglio. La struttura con grani è ben controllata per ottenere un numero minimo di cavità e difetti, in modo da contribuire a un servizio lungo e affidabile.										
				M									
				K									
				N									
				S									
Qualità in metallo duro non rivestito	K68	 —	**Composizione:** Qualità dura WC/Co a grana fine legata a basso contenuto di legante. **Applicazione:** La qualità K68 presenta un'eccellente resistenza all'abrasione nelle lavorazioni di ghise, acciai inossidabili austenitici, metalli non ferrosi, non metalli ed è un'alternativa alla qualità K313 nelle leghe resistenti al calore. Da utilizzare come qualità per applicazioni generali su materiali non ferrosi.										
				M									
				K									
				N									
				S									
Qualità in metallo duro con rivestimento in PVD	KCS10	 —	**Composizione:** Qualità in metallo duro con rivestimento PVD-AlTiN avanzato a grana fine. **Applicazione:** La qualità KCS10 è progettata per una lavorazione più efficace delle leghe resistenti al calore. Il substrato a grana fine in metallo duro ha un'eccellente tenacità e resistenza alla deformazione e il rivestimento avanzato in PVD permette velocità di taglio raddoppiate rispetto ad utensili da taglio convenzionali rivestiti in PVD.	P									
				M									
				K									
				N									
				S									
				H									
Qualità in metallo duro con rivestimento in PVD	KCU10	 —	**Composizione:** Un rivestimento multistrato in PVD avanzato su un substrato in metallo duro non legato estremamente resistente alle deformazioni. Il nuovo rivestimento ottimizzato aumenta la stabilità del tagliente per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. **Applicazione:** La qualità KCU10™ è ideale per operazioni che vanno dalla finitura alla lavorazione generale della maggior parte dei materiali per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. Perfetta per la lavorazione della maggior parte degli acciai, degli acciai inossidabili, delle ghise, dei materiali non ferrosi e delle leghe resistenti al calore, nonché dotata di tenacità potenziata del tagliente, di resistenza all'intaglio e di elevate velocità di taglio e avanzamento. beyond	P									
				M									
				K									
				N									
				S									
				H									

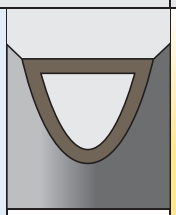
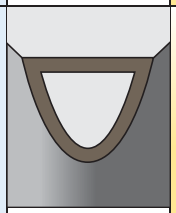
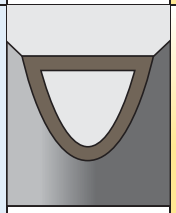
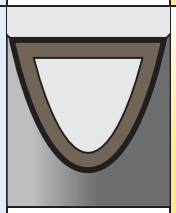


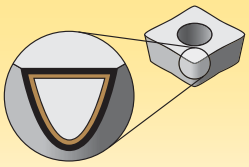
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ tenacità

Qualità in metallo duro con rivestimento in PVD

Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KCU25		**Composizione:** Qualità PVD avanzata con rivestimento duro in AlTiN e substrato non legato a grana fine. Il nuovo rivestimento ottimizzato aumenta la stabilità del tagliente per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. **Applicazione:** La qualità KCU25™ è ideale per la lavorazione generale della maggior parte degli acciai, acciai inossidabili, leghe resistenti al calore, titanio, ghise e materiali non ferrosi, per un'ampia gamma di velocità e avanzamenti, con un miglioramento della tenacità del tagliente per tagli interrotti ed elevate velocità di avanzamento. beyond	P									
			M									
			K									
			N									
			S									
	—											
KC5010		**Composizione:** Rivestimento in PVD AlTiN avanzato su un substrato in metallo duro non legato estremamente resistente alle deformazioni. **Applicazione:** La qualità KC5010™ è ideale per operazioni che vanno dalla finitura alla lavorazione generale della maggior parte dei materiali a velocità più elevate. Perfetta per la lavorazione della maggior parte di acciai, acciai inossidabili, ghise, materiali non ferrosi e leghe resistenti al calore in condizioni stabili. Ottime prestazioni anche nella lavorazione di materiali temprati e a truciolo corto.	P									
			M									
			K									
			N									
			S									
	—		H									
KC5025		**Composizione:** Qualità con rivestimento PVD AlTiN avanzato con un substrato duro non legato a grana ultra fine. **Applicazione:** Per la lavorazione generale della maggior parte degli acciai, acciai inossidabili, leghe resistenti al calore, titanio, ferro e materiali non ferrosi. La velocità può variare da ridotta a media ed è in grado di gestire tagli interrotti ed elevate velocità di avanzamento.	P									
			M									
			K									
			N									
			S									
	—											
KC5410		**Composizione:** Rivestimento PVD TiB_2 su un substrato non legato estremamente resistente alle deformazioni. **Applicazione:** Ideale per la sgrossatura, la semifinitura e la finitura di alluminio a lavorabilità migliorata (ipoeutettico <12,2% Si), leghe di alluminio e leghe di magnesio. Il rivestimento TiB_2 è più duro dei rivestimenti TiN e TiAlN e ha una superficie estremamente levigata che assicura una riduzione dell'attrito superficiale, una veloce evacuazione del truciolo e un'eccezionale resistenza all'usura. Si evita il tagliente di riporto perché questo rivestimento è poco compatibile con l'alluminio. Il substrato non legato a grana fine garantisce taglienti affilati, superfici levigate e una resistenza alla deformazione termica e un'integrità del tagliente eccellenti. Gli inserti con bordo rettificato vengono lucidati prima del rivestimento e presentano taglienti affilati. Gli inserti stampati hanno un'onatura leggera.										
			N									
	—											

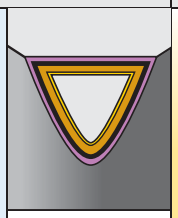
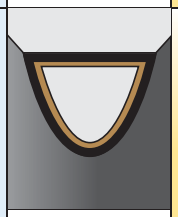
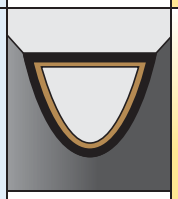
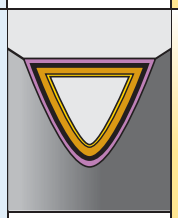
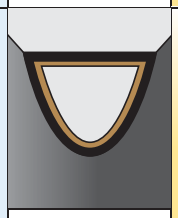


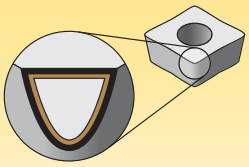
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ tenacità

Qualità in metallo duro con rivestimento CVD

Rivestimento	Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KCP05B  —	**Composizione:** Innovativo substrato arricchito al cobalto, altamente resistente alle deformazioni, con rivestimento speciale in MTCVD TiCN-Al_2O_3-TiOCN. **Applicazione:** Per la finitura o semifinitura della maggior parte degli acciai e degli acciai inossidabili ferritici, martensitici e induriti per precipitazione (PH), nonché delle ghise. Offre un'eccellente combinazione di resistenza alla deformazione e resistenza all'usura del tagliente dell'inserto. Il nuovo rivestimento, associato ad un trattamento post-rivestimento all'avanguardia, offre un'elevata produttività; la durata dell'utensile è lunga e prevedibile e si ottengono finiture superficiali di elevata qualità. beyond™ DRIVE™	P									
		K									
KCP05  —	**Composizione:** Innovativo substrato arricchito al cobalto, altamente resistente alle deformazioni, con rivestimento speciale in MTCVD TiCN-Al_2O_3. **Applicazione:** Per la finitura o semifinitura della maggior parte degli acciai e degli acciai inossidabili ferritici, martensitici e induriti per precipitazione (PH), nonché delle ghise. Offre un'eccellente combinazione di resistenza alla deformazione e resistenza all'usura del tagliente dell'inserto. Il nuovo rivestimento, associato ad un trattamento post-rivestimento all'avanguardia, offre un'elevata produttività; la durata dell'utensile è lunga e prevedibile e si ottengono finiture superficiali di elevata qualità. beyond™	P									
		K									
KCPK05  —	**Composizione:** Substrato arricchito al cobalto altamente resistente alle deformazioni, combinato con uno spesso rivestimento MTCVD TiCN-Al_2O_3. **Applicazione:** Per la tornitura ad elevata produttività di acciai e acciai inossidabili ad indurimento per precipitazione con tagli continui e leggermente interrotti. Questa qualità fornisce un'eccellente combinazione di tenacità e resistenza all'usura ad alta velocità, permettendo una produzione più rapida di componenti d'acciaio. La sua combinazione unica di substrato e rivestimento la rende una qualità ideale per la sgrossatura della ghisa, in cui è necessaria un'alta resistenza alle scheggiature. beyond™	P									
		K									
KCP10B  —	**Composizione:** Qualità in metallo duro arricchito al cobalto, progettata specificamente, con uno spesso rivestimento in MTCVD TiCN-Al_2O_3-TiOCN per la massima resistenza all'usura. **Applicazione:** Ottima qualità per applicazioni dalla finitura alla lavorazione media di una vasta gamma di materiali, compresa la maggior parte degli acciai, degli acciai inossidabili ferritici, martensitici e a indurimento per precipitazione (PH) e delle ghise. Il substrato arricchito al cobalto offre una combinazione bilanciata di resistenza alla deformazione e di tenacità del tagliente, mentre lo spessore del rivestimento offre un'eccezionale resistenza alle abrasioni e all'usura a crateri durante le lavorazioni ad alta velocità. Il rivestimento liscio offre resistenza al tagliente di riporto e alle microscheggiature e produce eccellenti finiture superficiali. beyond™ DRIVE™	P									
		K									
KCP10  —	**Composizione:** Qualità in metallo duro arricchito al cobalto, progettata specificamente, con uno spesso rivestimento in MTCVD TiCN-Al_2O_3 per la massima resistenza all'usura. **Applicazione:** Ottima qualità per applicazioni dalla finitura alla lavorazione media di una vasta gamma di materiali, compresa la maggior parte degli acciai, degli acciai inossidabili ferritici, martensitici e a indurimento per precipitazione (PH) e delle ghise. Il substrato arricchito al cobalto offre una combinazione bilanciata di resistenza alla deformazione e di tenacità del tagliente, mentre lo spessore del rivestimento offre un'eccezionale resistenza alle abrasioni e all'usura a crateri durante le lavorazioni ad alta velocità. Il rivestimento liscio offre resistenza al tagliente di riporto e alle microscheggiature e produce eccellenti finiture superficiali. beyond™	P									
		K									

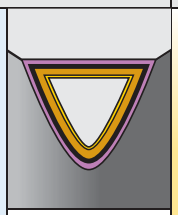
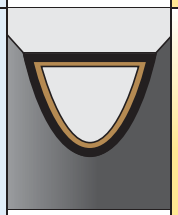
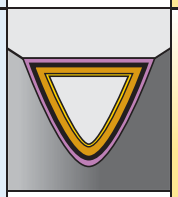
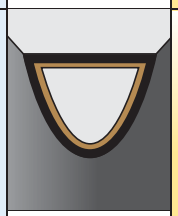


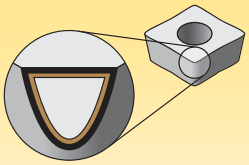
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ← → tenacità

Qualità in metallo duro con rivestimento CVD

Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KCP25B		**Composizione:** Una qualità solida in metallo duro e arricchita al cobalto con un rivestimento MTCVD TiCN-Al_2O_3-TiOCN multistrato con adesione superiore tra gli strati. **Applicazione:** Migliore qualità di tornitura per utilizzo generale per la lavorazione della maggior parte degli acciai e degli acciai inossidabili ferritici e martensitici. La struttura del substrato garantisce un'adeguata resistenza alla deformazione e un'eccellente resistenza del tagliente dell'inserto. Gli strati del rivestimento offrono una buona resistenza all'usura su una vasta gamma di condizioni di lavorazione, mentre il trattamento post-rivestimento riduce la microscheggiatura (migliorando al contempo l'adesione del substrato) per una maggiore durata dell'utensile e migliori risultati finali. beyond DRIVE	P									
	—		K									
KCP25		**Composizione:** Una qualità solida in metallo duro e arricchita al cobalto con un rivestimento MTCVD TiCN-Al_2O_3 multistrato con adesione superiore tra gli strati. **Applicazione:** Migliore qualità di tornitura per utilizzo generale per la lavorazione della maggior parte degli acciai e degli acciai inossidabili ferritici e martensitici. La struttura del substrato garantisce un'adeguata resistenza alla deformazione e un'eccellente resistenza del tagliente dell'inserto. Gli strati del rivestimento offrono una buona resistenza all'usura su una vasta gamma di condizioni di lavorazione, mentre il trattamento post-rivestimento riduce la microscheggiatura (migliorando al contempo l'adesione del substrato), per una maggiore durata dell'utensile e migliori risultati finali. beyond	P									
	—		K									
KCP30B		**Composizione:** Una qualità in metallo duro arricchita al cobalto, tenace, con un avanzato rivestimento in MTCVD TiCN-Al_2O_3-TiOCN multistrato. **Applicazione:** Per lavorazione media e sgrossatura di acciaio al carbonio, legato e inossidabile. La struttura del substrato offre una maggiore resistenza dell'inserto, necessaria per l'applicazione specifica, e il rivestimento multistrato migliora la resistenza all'usura, aumentando la durata dell'utensile. beyond DRIVE	P									
	—		M									
KCP30		**Composizione:** Una qualità in metallo duro arricchita al cobalto, tenace, con un avanzato rivestimento in MTCVD TiCN-Al_2O_3 multistrato. **Applicazione:** Per lavorazione media e sgrossatura di acciaio al carbonio, legato e inossidabile. La struttura del substrato offre una maggiore resistenza dell'inserto, necessaria per l'applicazione specifica, e il rivestimento multistrato migliora la resistenza all'usura, aumentando la durata dell'utensile. beyond	P									
	—		M									

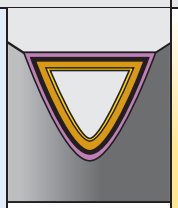
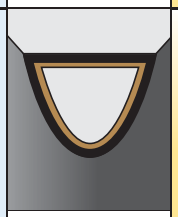
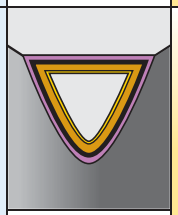
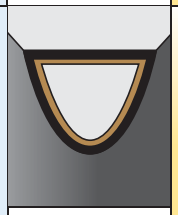
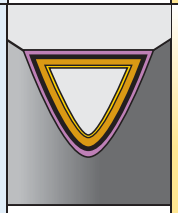


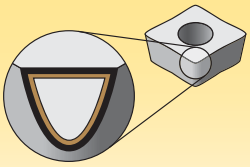
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ **tenacità**

Qualità in metallo duro con rivestimento CVD

Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KCP40B		**Composizione:** Una qualità in metallo duro tenace con un sottile rivestimento MTCVD TiCN-Al_2O_3-TiOCN. **Applicazione:** Per la sgrossatura pesante di acciaio al carbonio, legato e inossidabile. La combinazione substrato-rivestimento offre una tenacità e una sicurezza operativa incredibili con elevati volumi di truciolo asportato anche nelle operazioni di taglio interrotto più difficili. beyond DRIVE	P									
			M									
KCP40		**Composizione:** Una qualità in metallo duro tenace con un sottile rivestimento MTVCVD TiCN-Al_2O_3. **Applicazione:** Per la sgrossatura pesante di acciaio al carbonio, legato e inossidabile. La combinazione substrato-rivestimento offre una tenacità e una sicurezza operativa incredibili con elevati volumi di truciolo asportato anche nelle operazioni di taglio interrotto più difficili. beyond	P									
			M									
KCK05B		**Composizione:** Rivestimento multistrato con strati in MTCVD TiCN-Al_2O_3-TiOCN di medio spessore su un substrato in metallo duro altamente resistente alle deformazioni. **Applicazione:** Progettato per la lavorazione ad alta velocità di ghise grigie e duttili. La struttura del substrato e del rivestimento, associata al trattamento post-rivestimento, garantisce una durata incredibile dell'utensile, soprattutto nel taglio di ghise grigie e ghise duttili ad elevata resistenza alla trazione, dove l'omogeneità delle dimensioni del pezzo e l'affidabilità della durata dell'utensile sono fattori critici. Ottimi sia per tagli continui che per tagli con profondità variabile. beyond DRIVE	P									
			K									
KCK05		**Composizione:** Rivestimento multistrato con strati in MTCVD TiCN-Al_2O_3 di medio spessore su un substrato in metallo duro altamente resistente alle deformazioni. **Applicazione:** Progettato per la lavorazione ad alta velocità di ghise grigie e duttili. La struttura del substrato e del rivestimento, associata al trattamento post-rivestimento, garantisce una durata incredibile dell'utensile, soprattutto nel taglio di ghise grigie e ghise duttili ad elevata resistenza alla trazione, dove l'omogeneità delle dimensioni del pezzo e l'affidabilità della durata dell'utensile sono fattori critici. Ottimi sia per tagli continui che per tagli con profondità variabile. beyond	P									
			K									
KCK15B		**Composizione:** Rivestimento multistrato con spessi strati in MTCVD TiCN-Al_2O_3-TiOCN applicato su un substrato in metallo duro progettato specificamente per le ghise. **Applicazione:** Offre prestazioni costanti nella lavorazione ad alta velocità di ghise grigie e sferoidali. La struttura del substrato permette all'inserto lunghi tempi di contatto e ad alte velocità, minimizzando le deformazioni. Lo spesso rivestimento in CVD e il trattamento post-rivestimento aumentano la resistenza all'usura, garantendo una durata dell'utensile lunga e costante. Sia in tagli continui che lievemente interrotti. beyond DRIVE	P									
			K									

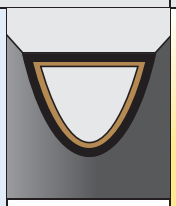
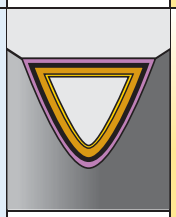
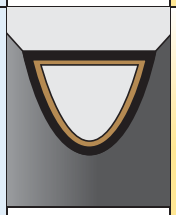
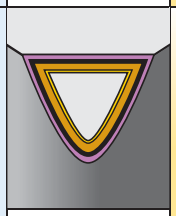


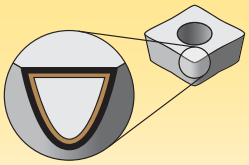
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ tenacità

Qualità in metallo duro con rivestimento CVD

Rivestimento	Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KCK15  —	**Composizione:** Rivestimento multistrato con spessi strati in MTCVD TiCN-Al_2O_3 applicato su un substrato in metallo duro progettato specificamente per le ghise. **Applicazione:** Offre prestazioni costanti nella lavorazione ad alta velocità di ghise grigie e sferoidali. La struttura del substrato permette all'inserto lunghi tempi di contatto e ad alte velocità, minimizzando le deformazioni. Lo spesso rivestimento in CVD e il trattamento post-rivestimento aumentano la resistenza all'usura, garantendo una durata dell'utensile lunga e costante. Sia in tagli continui che lievemente interrotti. beyond	P	■	■							
		K		■	■	■					
KCK20B  —	**Composizione:** Rivestimento in MTCVD TICN-Al_2O_3-TiOCN particolarmente tenace su un substrato resistente all'usura. **Applicazione:** Progettata specificamente per ottimizzare l'adesione del rivestimento e la resistenza del tagliente. Ideale nei tagli interrotti a umido di ghise grigie e duttili. Si può utilizzare in un'ampia gamma di applicazioni, dalla finitura alla sgrossatura, per ottimizzare la produttività quando occorrono resistenza e affidabilità. beyond™ DRIVE™	P		■	■						
		K			■	■	■	■			
KCK20  —	**Composizione:** Rivestimento in MTCVD TiCN-Al_2O_3 particolarmente tenace su un substrato resistente all'usura. **Applicazione:** Progettata specificamente per ottimizzare l'adesione del rivestimento e la resistenza del tagliente. Ideale nei tagli interrotti a umido di ghise grigie e duttili. Si può utilizzare in un'ampia gamma di applicazioni, dalla finitura alla sgrossatura, per ottimizzare la produttività quando occorrono resistenza e affidabilità. beyond™	P		■	■						
		K			■	■	■	■			
KCM15B  —	**Composizione:** Qualità in metallo duro rivestito in MTCVD TiCN-Al_2O_3 multistrato. **Applicazione:** Un'ottima qualità per applicazioni dalla finitura alla lavorazione media di acciai inossidabili austenitici a velocità elevate, con copertura di una vasta gamma di applicazioni in acciaio nella gamma P20_P25. La qualità KCM15B, associata a geometrie speciali, è stata progettata per resistere all'usura ad intaglio e per ridurre la formazione di bava. Il trattamento post-rivestimento riduce lo stress del rivestimento aumentandone l'adesione, riduce le micro scheggiature e i taglienti di riporto e migliora la finitura del pezzo. beyond™ DRIVE™	P				■	■				
		M		■	■	■					

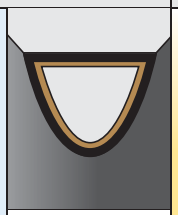
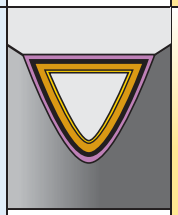
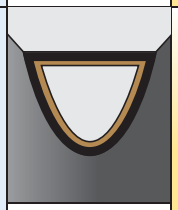
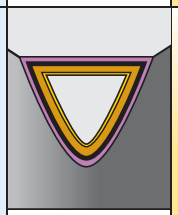
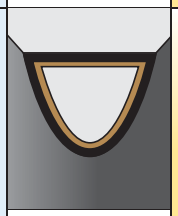


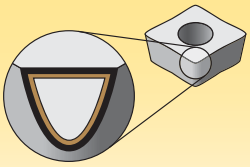
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ **tenacità**

Qualità in metallo duro con rivestimento CVD

Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KCM15		**Composizione:** Qualità in metallo duro rivestito in MTCVD TiCN-Al_2O_3 multistrato. **Applicazione:** Un'ottima qualità per applicazioni dalla finitura alla lavorazione media di acciai inossidabili austenitici a velocità elevate, con copertura di una vasta gamma di applicazioni in acciaio nella gamma P20_P25. La qualità KCM15, associata a geometrie speciali, è stata progettata per resistere all'usura ad intaglio e per ridurre la formazione di bava. Il trattamento post-rivestimento riduce lo stress del rivestimento aumentandone l'adesione, riduce le micro scheggiature e i taglienti di riporto e migliora la finitura del pezzo. beyond	P									
	—		M									
KCM25B		**Composizione:** Qualità in metallo duro rivestito in MTCVD TiCN-Al_2O_3-TiOCN multistrato. **Applicazione:** Questa qualità rivestita in CVD è ideale per la lavorazione generale di acciai inossidabili austenitici, a velocità e avanzamento moderati. Questa qualità offre una combinazione di tenacità, resistenza ai taglienti di riporto e all'usura nelle lavorazioni degli acciai inossidabili straordinaria. beyond DRIVE	P									
	—		M									
KCM25		**Composizione:** Rivestimento CVD multistrato con strati in MTCVD TiCN-Al_2O_3 su un substrato di metallo duro tenace, arricchito al cobalto. **Applicazione:** Questa qualità rivestita in CVD è ideale per la lavorazione generale di acciai inossidabili austenitici, a velocità e avanzamento moderati. Questa qualità offre una combinazione di tenacità, resistenza ai taglienti di riporto e all'usura nelle lavorazioni degli acciai inossidabili straordinaria. beyond	P									
	—		M									
KCM35B		**Composizione:** Rivestimento MTCVD TiCN-Al_2O_3-TiOCN multistrato su un substrato con elevate caratteristiche di durezza. **Applicazione:** Progettata per affrontare le lavorazioni più difficili di acciaio inossidabile fuso. Il substrato resiste al taglio interrotto pesante, mentre il rivestimento rende l'utensile resistente all'usura, migliorandone la durata. La superficie levigata resiste al tagliente di riporto, anche a basse velocità di taglio. Disponibile anche con dimensioni e geometrie d'inserto adatte a velocità di avanzamento elevate e grandi profondità di taglio. beyond DRIVE	P									
	—		M									
KCM35		**Composizione:** Rivestimento MTCVD TiCN-Al_2O_3 multistrato su un substrato con elevate caratteristiche di durezza. **Applicazione:** Progettata per affrontare le lavorazioni più difficili di acciaio inossidabile fuso. Il substrato resiste al taglio interrotto pesante, mentre il rivestimento rende l'utensile resistente all'usura, migliorandone la durata. La superficie levigata resiste al tagliente di riporto, anche a basse velocità di taglio. Disponibile anche con dimensioni e geometrie d'inserto adatte a velocità di avanzamento elevate e grandi profondità di taglio. beyond	P									
	—		M									

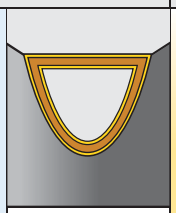
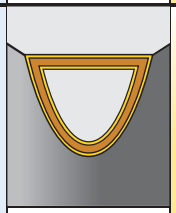


I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

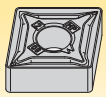
resistenza all'usura ⟷ **tenacità**

Qualità in cermet con rivestimento in PVD

Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KT315		**Composizione:** Qualità di tornitura in cermet rivestito multistrato, in PVD TiN/TiCN/TiN. **Applicazione:** Ideale per finitura e lavorazioni medie della maggior parte degli acciai al carbonio, legati e inossidabili. Si comporta molto bene anche nelle lavorazioni di ghisa e ghisa duttile. Fornisce una durata dell'utensile lunga e costante e produce eccellenti finiture dei pezzi.	P									
	—		M									
			K									
KTP10		**Composizione:** Qualità di tornitura in cermet rivestito multistrato, in PVD TiN/TiCN/TiN. **Applicazione:** Ideale per finitura e lavorazioni medie della maggior parte degli acciai al carbonio, legati e inossidabili. Si comporta molto bene anche nelle lavorazioni di ghisa e ghisa duttile. Fornisce una durata dell'utensile lunga e coerente e produce eccellenti finiture dei pezzi.	P									
	—		M									
			K									

Selezionare la geometria —in base alla velocità di avanzamento e alla profondità di taglio

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Non ferroso
S	Leghe resistenti al calore
H	Materiali temprati

operazione	applicazione tipo di inserto	geometria dell'inserto	profilo	velocità di avanzamento — mm										
				0,04	0,063	0,01	0,16	0,25	0,4	0,63	1,0	1,6	2,5	5,0
				0,1	0,16	0,25	0,4	0,63	1,0	1,6	2,5	4,0	6,3	10,0
				profondità di taglio — mm										
lavorazione media	MG-FP							0,2–0,5						
										0,8–5,1				

Campo velocità di avanzamento —
per i risultati migliori, utilizzare il 60% centrale del campo

Disegno dell'inserto

Campo profondità di taglio —
per tutti gli inserti nel programma, selezionare gli inserti con il campo più stretto per i tagli leggeri e gli inserti con il campo più largo per i tagli pesanti

Geometria formatrucioli —
la sezione passa attraverso il raggio di punta dell'inserto

Gruppo materiali principali del pezzo

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Non ferroso
S	Leghe resistenti al calore
H	Materiali temprati

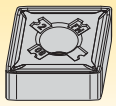
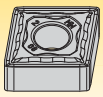
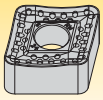
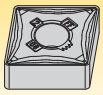
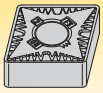
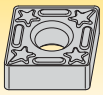
Definizione geometria rompitruciolo —
esempio: MG-MP = CNMG-432MP

Lavorazione —
uso al quale è destinata la geometria dell'inserto

NOTA: Per dettagli sulle qualità e le geometrie raccomandate , fare riferimento al sistema di selezione Kennametal Beyond™ nelle pagine B8–B21.

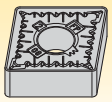
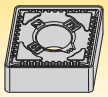
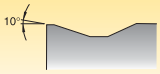
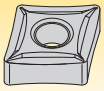
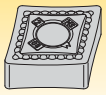
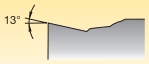
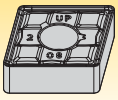
Selezionare la geometria — in base alla velocità di avanzamento e alla profondità di taglio

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Non ferroso
S	Leghe resistenti al calore
H	Materiali temprati

operazione	applicazione tipo di inserto	geometria dell'inserto	profilo	velocità di avanzamento — mm: 0,04 0,063 0,01 0,16 0,25 0,4 0,63 1,0 1,6 2,5 5,0 / profondità di taglio — mm: 0,1 0,16 0,25 0,4 0,63 1,0 1,6 2,5 4,0 6,3 10,0
finitura Wiper	**MG-FW**			0,2–0,4; 0,25–2,0
lavorazione media Wiper	**MG-MW**			0,3–0,6; 0,8–5,1
sgrossatura Wiper	**MM-RW**			0,3–1,3; 1,3–12,7
finitura di precisione	**MG-FF**			0,05–0,25; 0,08–2,0
finitura affilato	**GG-FS rettificati di precisione**			0,07–0,25; 0,20–2,0
finitura	**GG-LF rettificati di precisione**			0,1–0,5; 0,5–3,0

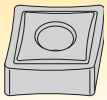
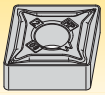
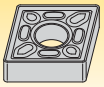
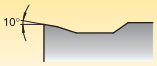
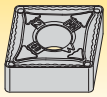
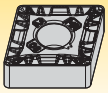
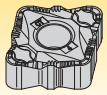
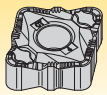
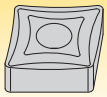
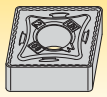
Selezionare la geometria in base alla velocità di avanzamento e alla profondità di taglio

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Non ferroso
S	Leghe resistenti al calore
H	Materiali temprati

operazione	applicazione tipo di inserto	geometria dell'inserto	profilo	velocità di avanzamento — mm: 0,04 0,063 0,01 0,16 0,25 0,4 0,63 1,0 1,6 2,5 5,0 / profondità di taglio — mm: 0,1 0,16 0,25 0,4 0,63 1,0 1,6 2,5 4,0 6,3 10,0
finitura	MG-FP			0,1–0,3 0,25–2,5
finitura	MG-FN			0,1–0,3 0,3–2,5
finitura	MP-K			0,1–0,3 0,2–2,5
medio affilato	MG-MS			0,12–0,35 0,76–5,0
lavorazione media	MG-UP			0,2–0,6 1–6,4

Selezionare la geometria in base alla velocità di avanzamento e alla profondità di taglio

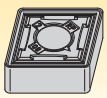
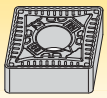
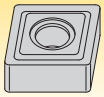
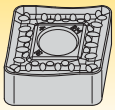
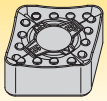
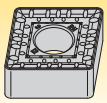
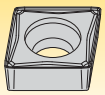
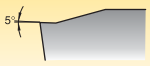
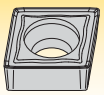
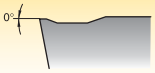
P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Non ferroso
S	Leghe resistenti al calore
H	Materiali temprati

operazione	applicazione tipo di inserto	geometria dell'inserto	profilo	velocità di avanzamento — mm: 0,04 0,063 0,01 0,16 0,25 0,4 0,63 1,0 1,6 2,5 5,0 / profondità di taglio — mm: 0,1 0,16 0,25 0,4 0,63 1,0 1,6 2,5 4,0 6,3 10,0
lavorazione media	_GP*			0,3–0,5 0,5–3,2
	MG-MP			0,15–0,5 0,8–5,1
	MG-P			0,15–0,5 0,75–5,0
	MG-MN			0,15–0,5 0,5–5,1
	MG-MR			0,15–0,55 1,5–6,3
	MG-CT tornitura esterna			0,13–0,5 1,0–3,0
	MG-CT spianatura esterna			0,25–0,5 0,25–1,0
	-MS Monolaterale			0,15–0,4 0,6–2,3
	MG-UN			0,2–0,5 0,8–3,8

* Le geometrie 35° e 55° sono unilaterali.

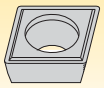
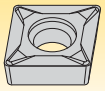
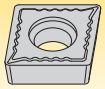
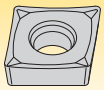
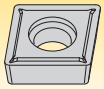
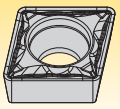
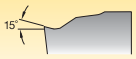
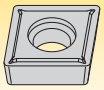
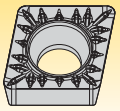
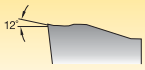
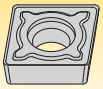
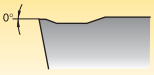
Selezionare la geometria — in base alla velocità di avanzamento e alla profondità di taglio

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Non ferroso
S	Leghe resistenti al calore
H	Materiali temprati

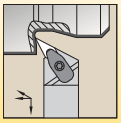
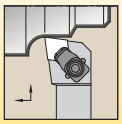
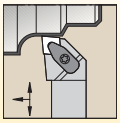
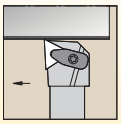
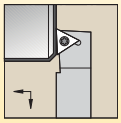
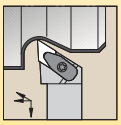
operazione	applicazione tipo di inserto	geometria dell'inserto	profilo	velocità di avanzamento — mm: 0,04 0,063 0,01 0,16 0,25 0,4 0,63 1,0 1,6 2,5 5,0 / profondità di taglio — mm: 0,1 0,16 0,25 0,4 0,63 1,0 1,6 2,5 4,0 6,3 10,0
sgrossatura	**MG-RP**			0,2–0,6; 1,1–6,4
sgrossatura pesante	**MG-RN**			0,3–0,63; 1,1–5,7
	MG			0,3–0,8; 1,1–5,7
	MM-RM unilaterale			0,3–1,0; 1,3–12,7
	MM-RP unilaterale			0,2–1,0; 1,3–10,0
	MM-RH unilaterale			0,4–1,3; 1,3–12,7
finitura Wiper	**MT-FW**			0,08–0,35; 0,2–1,5
finitura media Wiper	**MT-MW**			0,12–0,5; 0,4–3,3

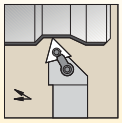
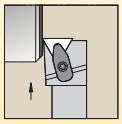
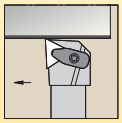
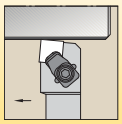
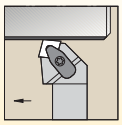
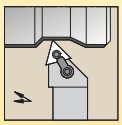
Selezionare la geometria — in base alla velocità di avanzamento e alla profondità di taglio

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Non ferroso
S	Leghe resistenti al calore
H	Materiali temprati

operazione	applicazione tipo di inserto	geometria dell'inserto	profilo	velocità di avanzamento — mm: 0,04 0,063 0,01 0,16 0,25 0,4 0,63 1,0 1,6 2,5 5,0 / profondità di taglio — mm: 0,1 0,16 0,25 0,4 0,63 1,0 1,6 2,5 4,0 6,3 10,0
finitura di precisione	_GM rettificati di precisione			0,05–0,2 0,2–1,0
finitura di precisione	MT-11			0,08–0,25 0,2–1,3
finitura di precisione	.MT-UF			0,05–0,25 0,1–1,3
finitura	GT-HP rettificati di precisione			0,2–0,4 0,6–2,3
finitura	GT-LF rettificati di precisione			0,2–0,4 0,8–2,3
finitura	MT-FP			0,063–0,25 0,16–1,6
finitura	MT-LF			0,2–0,4 0,8–2,3
lavorazione media	MT-MP			0,15–0,4 0,4–2,3
lavorazione media	MT-MF			0,2–0,4 1,1–2,3

KENNAMETAL

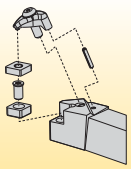
percorso dell'utensile	forma dell'inserto	tipo di bloccaggio	Turning	Profilatura	Spianatura	Fresatura a tuffo	Smussatura	pagina/e
Angolo di registrazione 117,5°								
	V 35°	Kenloc™	●	●	●			B151
		Kenclamp™	●		●			B150
Angolo di registrazione 107,5°								
	D 55°	Screw-On	●	●				B213
		TNT	●	●		●		B151
	V 35°	Screw-On	●	●				B265
Angolo di registrazione 97,5°								
	E 75°	MTS	●		●			–
Angolo di registrazione 95°								
	C 80°	Kenloc	●	●	●			B62
		Kenclamp	●	●	●			B59
		Kenlever™	●	●	●			B65
		Screw-On	●	●	●			B180, B193
		MTS	●	●	●			B358
	W 80°	Kenloc	●	●	●			B162
		Kenclamp	●	●	●			B161
		Kenlever	●	●	●			B163
		Screw-On	●	●	●			B271
		MTS	●	●	●			B369
		Wedgelock™	●	●	●			B162
Angolo di registrazione 93°								
	D 55°	Kenloc	●	●				B86
		Kenclamp	●	●				B85
		Kenlever	●	●				B87
		Screw-On	●	●				B210
		MTS	●	●				B360
	V 35°	Kenloc	●	●				B151
		Kenclamp	●	●				B149
		Screw-On	●	●				B267
	T 60°	Wedgelock	●	●				B133

percorso dell'utensile	forma dell'inserto	tipo di bloccaggio	Turning	Profilatura	Spianatura	Fresatura a tuffo	Smussatura	pagina/e
Angolo di registrazione 90°								
	C 80°	Screw-on	●	●	●			B179
	D 55°	Screw-on	●	●	●			B209
	V 35°	Screw-on	●	●	●			B266
	T 60°	Kenloc	●	●	●	●		B133
		Kenclamp	●	●	●			B132
		Kenlever	●	●	●			B135
		Screw-on	●	●	●			B247
		TNT	●	●	●			–
		Wedgelock	●	●	●			B133
Angolo di registrazione 85°								
	S 90°	MTS	●		●			B366
Angolo di registrazione 75°								
	C 80°	Kenloc	●	●	●			B61
		Kenclamp	●	●	●			B58
		Kenlever	●		●			B64
		TNT	●	●				–
		Screw-On	●		●			B180
		MTS	●					B356
	S 90°	Kenloc	●		●			B108
		Kenclamp	●		●			B105
		Kenlever	●	●	●			B111
		Screw-On	●	●	●			B233
		MTS	●	●	●			B364
Angolo di registrazione 72,5°								
	V 35°	Kenloc	●	●				B152
		Kenclamp		●				B150
		Screw-On	●	●				B268

percorso dell'utensile	forma dell'inserto	tipo di bloccaggio	Turning	Profilatura	Spianatura	Fresatura a tuffo	Smussatura	pagina/e
Angolo di registrazione 70°								
	E 75°	Kenloc™	●	●				–
Angolo di registrazione 63°								
	D 55°	Kenloc	●	●				B85
Angolo di registrazione 62,5°								
	D 55°	Kenloc	●	●	●			B86
		Kenlever	●	●	●			B88
		Screw-On	●	●				B211
Angolo di registrazione 60°								
	T 60°	Kenloc	●	●	●			B133

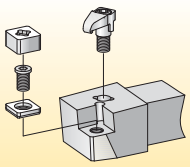
percorso dell'utensile	forma dell'inserto	tipo di bloccaggio	Turning	Profilatura	Spianatura	Fresatura a tuffo	Smussatura	pagina/e
Angolo di registrazione 50°								
	V 80°	Kenloc	●	●	●			B63
Angolo di registrazione 45°								
	C 80°	Kenloc	●	●	●			B60
		Kendex™	●	●	●			B66
		Screw-On	●	●	●			B192
	S 90°	Kenloc	●	●	●			B109
		Kenclamp	●	●	●			B105
		Kenlever™	●	●	●			B111
		Kendex	●	●	●			–
		Screw-On	●	●	●			B233
		MTS	●	●	●			B213
	T 60°	Kenlever	●	●	●			B86
	R	Kenloc	●	●	●			B95
		Kenclamp	●	●	●			–
		Fix-Perfect™	●	●	●			–
		Screw-On	●	●	●			B227
		MTS	●	●	●			B365

Tipi di bloccaggio



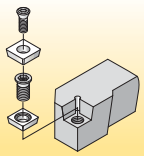
Tipo Kenclamp

- Usa inserti negativi Kenloc.
- L'esclusivo sistema di bloccaggio consente un serraggio rigido.
- Garantisce ripetibilità e posizionamento in sede.
- Sfarfallamento ridotto e maggiore durata dell'utensile.



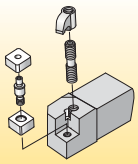
Sistema di utensili modulare tipo MTS

- Sistema dimostrato di qualità superiore per il fissaggio rigido degli inserti in ceramica nelle operazioni di tornitura e profilatura.
- Utilizza dimensioni standard degli inserti – 80°, 75°, 55°, quadrato e trigonale.
- Questo sistema garantisce la massima versatilità nell'uso di corpi facoltativi per il fissaggio di inserti Kendex™ e Kenloc standard.



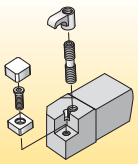
Tipo screw-on

- Serraggio superiore mediante vite per gli inserti Screw-on.



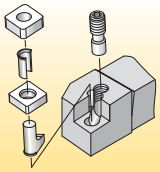
Tipo Kenloc™

- Usa inserti negativi Kenloc™.
- La spina di bloccaggio e il bloccaggio superiore garantiscono un serraggio rigido.
- È possibile utilizzare un'ampia varietà di tipi di inserto.
- Gli utensili possono essere utilizzati con o senza bloccaggio.



Tipo Kendex

- Usa inserti Kendex.
- Rompitruciolo opzionale disponibile per gli inserti in ceramica.
- È possibile utilizzare un'ampia varietà di tipi di inserto.

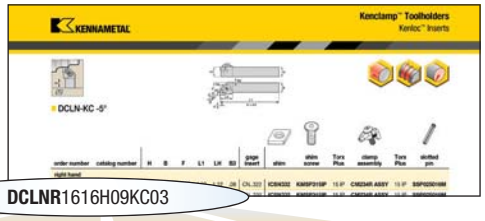


Tipo Kenlever™

- Sistema dimostrato di qualità superiore per il fissaggio rigido degli inserti in ceramica nelle operazioni di tornitura e profilatura.
- Può essere utilizzato per inserti Kendex o Kenloc con componenti opzionali.

Come utilizzare i codici del catalogo

Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



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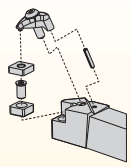
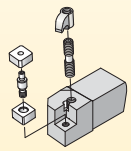
D — Sistema di fissaggio

D



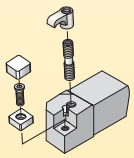
Kenclamp™

M



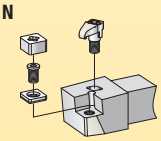
Kenloc™

C



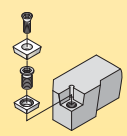
Kendex™

N



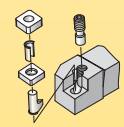
Profilatura Top Notch™

S



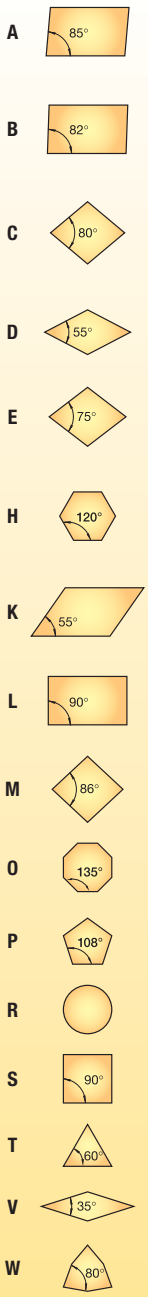
Screw-On

P

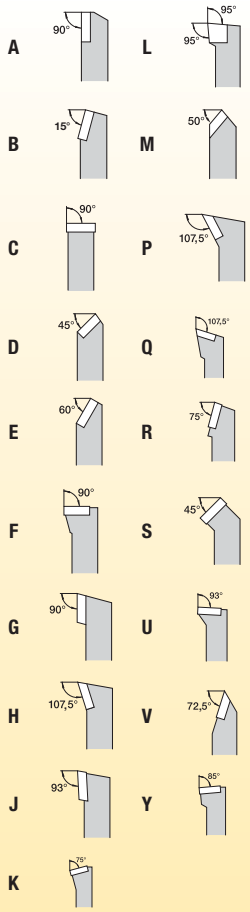


Kenlever™

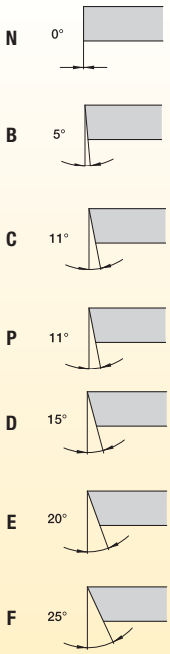
C — Forma inserto



L — Stile utensile o angolo di registrazione



N — Angolo di spoglia dell'inserto



R — Lato dell'utensile

R =

Destro

L =

Sinistro

N =

Neutro

Informazioni aggiuntive

C =

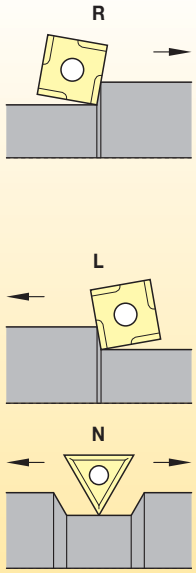
Tasca profonda per inserto in ceramica

S =

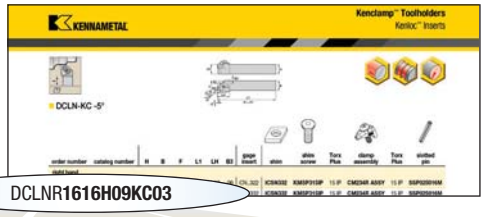
Parete di posizione con tasca singola

F =

Codolo cilindrico, senza offset

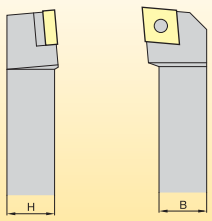


Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.



DCLNR**1616H09KC03**

16 16 — Dimensioni codolo



In settima e ottava posizione, un significativo numero a due cifre indicherà la sezione trasversale del supporto.

- Se la dimensione della larghezza "B" o dell'altezza "H" sono rappresentate da un numero di una cifra, è sufficiente aggiungere uno 0 (zero) davanti al numero.

Esempio: 8,0 mm = 08

H — Lunghezza dell'utensile

L1	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	S
Design speciale	X

09 — Dimensione dell'inserto

Lunghezza tagliente L10

H	Esagonale 120°	
O	Ottagonale 135°	
P	Pentagonale 108°	
S	Quadrata 90°	
T	Triangolare 60°	
R	Tondo —	
C	Romboidale 80°	
D	55°	
E	75°	
M	86°	
V	35°	
W	Trigonale 80° con gli angoli degli spigoli ampliati	
L	Rettangolare 90°	
A	Parallelogramma 85°	
B	82°	
K	55°	

KC — Informazioni aggiuntive

KC = Kenclamp™

H4 = Sistema di bloccaggio Wedgelock™

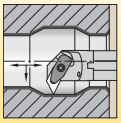
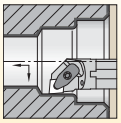
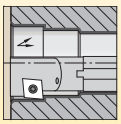
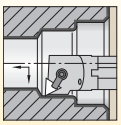
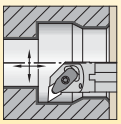
M = Sistema di bloccaggio MTS per inserti in ceramica e PcBN

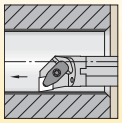
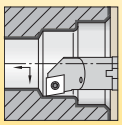
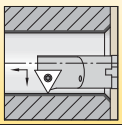
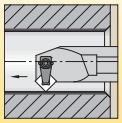
03 — Spessore inserto (opzionale)

04 = 4,76mm

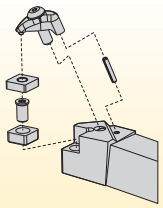
06 = 6,35mm

KENNAMETAL

percorso dell'utensile	forma dell'inserto	tipo di bloccaggio	Boring	Back Boring	Profilatura	pagina/e
Angolo di registrazione 117,5º						
	D 55°	**KenClamp™**	●		●	B89
Angolo di registrazione 107,5º						
	D 55°	**Kenclamp**	●	●	●	B89
		Screw-On	●	●		B212, B217
	V 35°	**Screw-On**	●	●	●	B268
Angolo di registrazione 95º						
	C 80°	**Kenloc™**	●		●	B67
		Kenclamp™	●		●	B66
		Screw-on	●		●	B182, B196
		**Kenlever™**	●		●	B68
		MTS	●		●	B372
	E 75°	**MTS**	●		●	–
	T 60°	**Screw-On**	●		●	B250
	W 80°	**Kenloc**	●			B164
		Kenclamp	●		●	B163
		Kenlever	●		●	B165
		Screw-on	●		●	B271
		MTS	●		●	B374
Angolo di registrazione 93º						
	C 55°	**Kenloc**	●	●	●	B90
		Kenclamp	●	●	●	B90
		**Screw-on**	●		●	B212, B217
		MTS	●		●	–
	V 35°	**Kenloc**	●		●	B153
		Kenclamp	●	●		B152
		Screw-on	●	●	●	B269
	T 60°	**Kendex™**	●		●	B371
	W 80°	**Screw-On**	●		●	B272

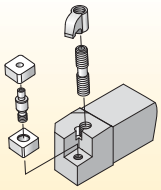
percorso dell'utensile	forma dell'inserto	tipo di bloccaggio	Boring	Back Boring	Profilatura	pagina/e
Angolo di registrazione 90º						
	C 80°	**Screw-On**	●		●	B182, B194
	T 60°	**Kenloc**	●			B137
		Kenclamp	●		●	B137
		Kenlever	●		●	B138
		Kendex	●		●	–
		Screw-On	●			B248, B257
Angolo di registrazione 75º						
	C 80°	**Screw-On**	●			B195
	S 90°	**Kenloc**	●			B114
		Kenclamp	●			B113
		Kenlever	●			B114
		Kendex	●			–
		Screw-On	●			B233
	T 60°	**MTS**	●			–
		Kendex	●			–
Angolo di registrazione 60º						
	T 60°	**Screw-On**	●		●	–
Angolo di registrazione 45º						
	S 90°	**MTS**	●			B373

Tipi di bloccaggio



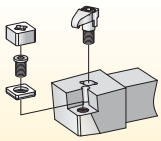
Tipo Kenclamp™

- Usa inserti negativi Kenloc™.
- L'esclusivo sistema di bloccaggio consente un serraggio rigido.
- Garantisce ripetibilità e posizionamento in sede.
- Sfarfallamento ridotto e maggiore durata dell'utensile.



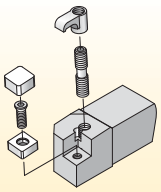
Tipo Kenloc™

- Usa inserti negativi Kenloc™.
- La spina di bloccaggio e il bloccaggio superiore garantiscono un serraggio rigido.
- È possibile utilizzare un'ampia varietà di tipi di inserto.
- Gli utensili possono essere utilizzati con o senza bloccaggio.



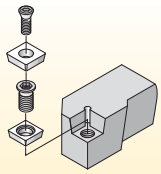
Tipo MTS

- Sistema dimostrato di qualità superiore per il fissaggio rigido degli inserti in ceramica nelle operazioni di tornitura e profilatura.
- Utilizza dimensioni standard degli inserti — 80°, 75°, 55°, quadrato e trigonale.
- Questo sistema garantisce la massima versatilità nell'uso di corpi facoltativi per il fissaggio di inserti Kendex™ e Kenloc™ standard.



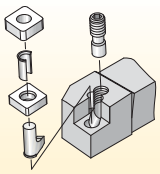
Tipo Kendex™

- Usa inserti Kendex.
- Rompitruciolo opzionale disponibile per gli inserti in ceramica.
- È possibile utilizzare un'ampia varietà di tipi di inserto.



Tipo screw-on

- Serraggio superiore mediante vite per gli inserti Screw-on.

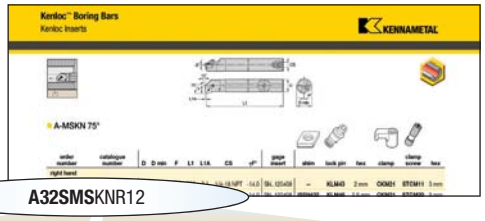


Tipo Kenlever™

- Sistema dimostrato di qualità superiore per il fissaggio rigido degli inserti in ceramica nelle operazioni di tornitura e profilatura.
- Può essere utilizzato per inserti Kendex o Kenloc con componenti opzionali.

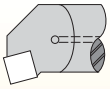
Come utilizzare i codici del catalogo

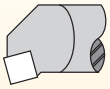
Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.

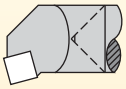


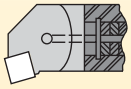
A32SMSKNR12

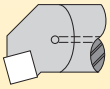
A
Tipo di barra

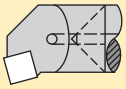
A

Barra in acciaio con refrigerante

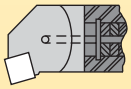
S

Barra in acciaio senza refrigerante

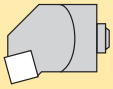
C

Barra in metallo duro

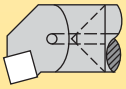
D

Barra antivibrante con refrigerante

D

Bareno regolabile con refrigerante

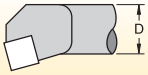
E

Barra in metallo duro con refrigerante

B

Antivibrante

H

Testa intercambiabile

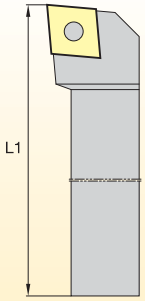
L

Barra in metallo pesante con refrigerante

32
Diametro barra



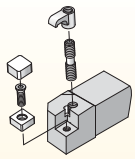
Sistema metrico: un numero a due cifre che indica il diametro della barra in mm. Se il diametro è rappresentato da un numero di una cifra, è sufficiente aggiungere uno 0 (zero) davanti al numero.
Esempio: 8 mm = 08

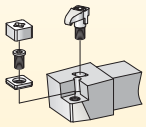
S
Lunghezza barra**

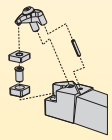


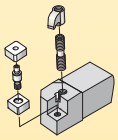
L1		ISO
32	=	A
40	=	B
50	=	C
60	=	D
70	=	E
80	=	F
90	=	G
100	=	H
110	=	J
125	=	K
140	=	L
150	=	M
160	=	N
170	=	P
180	=	Q
200	=	R
250	=	S
300	=	T
350	=	U
400	=	V
450	=	W
500	=	Y
Speciale Lunghezza	=	X

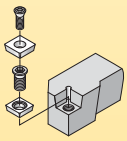
M
Sistema di fissaggio

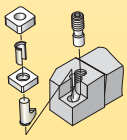
C

Kendex™

N

Profilatura Top Notch™

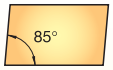
D

Kenclamp™

M

Kenloc™

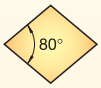
S

Screw-On

P

Kenlever™

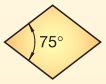
S
Forma inserto

A


B

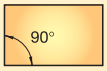
C


D

E


H

K

L


M

O

P

R

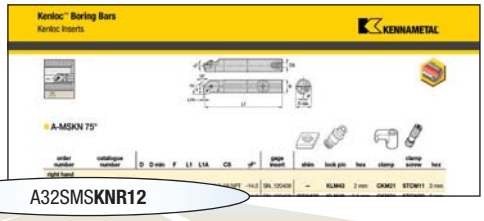
S

T

V

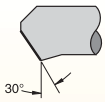
W

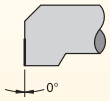
Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.

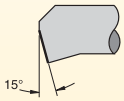


A32SMS**KNR12**

K
Stile barra o angolo di registrazione

E


F


K


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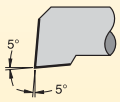
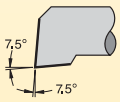
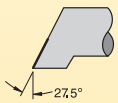
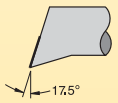
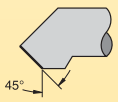


(inserti tipo E)

L


P


Q


S


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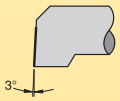
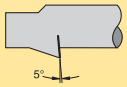
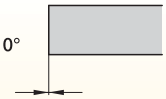
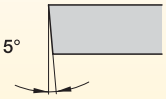
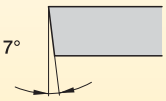


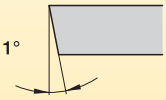
X


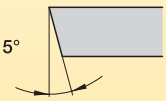
N
Angolo di spoglia dell'inserto

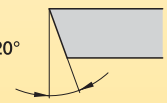
N 0°


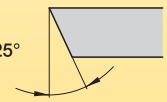
B 5°


C 7°


P 11°


D 15°


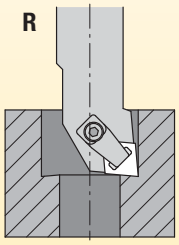
E 20°


F 25°


R
Lato dell'utensile

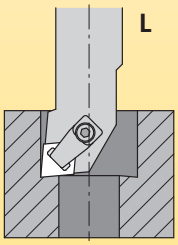
R=

Bareno destro

R


L =

Bareno sinistro

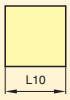
L


12
Dimensione della lunghezza del tagliente dell'inserto L10

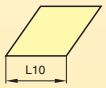
H

O

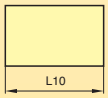
P

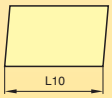
S


T

CDE M V


W

L


A B K


R

Informazioni aggiuntive

M... =
Sistemi di bloccaggio TNT/MTS per inserti in ceramica e PcBN

D =
Doppia tasca

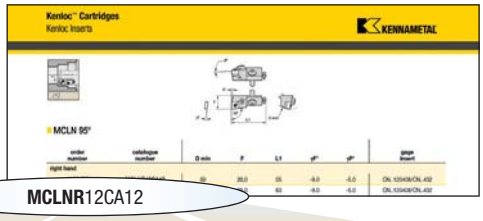
AP5 =
Positivo assiale

KC =
Kenclamp™

+ =
Spessore inserto

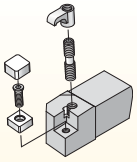
Come utilizzare i codici del catalogo

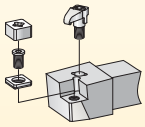
Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.

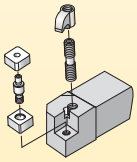


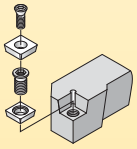
MCLNR12CA12

M
Sistema bloccaggio inserti

C

Kendex™

N

Profilatura Top Notch™

M

Kenloc™

S

Screw-On

C
Forma inserto

C

D

R

S

T

W

L
Stile utensile o angolo di registrazione

A

B

C

D

E

F

G

H

J

K

L

M

P

Q

R

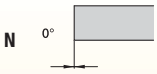
S

U

V

Y

N
Angolo di spoglia dell'inserto

N


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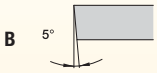
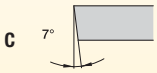
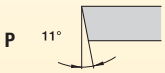
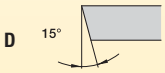
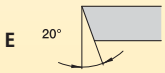


C


P


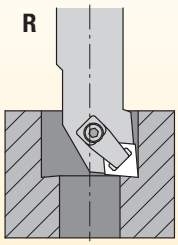
D


E


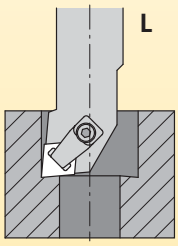
F

R
Lato dell'utensile

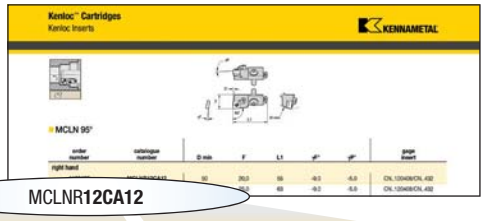
R=
Bareno destro



L =
Bareno sinistro



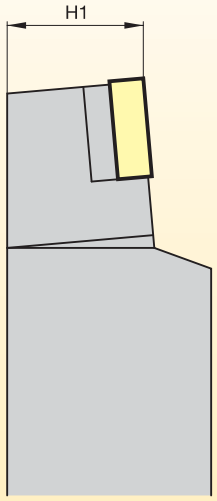
Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.



MCLNR**12CA12**

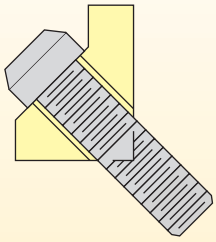
12	C	A	12
Dimensioni cartuccia	Codice di identificazione della cartuccia	Tipo di montaggio della cartuccia	Dimensione inserto

H1 = Altezza del tagliente della cartuccia, in millimetri



C = Cartuccia

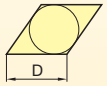
A = Angolare sec. ISO 5611



Lunghezza del tagliente D

C

D



R

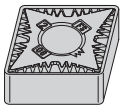
S

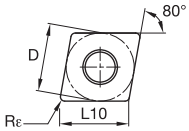
T

W

● prima scelta
○ scelta alternativa

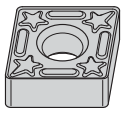
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

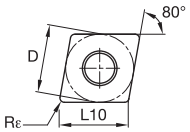




CNGG-FS

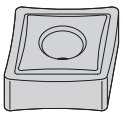
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGG120401FS	12,70	12,90	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120402FS	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
CNGG120404FS	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNGG120408FS	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–

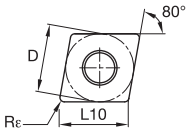




CNGG-LF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGG120401LF	12,70	12,90	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120402LF	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120404LF	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120408LF	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120412LF	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–





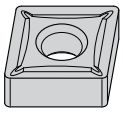
CNGP

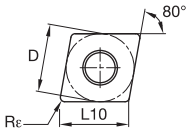
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGP120401	12,70	12,90	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CNGP120402	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CNGP120404	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	●	–
CNGP120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	●	–
CNGP120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
CNGP120416	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

NOTA: Inserti a fissaggio meccanico per serraggio P.

● prima scelta
○ scelta alternativa

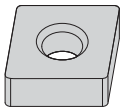
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

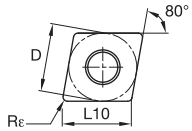




CNGP-K

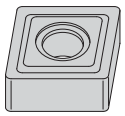
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGP120408K	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNGP160612K	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

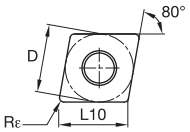




CNMA

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMA120404	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMA120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA120416	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160608	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160612	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160616	15,88	16,12	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA190612	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA190616	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



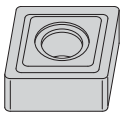


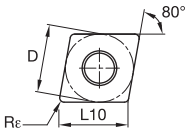
CNMG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404B	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMG120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–
CNMG120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMG190612	19,05	19,34	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CNMG190616	19,05	19,34	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG250924	25,40	25,79	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

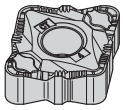
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

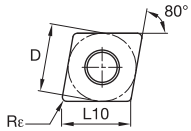




CNMG-33

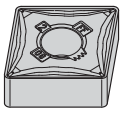
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG12040833	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

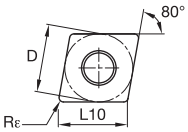




CNMG-CT

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408CT	12,70	12,90	0,8	–	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNMG120412CT	12,70	12,90	1,2	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416CT	12,70	12,90	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



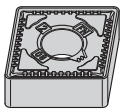


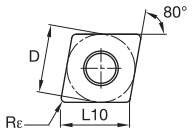
CNMG-FF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304FF	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG090308FF	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG120404FF	12,70	12,90	0,4	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FF	12,70	12,90	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●

● prima scelta
○ scelta alternativa

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

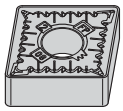


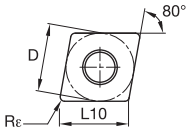


CNMG-FN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304FN	9,53	9,67	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG090308FN	9,53	9,67	0,8	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120402FN	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120404FN	12,70	12,90	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120408FN	12,70	12,90	0,8	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120412FN	12,70	12,90	1,2	–	–	●	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120416FN	12,70	12,90	1,6	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

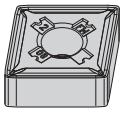
NOTA: Inserti a fissaggio meccanico per serraggio a P.

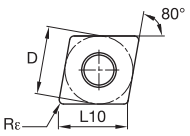




CNMG-FP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404FP	12,70	12,90	0,4	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FP	12,70	12,90	0,8	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120412FP	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–





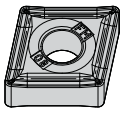
CNMG-FW

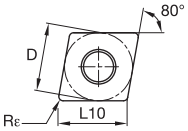
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404FW	12,70	12,90	0,4	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FW	12,70	12,90	0,8	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120412FW	12,70	12,90	1,2	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

Tornitura ISO

● prima scelta
○ scelta alternativa

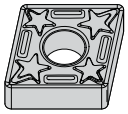
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

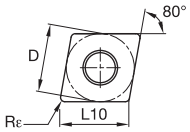




CNMG-FM

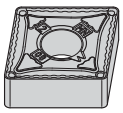
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120412FM	12,70	12,90	1,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

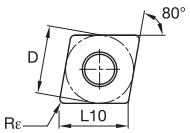




CNMG-LF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120402LF	12,70	12,90	0,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120404LF	12,70	12,90	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408LF	12,70	12,90	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



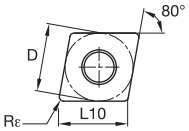


CNMG-MN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304MN	9,53	9,67	0,4	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG090308MN	9,53	9,67	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG090312MN	9,53	9,67	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120404MN	12,70	12,90	0,4	–	–	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408MN	12,70	12,90	0,8	●	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG120412MN	12,70	12,90	1,2	–	●	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416MN	12,70	12,90	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608MN	15,88	16,12	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MN	15,88	16,12	1,2	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MN	15,88	16,12	1,6	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190608MN	19,05	19,34	0,8	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MN	19,05	19,34	1,2	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616MN	19,05	19,34	1,6	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190624MN	19,05	19,34	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

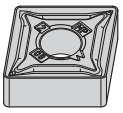
● prima scelta
○ scelta alternativa

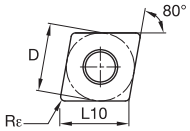
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															



CNMU-MN

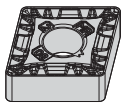
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMU120612MN	12,70	12,90	1,2	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMU120616MN	12,70	12,90	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

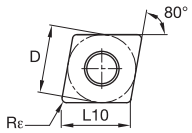




CNMG-MP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090308MP	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	●	–	●	–	–	–
CNMG120404MP	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
CNMG120408MP	12,70	12,90	0,8	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	●	●	●	–	–
CNMG120412MP	12,70	12,90	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	●	●	–	–	–
CNMG120416MP	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG160608MP	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	●	–	●	–	–	–
CNMG160612MP	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	●	●	–	–	–
CNMG160616MP	15,88	16,12	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–
CNMG190608MP	19,05	19,34	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
CNMG190612MP	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	●	●	–	–	–
CNMG190616MP	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–



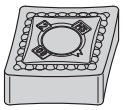


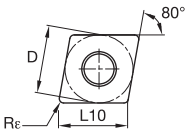
CNMG-MR

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404MR	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408MR	12,70	12,90	0,8	–	–	●	–	●	–	●	–	–	●	–	–	●	–	–	–	●	●	●	●	–	●	●	–	–	●	–	–	–	–	–
CNMG120412MR	12,70	12,90	1,2	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	●	●	●	–	●	●	–	–	●	–	–	–	–	–
CNMG120416MR	12,70	12,90	1,6	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608MR	15,88	16,12	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MR	15,88	16,12	1,2	–	–	●	–	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MR	15,88	16,12	1,6	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MR	19,05	19,34	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
CNMG190616MR	19,05	19,34	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

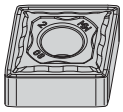
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

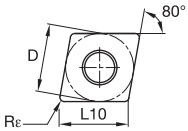




CNMG-MS

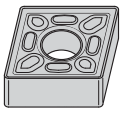
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120401MS	12,70	12,90	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG120402MS	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG120404MS	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
CNMG120408MS	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
CNMG120412MS	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
CNMG120416MS	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG160608MS	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG160612MS	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
CNMG190608MS	19,05	19,34	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG190612MS	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNMG190616MS	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–

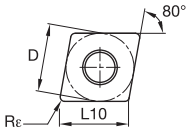




CNMG-MW

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408MW	12,70	12,90	0,8	–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120412MW	12,70	12,90	1,2	–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



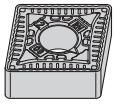


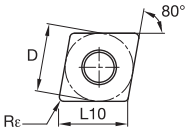
CNMG-P

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404P	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNMG120408P	12,70	12,90	0,8	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	●	–	●	–	–	–
CNMG120412P	12,70	12,90	1,2	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG190612P	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

● prima scelta
○ scelta alternativa

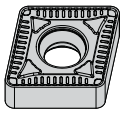
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

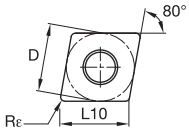




CNMG-RN

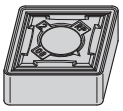
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408RN	12,70	12,90	0,8	–	●	●	●	●	●	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120412RN	12,70	12,90	1,2	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG120416RN	12,70	12,90	1,6	–	–	●	●	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608RN	15,88	16,12	0,8	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612RN	15,88	16,12	1,2	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG160616RN	15,88	16,12	1,6	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG190608RN	19,05	19,34	0,8	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612RN	19,05	19,34	1,2	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616RN	19,05	19,34	1,6	–	–	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG190624RN	19,05	19,34	2,4	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

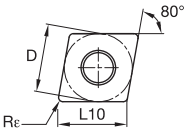




CNMU-RN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMU120412RN	12,70	12,90	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



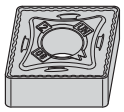


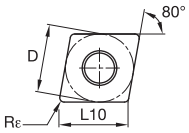
CNMG-RP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404RP	12,70	12,90	0,4	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
CNMG120408RP	12,70	12,90	0,8	●	●	●	●	●	●	●	●	–	●	–	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG120412RP	12,70	12,90	1,2	–	●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	–	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG120416RP	12,70	12,90	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	●	–	–	–	●	●	●	–	–	–
CNMG160608RP	15,88	16,12	0,8	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CNMG160612RP	15,88	16,12	1,2	–	–	●	●	●	●	–	●	●	●	–	●	–	●	●	●	●	–	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG160616RP	15,88	16,12	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	–	●	–	–	–	●	–	●	–	–
CNMG190612RP	19,05	19,34	1,2	–	–	●	–	●	●	–	●	●	–	–	–	–	●	–	–	–	–	●	●	–	●	–	–	–	●	●	●	●	–	–
CNMG190616RP	19,05	19,34	1,6	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	–	–	●	●	–	–	–	–

● prima scelta
○ scelta alternativa

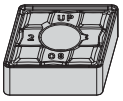
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

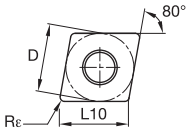




CNMG-UN

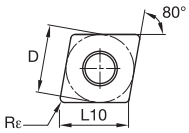
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404UN	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408UN	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120412UN	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416UN	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608UN	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612UN	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616UN	15,88	16,12	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190608UN	19,05	19,34	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612UN	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616UN	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





CNMG-UP

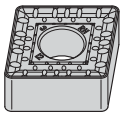
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404UP	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
CNMG120408UP	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
CNMG120412UP	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
CNMG160608UP	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–
CNMG160612UP	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–
CNMG190612UP	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–
CNMG190616UP	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–

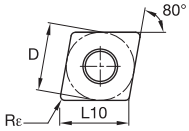


CNMM-MR

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408MR	12,70	12,90	0,8	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612MR	15,88	16,12	1,2	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616MR	15,88	16,12	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616MR	19,05	19,34	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

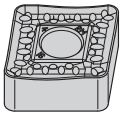
● prima scelta
○ scelta alternativa

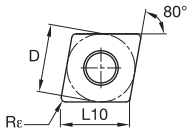




CNMM-RH

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
			P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
			M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
			K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
			N																								●	●	●	●	●	●	●	
			S																								●	●	●	●	●	●		
			H																															
CNMM190612RH	19,05	19,34	1,2	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RH	19,05	19,34	1,6	–	–	●	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RH	19,05	19,34	2,4	–	–	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RH	25,40	25,79	2,4	–	–	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



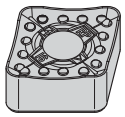


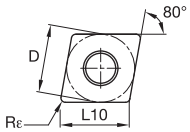
CNMM-RM

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408RM	12,70	12,90	0,8	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM120412RM	12,70	12,90	1,2	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612RM	15,88	16,12	1,2	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616RM	15,88	16,12	1,6	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160624RM	15,88	16,12	2,4	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190612RM	19,05	19,34	1,2	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RM	19,05	19,34	1,6	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RM	19,05	19,34	2,4	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RM	25,40	25,79	2,4	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

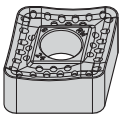
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

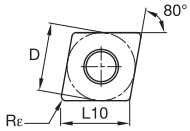




CNMM-RP

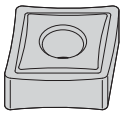
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408RP	12,70	12,90	0,8	–	●	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
CNMM120412RP	12,70	12,90	1,2	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM120416RP	12,70	12,90	1,6	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160608RP	15,88	16,12	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612RP	15,88	16,12	1,2	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616RP	15,88	16,12	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–
CNMM160624RP	15,88	16,12	2,4	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190612RP	19,05	19,34	1,2	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RP	19,05	19,34	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RP	19,05	19,34	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RP	25,40	25,79	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

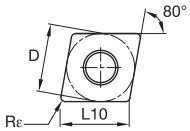




CNMM-RW

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM190624RW	19,05	19,34	2,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RW	25,40	25,79	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



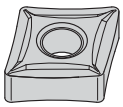


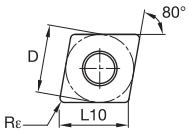
CNMP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMP120404	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–
CNMP120408	12,70	12,90	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–
CNMP120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMP160608	15,88	16,12	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMP190612	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

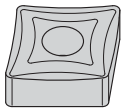
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

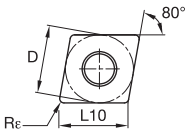




CNMP-K

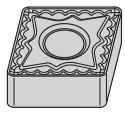
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMP120404K	12,70	12,90	0,4	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMP120408K	12,70	12,90	0,8	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

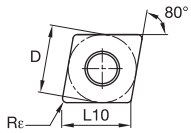




CNMS

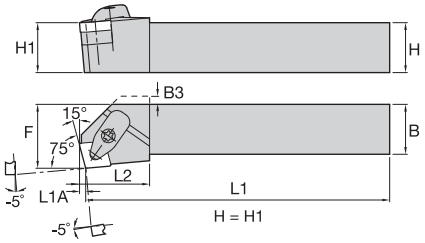
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMS120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CNMS160608	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CNMS190608	19,05	19,34	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CNMS190612	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

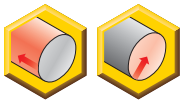




CNMG-MG

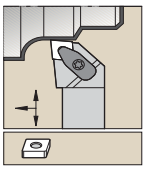
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408MG	12,70	12,90	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG120412MG	12,70	12,90	1,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416MG	12,70	12,90	1,6	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MG	15,88	16,12	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MG	15,88	16,12	1,6	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MG	19,05	19,34	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

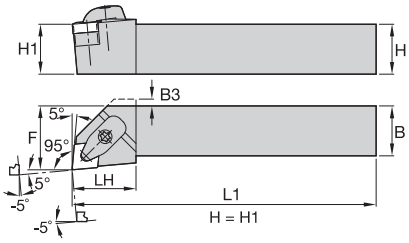




DCKN-KC 75°

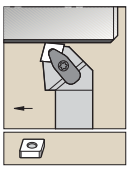
numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	B3	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro																
2273083	**DCKNR2020K12KC04**	20	20	25,0	125	32,0	3,1	6,0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875200	**DCKNR2525M12KC04**	25	25	32,0	150	32,0	3,1	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273084	**DCKNR3225P12KC04**	32	25	32,0	170	32,0	3,1	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273085	**DCKNR3232P16KC06**	32	32	40,0	170	32,0	3,8	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
sinistro																
2273087	**DCKNL2020K12KC04**	20	20	25,0	125	32,0	3,1	6,0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875204	**DCKNL2525M12KC04**	25	25	32,0	150	32,0	3,1	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273088	**DCKNL3225P12KC04**	32	25	32,0	170	32,0	3,1	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

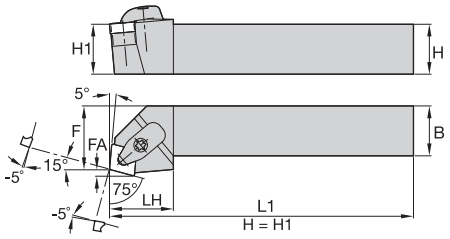


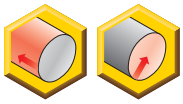


DCLN-KC 95°

numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro															
2417296	**DCLNR1616H09KC03**	16	16	20,0	100	30,0	6,0	CN..090308	**ICSN332**	**KMSP315IP**	9 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875199	**DCLNR2020K12KC04**	20	20	25,0	125	32,0	4,0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875193	**DCLNR2525M12KC04**	25	25	32,0	150	32,0	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875212	**DCLNR2525M16KC06**	25	25	32,0	150	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
1875223	**DCLNR3225P12KC04**	32	25	32,0	170	32,0	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875232	**DCLNR3225P16KC06**	32	25	32,0	170	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
1875224	**DCLNR3232P16KC06**	32	32	40,0	170	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
2273091	**DCLNR3232P19KC06**	32	32	40,0	170	40,0	—	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
2273092	**DCLNR4040S19KC06**	40	40	50,0	250	40,0	—	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
sinistro															
1875194	**DCLNL2020K12KC04**	20	20	25,0	125	32,0	4,0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875196	**DCLNL2525M12KC04**	25	25	32,0	150	32,0	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875205	**DCLNL2525M16KC06**	25	25	32,0	150	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
1875231	**DCLNL3225P12KC04**	32	25	32,0	170	32,0	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875230	**DCLNL3225P16KC06**	32	25	32,0	170	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
1875225	**DCLNL3232P16KC06**	32	32	40,0	170	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
2273093	**DCLNL3232P19KC06**	32	32	40,0	170	40,0	—	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
2273094	**DCLNL4040S19KC06**	40	40	50,0	250	40,0	—	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**

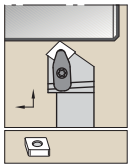


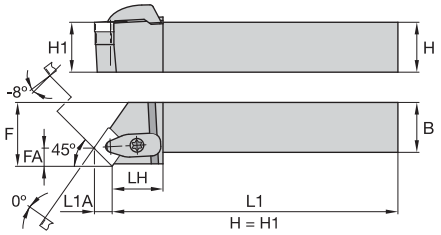




DCRN-KC 75°

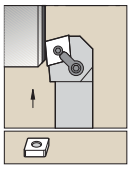
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro															
1875226	DCRNR2020K12KC04	20	20	25,0	125	32,0	3,3	CN..120408	ICSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM4615IP
1875201	DCRNR2525M12KC04	25	25	32,0	150	32,0	3,3	CN..120408	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
2273095	DCRNR3225P12KC04	32	25	32,0	170	32,0	3,3	CN..120408	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
2273097	DCRNR3232P19KC06	32	32	40,0	170	38,0	4,9	CN..190612	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	KLM68L25IP
sinistro															
1875206	DCRNL2525M12KC04	25	25	32,0	150	32,0	3,3	CN..120408	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
2273099	DCRNL3232P16KC06	32	32	40,0	170	38,0	4,1	CN..160612	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M	KLM58L15IP

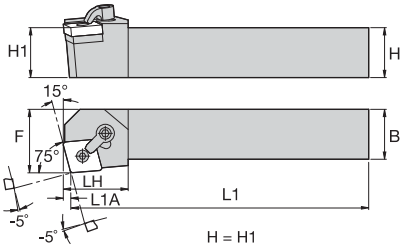


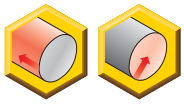


DCSN-KC 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro																
2273101	DCSNR2020K12KC04	20	20	25,0	125	35,0	8,2	8,5	CN..120408	ICSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM4615IP
2273102	DCSNR2525M12KC04	25	25	32,0	150	35,0	8,2	8,5	CN..120408	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
sinistro																
2273104	DCSNL2525M12KC04	25	25	32,0	150	35,0	8,2	8,5	CN..120408	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP

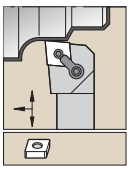


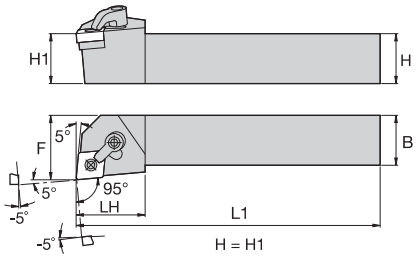




MCKN 75°

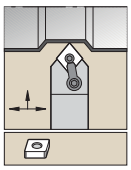
numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro														
1102236	**MCKNR2525M12**	25	25	32,0	150	32,0	3,1	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102237	**MCKNR3225P12**	32	25	32,0	170	32,0	3,1	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102240	**MCKNR3225P16**	32	25	32,0	170	33,0	3,6	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
sinistro														
1102729	**MCKNL2525M12**	25	25	32,0	150	32,0	3,1	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1099253	**MCKNL3225P16**	32	25	32,0	170	33,0	3,6	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102728	**MCKNL3232P19**	32	32	40,0	170	38,0	4,4	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm

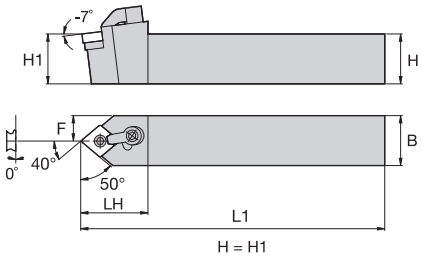




MCLN 95°

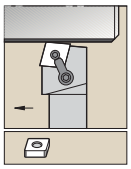
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1100939	**MCLNR1616H09**	16	16	20,0	100	25,0	CN..090308	**–**	**KLM33**	2 mm	**CKM6**	**STCM5**	2.5 mm
1101710	**MCLNR1616H12**	16	16	20,0	100	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1099132	**MCLNR2020K09**	20	20	25,0	125	25,0	CN..090308	**ICSN332**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1099133	**MCLNR2020K12**	20	20	25,0	125	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1100943	**MCLNR2525M09**	25	25	32,0	150	25,0	CN..090308	**ICSN332**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1101711	**MCLNR2525M12**	25	25	32,0	150	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101641	**MCLNR2525M16**	25	25	32,0	150	33,0	CNMA160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101704	**MCLNR2525M19**	25	25	32,0	150	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1101712	**MCLNR3225P12**	32	25	32,0	170	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101642	**MCLNR3225P16**	32	25	32,0	170	33,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101705	**MCLNR3225P19**	32	25	32,0	170	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
3595785	**MCLNR3232P12**	32	32	40,5	171	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
3595787	**MCLNR3232P16**	32	32	40,5	171	33,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101706	**MCLNR3232P19**	32	32	40,0	170	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1101707	**MCLNR4040R19**	40	40	50,0	200	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
sinistro													
1100938	**MCLNL1616H09**	16	16	20,0	100	25,0	CN..090308	**–**	**KLM33**	2 mm	**CKM6**	**STCM5**	2.5 mm
1102539	**MCLNL1616H12**	16	16	20,0	100	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102540	**MCLNL2020K12**	20	20	25,0	125	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102541	**MCLNL2525M12**	25	25	32,0	150	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102440	**MCLNL2525M16**	25	25	32,0	150	33,0	CNMA160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102534	**MCLNL2525M19**	25	25	32,0	150	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102542	**MCLNL3225P12**	32	25	32,0	170	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102442	**MCLNL3225P16**	32	25	32,0	170	33,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102535	**MCLNL3225P19**	32	25	32,0	170	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
3595786	**MCLNL3232P12**	32	32	40,5	171	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
3595788	**MCLNL3232P16**	32	32	40,5	171	33,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102536	**MCLNL3232P19**	32	32	40,0	170	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102537	**MCLNL4040R19**	40	40	50,0	200	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm

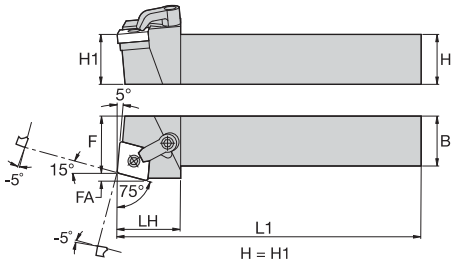




MCMN 50°

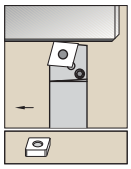
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
1101708	MCMNN2020K12	61	20	10,0	125	32,0	CN..120408	ICSN432	KLM46	2.5 mm	CKM21	STCM20	3 mm
1101709	MCMNN2525M12	86	25	12,9	150	32,0	CN..120408	ICSN432	KLM46	2.5 mm	CKM21	STCM20	3 mm
1102538	MCMNN3225P16	94	32	12,9	170	38,0	CN..160612	ICSN533	KLM58	3 mm	CKM21	STCM20	3 mm
1102239	MCMNN4040R19	117	40	20,0	200	42,0	CN..190612	ICSN633	KLM68	4 mm	CKM12	STCM4	4 mm

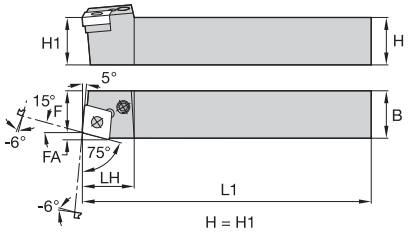


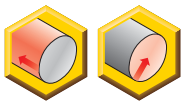


MCRN 75°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro														
1101638	MCRNR2020K12	20	20	25,0	125	32,0	3,3	CN..120408	ICSN432	KLM46	2.5 mm	CKM21	STCM20	3 mm
1101639	MCRNR2525M12	25	25	32,0	150	32,0	3,3	CN..120408	ICSN432	KLM46	2.5 mm	CKM21	STCM20	3 mm
1101640	MCRNR3225P12	32	25	32,0	170	32,0	3,3	CN..120408	ICSN432	KLM46	2.5 mm	CKM21	STCM20	3 mm
1102732	MCRNR3232P16	32	32	32,0	170	33,0	4,2	CN..160612	ICSN533	KLM58	3 mm	CKM21	STCM20	3 mm
1101643	MCRNR3232P19	32	32	40,0	170	38,0	4,6	CN..190612	ICSN633	KLM68	4 mm	CKM12	STCM4	4 mm
sinistro														
1102437	MCRNL2525M12	25	25	32,0	150	32,0	3,3	CN..120408	ICSN432	KLM46	2.5 mm	CKM21	STCM20	3 mm
1102439	MCRNL3225P12	32	25	32,0	170	32,0	3,3	CN..120408	ICSN432	KLM46	2.5 mm	CKM21	STCM20	3 mm
1102241	MCRNL3232P16	32	32	32,0	170	33,0	4,2	CN..160612	ICSN533	KLM58	3 mm	CKM21	STCM20	3 mm
1102443	MCRNL3232P19	32	32	40,0	170	38,0	4,6	CN..190612	ICSN633	KLM68	4 mm	CKM12	STCM4	4 mm

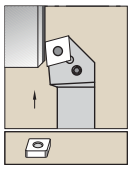


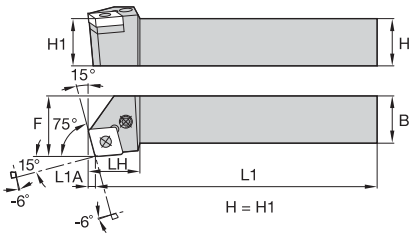


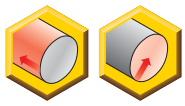


PCBN 75°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro														
1244779	**PCBNR2525M12**	25	25	22,0	150	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244635	**PCBNR2525M16**	25	25	22,0	150	28,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244636	**PCBNR3225P12**	32	25	22,0	170	28,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244637	**PCBNR3225P16**	32	25	22,0	170	28,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244638	**PCBNR3232P16**	32	32	27,0	170	38,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244795	**PCBNR3232P19**	32	32	27,0	170	38,0	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1192373	**PCBNR4040S19**	40	40	35,0	250	38,0	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
sinistro														
1244630	**PCBNL2020K12**	20	20	17,0	125	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244859	**PCBNL2525M12**	25	25	22,0	150	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244631	**PCBNL2525M16**	25	25	22,0	150	28,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244794	**PCBNL3232P16**	32	32	27,0	170	38,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244633	**PCBNL3232P19**	32	32	27,0	170	38,0	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1192372	**PCBNL4040S19**	40	40	35,0	250	38,0	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP

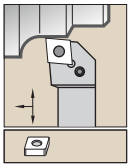


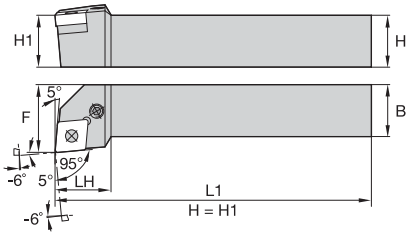




PCKN 75°

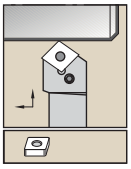
numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro														
1244649	**PCKNR2020K12**	20	20	25,0	125	23,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244797	**PCKNR2525M12**	25	25	32,0	150	23,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244775	**PCKNR2525M16**	25	25	32,0	150	30,0	3,8	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244650	**PCKNR3225P12**	32	25	32,0	170	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244776	**PCKNR3225P16**	32	25	32,0	170	30,0	3,8	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244798	**PCKNR3232P19**	32	32	40,0	170	37,5	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
sinistro														
1244646	**PCKNL2020K12**	20	20	25,0	125	23,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244780	**PCKNL2525M12**	25	25	32,0	150	23,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244647	**PCKNL3225P12**	32	25	32,0	170	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244777	**PCKNL3225P16**	32	25	32,0	170	30,0	3,8	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244648	**PCKNL3232P19**	32	32	40,0	170	37,5	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP

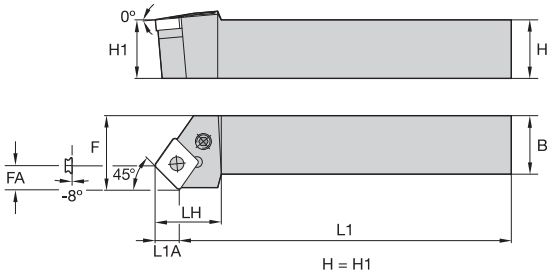




PCLN 95°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro													
1244809	**PCLNR1616H12**	16	16	20,0	100	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244810	**PCLNR2020K12**	20	20	25,0	125	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1108097	**PCLNR2525M12**	25	25	32,0	150	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1192378	**PCLNR2525M16**	25	25	32,0	150	28,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244652	**PCLNR2525M19**	25	25	32,0	150	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244811	**PCLNR3225P12**	32	25	32,0	170	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244812	**PCLNR3225P16**	32	25	32,0	170	38,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244653	**PCLNR3225P19**	32	25	32,0	170	38,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1236864	**PCLNR3232P16**	32	32	40,0	170	36,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244813	**PCLNR3232P19**	32	32	40,0	170	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1192379	**PCLNR4040S19**	40	40	50,0	250	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
sinistro													
1244799	**PCLNL1616H12**	16	16	20,0	100	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1156962	**PCLNL2020K12**	20	20	25,0	125	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1192375	**PCLNL2525M12**	25	25	32,0	150	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1192376	**PCLNL2525M16**	25	25	32,0	150	28,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244800	**PCLNL2525M19**	25	25	32,0	150	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244858	**PCLNL3225P12**	32	25	32,0	170	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244802	**PCLNL3225P16**	32	25	32,0	170	38,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244803	**PCLNL3225P19**	32	25	32,0	170	38,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244804	**PCLNL3232P16**	32	32	40,0	170	36,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244805	**PCLNL3232P19**	32	32	40,0	170	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1192377	**PCLNL4040S19**	40	40	50,0	250	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP

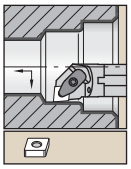




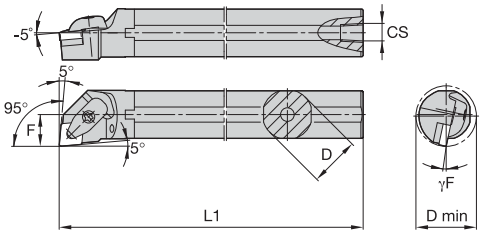
PCSN 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro															
1244656	**PCSNR2020K12**	20	20	25,0	125	26,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244818	**PCSNR2525M12**	25	25	32,0	150	28,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244657	**PCSNR3225P12**	32	25	32,0	170	29,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244819	**PCSNR3232P19**	32	32	40,0	170	37,5	12,5	12,7	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
sinistro															
1244654	**PCSNL2020K12**	20	20	25,0	125	26,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244655	**PCSNL2525M12**	25	25	32,0	150	28,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1284109	**PCSNL3225P12**	32	25	32,0	170	29,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244817	**PCSNL3232P19**	32	32	40,0	170	37,5	12,5	12,7	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP

Bareni Kenclamp™

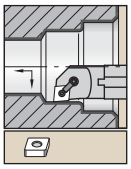


Codolo in acciaio con refrigerante interno.

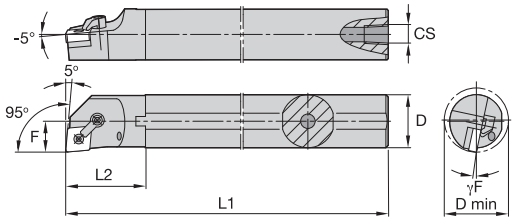


A-DCLN-KC 95°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	perno scanalato	Torx Plus
destro														
2441867	**A25RDCLNR12KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	CN.120408	**–**	**–**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441931	**A32SDCLNR12KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	CN.120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441933	**A40TDCLNR12KC04**	40	50,0	27,0	300	1/4-18 NPT	-9.0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
sinistro														
2441930	**A25RDCLNL12KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	CN.120408	**–**	**–**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441932	**A32SDCLNL12KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	CN.120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441934	**A40TDCLNL12KC04**	40	50,0	27,0	300	1/4-18 NPT	-9.0	CN.120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441938	**A40TDCLNL16KC06**	40	50,0	27,0	300	1/4-18 NPT	-12.0	CN..160612	**ICSN533**	**KMSP515IP**	15 IP	**CM209R ASSY**	**SSP025018M**	15 IP

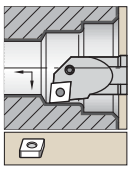


Codolo in acciaio con refrigerante interno.

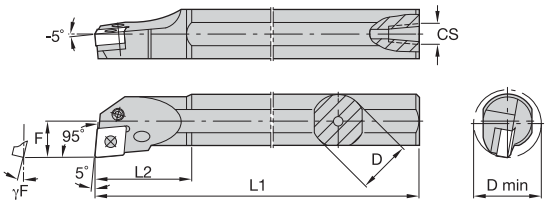


A-MCLN 95°

numero d'ordine	codice catalogo	D	D min	F	L1	L2	CS	γF°	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro															
1098767	**A25RMCLNR09**	25	32,0	17,0	200	40,0	1/4-18 NPT	-12.0	CN..090308	**–**	**KLM33**	2 mm	**CKM6**	**STCM5**	2.5 mm
1098088	**A25RMCLNR12**	25	32,0	17,0	200	33,0	1/4-18 NPT	-12.0	CN..120408	**–**	**KLM43**	2 mm	**CKM21**	**STCM11**	3 mm
1098090	**A32SMCLNR12**	32	40,0	22,0	250	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098092	**A40TMCLNR12**	40	50,0	27,0	300	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098096	**A40TMCLNR16**	40	50,0	27,0	300	–	1/4-18 NPT	-11.0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1098094	**A50UMCLNR12**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098098	**A50UMCLNR16**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..160608	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1098100	**A50UMCLNR19**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..190608	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
sinistro															
1098089	**A25RMCLNL12**	25	32,0	17,0	200	33,0	1/4-18 NPT	-12.0	CN..120408	**–**	**KLM43**	2 mm	**CKM21**	**STCM11**	3 mm
1098091	**A32SMCLNL12**	32	40,0	22,0	250	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098093	**A40TMCLNL12**	40	50,0	27,0	300	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098097	**A40TMCLNL16**	40	50,0	27,0	300	–	1/4-18 NPT	-11.0	CN..160608	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1098095	**A50UMCLNL12**	50	63,0	35,0	350	–	1/4-18 NPT	-7.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098099	**A50UMCLNL16**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..160608	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1098101	**A50UMCLNL19**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..190608	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm



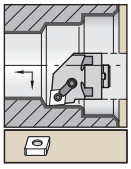
Codolo in acciaio con refrigeranti interni.



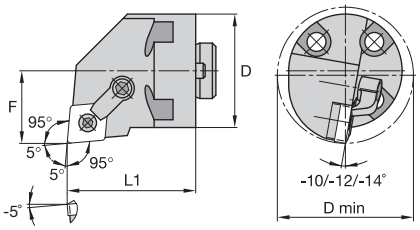
A-PCLN 95°

numero d'ordine	codice catalogo	D	D min	F	L1	L2	CS	γF°	inserto di riferimento	supporto	perno supporto	perno	leva	vite di bloccaggio	Torx Plus
destro															
2447150	**A25TPCLNR12**	25	32,0	17,0	300	40	1/4-18 NPT	-12.0	CN..120408	**–**	**–**	**–**	**511.022**	**514.122**	10 IP
2447152	**A32UPCLNR12**	32	40,0	22,0	350	50	1/4-18 NPT	-10.0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
2447476	**A32UPCLNR16**	32	50,0	22,0	350	50	1/4-18 NPT	-10.0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
2447533	**A40VPCLNR12**	40	50,0	27,0	400	55	1/4-18 NPT	-10.0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
2447478	**A40VPCLNR16**	40	50,0	27,0	400	55	1/4-18 NPT	-11.0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
sinistro															
2447151	**A25TPCLNL12**	25	32,0	17,0	300	40	1/4-18 NPT	-12.0	CN..120408	**–**	**–**	**–**	**511.022**	**514.122**	10 IP
2447473	**A32UPCLNL12**	32	40,0	22,0	350	50	1/4-18 NPT	-10.0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
2447534	**A40VPCLNL12**	40	50,0	27,0	400	55	1/4-18 NPT	-10.0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
2447479	**A40VPCLNL16**	40	50,0	27,0	400	55	1/4-18 NPT	-11.0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP

Testine di barenatura Kenloc™

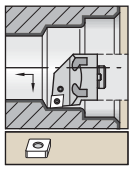


Con adduzione interna di refrigerante.

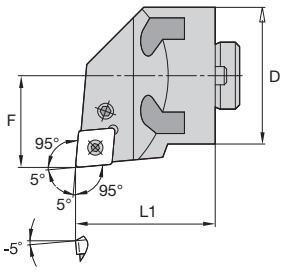


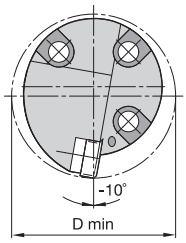
H-MCLN 95°

numero d'ordine	codice catalogo	D	D min	F	L1	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro												
3612156	**H32MCLNR12**	32	40,0	22,0	41	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
3612178	**H50MCLNR12**	50	63,0	35,0	41	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm
1099102	**H50MCLNR19**	50	63,0	35,0	41	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm



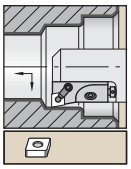
Con adduzione interna di refrigerante.

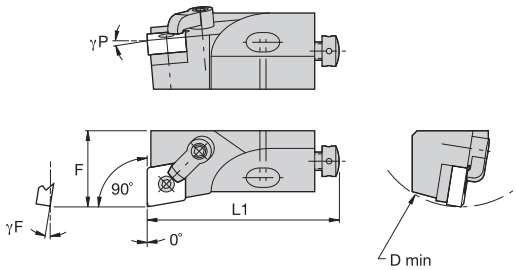




H-PCLN 95°

numero d'ordine	codice catalogo	D	D min	F	L1	inserto di riferimento	supporto	perno supporto	leva	spingi perno	vite di bloccaggio	hex
destro												
1861493	**H32PCLNR12**	32	40,0	22,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP
1861500	**H40PCLNR12**	40	50,0	27,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP
1861517	**H50PCLNR12**	50	63,0	35,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP
sinistro												
1861501	**H40PCLNL12**	40	50,0	27,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP
1861518	**H50PCLNL12**	50	63,0	35,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP

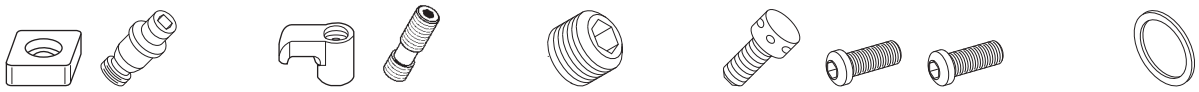




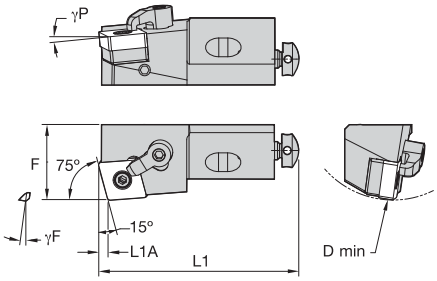
MCFN 90°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
3331146	**MCFNR10CA09**	40	14,0	50	-9.0	-9.0	CN..090308/CN..322
3346236	**MCFNR12CA12**	50	20,0	55	-9.0	-5.0	CN..120408/CN..432
2074433	**MCFNR16CA12**	60	25,0	63	-9.0	-5.0	CN..120408/CN..432
3330195	**MCFNR20CA12**	70	25,0	70	-9.0	-5.0	CN..120408\CN..432
sinistro							
3331145	**MCFNL10CA09**	40	14,0	50	-9.0	-9.0	CN..090308/CN..322
1906272	**MCFNL12CA12**	50	20,0	55	-9.0	-5.0	CN..120408/CN..432

Parti di ricambio



D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
60	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**
70	**ICSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**

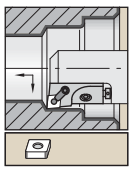


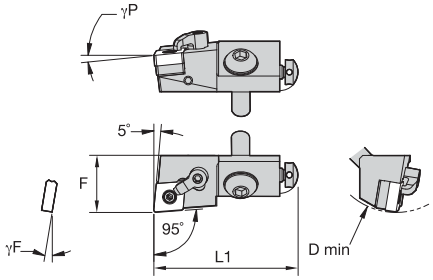
MCKN 75°

numero d'ordine	codice catalogo	D min	F	L1	L1A	γF°	γP°	inserto di riferimento
destro								
3346238	**MCKNR12CA12**	50	20,0	55	3	-9.0	-5.0	CN..120408/CN..432
3330222	**MCKNR16CA12**	60	25,0	63	3	-9.0	-5.0	CN..120408/CN..432
sinistro								
3346237	**MCKNL12CA12**	50	20,0	55	3	-9.0	-5.0	CN..120408/CN..432

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**





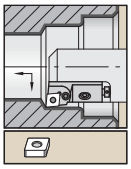
MCLN 95°

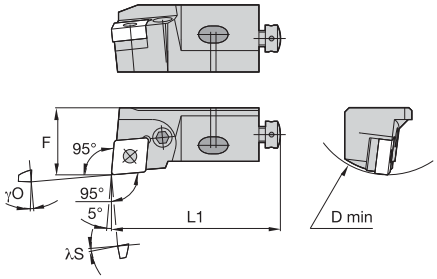
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1100493	**MCLNR12CA12**	50	20,0	55	-9.0	-5.0	CN..120408/CN..432
1282100	**MCLNR16CA12**	60	25,0	63	-9.0	-5.0	CN..120408/CN..432
3330197	**MCLNR20CA12**	70	25,0	70	-9.0	-5.0	CN..120408/CN..432
3332803	**MCLNR25CA12**	100	32,0	100	-9.0	-5.0	CN..120408/CN..432
3332804	**MCLNR25CA16**	100	32,0	100	-9.0	-5.0	CN..160612/CN..543
3332805	**MCLNR25CA19**	100	32,0	100	-9.0	-5.0	CN..190612/CN..643
sinistro							
2077947	**MCLNL12CA12**	50	20,0	55	-9.0	-5.0	CN..120408/CN..432
3330273	**MCLNL16CA12**	60	25,0	63	-9.0	-5.0	CN..120408/CN..432
3330196	**MCLNL20CA12**	70	25,0	70	-9.0	-5.0	CN..120408/CN..432
3332362	**MCLNL25CA19**	100	32,0	100	-9.0	-5.0	CN..190612/CN..643

NOTA: I ricambi selezionati si basano sul diametro minimo e sulla dimensione dell'inserto selezionata.

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	**–**	4 mm	**CSWM 060 050**
60	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	**–**	5 mm	**CSWM 080 050**
70	**ICSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	**–**	5 mm	**CSWM 080 050**
100	**ICSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	**–**	**MS364**	8 mm	**CSWM 100 080**
100	**ICSN432**	**KLM46**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**MS364**	8 mm	**CSWM 100 080**
100	**ICSN533**	**KLM58**	3 mm	**CKM41**	**STCM20**	3 mm	**KUAM26**	3 mm	**KUAM32**	**–**	**MS364**	8 mm	**CSWM 100 080**
100	**ICSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	**–**	**MS364**	8 mm	**CSWM 100 080**





PCLN 95°

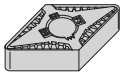
numero d'ordine	codice catalogo	D min	F	L1	λS°	γO°	inserto di riferimento
destro							
1244444	**PCLNR12CA-12**	50	20,0	55	-6.0	-9.0	CN..120408/CN..432
1244496	**PCLNR16CA-12**	60	25,0	63	-6.0	-7.0	CN..120408/CN..432
sinistro							
1244443	**PCLNL16CA-12**	60	25,0	63	-6.0	-7.0	CN..120408/CN..432

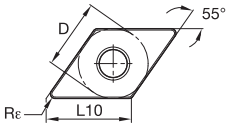
Parti di ricambio

D min	supporto	perno supporto	leva	vite di bloccaggio	dimensione chiave vite di bloccaggio	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**–**	**–**	**511.022**	**514.122**	10 IP	**KUAM28**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**512.112**	**513.023**	**511.023**	**514.123**	15 IP	**KUAM23**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

● prima scelta
○ scelta alternativa

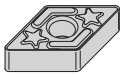
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

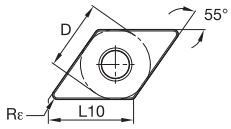




DNGG-FS

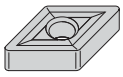
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGG110402FS	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG110404FS	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG110408FS	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150401FS	12,70	15,50	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150402FS	12,70	15,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150404FS	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–
DNGG150604FS	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150408FS	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNGG150608FS	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150412FS	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

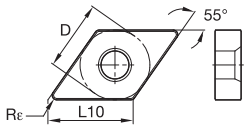




DNGG-LF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGG150402LF	12,70	15,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150404LF	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150408LF	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–



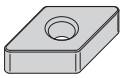


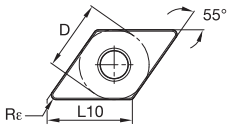
DNGP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGP150401	12,70	15,50	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DNGP150402	12,70	15,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
DNGP150404	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
DNGP150604	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●	–
DNGP150408	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
DNGP150608	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

● prima scelta
○ scelta alternativa

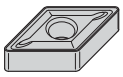
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

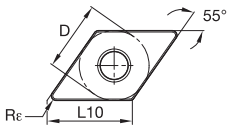




DNMA

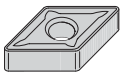
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMA110408	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150408	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150608	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150412	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150612	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150416	12,70	15,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

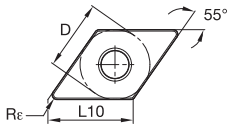




DNMG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150408B	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

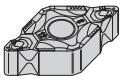


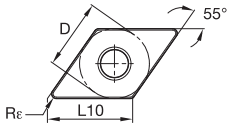


DNMG-33

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG11040433	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG11040833	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG15060433	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG15060833	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

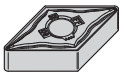
● prima scelta
○ scelta alternativa

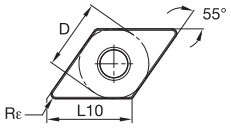




DNMG-CT

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
			P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
			M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
			K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
			N																								●	●	●	●	●	●	●	
			S																								●	●	●	●	●	●		
			H																															
DNMG110412CT	9,53	11,62	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110408CT	9,53	11,63	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150604CT	12,70	15,50	0,3	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404CT	12,70	15,50	0,4	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408CT	12,70	15,50	0,8	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DNMG150608CT	12,70	15,50	0,8	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412CT	12,70	15,50	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150612CT	12,70	15,50	1,2	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

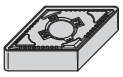


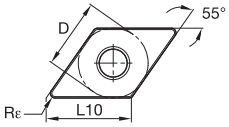


DNMG-FF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FF	9,53	11,63	0,4	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG110408FF	9,53	11,63	0,8	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG150404FF	12,70	15,50	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150604FF	12,70	15,50	0,4	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●
DNMG150408FF	12,70	15,50	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150608FF	12,70	15,50	0,8	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●

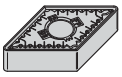
● prima scelta
○ scelta alternativa

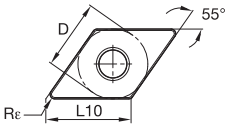




DNMG-FN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
DNMG110404FN	9,53	11,63	0,4	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG110408FN	9,53	11,63	0,8	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG110412FN	9,53	11,63	1,2	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404FN	12,70	15,50	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150604FN	12,70	15,50	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150408FN	12,70	15,50	0,8	–	●	●	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
DNMG150608FN	12,70	15,50	0,8	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150412FN	12,70	15,50	1,2	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150612FN	12,70	15,50	1,2	–	●	●	●	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●



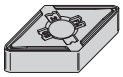


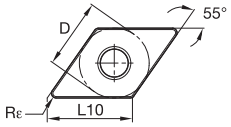
DNMG-FP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FP	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–	–	●	–	●	–	–	–
DNMG110408FP	9,53	11,63	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	●	–	–	●
DNMG150404FP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150604FP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408FP	12,70	15,50	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150608FP	12,70	15,50	0,8	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150412FP	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150612FP	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●

● prima scelta
○ scelta alternativa

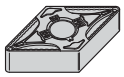
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

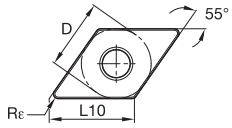




DNMG-FW

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FW	9,53	11,63	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG110408FW	9,53	11,63	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150404FW	12,70	15,50	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150408FW	12,70	15,50	0,4	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG150604FW	12,70	15,50	0,4	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150608FW	12,70	15,50	0,4	–	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–



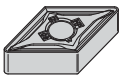


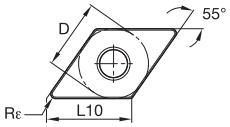
DNMG-MN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404MN	9,53	11,63	0,4	–	●	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110408MN	9,53	11,63	0,8	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110412MN	9,53	11,63	1,2	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404MN	12,70	15,50	0,4	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150604MN	12,70	15,50	0,4	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408MN	12,70	15,50	0,8	●	–	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150608MN	12,70	15,50	0,8	●	–	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412MN	12,70	15,50	1,2	–	●	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612MN	12,70	15,50	1,2	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MN	12,70	15,50	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190612MN	15,88	19,38	1,2	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

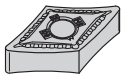
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

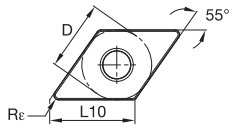




DNMG-MP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408MP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
DNMG110412MP	9,53	11,63	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404MP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150604MP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150408MP	12,70	15,50	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150608MP	12,70	15,50	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	●	●	–	–	–
DNMG150412MP	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–
DNMG150612MP	12,70	15,50	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	●	●	–	–	–





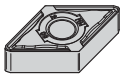
DNMG-MS

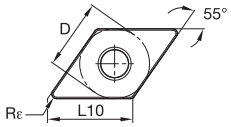
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408MS	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
DNMG150401MS	12,70	15,50	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150402MS	12,70	15,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG150404MS	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150604MS	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150408MS	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150608MS	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150412MS	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG150612MS	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–

Tornitura ISO

● prima scelta
○ scelta alternativa

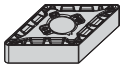
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

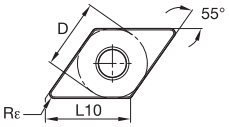




DNMG-MW

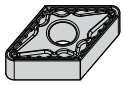
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150408MW	12,70	15,50	0,4	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608MW	12,70	15,50	0,4	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150412MW	12,70	15,50	0,8	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612MW	12,70	15,50	0,8	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

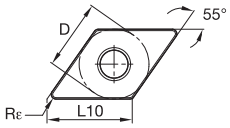




DNMG-MR

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408MR	9,53	11,63	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408MR	12,70	15,50	0,8	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	–	●	–	–	–	–	–
DNMG150608MR	12,70	15,50	0,8	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–
DNMG150412MR	12,70	15,50	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150612MR	12,70	15,50	1,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MR	12,70	15,50	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

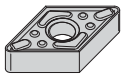


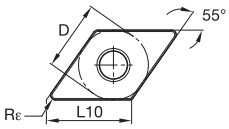


DNMG-MG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150612MG	12,70	15,50	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MG	12,70	15,50	1,6	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

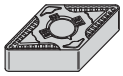
● prima scelta
○ scelta alternativa

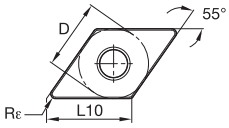




DNMG-P

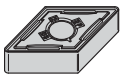
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
			P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
			M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
			K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
			N																								●	●	●	●	●	●	●	
			S																								●	●	●	●	●	●		
			H																															
DNMG150404P	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408P	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150608P	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

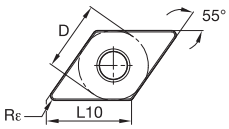




DNMG-RN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150408RN	12,70	15,50	0,8	–	–	●	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608RN	12,70	15,50	0,8	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412RN	12,70	15,50	1,2	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150612RN	12,70	15,50	1,2	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150416RN	12,70	15,50	1,6	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616RN	12,70	15,50	1,6	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190608RN	15,88	19,38	0,8	–	–	●	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190612RN	15,88	19,38	1,2	–	–	●	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



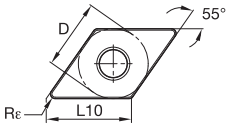


DNMG-RP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408RP	9,53	11,63	0,8	–	–	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG110412RP	9,53	11,63	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408RP	12,70	15,50	0,8	–	–	●	●	●	●	–	–	–	–	–	●	–	–	●	●	–	●	●	●	–	●	–	–	–	●	●	●	●	–	–
DNMG150608RP	12,70	15,50	0,8	–	●	●	●	●	●	–	●	–	–	–	–	●	–	–	●	–	●	●	●	–	–	–	–	–	●	●	●	●	–	–
DNMG150412RP	12,70	15,50	1,2	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–
DNMG150612RP	12,70	15,50	1,2	–	–	●	●	●	●	–	–	–	–	–	●	–	●	●	●	–	–	–	●	●	–	–	–	–	●	●	–	–	–	–
DNMG150416RP	12,70	15,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150616RP	12,70	15,50	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

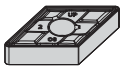
● prima scelta
○ scelta alternativa

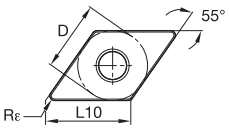
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															



DNMG-UN

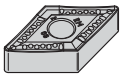
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408UN	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110412UN	9,53	11,63	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408UN	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608UN	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412UN	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612UN	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150416UN	12,70	15,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616UN	12,70	15,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

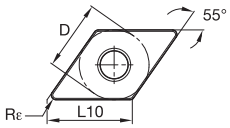




DNMG-UP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408UP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150404UP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–
DNMG150604UP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150408UP	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150608UP	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–



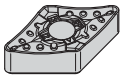


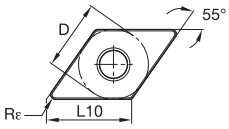
DNMM-RM

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMM150408RM	12,70	15,50	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150608RM	12,70	15,50	0,8	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150412RM	12,70	15,50	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150612RM	12,70	15,50	1,2	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150616RM	12,70	15,50	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

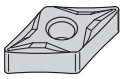
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

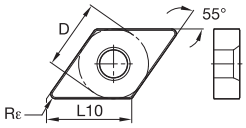




DNMM-RP

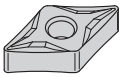
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMM150608RP	12,70	15,50	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150612RP	12,70	15,50	1,2	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150616RP	12,70	15,50	1,6	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

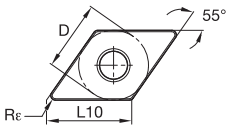




DNMP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMP150404	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMP150408	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMP150412	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



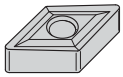


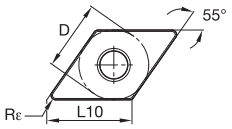
DNMP-K

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMP110408K	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150404K	12,70	15,50	0,4	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150604K	12,70	15,50	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150408K	12,70	15,50	0,8	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150608K	12,70	15,50	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150412K	12,70	15,50	1,2	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Tornitura ISO

● prima scelta
○ scelta alternativa





DNMS

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMS150408	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

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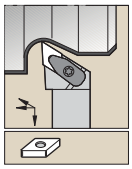
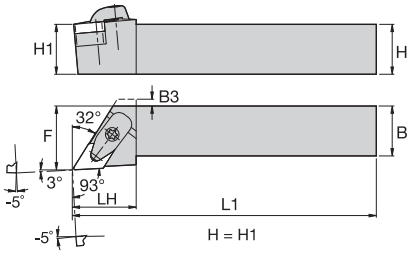
NOTA: l'applicazione è al momento disponibile solo nella versione in lingua inglese. Sono pianificati per il futuro il rilascio di successivi aggiornamenti per la versione tradotta in lingua locale.

Google play

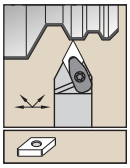
Available on the App Store

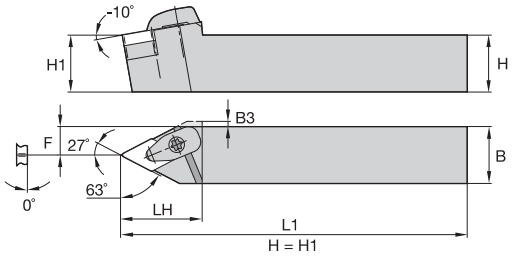




DDJN-KC 93°

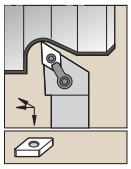
numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro															
2273105	**DDJNR2020K11KC04**	20	20	25,0	125	30,0	2,0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875197	**DDJNR2020K15KC06**	20	20	25,0	125	32,0	4,0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273106	**DDJNR2525M11KC04**	25	25	32,0	150	30,0	—	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875191	**DDJNR2525M15KC06**	25	25	32,0	150	32,0	—	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875208	**DDJNR3225P15KC06**	32	25	32,0	170	32,0	—	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875227	**DDJNR3232P15KC06**	32	32	40,0	170	32,0	—	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
sinistro															
2273107	**DDJNL2020K11KC04**	20	20	25,0	125	30,0	2,0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875198	**DDJNL2020K15KC06**	20	20	25,0	125	32,0	4,0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273108	**DDJNL2525M11KC04**	25	25	32,0	150	30,0	—	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875192	**DDJNL2525M15KC06**	25	25	32,0	150	32,0	—	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875207	**DDJNL3225P15KC06**	32	25	32,0	170	32,0	—	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875209	**DDJNL3232P15KC06**	32	32	40,0	171	32,0	—	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

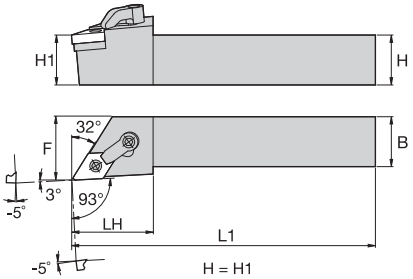


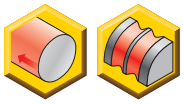


DDNN-KC 63°

numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro															
2273111	**DDNNR2020K15KC06**	20	20	10,0	125	40,0	2,5	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273112	**DDNNR2525M15KC06**	25	25	13,0	150	40,0	—	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

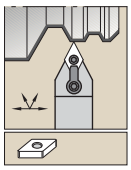


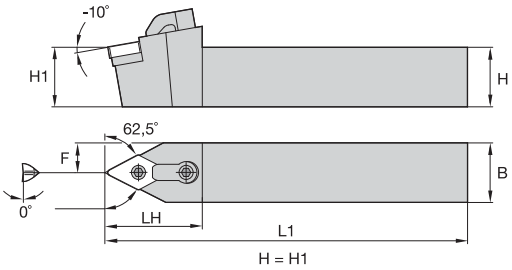


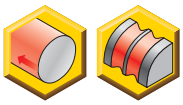


MDJN 93°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1100936	**MDJNR1616H11**	16	16	20,0	100	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1101286	**MDJNR2020K11**	20	20	25,0	125	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1101356	**MDJNR2020K15**	20	20	25,0	125	36,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1101288	**MDJNR2525M11**	25	25	32,0	150	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1101357	**MDJNR2525M15**	25	25	32,0	150	36,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1101358	**MDJNR3225P15**	32	25	32,0	170	36,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
3638550	**MDJNR3232P15**	32	32	40,5	173	32,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
sinistro													
1101285	**MDJNL2020K11**	20	20	25,0	125	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1101287	**MDJNL2525M11**	25	25	32,0	150	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1102316	**MDJNL2525M15**	25	25	32,0	150	36,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1102317	**MDJNL3225P15**	32	25	32,0	170	32,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
3638551	**MDJNL3232P15**	32	32	40,5	173	32,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm

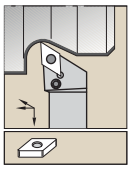


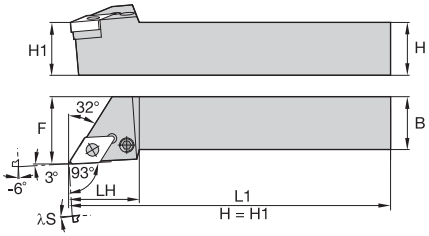


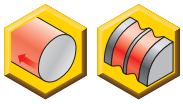


MDNN 62,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1101636	**MDNNR2525M15**	68	25	12,5	150	41,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1101637	**MDNNR3225P15**	88	32	12,5	170	41,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
sinistro													
1102434	**MDNNL2525M15**	68	25	12,5	150	41,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1102435	**MDNNL3225P15**	88	32	12,5	170	41,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm

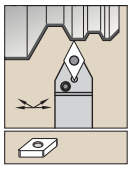


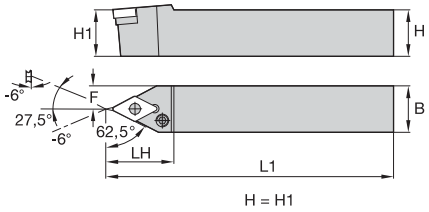


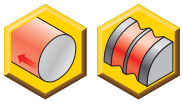


PDJN 93°

numero d'ordine	codice catalogo	H	B	F	L1	LH	λS°	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro														
1244752	**PDJNR1616H11**	16	16	20,0	100	24,0	-6.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1192382	**PDJNR2020K11**	20	20	25,0	125	30,0	-7.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1192383	**PDJNR2020K15**	20	20	25,0	125	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1192384	**PDJNR2525M11**	25	25	32,0	150	30,0	-7.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1192385	**PDJNR2525M15**	25	25	32,0	150	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1156969	**PDJNR3225P15**	32	25	32,0	170	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1236865	**PDJNR3232P15**	32	32	40,0	170	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244784	**PDJNR4025R15**	40	25	32,0	200	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
sinistro														
1244751	**PDJNL1616H11**	16	16	20,0	100	24,0	-6.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244658	**PDJNL2020K11**	20	20	25,0	125	30,0	-7.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244820	**PDJNL2020K15**	20	20	25,0	125	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1192380	**PDJNL2525M11**	25	25	32,0	150	30,0	-7.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1156968	**PDJNL2525M15**	25	25	32,0	150	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244781	**PDJNL3225P15**	32	25	32,0	170	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244821	**PDJNL3232P15**	32	32	40,0	170	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1192381	**PDJNL4025R15**	40	25	32,0	200	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP

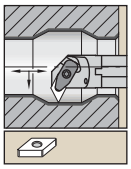




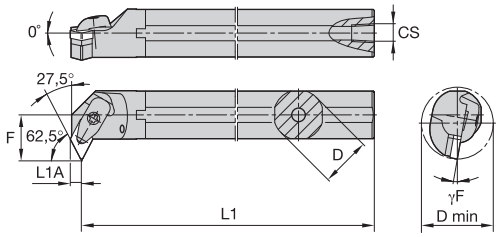


PDNN 62,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro													
1244756	**PDNNR2020K11**	20	20	10,0	125	24,0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244824	**PDNNR2020K15**	20	20	10,0	125	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244773	**PDNNR2525M15**	25	25	12,5	150	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244825	**PDNNR4025M15**	40	25	12,5	150	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
sinistro													
1244754	**PDNNL2020K11**	20	20	10,0	125	24,0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244822	**PDNNL2020K15**	20	20	10,0	125	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244659	**PDNNL2525M11**	25	25	12,5	150	30,0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244785	**PDNNL2525M15**	25	25	12,5	150	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244823	**PDNNL4025M15**	40	25	12,5	150	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP

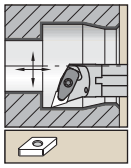


Codolo in acciaio con refrigerante interno.

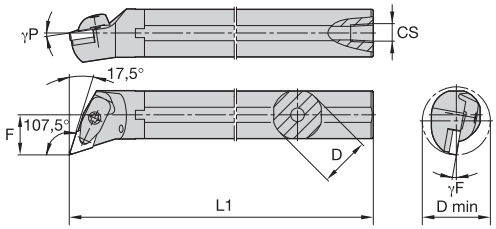


A-DDPN-KC 117,5°

numero d'ordine	codice catalogo	D	D min	F	L1	L1A	CS	γF°	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	perno scanalato	Torx Plus
destro															
2441957	**A25RDDPNR11KC04**	25	37,0	22,0	200	4,8	1/4-18 NPT	-10.0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441959	**A32SDDPNR15KC06**	32	45,0	27,0	250	6,5	1/4-18 NPT	-12.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441961	**A40TDDPNR15KC06**	40	52,0	30,0	300	6,6	1/4-18 NPT	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
sinistro															
2441960	**A32SDDPNL15KC06**	32	45,0	27,0	250	—	1/4-18 NPT	-12.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441962	**A40TDDPNL15KC06**	40	52,0	30,0	300	6,6	1/4-18 NPT	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP



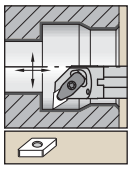
Codolo in acciaio con refrigerante interno.



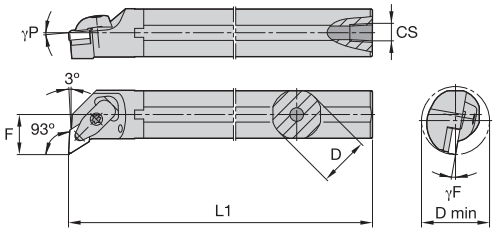
A-DDQN-KC 107,5°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	γP°	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	perno scanalato	Torx Plus
destro															
2441951	**A25RDDQNR11KC04**	25	32,0	17,0	200	1/4-18 NPT	-11.0	-7.0	DN..110408	—	—	—	**CM234R ASSY**	**SSP025016M**	15 IP
2441953	**A32SDDQNR15KC06**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441955	**A40TDDQNR15KC06**	40	50,0	27,0	300	1/4-18 NPT	-10.0	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
sinistro															
2441952	**A25RDDQNL11KC04**	25	32,0	17,0	200	1/4-18 NPT	-11.0	-7.0	DN..110408	—	—	—	**CM234R ASSY**	**SSP025016M**	15 IP
2441954	**A32SDDQNL15KC06**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441956	**A40TDDQNL15KC06**	40	50,0	27,0	300	1/4-18 NPT	-10.0	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

Tornitura ISO

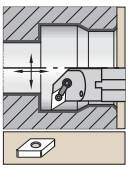


Codolo in acciaio con refrigerante interno.

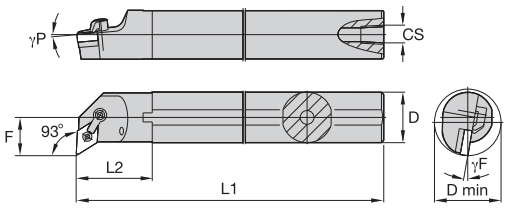


A-DDUN-KC 93°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	γP°	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	perno scanalato	Torx Plus
destro															
2441939	**A25RDDUNR11KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	-5.0	DN..110408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441941	**A32SDDUNR11KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-5.0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441945	**A32SDDUNR15KC06**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-6.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441947	**A40TDDUNR15KC06**	40	50,0	27,0	300	1/4-18 NPT	-9.0	-5.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441949	**A50UDDUNR15KC06**	50	63,0	35,0	350	1/4-18 NPT	-7.0	-5.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
sinistro															
2441940	**A25RDDUNL11KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	-5.0	DN..110408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441942	**A32SDDUNL11KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-5.0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441946	**A32SDDUNL15KC06**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-6.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441948	**A40TDDUNL15KC06**	40	50,0	27,0	300	1/4-18 NPT	-9.0	-5.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441950	**A50UDDUNL15KC06**	50	63,0	35,0	350	1/4-18 NPT	-7.0	-5.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP



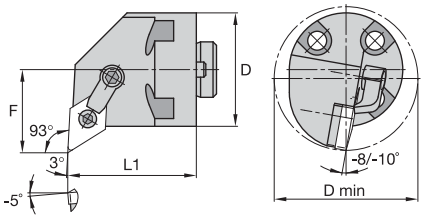
Codolo in acciaio con refrigerante interno.



A-MDUN 93°

numero d'ordine	codice catalogo	D	D min	F	L1	L2	CS	γF°	γP°	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro																
1098769	**A25RMDUNR11**	25	32,0	17,0	200	40,0	1/4-18 NPT	-14.0	-5.0	DN..110408	–	**KLM33L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1098102	**A25RMDUNR15**	25	32,0	17,0	200	–	1/4-18 NPT	-14.0	-5.0	DN..150408	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM11**	3 mm
1098770	**A32SMDUNR11**	32	40,0	22,0	250	50,0	1/4-18 NPT	-12.0	-5.0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1098104	**A32SMDUNR15**	32	40,0	22,0	250	–	1/4-18 NPT	-12.0	-6.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1098106	**A40TMDUNR15**	40	50,0	27,0	300	–	1/4-18 NPT	-9.0	-5.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1098108	**A50UMDUNR15**	50	63,0	35,0	350	–	1/4-18 NPT	-7.0	-5.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
sinistro																
1098779	**A25RMDUNL11**	25	32,0	17,0	200	40,0	1/4-18 NPT	-14.0	-5.0	DN..110408	–	**KLM33L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1098103	**A25RMDUNL15**	25	32,0	17,0	200	–	1/4-18 NPT	-14.0	-5.0	DN..150408	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM11**	3 mm
1098780	**A32SMDUNL11**	32	40,0	22,0	250	50,0	1/4-18 NPT	-12.0	-5.0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1098105	**A32SMDUNL15**	32	40,0	22,0	250	–	1/4-18 NPT	-12.0	-6.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1098107	**A40TMDUNL15**	40	50,0	27,0	300	–	1/4-18 NPT	-9.0	-5.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1098109	**A50UMDUNL15**	50	63,0	35,0	350	–	1/4-18 NPT	-7.0	-5.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm

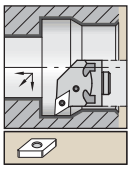
Con adduzione interna di refrigerante.



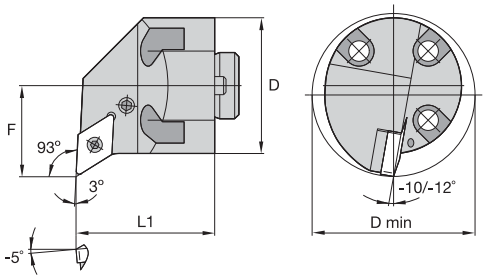
H-MDUN 93°

numero d'ordine	codice catalogo	D	D min	F	L1	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro												
1099094	**H40MDUNR15**	40	50,0	27,0	41	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
sinistro												
3612192	**H50MDUNL19**	50	63,0	35,0	41	DN..190612	**IDSN533**	**KLM58**	3 mm	**CKM12**	**STCM4**	4 mm

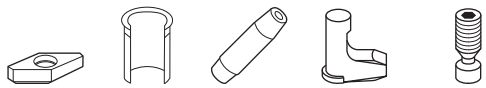
Testine di barenatura Kenlever™



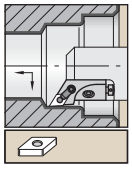
Codolo in acciaio con refrigerante interno.

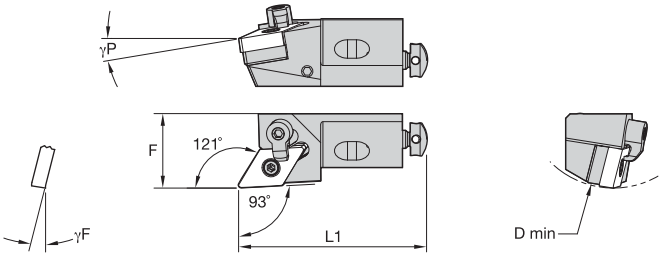


H-PDUN 93°



numero d'ordine	codice catalogo	D	D min	F	L1	inserto di riferimento	supporto	perno supporto	perno	leva	vite di bloccaggio	Torx Plus
destro												
1861496	**H32PDUNR15**	32	43,0	25,0	41	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1861519	**H50PDUNR15**	50	63,0	35,0	41	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
sinistro												
1861520	**H50PDUNL15**	50	63,0	35,0	41	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP



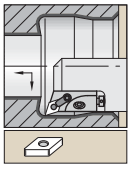


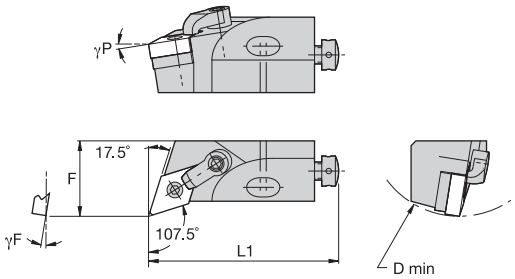
MDJN 93°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
3346241	**MDJNR12CA11**	50	20,0	55	-9.0	-9.0	DN..110408/DN..322
3330275	**MDJNR16CA15**	60	25,0	63	-9.0	-9.0	DN..150408/DN..432
3330199	**MDJNR20CA15**	70	25,0	70	-8.5	-8.5	DN..150408/DN..3.532
sinistro							
3346240	**MDJNL12CA11**	50	20,0	55	-9.0	-9.0	DN..110408/DN..322
3330274	**MDJNL16CA15**	60	25,0	63	-9.0	-9.0	DN..150408/DN..432

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**–**	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**IDSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**IDSN432**	**KLM46**	2.5 mm	**CKM41**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**





MDQN 107,5°

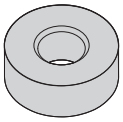
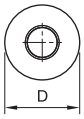
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
3330277	**MDQNR16CA15**	60	25,0	63	-9.0	-6.0	DN..150408/DN..432
3330201	**MDQNR20CA15**	70	25,0	70	-9.0	-8.0	DN..150408/DN..432
sinistro							
3330276	**MDQNL16CA15**	60	25,0	63	-9.0	-6.0	DN..150408/DN..432
3330200	**MDQNL20CA15**	70	25,0	70	-9.0	-8.0	DN..150408/DN..432

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
60	**IDSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**IDSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

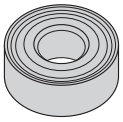
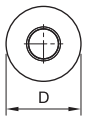
● prima scelta
○ scelta alternativa

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

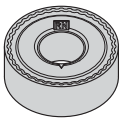
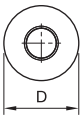
RNMA

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
RNMA120400	12,70	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
RNMA150600	15,88	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

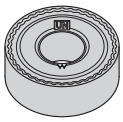
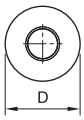
RNMG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
RNMG190600	19,05	—	—	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

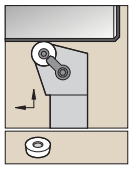
RNMG-RN

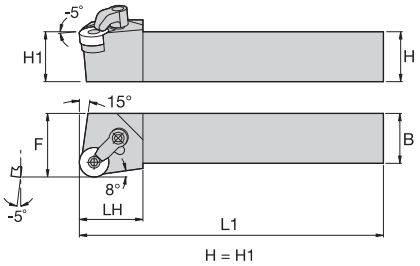
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
RNMG090300RN	9,53	—	—	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RNMG120400RN	12,70	—	—	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
RNMG150600RN	15,88	—	—	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RNMG190600RN	19,05	—	—	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
RNMG250900RN	25,40	—	—	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

RNMG-UN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
RNMG120400UN	12,70	—	—	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



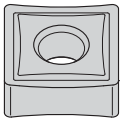


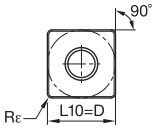
MRGN

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1102086	**MRGNR2525M12**	25	25	32,0	150	32,0	RN..120400	**IRSN43**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
sinistro													
1102699	**MRGNL2525M12**	25	25	32,0	150	32,0	RN..120400	**IRSN43**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm

● prima scelta
○ scelta alternativa

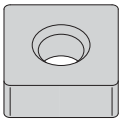
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

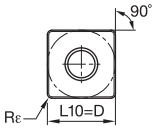




SNGP

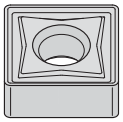
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNGP120404	12,70	12,70	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
SNGP120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

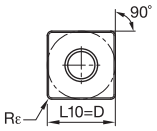




SNMA

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMA120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMA120412	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMA150612	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMA190612	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMA190616	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

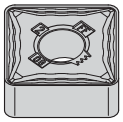


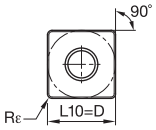


SNMG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
SNMG120412	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMG190612	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
SNMG190616	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG250924	25,40	25,40	2,4	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

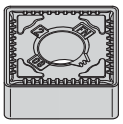
● prima scelta
○ scelta alternativa

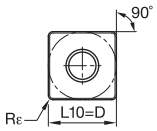




SNMG-FF

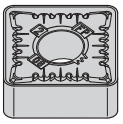
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P										○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
				M								○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K	○	○	○	○	○	○					●	●	●	●	●	●						●	●	●	●	●	●	●		●
				N																							●	●	●	●	●	●	●	
				S																							●	●	●	●	●	●		
				H																														
SNMG090304FF	9,53	9,53	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
SNMG090308FF	9,53	9,53	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
SNMG120408FF	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

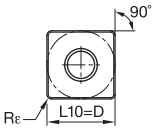




SNMG-FN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090308FN	9,53	9,53	0,8	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120404FN	12,70	12,70	0,4	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408FN	12,70	12,70	0,8	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
SNMG120412FN	12,70	12,70	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416FN	12,70	12,70	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



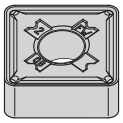


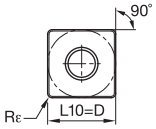
SNMG-FP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120404FP	12,70	12,70	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–
SNMG120408FP	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	–	–	–	–

● prima scelta
○ scelta alternativa

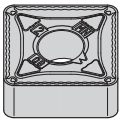
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

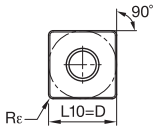




SNMG-FW

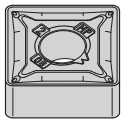
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408FW	12,70	12,70	0,8	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412FW	12,70	12,70	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

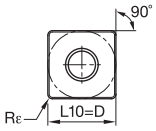




SNMG-MN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090308MN	9,53	9,53	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG090312MN	9,53	9,53	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120404MN	12,70	12,70	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408MN	12,70	12,70	0,8	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412MN	12,70	12,70	1,2	–	–	●	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416MN	12,70	12,70	1,6	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612MN	15,88	15,88	1,2	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150616MN	15,88	15,88	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612MN	19,05	19,05	1,2	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616MN	19,05	19,05	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

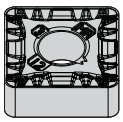


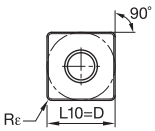


SNMG-MP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MP	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	●	–	●	–	–	–
SNMG120412MP	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	●	●	–	–	–
SNMG120416MP	12,70	12,70	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–
SNMG150608MP	15,88	15,88	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612MP	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
SNMG150616MP	15,88	15,88	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
SNMG190612MP	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–
SNMG190616MP	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

● prima scelta
○ scelta alternativa

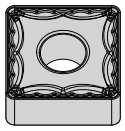


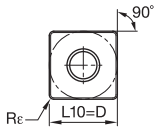


SNMG-MR

P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●	●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●						●	●	●	●	●	●	●		●
N																							●	●	●	●	●	●	●	
S																							●	●	●	●	●	●		
H																														

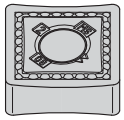
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MR	12,70	12,70	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–
SNMG120412MR	12,70	12,70	1,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
SNMG150612MR	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–

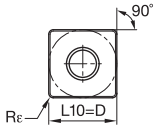




SNMG-MG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120416MG	12,70	12,70	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



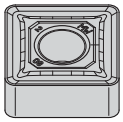


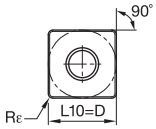
SNMG-MS

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MS	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
SNMG120412MS	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
SNMG150608MS	15,88	15,88	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
SNMG150612MS	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
SNMG190612MS	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–

● prima scelta
○ scelta alternativa

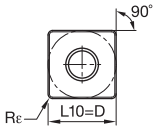
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															





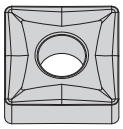
SNMG-MW

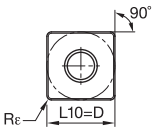
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MW	12,70	12,70	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412MW	12,70	12,70	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



SNMG-P

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120412P	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–



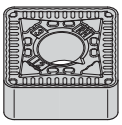


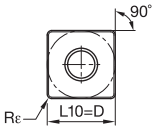
SNMG-RM

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG250924RM	25,40	25,40	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

● prima scelta
○ scelta alternativa

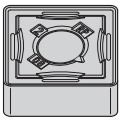
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

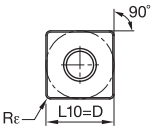




SNMG-RN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090412RN	9,53	9,53	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408RN	12,70	12,70	0,8	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412RN	12,70	12,70	1,2	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG120416RN	12,70	12,70	1,6	–	–	●	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150608RN	15,88	15,88	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612RN	15,88	15,88	1,2	–	–	●	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG150616RN	15,88	15,88	1,6	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG190608RN	19,05	19,05	0,8	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612RN	19,05	19,05	1,2	–	–	●	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616RN	19,05	19,05	1,6	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG190624RN	19,05	19,05	2,4	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG250924RN	25,40	25,40	2,4	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



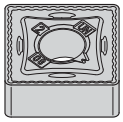


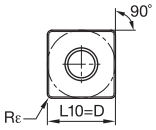
SNMG-RP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408RP	12,70	12,70	0,8	–	●	–	●	●	●	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	●	–	–	–	●	●	●	●	–	–
SNMG120412RP	12,70	12,70	1,2	–	●	●	●	●	●	–	●	–	●	–	●	●	●	–	●	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
SNMG120416RP	12,70	12,70	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
SNMG150612RP	15,88	15,88	1,2	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–
SNMG150616RP	15,88	15,88	1,6	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–
SNMG190612RP	19,05	19,05	1,2	–	–	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	●	●	●	●	–	–
SNMG190616RP	19,05	19,05	1,6	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	●	–	–	●	●	–	–	●	–	–	●	●	–	●	–	–

● prima scelta
○ scelta alternativa

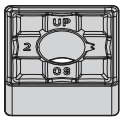
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

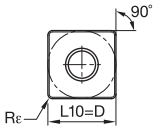




SNMG-UN

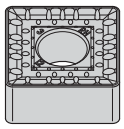
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408UN	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412UN	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416UN	12,70	12,70	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612UN	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150616UN	15,88	15,88	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612UN	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616UN	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

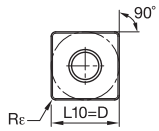




SNMG-UP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408UP	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–
SNMG120412UP	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–
SNMG150612UP	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–



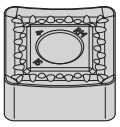


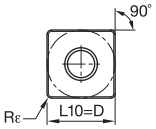
SNMM-RH

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM190612RH	19,05	19,05	1,2	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RH	19,05	19,05	1,6	–	–	–	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RH	19,05	19,05	2,4	–	–	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RH	25,40	25,40	2,4	–	–	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RH	25,40	25,40	2,4	–	–	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

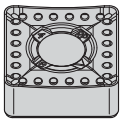
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

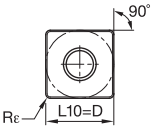




SNMM-RM

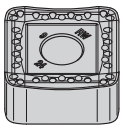
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM120408RM	12,70	12,70	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM120412RM	12,70	12,70	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150612RM	15,88	15,88	1,2	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150616RM	15,88	15,88	1,6	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190612RM	19,05	19,05	1,2	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RM	19,05	19,05	1,6	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RM	19,05	19,05	2,4	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RM	25,40	25,40	2,4	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RM	25,40	25,40	2,4	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

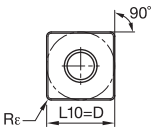




SNMM-RP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM120408RP	12,70	12,70	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–
SNMM120412RP	12,70	12,70	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMM150612RP	15,88	15,88	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150616RP	15,88	15,88	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMM190612RP	19,05	19,05	1,2	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RP	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RP	19,05	19,05	2,4	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RP	25,40	25,40	2,4	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RP	25,40	25,40	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–



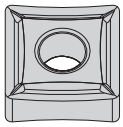


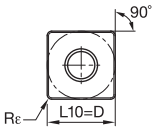
SNMM-RW

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM190624RW	19,05	19,05	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RW	25,40	25,40	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

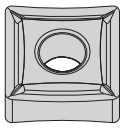
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

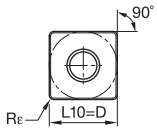




SNMP

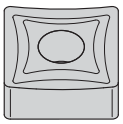
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMP190612	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–

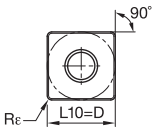




SNMP-K

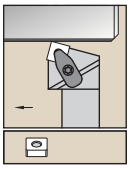
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMP120408K	12,70	12,70	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

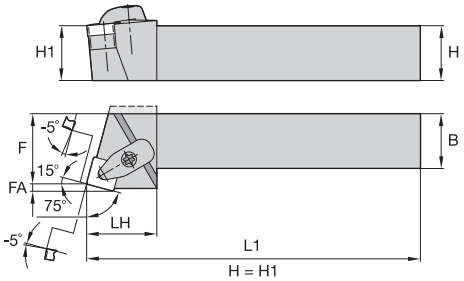


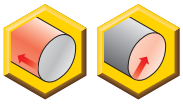


SNMS

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMS120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMS190612	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

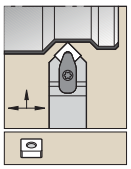


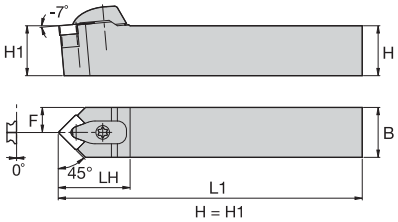




DSBN-KC 75°

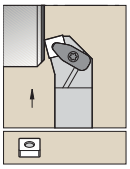
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
sinistro															
1875215	**DSBNL2525M12KC04**	25	25	22,0	150	32,0	3,0	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

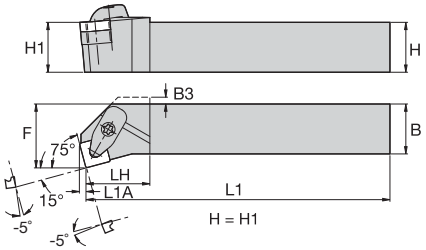


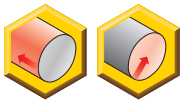


DSDN-KC 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
1875210	**DSDNN2020K12KC04**	20	20	10,0	125	36,0	SN..120408	**ISSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875211	**DSDNN2525M12KC04**	25	25	12,0	150	36,0	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875216	**DSDNN2525M15KC06**	25	25	12,0	150	42,0	SN..150612	**ISSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
2273139	**DSDNN3232P19KC06**	32	32	15,5	170	44,0	SN..190612	**ISSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
2456320	**DSDNN4040S25KC09**	40	40	19,5	250	59,0	SN..250924	**ISSN846**	**KMSP825IP**	25 IP	**CM236R ASSY**	25 IP	**SSP025018M**	**KLM81025IP**

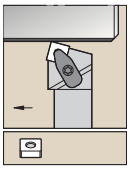


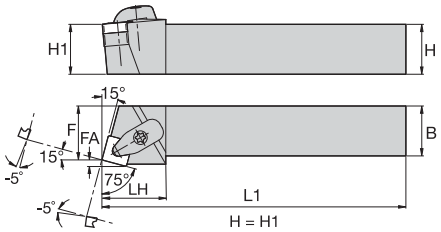


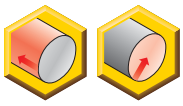


DSKN-KC 75°

numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	B3	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro																
1875219	**DSKNR2525M12KC04**	25	25	32,0	150	32,0	3,1	4,0	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
sinistro																
1875220	**DSKNL2525M12KC04**	25	25	32,0	150	32,0	3,1	4,0	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

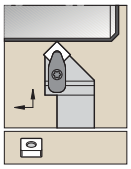


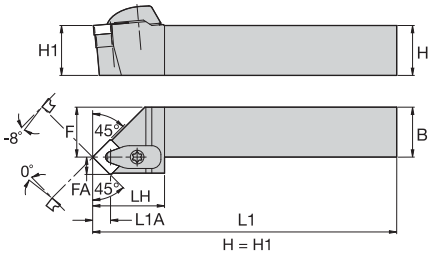




DSRN-KC 75°

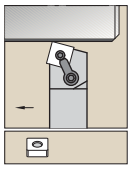
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro															
1875228	**DSRNR2525M12KC04**	25	25	27,0	150	32,0	3,3	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2456321	**DSRNR4040S25KC09**	40	40	43,0	250	52,0	6,1	SN..250924	**ISSN846**	**KMSP825IP**	25 IP	**CM236R ASSY**	25 IP	**SSP025018M**	**KLM81025IP**
sinistro															
2456322	**DSRNL4040S25KC09**	40	40	43,0	250	52,0	6,1	SN..250924	**ISSN846**	**KMSP825IP**	25 IP	**CM236R ASSY**	25 IP	**SSP025018M**	**KLM81025IP**

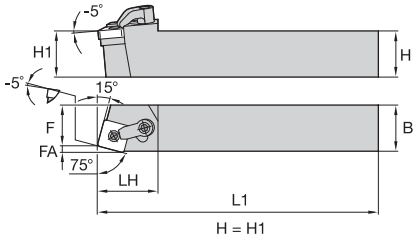


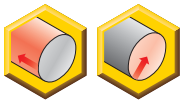


DSSN-KC 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro																
1875202	**DSSNR2020K12KC04**	20	20	25,0	125	36,0	8,4	8,7	SN..120408	**ISSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875195	**DSSNR2525M12KC04**	25	25	32,0	150	36,0	8,4	9,6	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273156	**DSSNR3225P12KC04**	32	25	32,0	170	35,4	8,4	8,7	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
sinistro																
1875203	**DSSNL2525M12KC04**	25	25	32,0	150	36,0	8,4	8,7	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

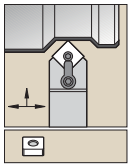


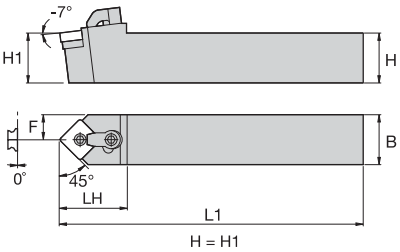




MSBN 75°

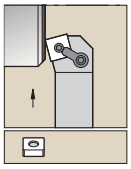
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro														
1101893	**MSBNR3232P19**	32	32	27,0	170	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1101954	**MSBNR4040R19**	40	40	35,0	200	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1100937	**MSBNR2020K12**	61	20	17,0	125	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101359	**MSBNR2525M15**	80	25	22,0	150	35,0	3,8	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1100941	**MSBNR2525M12**	86	25	22,0	150	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101361	**MSBNR3232P15**	100	32	27,0	170	35,0	3,8	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101289	**MSBNR3225P12**	106	32	22,0	170	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
sinistro														
1102640	**MSBNL3232P19**	32	32	27,0	170	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1099148	**MSBNL4040R19**	40	40	35,0	200	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102242	**MSBNL2020K12**	61	20	17,0	125	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102318	**MSBNL2525M15**	80	25	22,0	150	35,0	3,8	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102243	**MSBNL2525M12**	86	25	22,0	150	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102319	**MSBNL3232P15**	100	32	27,0	170	35,0	3,8	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102314	**MSBNL3225P12**	106	32	22,0	170	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm

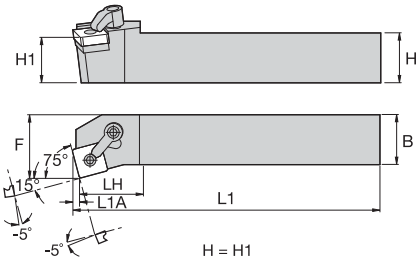


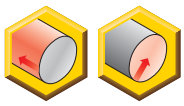


MSDN 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
1101891	**MSDNN2525M12**	25	25	12,0	150	32,0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101889	**MSDNN1616H09**	44	16	8,0	100	28,0	SN..090308	**ISSN332**	**KLM34L**	2 mm	**CKM19**	**STCM9**	2.5 mm
1101890	**MSDNN2020K12**	61	20	10,0	125	32,0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101892	**MSDNN2525M15**	80	25	12,5	150	35,0	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101888	**MSDNN3232P19**	86	32	16,0	170	42,0	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1101713	**MSDNN3225P12**	106	32	12,5	170	32,0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm

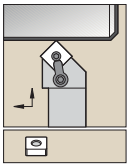


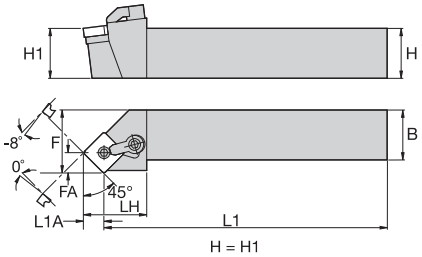




MSKN 75°

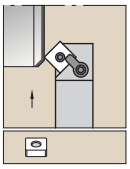
numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro														
1101886	**MSKNR2525M12**	25	25	32,0	150	32,0	3,1	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101957	**MSKNR3232P19**	32	32	40,0	170	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
sinistro														
1102637	**MSKNL2525M12**	25	25	32,0	150	32,0	3,1	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102638	**MSKNL3225P12**	32	25	32,0	170	32,0	3,1	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1099158	**MSKNL3232P15**	32	32	40,0	170	35,0	3,7	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102641	**MSKNL3232P19**	32	32	40,0	170	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm

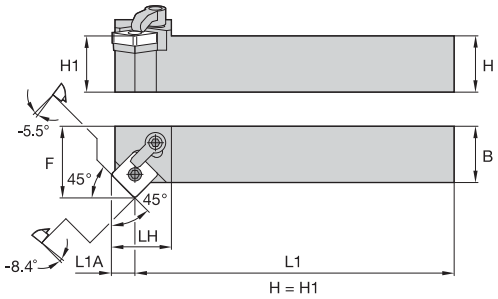




MSSN 45°

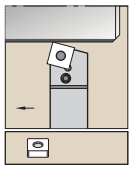
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro															
1102166	**MSSNR3232P19**	32	32	40,0	170	40,0	12,5	12,5	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102164	**MSSNR2020K12**	71	20	25,0	125	32,0	8,4	9,6	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102165	**MSSNR2525M12**	96	25	32,0	150	32,0	8,4	9,6	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
sinistro															
1102717	**MSSNL2020K12**	20	20	25,0	125	32,0	8,4	8,3	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102719	**MSSNL3232P19**	32	32	40,0	170	40,0	12,5	12,5	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102718	**MSSNL2525M12**	96	25	32,0	150	32,0	8,4	9,6	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm

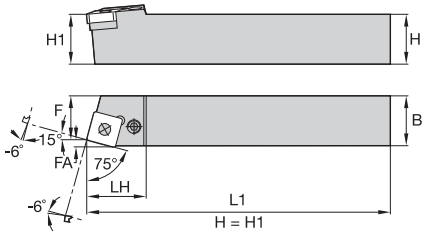


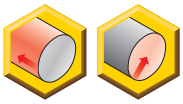


MSZN 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro														
1101884	**MSZNR2525M12**	25	25	32,0	150	25,0	8,5	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
sinistro														
1102634	**MSZNL2525M12**	25	25	32,0	150	25,0	8,5	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm

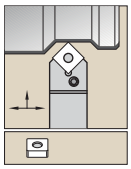


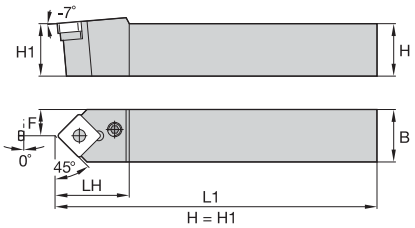




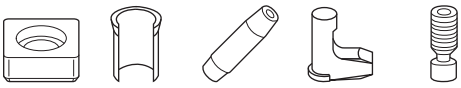
PSBN 75°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro														
1244833	**PSBNR2020K12**	20	20	17,0	125	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244677	**PSBNR2525M12**	25	25	22,0	150	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244834	**PSBNR2525M15**	25	25	22,0	150	36,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244678	**PSBNR3225P12**	32	25	22,0	170	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244680	**PSBNR3232P15**	32	32	27,0	170	33,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244681	**PSBNR3232P19**	32	32	27,0	170	40,0	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244682	**PSBNR4040S19**	40	40	35,0	250	38,0	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244683	**PSBNR4040S25**	40	40	35,0	250	47,0	5,9	SN..250724	**512.092**	**513.038**	**515.028**	**511.038**	**514.138**	30 IP
sinistro														
1244774	**PSBNL2020K12**	20	20	17,0	125	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244668	**PSBNL2525M12**	25	25	22,0	150	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244669	**PSBNL2525M15**	25	25	22,0	150	36,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244672	**PSBNL3232P15**	32	32	27,0	170	33,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244673	**PSBNL3232P19**	32	32	27,0	170	40,0	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244674	**PSBNL4040S19**	40	40	35,0	250	38,0	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244675	**PSBNL4040S25**	40	40	35,0	250	47,0	5,9	SN..250724	**512.092**	**513.038**	**515.028**	**511.038**	**514.138**	30 IP

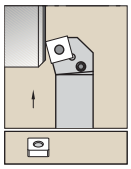


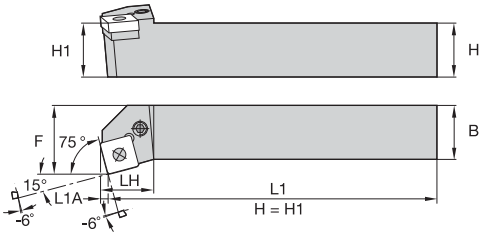


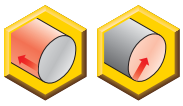
PSDN 45°



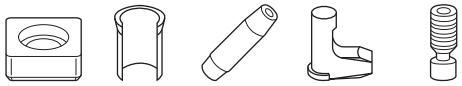
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
1244686	**PSDNN1616H09**	16	16	8,0	100	22,0	SN..090308	**512.053**	**513.019**	**515.018**	**511.018**	**514.118**	10 IP
1244863	**PSDNN2020K12**	20	20	10,0	125	26,0	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1156970	**PSDNN2525M12**	25	25	12,5	150	26,0	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244687	**PSDNN3225P12**	32	25	12,5	170	28,0	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244688	**PSDNN3225P19**	32	25	12,5	170	40,0	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244835	**PSDNN3232P19**	32	32	16,0	170	40,0	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1147356	**PSDNN4040S25**	40	40	20,0	250	50,0	SN..250724	**512.092**	**513.038**	**515.028**	**511.038**	**514.138**	30 IP



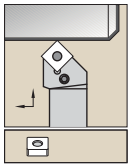


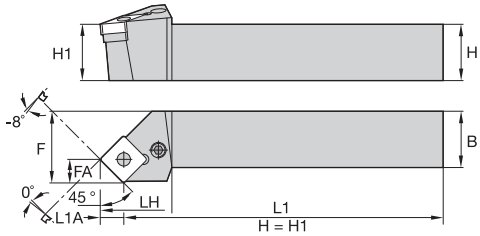


PSKN 75°



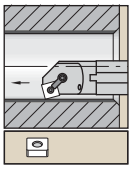
numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro														
1244699	**PSKNR2020K12**	20	20	25,0	125	23,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244836	**PSKNR2525M12**	25	25	32,0	150	23,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244701	**PSKNR3232P15**	32	32	40,0	170	32,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244702	**PSKNR3232P19**	32	32	40,0	170	37,5	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
sinistro														
1244690	**PSKNL2525M12**	25	25	32,0	150	23,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244693	**PSKNL3232P19**	32	32	40,0	170	37,5	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP



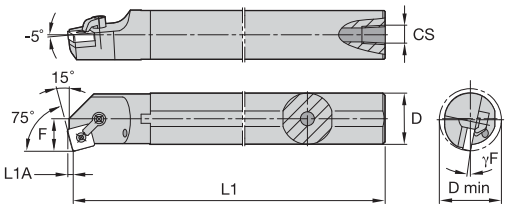


PSSN 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro															
1244718	**PSSNR2020K09**	20	20	25,0	125	26,0	6,1	6,1	SN..090308	**512.053**	**513.019**	**515.018**	**511.018**	**514.118**	10 IP
1244837	**PSSNR2020K12**	20	20	25,0	125	28,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1156961	**PSSNR2525M12**	25	25	32,0	150	28,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244719	**PSSNR2525M15**	25	25	32,0	150	32,0	10,2	10,2	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244720	**PSSNR3225P12**	32	25	32,0	170	29,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244722	**PSSNR3232P15**	32	32	40,0	170	32,0	10,0	11,5	SN..150612	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244838	**PSSNR3232P19**	32	32	40,0	170	37,5	12,5	12,5	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244723	**PSSNR4040S19**	40	40	50,0	250	37,5	12,5	12,5	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
sinistro															
1244709	**PSSNL2020K12**	20	20	25,0	125	28,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244789	**PSSNL2525M12**	25	25	32,0	150	28,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244710	**PSSNL2525M15**	25	25	32,0	150	32,0	10,2	10,2	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244711	**PSSNL3225P12**	32	25	32,0	170	29,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244714	**PSSNL3232P19**	32	32	40,0	170	37,5	12,5	12,5	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244715	**PSSNL4040S19**	40	40	50,0	250	37,5	12,5	12,5	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP

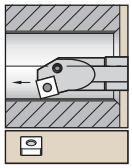


Codolo in acciaio con refrigerante interno.

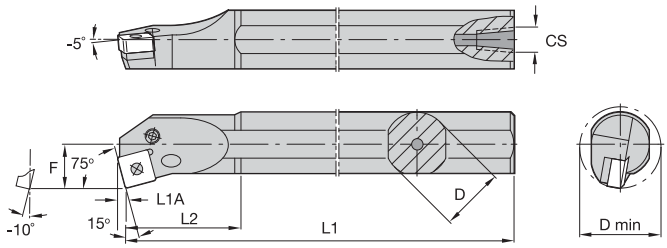


A-MSKN 75°

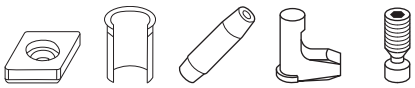
numero d'ordine	codice catalogo	D	D min	F	L1	L1A	CS	γF°	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro															
1098116	**A40TMSKNR12**	40	50,0	27,0	300	3,1	1/4-18 NPT	-10.0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098120	**A50UMSKNR19**	50	63,0	35,0	350	4,6	1/4-18 NPT	-12.0	SN..190608	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
sinistro															
1098115	**A32SMSKNL12**	32	40,0	22,0	250	3,1	1/4-18 NPT	-14.0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098117	**A40TMSKNL12**	40	50,0	27,0	300	3,1	1/4-18 NPT	-10.0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm



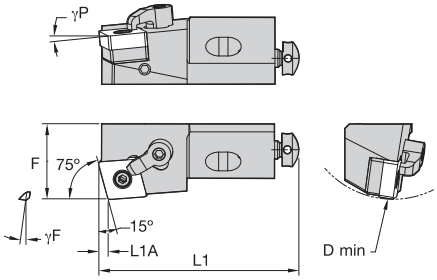
Codolo in acciaio con refrigerante interno.



A-PSKN 75°



numero d'ordine	codice catalogo	D	D min	F	L1	L2	L1A	CS	inserto di riferimento	supporto	perno supporto	perno	leva	vite di bloccaggio	Torx Plus
destro															
2447480	**A25TPSKNR12**	25	30,0	17,0	300	43	3,0	1/4-18 NPT	SN..120408	**–**	**–**	**–**	**511.022**	**514.122**	10 IP
2447482	**A32UPSKNR12**	32	40,0	22,0	350	52	3,0	1/4-18 NPT	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.124**	15 IP



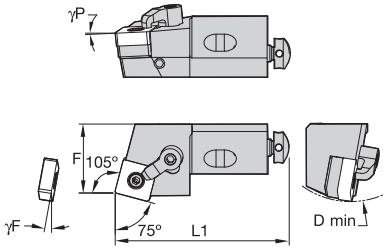
MSKN 75°

numero d'ordine	codice catalogo	D min	F	L1	L1A	γF°	γP°	inserto di riferimento
destro								
2114011	**MSKNR10CA09**	40	14,0	50	2,2	-9.0	-5.0	SN..090308/SN..322
2114013	**MSKNR12CA12**	50	20,0	55	3,0	-9.0	-5.0	SN..120408/SN..432
2074430	**MSKNR16CA12**	60	25,0	63	3,0	-9.0	-5.0	SN..120408/SN..432
2072222	**MSKNR20CA15**	70	25,0	70	3,7	-9.0	-5.0	SN..150612/SN..543
2987166	**MSKNR25CA19**	100	32,0	100	4,6	-9.0	-5.0	SN..190612/SN..543
sinistro								
3346242	**MSKNL12CA12**	50	20,0	55	3,0	-9.0	-5.0	SN..120408/SN..432
3330202	**MSKNL20CA15**	70	25,0	70	3,7	-9.0	-5.0	SN..150612/SN..543

NOTA: I ricambi selezionati si basano sul diametro minimo e sulla dimensione dell'inserto selezionata.

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	vite di montaggio	hex	rondella
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	**–**	4 mm	**CSWM 060 050**
60	**ISSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	**–**	5 mm	**CSWM 080 050**
70	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	**–**	5 mm	**CSWM 080 050**
100	**ISSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	**–**	**–**	**MS364**	8 mm	**CSWM 100 080**

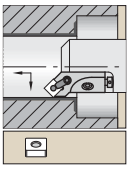


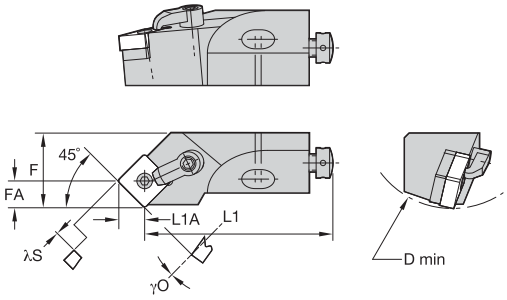
MSRN 75°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098436	**MSRNR10CA09**	40	14,0	50	-9.0	-5.0	SN..090308/SN..322
2078231	**MSRNR12CA12**	50	20,0	55	-9.0	-5.0	SN..120408/SN..432
2074432	**MSRNR16CA12**	60	25,0	63	-9.0	-5.0	SN..120408/SN..432
sinistro							
1282803	**MSRNL12CA12**	50	20,0	55	-9.0	-5.0	SN..120408/SN..432
3330279	**MSRNL16CA12**	60	25,0	63	-9.0	-5.0	SN..120408/SN..432
3330203	**MSRNL20CA15**	70	25,0	70	-9.0	-5.0	SN..150612/SN..543

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
60	**ISSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**
70	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**



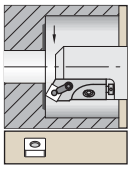


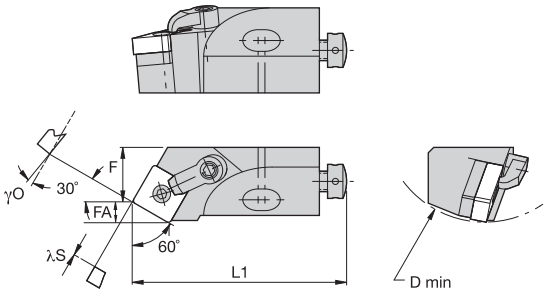
MSSN 45°

numero d'ordine	codice catalogo	D min	F	L1	L1A	λS°	γO°	inserto di riferimento
destro								
1339367	**MSSNR10CA09**	40	14,0	44	6,1	-13.0	0.0	SN..090308/SN..322
1282807	**MSSNR12CA12**	50	20,0	47	8,3	-13.0	0.0	SN..120408/SN..432
3330281	**MSSNR16CA12**	60	25,0	53	8,3	-13.0	0.0	SN..120408/SN..432
3330206	**MSSNR20CA15**	70	25,0	60	10,3	-13.0	0.0	SN..150612/SN..543
sinistro								
2071758	**MSSNL10CA09**	40	14,0	44	6,1	-13.0	0.0	SN..090308/SN..322
2071739	**MSSNL12CA12**	50	20,0	47	8,3	-13.0	0.0	SN..120408/SN..432

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazi-one assiale	vite di montaggio	vite di montaggio	hex	rondella
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
60	**ISSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**
70	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**

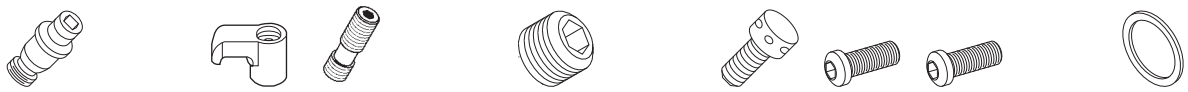




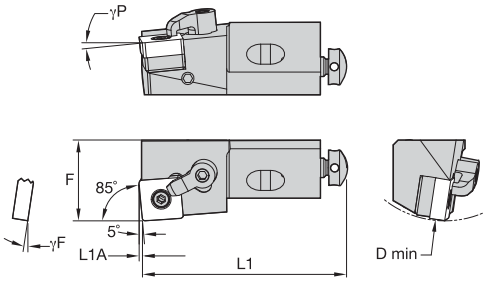
MSTN 60°

numero d'ordine	codice catalogo	D min	F	L1	FA	λS°	γO°	inserto di riferimento
destro								
3331149	**MSTNR10CA09**	40,0	9,0	50	13,3	-11.0	0.0	SN..090308/SN..322
2074904	**MSTNR12CA12**	50,0	13,0	55	5,9	-11.0	0.0	SN..120408/SN..432

Parti di ricambio



D min	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
40	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**



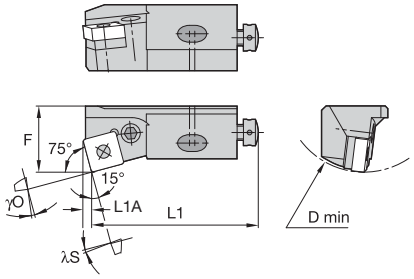
MSYN 85°

numero d'ordine	codice catalogo	D min	F	L1	L1A	γF°	γP°	inserto di riferimento
destro								
2114015	**MSYNR10CA09**	40	14,0	50	0,8	-9.0	-5.0	SN..090308/SN..322
3346274	**MSYNR12CA12**	50	20,0	55	1,0	-9.0	-5.0	SN..120408/SN..432
3330283	**MSYNR16CA12**	60	25,0	63	1,0	-9.0	-5.0	SN..120408/SN..432
1098465	**MSYNR25CA19**	100	32,0	100	1,5	-9.0	-5.0	SN..190612/SN..643
sinistro								
3331150	**MSYNL10CA09**	40	14,0	50	0,8	-9.0	-5.0	SN..090308/SN..322
3346273	**MSYNL12CA12**	50	20,0	55	1,0	-9.0	-5.0	SN..120408/SN..432
1098691	**MSYNL20CA15**	70	25,0	70	1,3	-9.0	-5.0	SN..150612/SN..543

NOTA: I ricambi selezionati si basano sul diametro minimo e sulla dimensione dell'inserto selezionata.

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	vite di montaggio	hex	rondella
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	**–**	4 mm	**CSWM 060 050**
60	**ISSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	**–**	5 mm	**CSWM 080 050**
70	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM33**	**–**	**191.407**	**–**	6 mm	**CSWM 080 050**
100	**ISSN633**	**KLM68**	4 mm	**CKM34**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM33**	**–**	**–**	**MS364**	8 mm	**CSWM 100 080**

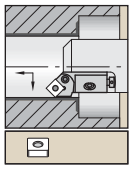


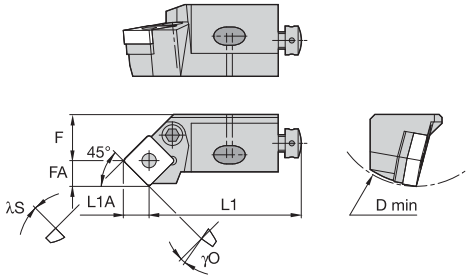
PSKN 75°

numero d'ordine	codice catalogo	D min	F	L1	L1A	λS°	γO°	inserto di riferimento
destro								
1188639	**PSKNR12CA-12**	50	20,0	55	3,1	-8.0	-6.0	SN..120408/SN..432

Parti di ricambio

D min	leva	vite di bloccaggio	dimensione chiave vite di bloccaggio	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**511.022**	**514.122**	10 IP	**KUAM28**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**





PSSN 45°

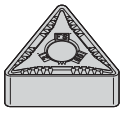
numero d'ordine	codice catalogo	D min	F	L1	FA	L1A	λS°	γO°	γP°	inserto di riferimento
destro										
1244455	**PSSNR12CA-12**	50,0	20,0	47	8,7	8,3	-10.0	0.0	—	SN..120408/SN..432
sinistro										
1244452	**PSSNL12CA12**	50,0	11,3	47	8,7	8,3	0.0	0.0	-10.0 deg	SN..120408/SN..432

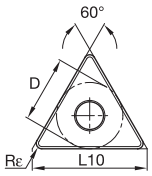
Parti di ricambio

D min	leva	vite di bloccaggio	dimensione chiave vite di bloccaggio	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**511.022**	**514.122**	10 IP	**KUAM28**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

● prima scelta
○ scelta alternativa

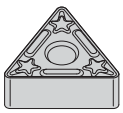
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

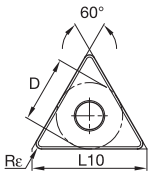




TNGG-FS

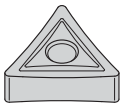
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNGG160402FS	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–
TNGG160404FS	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–
TNGG220408FS	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

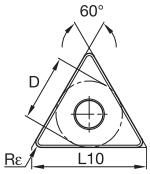




TNGG-LF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNGG160402LF	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TNGG160404LF	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TNGG160408LF	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–



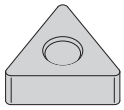


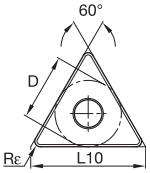
TNGP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNGP160402	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TNGP160404	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
TNGP160408	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–

● prima scelta
○ scelta alternativa

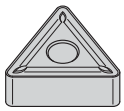
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

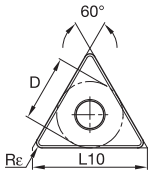




TNMA

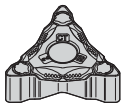
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMA160408	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMA160412	9,53	16,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA160416	9,53	16,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA220408	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMA220412	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA270616	15,88	27,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

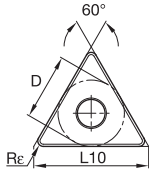




TNMG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG220412	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMG330924	19,05	33,00	2,4	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





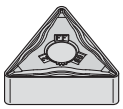
TNMG-CT

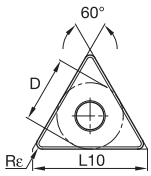
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408CT	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–

Tornitura ISO

● prima scelta
○ scelta alternativa

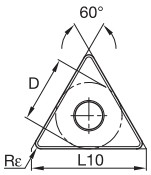
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															





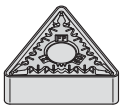
TNMG-FF

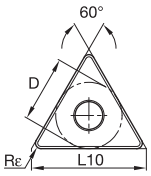
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG110304FF	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG110308FF	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TNMG160404FF	9,53	16,50	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FF	9,53	16,50	0,8	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●



TNMG-FN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG110304FN	6,35	11,00	0,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG110308FN	6,35	11,00	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160404FN	9,53	16,50	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160408FN	9,53	16,50	0,8	●	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160412FN	9,53	16,50	1,2	–	●	●	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG220404FN	12,70	22,00	0,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408FN	12,70	22,00	0,8	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412FN	12,70	22,00	1,2	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



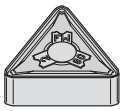


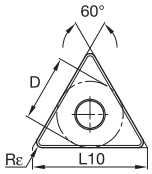
TNMG-FP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404FP	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FP	9,53	16,50	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160412FP	9,53	16,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
TNMG220404FP	12,70	22,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–
TNMG220408FP	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–

● prima scelta
○ scelta alternativa

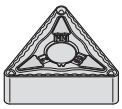
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

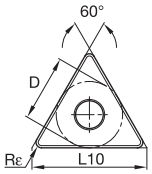




TNMG-FW

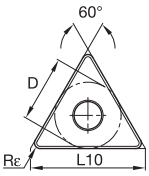
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404FW	9,53	16,50	0,2	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FW	9,53	16,50	0,4	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160412FW	9,53	16,50	1,2	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●





TNMG-MN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404MN	9,53	16,50	0,4	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160408MN	9,53	16,50	0,8	–	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MN	9,53	16,50	1,2	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220404MN	12,70	22,00	0,4	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408MN	12,70	22,00	0,8	–	–	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412MN	12,70	22,00	1,2	–	–	●	–	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

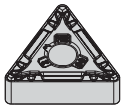


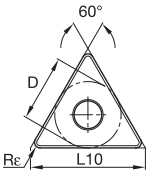
TNMG-MP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404MP	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	●	–	●	–	–	–
TNMG160408MP	9,53	16,50	0,8	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
TNMG160412MP	9,53	16,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
TNMG220408MP	12,70	22,00	0,8	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	●	–	●	–	–	–
TNMG220412MP	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–
TNMG220416MP	12,70	22,00	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

● prima scelta
○ scelta alternativa

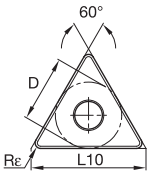
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															





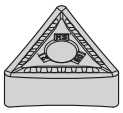
TNMG-MR

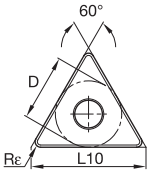
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MR	9,53	16,50	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MR	9,53	16,50	1,2	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408MR	12,70	22,00	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG220412MR	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270612MR	15,88	27,50	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



TNMG-MG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MG	9,53	16,50	0,8	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



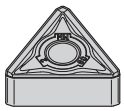


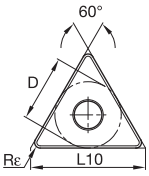
TNMG-MS

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160402MS	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG160404MS	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG160408MS	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG220404MS	12,70	22,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG220408MS	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
TNMG220412MS	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
TNMG270608MS	15,88	27,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–
TNMG270616MS	15,88	27,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

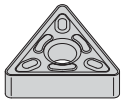
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

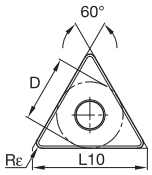




TNMG-MW

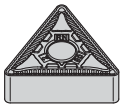
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MW	9,53	16,50	0,8	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MW	9,53	16,50	1,2	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

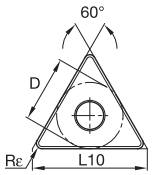




TNMG-P

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404P	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TNMG160408P	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220404P	12,70	22,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220408P	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220412P	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

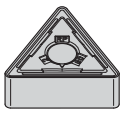


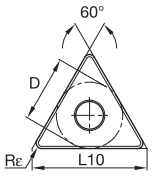


TNMG-RN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408RN	9,53	16,50	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412RN	9,53	16,50	1,2	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408RN	12,70	22,00	0,8	–	–	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412RN	12,70	22,00	1,2	–	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220416RN	12,70	22,00	1,6	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270608RN	15,88	27,50	0,8	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270612RN	15,88	27,50	1,2	–	–	●	●	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270616RN	15,88	27,50	1,6	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG330924RN	19,05	33,00	2,4	–	–	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

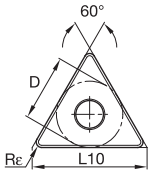
● prima scelta
○ scelta alternativa





TNMG-RP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
TNMG160408RP	9,53	16,50	0,8	–	●	●	●	●	●	–	●	–	–	–	●	–	–	–	●	–	●	–	●	–	–	–	–	–	●	●	●	●	–	–
TNMG160412RP	9,53	16,50	1,2	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	●	–	–	–	–	●	–	●	–	–
TNMG160416RP	9,53	16,50	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408RP	12,70	22,00	0,8	–	–	●	–	●	●	–	–	●	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
TNMG220412RP	12,70	22,00	1,2	–	–	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–
TNMG220416RP	12,70	22,00	1,6	–	–	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–
TNMG220432RP	12,70	22,00	3,2	–	–	●	–	●	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TNMG270612RP	15,88	27,50	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	●	●	●	–	–	–
TNMG270616RP	15,88	27,50	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
TNMG330924RP	19,05	33,00	2,4	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–

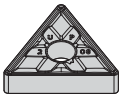


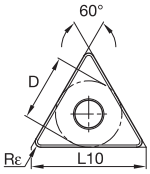
TNMG-UN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408UN	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412UN	9,53	16,50	1,2	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160416UN	9,53	16,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408UN	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412UN	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220416UN	12,70	22,00	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

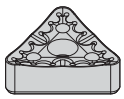
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

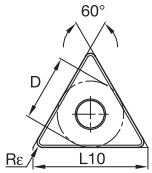




TNMG-UP

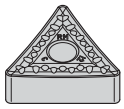
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404UP	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG160408UP	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG220408UP	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–

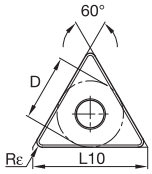




TNMM-MR

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM330924MR	19,05	33,00	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



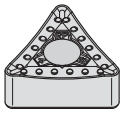


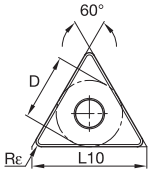
TNMM-RM

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM160408RM	9,53	16,50	0,8	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM160412RM	9,53	16,50	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220408RM	12,70	22,00	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220412RM	12,70	22,00	1,2	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220416RM	12,70	22,00	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM270612RM	15,88	27,50	1,2	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM270616RM	15,88	27,50	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

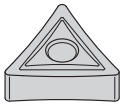
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

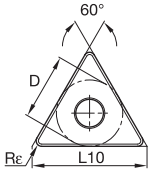




TNMM-RP

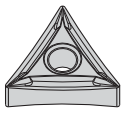
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM220408RP	12,70	22,00	0,8	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220412RP	12,70	22,00	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220416RP	12,70	22,00	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

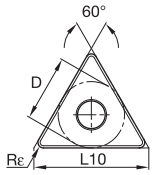




TNMP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMP160404	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
TNMP160408	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
TNMP220416	12,70	22,00	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

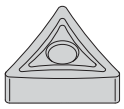


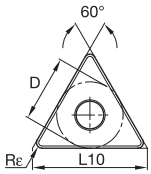


TNMP-K

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMP160404K	9,53	16,50	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMP160408K	9,53	16,50	0,8	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMP220408K	12,70	22,00	0,8	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

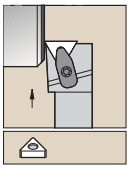


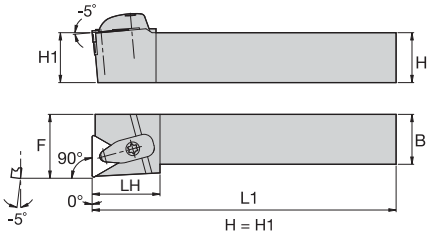


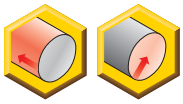
TNMS

P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMS160404	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMS160408	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMS220408	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

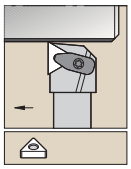


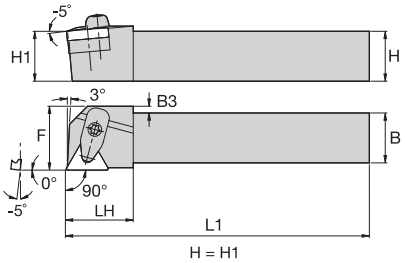


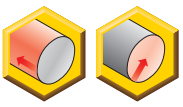


DTFN-KC 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro														
2273392	**DTFNR2020K16KC04**	20	20	25,0	125	32,0	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
sinistro														
1875233	**DTFNL2525M22KC04**	25	25	32,0	150	34,0	TN..220408	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

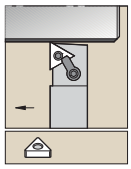


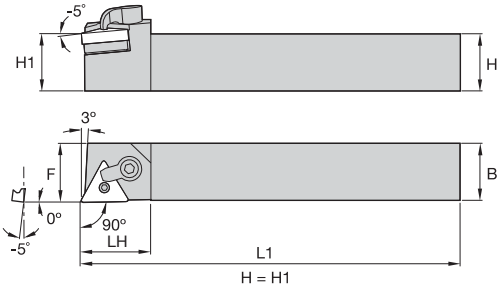




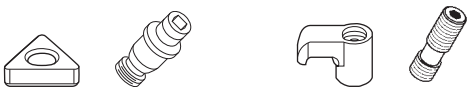
DTGN-KC 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro															
2273440	**DTGNR2020K16KC04**	20	20	25,0	125	25,0	6,5	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2273441	**DTGNR2525M16KC04**	25	25	32,0	150	25,0	—	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875222	**DTGNR2525M22KC04**	25	25	32,0	150	32,0	3,0	TN..220408	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
sinistro															
1875234	**DTGNL2525M22KC04**	25	25	32,0	150	32,0	3,0	TN..220408	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

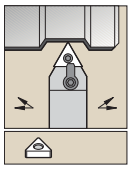


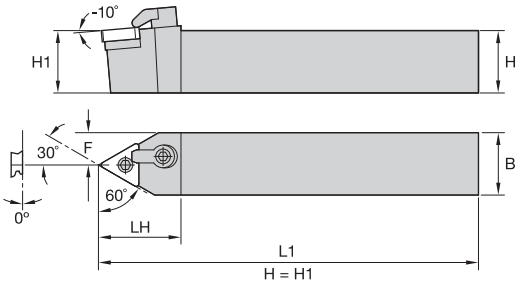


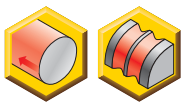
MTAN-S 90°



numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1102172	**MTANRS2020K16**	20	20	20,5	125	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102173	**MTANRS2525M16**	25	25	25,5	150	30,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
sinistro													
1102726	**MTANLS2525M16**	25	25	25,5	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm

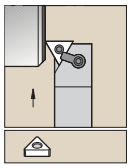


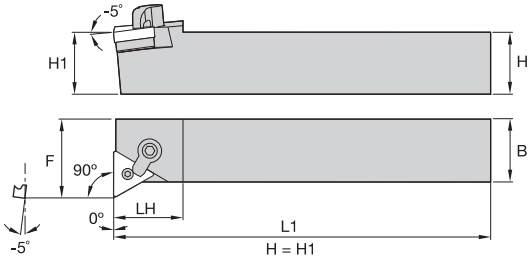




MTEN-S 60°

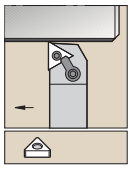
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
1102169	**MTENNS2020K16**	20	20	10,0	125	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102170	**MTENNS2525M16**	25	25	12,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102171	**MTENNS2525M22**	25	25	12,0	150	35,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm
1102168	**MTENNS3225P22**	32	25	12,0	170	35,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm

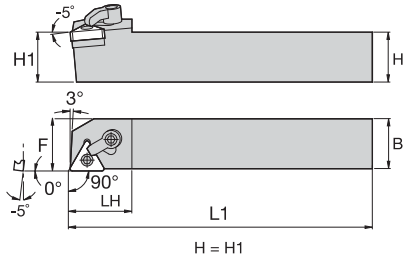




MTFN 90°

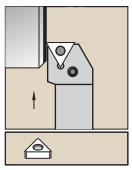
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1101961	**MTFNR2525M16**	25	25	32,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM20**	**STCM11**	3 mm
sinistro													
1102643	**MTFNL2020K16**	20	20	25,0	125	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM20**	**STCM11**	3 mm
1102694	**MTFNL2525M16**	25	25	32,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM20**	**STCM11**	3 mm

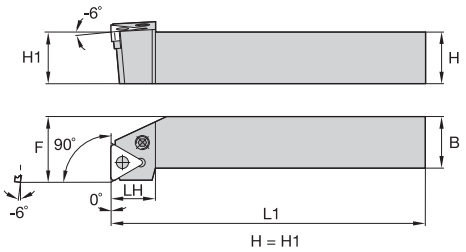


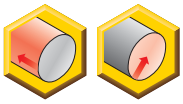


MTGN 90°

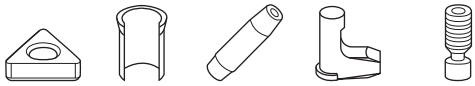
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1102091	**MTGNR2525M22**	25	25	32,0	150	32,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm
1102088	**MTGNR1616H16**	36	25	20,0	100	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM20**	**STCM11**	3 mm
1102090	**MTGNR2525M16**	86	32	32,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102093	**MTGNR3232P22**	106	32	40,0	170	32,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm
sinistro													
1102714	**MTGNL2525M16**	86	32	32,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102715	**MTGNL2525M22**	86	38	32,0	150	32,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm
1102716	**MTGNL3232P22**	106	25	40,0	170	32,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm



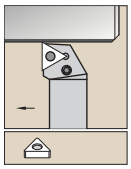


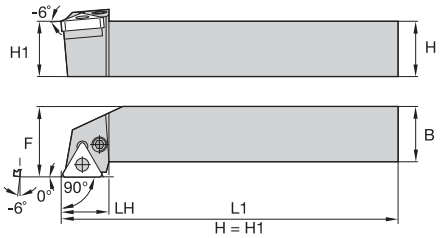


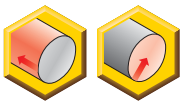
PTFN 90°



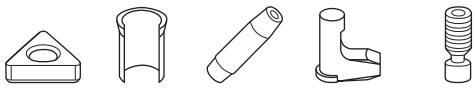
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	hex
destro													
1244843	**PTFNR2020K16**	20	20	25,0	125	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244844	**PTFNR2525M16**	25	25	32,0	150	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
sinistro													
1244839	**PTFNL2020K16**	20	20	25,0	125	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244726	**PTFNL2525M16**	25	25	32,0	150	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP



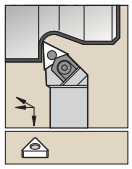


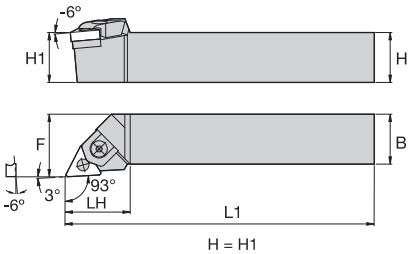


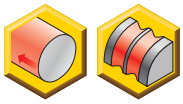
PTGN 90°



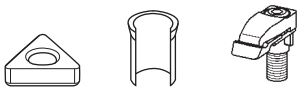
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	hex
destro													
1156972	**PTGNR1616H16**	16	16	20,0	100	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244850	**PTGNR2020K16**	20	20	25,0	125	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1192394	**PTGNR2525M16**	25	25	32,0	150	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244851	**PTGNR2525M22**	25	25	32,0	150	26,0	TN..220408	**512.023**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
sinistro													
1244791	**PTGNL1616H16**	16	16	20,0	100	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244848	**PTGNL2020K16**	20	20	25,0	125	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244792	**PTGNL2525M16**	25	25	32,0	150	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244778	**PTGNL2525M22**	25	25	32,0	150	26,0	TN..220408	**512.023**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP





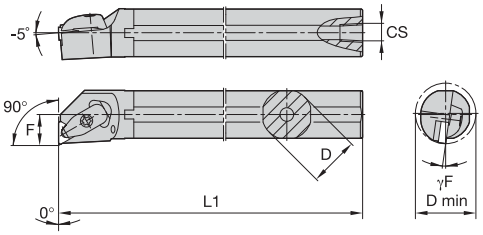


MTJN 93°



numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno supporto	gruppo staffa	hex
destro											
1192350	**MTJNR2020K16H4**	20	20	25,0	125	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1192352	**MTJNR2525M16H4**	25	25	32,0	150	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1245000	**MTJNR2525M22H4**	25	25	32,0	150	36,0	TN..220408	**512.126**	**513.126**	**551.126**	3 mm
1244998	**MTJNR3225P16H4**	32	25	32,0	170	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1244999	**MTJNR3225P22H4**	32	25	32,0	170	36,0	TN..220408	**512.126**	**513.126**	**551.126**	3 mm
sinistro											
1244996	**MTJNL2020K16H4**	20	20	25,0	125	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1245002	**MTJNL2525M16H4**	25	25	32,0	150	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1245001	**MTJNL2525M22H4**	25	25	32,0	150	36,0	TN..220408	**512.126**	**513.126**	**551.126**	3 mm
1244997	**MTJNL3225P16H4**	32	25	32,0	170	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm

Codolo in acciaio con refrigerante interno.

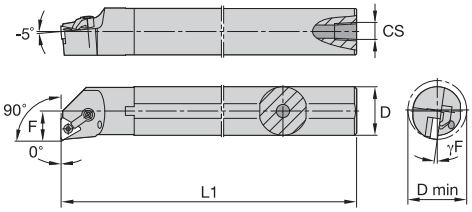


A-DTFN-KC 90°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	perno scanalato	Torx Plus
destro														
2441866	**A25RDTFNR16KC04**	25	32,0	17,0	200	1/4-18 NPT	-14.0	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441870	**A32SDTFNR16KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
sinistro														
2441869	**A25RDTFNL16KC04**	25	32,0	17,0	200	1/4-18 NPT	-14.0	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

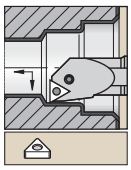
Bareni Kenloc™

Codolo in acciaio con refrigerante interno.

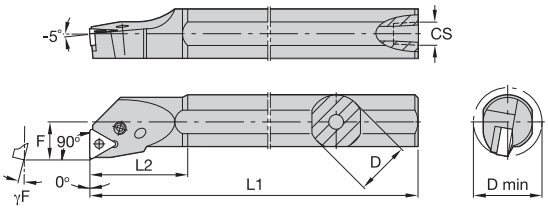


A-MTFN 90°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro														
1098121	**A25RMTFNR16**	25	32,0	17,0	200	1/4-18 NPT	-14.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1098123	**A32SMTFNR16**	32	40,0	22,0	250	1/4-18 NPT	-12.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1098125	**A40TMTFNR16**	40	50,0	27,0	300	1/4-18 NPT	-9.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
sinistro														
1098122	**A25RMTFNL16**	25	32,0	17,0	200	1/4-18 NPT	-14.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1098124	**A32SMTFNL16**	32	40,0	22,0	250	1/4-18 NPT	-12.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm

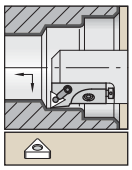


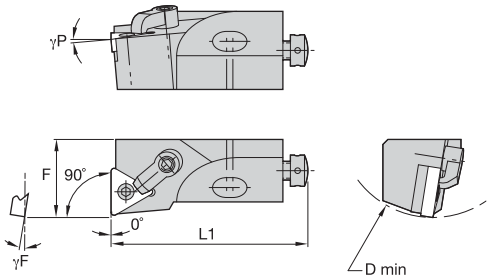
Codolo in acciaio con refrigerante interno.



A-PTFN 90°

numero d'ordine	codice catalogo	D	D min	F	L1	L2	CS	γF°	inserto di riferimento	supporto	perno supporto	perno	leva	vite di bloccaggio	Torx Plus
destro															
2447535	**A16RPTFNR11**	16	20,0	11,0	200	28	1/8-27 NPT	-14.0	TN..110304	**–**	**–**	**–**	**511.011**	**514.111**	8 IP
2447536	**A20SPTFNR11**	20	25,0	13,0	250	30	1/8-27 NPT	-12.0	TN..110304	**–**	**–**	**–**	**511.011**	**514.111**	8 IP
2447537	**A25TPTFNR16**	25	32,0	17,0	300	40	1/4-18 NPT	-12.0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
2447539	**A32UPTFNR16**	32	40,0	22,0	350	50	1/4-18 NPT	-10.0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
2447504	**A40VPTFNR22**	40	48,0	27,0	400	55	1/4-18 NPT	-10.0	TN..220408	**512.023**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
sinistro															
2447489	**A20SPTFNL11**	20	25,0	13,0	250	30	1/8-27 NPT	-12.0	TN..110304	**–**	**–**	**–**	**511.011**	**514.111**	8 IP
2447538	**A25TPTFNL16**	25	32,0	17,0	300	40	1/4-18 NPT	-12.0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
2447503	**A32UPTFNL16**	32	40,0	22,0	350	50	1/4-18 NPT	-10.0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP



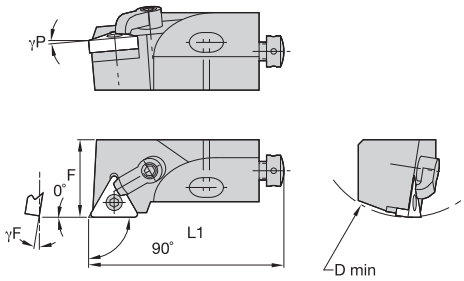


MTFN 90°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
2078236	**MTFNR12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
2074429	**MTFNR16CA16**	60	25,0	63	-9.0	-5.0	TN..160408/TN..332
3330208	**MTFNR20CA22**	70	25,0	70	-9.0	-5.0	TN..220408/TN..432
sinistro							
2057426	**MTFNL12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
2193621	**MTFNL16CA16**	60	25,0	63	-9.0	-5.0	TN..160408/TN..332
3330207	**MTFNL20CA22**	70	25,0	70	-9.0	-5.0	TN..220408/TN..432

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**–**	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2 mm	**KUAM25**	2 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**ITSN433**	**KLM46**	2.5 mm	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

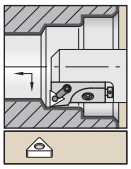


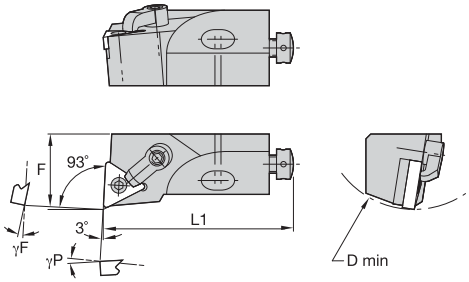
MTGN 90°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
2114041	**MTGNR12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
3330285	**MTGNR16CA16**	60	25,0	63	-9.0	-5.0	TN..160408/TN..332
sinistro							
3346275	**MTGNL12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
3330209	**MTGNL20CA22**	70	25,0	70	-9.0	-5.0	TN..220408/TN..432

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**–**	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**ITSN433**	**KLM46**	2.5 mm	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**





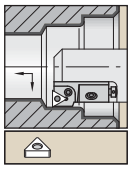
MTUN 93°

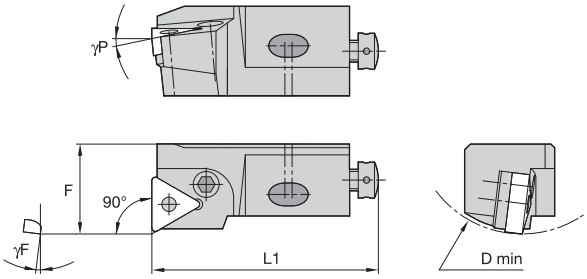
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098536	**MTUNR20CA22**	70	25,0	70	-9.0	-5.0	TN..220408/TN..432
sinistro							
1098529	**MTUNL12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
1098535	**MTUNL16CA16**	60	25,0	63	-9.0	-5.0	TN..160408/TN..332

NOTA: I ricambi selezionati si basano sul diametro minimo e sulla dimensione dell'inserto selezionata.

Parti di ricambio

D min	supporto	perno di blocco	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**–**	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**ITSN433**	**KLM46**	–	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM33**	**191.407**	5 mm	**CSWM 080 050**





PTFN 90°

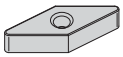
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1188641	**PTFNR12CA-16**	50	20,0	55	-7.0	-6.0	TN..160408/TN..332
sinistro							
1244457	**PTFNL12CA-16**	50	20,0	55	-7.0	-6.0	TN..160408/TN..332

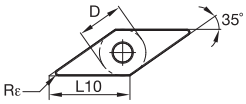
Parti di ricambio

D min	leva	vite di bloccaggio	dimensione chiave vite di bloccaggio	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**511.030**	**514.112**	8 IP	**KUAM28**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

● prima scelta
○ scelta alternativa

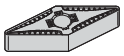
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

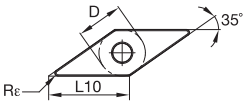




VNGA

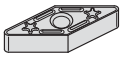
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGA160404	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNGA160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

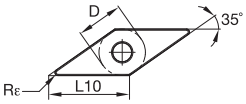




VNGG-FS

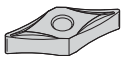
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGG160401FS	9,53	16,61	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
VNGG160402FS	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNGG160404FS	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
VNGG160408FS	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–

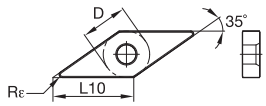




VNGG-LF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGG160402LF	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGG160404LF	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGG160408LF	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–
VNGG220408LF	12,70	22,14	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–



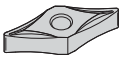


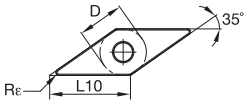
VNGP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGP160401	9,53	16,61	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
VNGP160402	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
VNGP220404	12,70	22,14	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGP220408	12,70	22,14	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–

● prima scelta
○ scelta alternativa

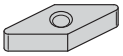
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●	●	●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●	●	●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

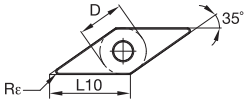




VNGP-K

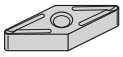
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGP160404K	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–
VNGP160408K	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–
VPGP443K	12,70	22,14	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

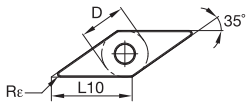




VNMA

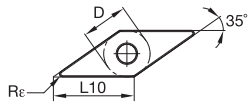
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMA160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





VNMG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG160412	9,53	16,61	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG220408	12,70	22,14	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG220412	12,70	22,14	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

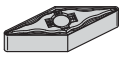


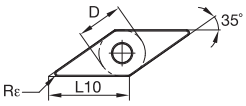
VNMG-LF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408LF	9,53	16,61	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220404LF	12,70	22,14	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220408LF	12,70	22,14	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

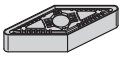
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

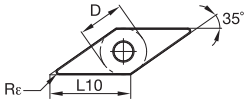




VNMG-FF

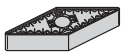
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FF	9,53	16,61	0,4	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
VNMG160408FF	9,53	16,61	0,8	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

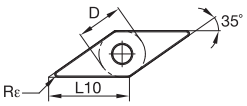




VNMG-FN

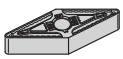
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FN	9,53	16,61	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
VNMG160408FN	9,53	16,61	0,8	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

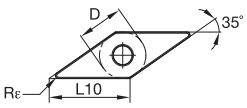




VNMG-FP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FP	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
VNMG160408FP	9,53	16,61	0,8	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●



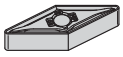


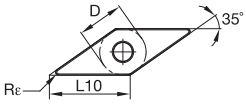
VNMG-MN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404MN	9,53	16,61	0,4	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408MN	9,53	16,61	0,8	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160412MN	9,53	16,61	1,2	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

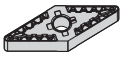
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

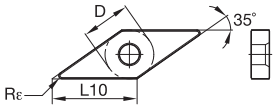




VNMG-MP

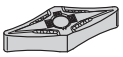
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404MP	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
VNMG160408MP	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
VNMG160412MP	9,53	16,61	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–

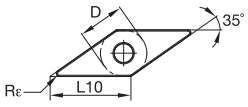




VNMG-MR

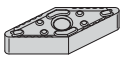
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160412MR	9,52	16,61	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408MR	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

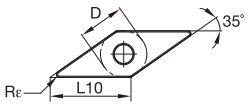




VNMG-MS

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160401MS	9,53	16,61	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG160402MS	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG160404MS	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG160408MS	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG220404MS	12,70	22,14	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG220408MS	12,70	22,14	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–



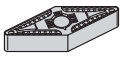


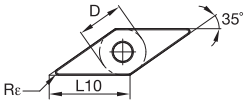
VNMG-P

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404P	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNMG160408P	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–

● prima scelta
○ scelta alternativa

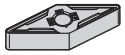
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

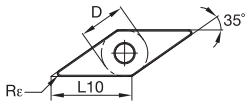




VNMG-RN

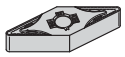
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408RN	9,53	16,61	0,8	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160412RN	9,53	16,61	1,2	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220408RN	12,70	22,14	0,8	–	–	●	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220412RN	12,70	22,14	1,2	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

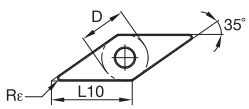




VNMG-RP

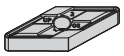
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408RP	9,53	16,61	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	●	●	●	●	–	–
VNMG160412RP	9,53	16,61	1,2	–	–	–	●	–	●	–	–	–	–	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–

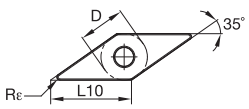




VNMG-UN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404UN	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408UN	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

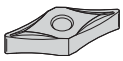


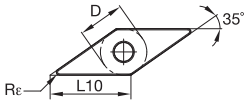


VNMG-UP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404UP	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–
VNMG160408UP	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	●	–	–	–
VNMG160412UP	9,53	16,61	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

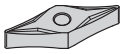
● prima scelta
○ scelta alternativa

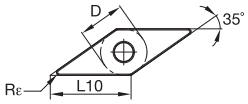




VNMP

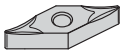
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
			P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
			M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
			K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
			N																								●	●	●	●	●	●	●	
			S																								●	●	●	●	●	●		
			H																															
VNMP160404	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–
VNMP160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–

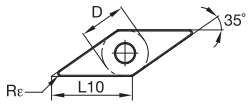




VNMP-K

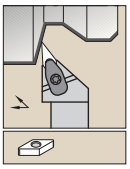
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMP160404K	9,53	16,61	0,4	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMP160408K	9,53	16,61	0,8	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

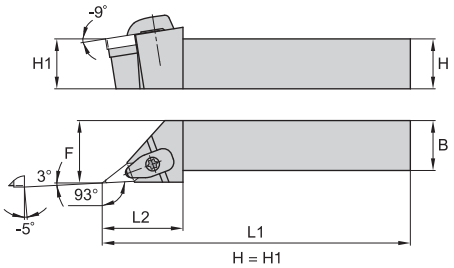


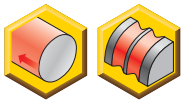


VNMS

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMS160404	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
VNMS160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

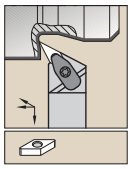


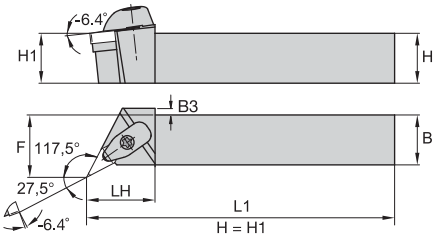


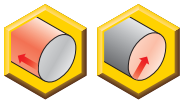


DVJN-KC 93°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro														
2439399	**DVJNR2020K16KC04**	20	20	25,0	125	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439401	**DVJNR2525M16KC04**	25	25	32,0	150	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439443	**DVJNR3225P16KC04**	32	25	32,0	170	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
sinistro														
2439400	**DVJNL2020K16KC04**	20	20	25,0	125	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439402	**DVJNL2525M16KC04**	25	25	32,0	150	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439444	**DVJNL3225P16KC04**	32	25	32,0	170	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**

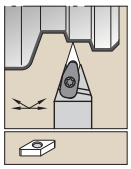


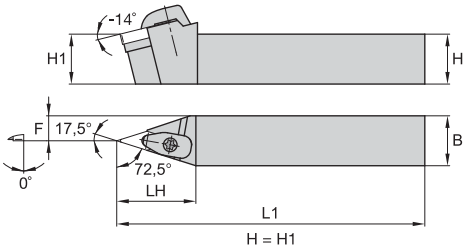




DVON-KC 117,5°

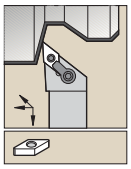
numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro															
2439449	**DVONR2020K16KC04**	20	20	27,0	125	38,0	5,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439451	**DVONR2525M16KC04**	25	25	32,0	150	38,0	—	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439453	**DVONR3225P16KC04**	32	25	32,0	170	38,0	—	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
sinistro															
2439450	**DVONL2020K16KC04**	20	20	27,0	125	38,0	5,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439452	**DVONL2525M16KC04**	25	25	32,0	150	38,0	—	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439454	**DVONL3225P16KC04**	32	25	32,0	170	38,0	—	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**

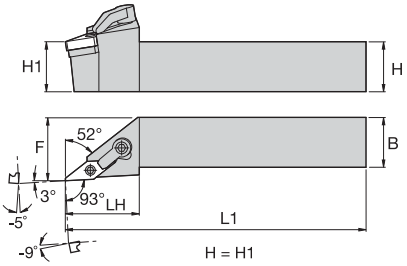




DVVN-KC 72,5°

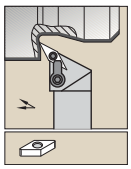
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
2439455	**DVVNN2020K16KC04**	20	20	10,0	150	48,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439456	**DVVNN2525M16KC04**	25	25	12,0	150	48,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**

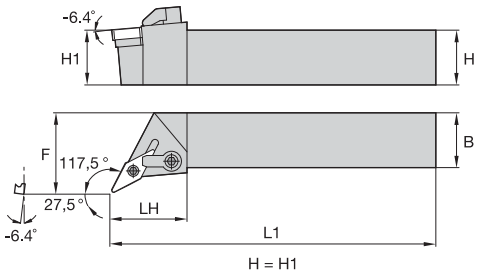




MVJN 93°

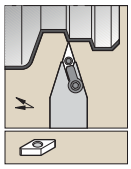
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1101362	**MVJNR2020K16**	20	20	25,0	125	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1101634	**MVJNR2525M16**	25	25	32,0	150	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1101363	**MVJNR3225P16**	32	25	32,0	170	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1101635	**MVJNR3225P22**	32	25	32,0	170	50,0	VN..220408	**IVSN432**	**KLM46**	2.5 mm	**CKM26**	**STCM4**	4 mm
3612649	**MVJNR3232P16**	32	32	40,5	171	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
sinistro													
1102320	**MVJNL2020K16**	20	20	25,0	125	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102321	**MVJNL2525M16**	25	25	32,0	150	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102322	**MVJNL3225P16**	32	25	32,0	170	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102323	**MVJNL3225P22**	32	25	32,0	170	50,0	VN..220408	**IVSN432**	**KLM46**	2.5 mm	**CKM26**	**STCM4**	4 mm
3612650	**MVJNL3232P16**	32	32	40,5	170	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm

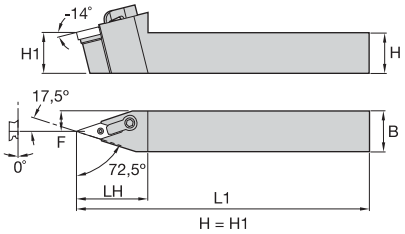


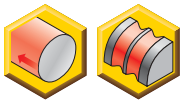


MVON 117,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1102238	**MVONR2525M16**	25	25	32,0	150	30,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
sinistro													
1102730	**MVONL2525M16**	25	25	32,0	150	30,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm

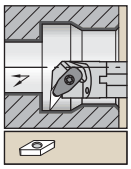




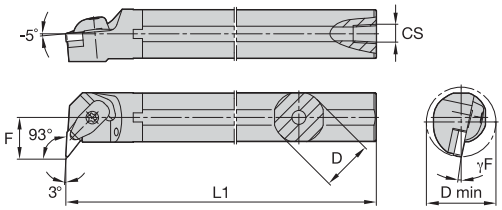


MVVN 72,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
1102723	**MVVNN2525M22**	25	25	12,0	150	55,0	VN..220408	**IVSN432**	**KLM46**	2.5 mm	**CKM26**	**STCM4**	4 mm
1102720	**MVVNN2020K16**	42	20	10,0	125	42,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102721	**MVVNN2525M16**	66	25	12,5	150	42,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102722	**MVVNN3225P16**	86	32	12,5	170	42,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm

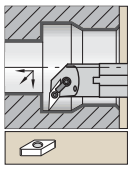


Codolo in acciaio con refrigerante interno.

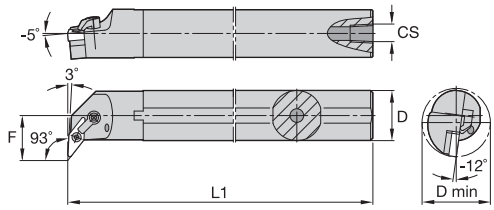


A-DVUN-KC 93°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	perno scanalato	Torx Plus
destro														
2441916	**A32SDVUNR16KC04**	32	40,0	22,0	250	1/4-18 NPT	-9.0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441918	**A40TDVUNR16KC04**	40	50,0	27,0	300	1/4-18 NPT	-8.0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	**SSP025016M**	15 IP
sinistro														
2441917	**A32SDVUNL16KC04**	32	40,0	22,0	250	1/4-18 NPT	-9.0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441919	**A40TDVUNL16KC04**	40	50,0	27,0	300	1/4-18 NPT	-8.0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	**SSP025016M**	15 IP

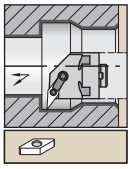


Codolo in acciaio con refrigerante interno.

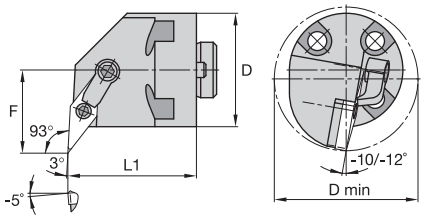


A-MVUN 93°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1098128	**A25RMVUNR16**	25	37,0	22,0	200	1/4-18 NPT	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM26**	3 mm
1098130	**A32SMVUNR16**	32	40,0	22,0	250	1/4-18 NPT	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
sinistro													
1098129	**A25RMVUNL16**	25	37,0	22,0	200	1/4-18 NPT	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM26**	3 mm
1098131	**A32SMVUNL16**	32	40,0	22,0	250	1/4-18 NPT	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm



Con adduzione interna di refrigerante.



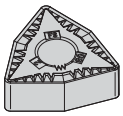
H-MVUN 93°

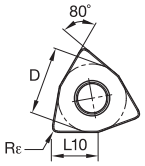
numero d'ordine	codice catalogo	D	D min	F	L1	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro												
3612215	**H40MVUNR16**	40	50,0	27,0	41	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM22**	**STCM20**	3 mm
3612219	**H50MVUNR16**	50	63,0	35,0	41	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM22**	**STCM20**	3 mm

Tornitura ISO

● prima scelta
○ scelta alternativa

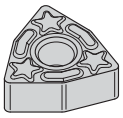
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

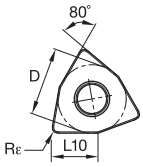




WNGG-FS

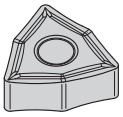
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGG080404FS	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNGG080408FS	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

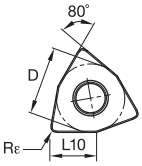




WNGG-LF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGG080401LF	12,70	8,69	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
WNGG080402LF	12,70	8,69	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNGG080404LF	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNGG080408LF	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–



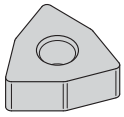


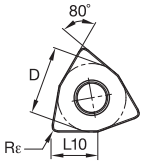
WNGP-K

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGP080408K	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–

● prima scelta
○ scelta alternativa

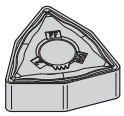
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

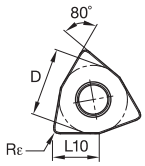




WNMA

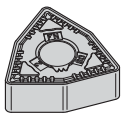
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMA060408	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA060412	9,53	6,52	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080408	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080412	12,70	8,69	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080416	12,70	8,69	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

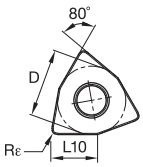




WNMG-FF

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FF	9,53	6,52	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNMG060408FF	9,53	6,52	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●
WNMG080404FF	12,70	8,69	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408FF	12,70	8,69	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–



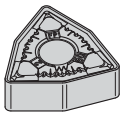


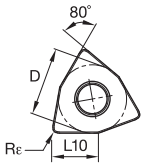
WNMG-FN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FN	9,53	6,52	0,4	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG060408FN	9,53	6,52	0,8	–	–	–	●	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG080404FN	12,70	8,69	0,4	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG080408FN	12,70	8,69	0,8	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

● prima scelta
○ scelta alternativa

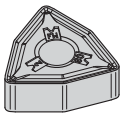
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

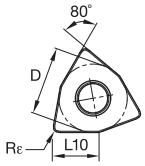




WNMG-FP

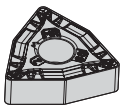
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FP	9,53	6,52	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG060408FP	9,53	6,52	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–
WNMG080404FP	12,70	8,69	0,4	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408FP	12,70	8,69	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080412FP	12,70	8,69	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–

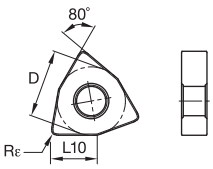




WNMG-FW

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FW	9,53	6,52	0,4	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
WNMG060408FW	9,53	6,52	0,8	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
WNMG060412FW	9,53	6,52	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080404FW	12,70	8,69	0,4	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	●
WNMG080408FW	12,70	8,69	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
WNMG080412FW	12,70	8,69	1,2	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



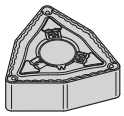


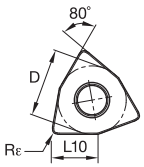
WNMG-MG

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG080408MG	12,70	8,69	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

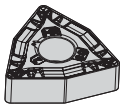
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

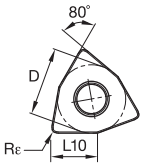




WNMG-MN

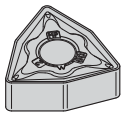
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404MN	9,53	6,52	0,4	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060408MN	9,53	6,52	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060412MN	9,53	6,52	1,2	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MN	12,70	8,69	0,8	–	●	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412MN	12,70	8,69	1,2	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080416MN	12,70	8,69	1,6	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

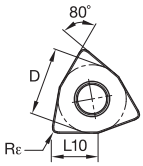




WNMG-MR

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MR	9,53	6,52	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MR	12,70	8,69	0,8	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	●	●	–	●	●	–	–	●	–	–	–	–	–
WNMG080412MR	12,70	8,69	1,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	●	–	–	–	–	–	–	–	–
WNMG080416MR	12,70	8,69	1,6	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



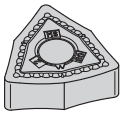


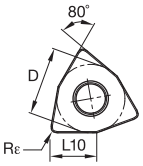
WNMG-MP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404MP	9,53	6,52	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–
WNMG060408MP	9,53	6,52	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	●	–	●	–	–	–
WNMG060412MP	9,53	6,52	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MP	12,70	8,69	0,8	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
WNMG080412MP	12,70	8,69	1,2	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	–	●	–	–	–

● prima scelta
○ scelta alternativa

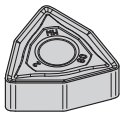
	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

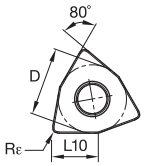




WNMG-MS

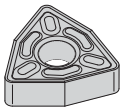
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MS	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
WNMG080401MS	12,70	8,69	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNMG080402MS	12,70	8,69	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
WNMG080404MS	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
WNMG080408MS	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–

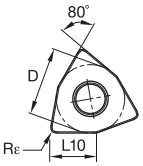




WNMG-MW

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MW	9,53	6,52	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MW	12,70	8,69	0,8	–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
WNMG080412MW	12,70	8,69	1,2	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

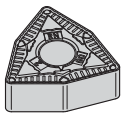


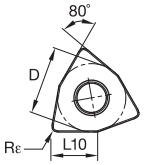


WNMG-P

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG080404P	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408P	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–

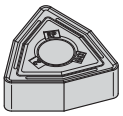
● prima scelta
○ scelta alternativa

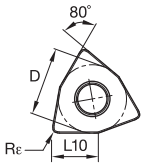




WNMG-RN

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
			P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
			M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
			K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
			N																								●	●	●	●	●	●	●	
			S																								●	●	●	●	●	●		
			H																															
WNMG060408RN	9,53	6,52	0,8	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060412RN	9,53	6,52	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408RN	12,70	8,69	0,8	–	–	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412RN	12,70	8,69	1,2	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
WNMG080416RN	12,70	8,69	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

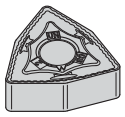


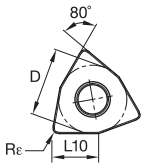


WNMG-RP

codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408RP	9,53	6,52	0,8	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	●	–	–	–
WNMG060412RP	9,53	6,52	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408RP	12,70	8,69	0,8	–	●	●	●	●	●	●	–	●	–	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●	●	●	●	–	–
WNMG080412RP	12,70	8,69	1,2	–	●	●	●	●	●	–	●	–	–	–	●	●	●	●	●	–	●	●	●	●	●	●	–	–	●	●	●	–	–	–
WNMG080416RP	12,70	8,69	1,6	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

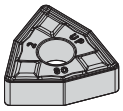
● prima scelta
○ scelta alternativa

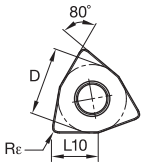




WNMG-UN

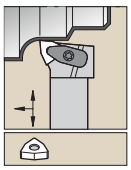
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
			P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
			M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
			K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
			N																								●	●	●	●	●	●	●	
			S																								●	●	●	●	●	●		
			H																															
WNMG060408UN	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080404UN	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408UN	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412UN	12,70	8,69	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080416UN	12,70	8,69	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

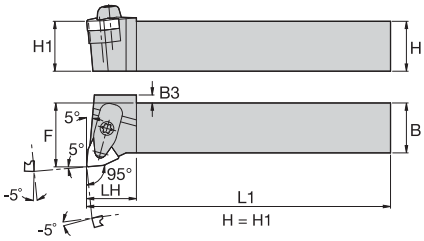




WNMG-UP

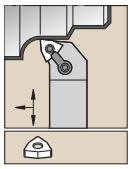
codice catalogo ISO	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408UP	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408UP	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
WNMG080412UP	12,70	8,69	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●	–	●	–	–	–

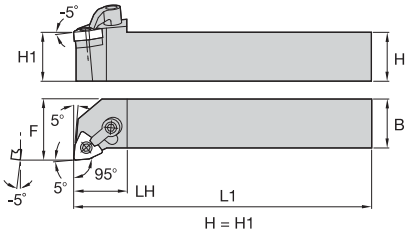




DWLN-KC 95°

numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	Torx Plus	perno scanalato	perno di bloccaggio opzionale
destro															
2439476	**DWLNR2020K06KC04**	20	20	25,0	125	31,0	—	WN..060408	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439471	**DWLNR2020K08KC04**	20	20	25,0	125	33,0	—	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273451	**DWLNR2525M06KC04**	25	25	32,0	150	25,0	—	WN..060408	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1908860	**DWLNR2525M08KC04**	25	25	32,0	150	25,0	4,0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1908862	**DWLNR3232P08KC04**	32	32	40,0	170	25,0	—	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
sinistro															
2439470	**DWLNL2020K06KC04**	20	20	25,0	125	31,0	—	WN..060408	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439472	**DWLNL2020K08KC04**	20	20	25,0	125	33,0	—	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273455	**DWLNL2525M06KC04**	25	25	32,0	150	25,0	—	WN..060408	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1908861	**DWLNL2525M08KC04**	25	25	32,0	150	25,0	4,0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1908893	**DWLNL3232P08KC04**	32	32	40,0	170	25,0	—	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**





MWLN 95°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro													
1101293	**MWLNR2020K06**	20	20	25,0	125	25,0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1101355	**MWLNR2525M06**	25	25	32,0	150	25,0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
3612259	**MWLNR3232P08**	32	32	40,0	170	32,0	WNMA080408	**IWSN433**	**KLM46**	2.5 mm	**CKM7**	**STCM5**	2.5 mm
sinistro													
1101292	**MWLNL2020K06**	20	20	25,0	125	25,0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1101354	**MWLNL2525M06**	25	25	32,0	150	25,0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
3612260	**MWLNL3232P08**	32	32	40,0	170	32,0	WNMA080408	**IWSN433**	**KLM46**	2.5 mm	**CKM7**	**STCM5**	2.5 mm

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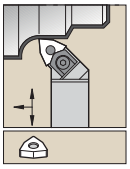
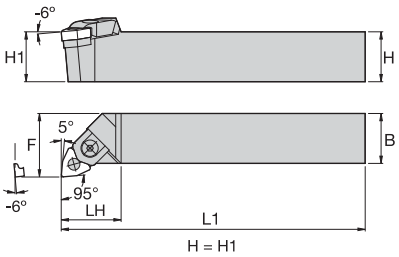
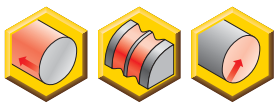
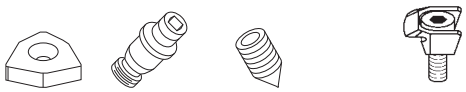


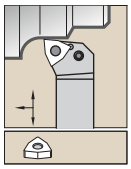


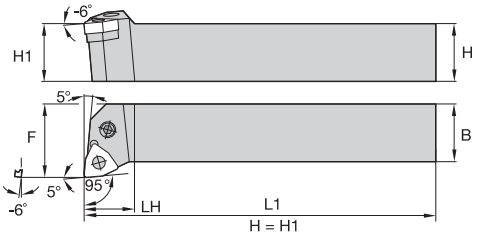


MWLN 95°



numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno di blocco	vite di regolazione	Torx	gruppo staffa	hex
destro													
1244924	**MWLNR2020K08H4**	20	20	25,0	125	32,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
1192355	**MWLNR2525M08H4**	25	25	32,0	150	36,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
1244925	**MWLNR3225P08H4**	32	25	32,0	170	36,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
sinistro													
1244921	**MWLNL2020K08H4**	20	20	25,0	125	32,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
1244922	**MWLNL2525M08H4**	25	25	32,0	150	36,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
1244923	**MWLNL3225P08H4**	32	25	32,0	170	36,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm

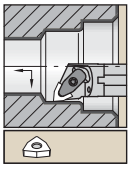




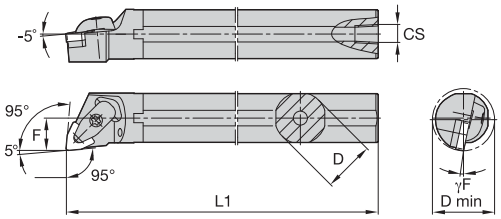
PWLN 95°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	perno supporto	spingi perno	leva	vite di bloccaggio	Torx Plus
destro													
1244771	**PWLNR1616H06**	16	16	20,0	100	14,0	WN..060404	**512.134**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1192397	**PWLNR2020K06**	20	20	25,0	125	14,0	WN..060404	**512.134**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1192398	**PWLNR2020K08**	20	20	25,0	125	20,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1192399	**PWLNR2525M08**	25	25	32,0	150	26,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244772	**PWLNR3225P08**	32	25	32,0	170	26,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
sinistro													
1192396	**PWLNL1616H06**	16	16	20,0	100	14,0	WN..060404	**512.134**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244767	**PWLNL2020K06**	20	20	25,0	125	14,0	WN..060404	**512.134**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244768	**PWLNL2020K08**	20	20	25,0	125	20,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244769	**PWLNL2525M08**	25	25	32,0	150	26,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244770	**PWLNL3225P08**	32	25	32,0	170	26,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP

Bareni Kenclamp™

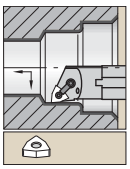


Codolo in acciaio con refrigerante interno.

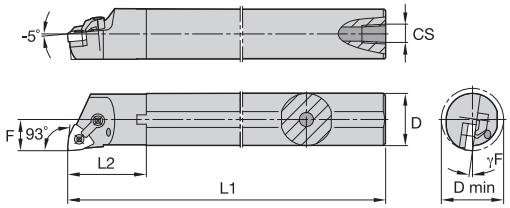


A-DWLN-KC 95°

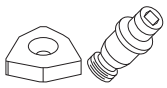
numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	supporto	vite supporto	Torx Plus	gruppo staffa	perno scanalato	Torx Plus
destro														
2441921	**A25RDWLNR06KC04**	25	32,0	17,0	200	1/4-18 NPT	-14.0	WN..060408	**–**	**–**	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441923	**A25RDWLNR08KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	WN..080408	**–**	**–**	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441925	**A32SDWLNR08KC04**	32	40,0	22,0	250	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441927	**A40TDWLNR08KC04**	40	50,0	27,0	300	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
sinistro														
2441922	**A25RDWLNL06KC04**	25	32,0	17,0	200	1/4-18 NPT	-14.0	WN..060408	**–**	**–**	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441924	**A25RDWLNL08KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	WN..080408	**–**	**–**	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441926	**A32SDWLNL08KC04**	32	40,0	22,0	250	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

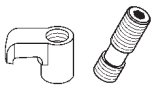


Codolo in acciaio con refrigerante interno.

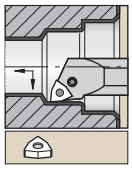


A-MWLN 95°

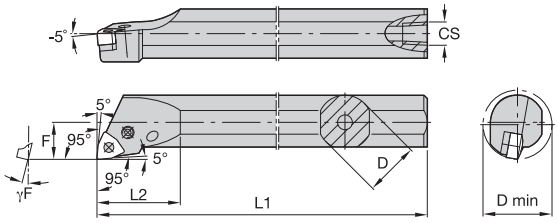




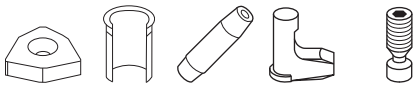
numero d'ordine	codice catalogo	D	D min	F	L1	LH	CS	γF°	inserto di riferimento	supporto	perno di blocco	hex	staffa	vite staffa	hex
destro															
1098771	**A25RMWLNR06**	25	32,0	17,0	200	—	1/4-18 NPT	-12.0	WN..060408	**—**	**KLM33L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1098773	**A25RMWLNR08**	25	32,0	17,0	200	39,0	1/4-18 NPT	-12.0	WN..080408	**—**	**KLM43**	2 mm	**CKM20**	**STCM11**	3 mm
1098772	**A32SMWLNR06**	32	40,0	22,0	250	—	1/4-18 NPT	-10.0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1098774	**A32SMWLNR08**	32	40,0	22,0	250	39,7	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm
1098775	**A40TMWLNR08**	40	50,0	27,0	300	41,6	1/4-18 NPT	-12.0	WN..080408	**IWSN433**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm
sinistro															
1098783	**A25RMWLNL08**	25	32,0	17,0	200	39,0	1/4-18 NPT	-12.0	WN..080408	**—**	**KLM43**	2 mm	**CKM20**	**STCM11**	3 mm
1098782	**A32SMWLNL06**	32	40,0	22,0	250	—	1/4-18 NPT	-10.0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1098784	**A32SMWLNL08**	32	40,0	22,0	251	39,7	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm
1098785	**A40TMWLNL08**	40	50,0	27,0	300	41,6	1/4-18 NPT	-12.0	WN..080408	**IWSN433**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm



Codolo in acciaio con refrigeranti interni.



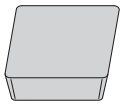
A-PWLN 95°

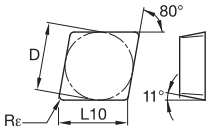


numero d'ordine	codice catalogo	D	D min	F	L1	L2	CS	γF°	inserto di riferimento	supporto	perno supporto	perno	leva	vite di bloccaggio	Torx Plus
destro															
1244113	**A16RPWLNR06**	16	27,0	11,0	200	32	1/8-27 NPT	-12.0	WN..060404	**–**	**–**	**–**	**511.030**	**514.112**	–
1244115	**A20SPWLNR06**	20	25,0	13,0	250	–	1/8-27 NPT	-14.0	WN..060408	**–**	**–**	**–**	**511.030**	**514.112**	8 IP
1194440	**A25RPWLNR08**	25	32,0	17,0	200	–	1/4-18 NPT	-12.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244118	**A32SPWLNR08**	32	40,0	22,0	250	50	1/4-18 NPT	-10.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	–
1244120	**A40TPWLNR08**	40	50,0	27,0	300	54	1/4-18 NPT	-8.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	–
sinistro															
1191396	**A16RPWLNL06**	16	27,0	11,0	200	32	1/8-27 NPT	-12.0	WN..060404	**–**	**–**	**–**	**511.030**	**514.112**	–
1244114	**A20SPWLNL06**	20	25,0	13,0	250	–	1/8-27 NPT	-14.0	WN..060408	**–**	**–**	**–**	**511.030**	**514.112**	8 IP
1244116	**A25RPWLNL08**	25	32,0	17,0	200	–	1/4-18 NPT	-12.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244117	**A32SPWLNL08**	32	40,0	22,0	250	50	1/4-18 NPT	-10.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	–
1244119	**A40TPWLNL08**	40	50,0	27,0	300	54	1/4-18 NPT	-8.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	–

● prima scelta
○ scelta alternativa

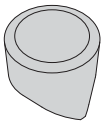
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

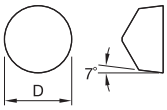




CPGN

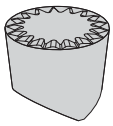
codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
CPGN120304	12,70	12,90	0,4	–	–	–	●	●	–	–	–
CPGN120308	12,70	12,90	0,8	–	–	–	●	●	–	–	–

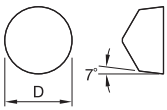




RCGV

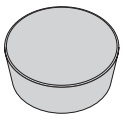
codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RCGV060400	6,35	—	—	–	–	–	–	–	–	●	●
RCGV090700	9,53	—	—	–	–	–	–	–	–	–	●
RCGV120700	12,70	—	—	–	–	–	●	–	–	–	●

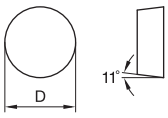




RCGV-MP

codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RCGX060400MP	6,35	—	—	–	–	–	–	–	●	–	–
RCGX120700MP	12,70	—	—	–	–	–	–	–	●	–	–



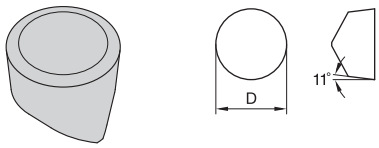


RPGN

codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGN120300	12,70	—	—	–	–	–	●	–	–	–	–

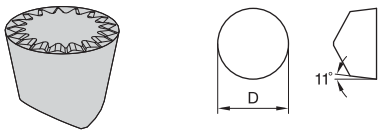
● prima scelta
○ scelta alternativa

		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									



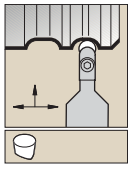
RPGV

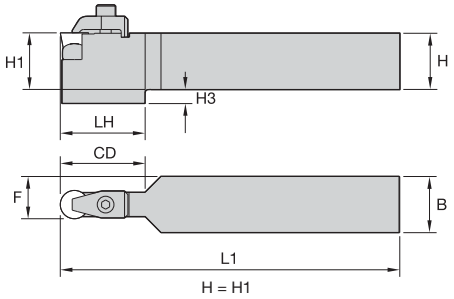
codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGV060400	6,35	–	–	–	–	–	–	–	–	–	●
RPGV090700	9,53	–	–	–	–	–	–	–	–	–	●
RPGV120700	12,70	–	–	–	–	–	–	–	–	–	●



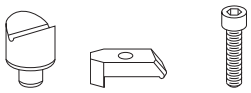
RPGV-MP

codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGX060400MP	6,35	–	–	–	–	–	–	–	●	–	–
RPGX090700MP	9,53	–	–	–	–	–	–	–	●	–	–
RPGV120700MP	12,70	–	–	–	–	–	–	–	–	–	●
RPGX120700MP	12,70	–	–	–	–	–	–	–	●	–	–



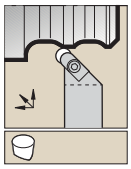


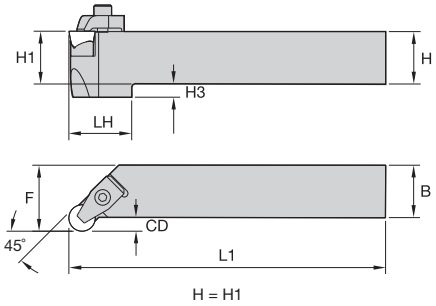
CRDP



numero d'ordine	codice catalogo	H	B	F	L1	LH	H3	CD	inserto di riferimento	nido	staffa	vite staffa	hex
3642247	**CRDPN2525M06V**	25	25	12,5	151	—	—	19,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642249	**CRDPN3232P09V**	32	32	16,0	171	—	—	29,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
3642248	**CRDPN2525M09V**	25	25	12,5	151	—	—	29,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
3642251	**CRDPN3232P12V**	32	32	16,0	171	—	—	38,0	RPGX120700E	**NST3**	**CM216**	**CS412**	3.5 mm
3642252	**CRDPN3232P15V**	32	32	16,0	171	38,1	6,4	38,0	RPGX151000	**NST4**	**CM217**	**MS1294**	6 mm

NOTA: I portautensili CRDP possono utilizzare gli stili di inserto RPGX e RCGX.



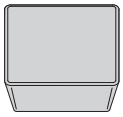


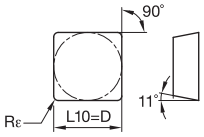
CRGP

numero d'ordine	codice catalogo	H	B	F	L1	CD	inserto di riferimento	nido	staffa	vite staffa	hex
destro											
3642276	**CRGPR2525M06V**	25	25	32,0	151	7,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642280	**CRGPR3232P09V**	32	32	40,0	171	8,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
sinistro											
3642277	**CRGPL2525M06V**	25	25	32,0	151	7,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642281	**CRGPL3232P09V**	32	32	40,0	171	8,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm

NOTA: I portautensili CRGP possono utilizzare gli stili di inserto RPGX e RCGX.

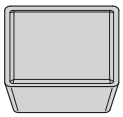
● prima scelta
○ scelta alternativa

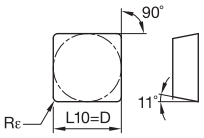




SPGN

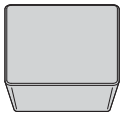
codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P				●	○	○	●	●		●	●
M							●	●	●	●	●
K				○	●	●	●	●		●	●
N							●	●		●	●
S							●	●	●	●	●
H											
SPGN090304	9,53	9,53	0,4	–	–	–	–	●	–	–	●
SPGN090308	9,53	9,53	0,8	–	–	●	–	●	–	–	●
SPGN120304	12,70	12,70	0,4	–	–	–	–	●	–	●	●
SPGN120308	12,70	12,70	0,8	–	–	–	●	●	–	●	●
SPGN120312	12,70	12,70	1,2	–	–	–	–	●	–	–	–
SPGN120412	12,70	12,70	1,2	–	–	–	–	–	–	●	–
SPGN120316	12,70	12,70	1,6	–	–	–	–	–	–	–	●
SPGN190408	19,05	19,05	0,8	–	–	–	–	●	–	–	–
SPGN190412	19,05	19,05	1,2	–	–	–	●	–	–	●	–

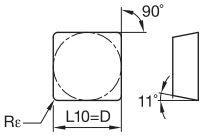




SPGR–K

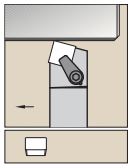
codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPGR090308K	9,53	9,53	0,8	–	–	–	–	–	–	●	●
SPGR120308K	12,70	12,70	0,8	●	–	–	–	–	–	–	–

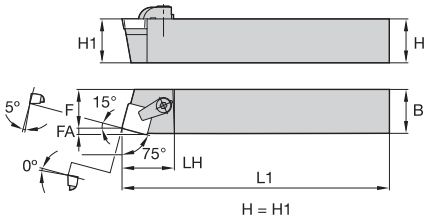




SPUN

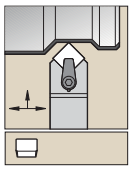
codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPUN120304	12,70	12,70	0,4	●	–	–	–	●	–	–	–
SPUN120308	12,70	12,70	0,8	●	–	–	–	●	–	–	–
SPUN120312	12,70	12,70	1,2	●	–	–	–	–	–	–	–

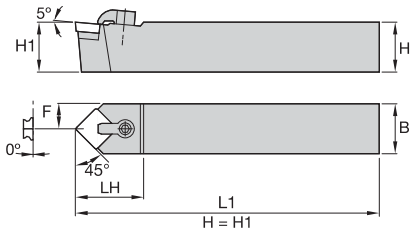




CSBP 75°

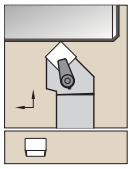
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
destro														
1097750	**CSBPR2020K12**	20	20	17,0	125	30,0	3,1	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm

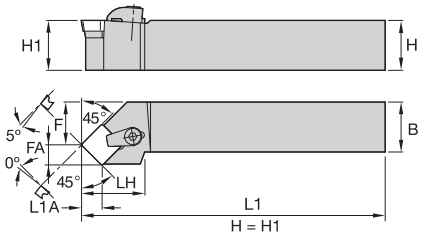




CSDP 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
1097754	**CSDPN2020K12**	20	20	10,0	125	32,0	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097755	**CSDPN2525M12**	25	25	12,5	150	32,0	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm



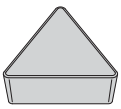
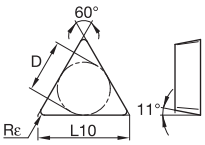


CSSP 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
destro															
1244605	**CSSPR2020K12**	20	20	25,0	125	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1244606	**CSSPR2525M12**	25	25	32,0	150	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm
sinistro															
1244604	**CSSPL2525M12**	25	25	32,0	150	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm

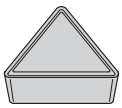
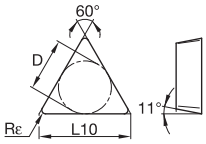
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

● prima scelta
○ scelta alternativa

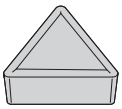
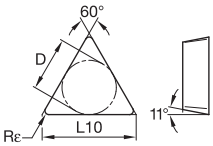
TPGN/TPG

codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPGN110304	6,35	11,00	0,4	–	–	–	●	●	–	●	●
TPGN110308	6,35	11,00	0,8	–	–	–	–	●	–	●	●
TPGN160302	9,53	16,50	0,2	–	–	–	●	●	–	–	●
TPGN160304	9,53	16,50	0,4	–	–	–	●	●	–	●	●
TPGN160308	9,53	16,50	0,8	–	–	–	●	●	–	●	●
TPGN160312	9,53	16,50	1,2	–	–	–	●	–	–	–	●
TPGN160316	9,53	16,50	1,6	–	–	–	–	●	–	–	●
TPGN220404	12,70	22,00	0,4	–	–	–	●	●	–	●	●
TPGN220408	12,70	22,00	0,8	●	–	–	●	●	–	●	●
TPGN220412	12,70	22,00	1,2	–	–	–	–	●	–	●	●
TPGN220416	12,70	22,00	1,6	–	–	–	–	●	–	–	●

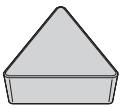
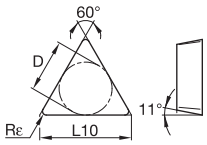
TPGR–K

codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPGR110304K	6,35	11,00	0,4	–	–	–	–	–	–	–	●
TPGR110308K	6,35	11,00	0,8	–	–	–	–	–	–	●	–
TPGR160304K	9,53	16,50	0,4	–	–	–	–	–	–	●	●
TPGR160308K	9,53	16,50	0,8	●	–	–	–	–	–	●	●
TPGR220404K	12,70	22,00	0,4	–	–	–	–	–	–	●	–
TPGR220408K	12,70	22,00	0,8	–	–	–	–	–	–	●	–

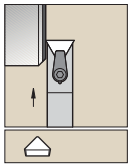
TPMR

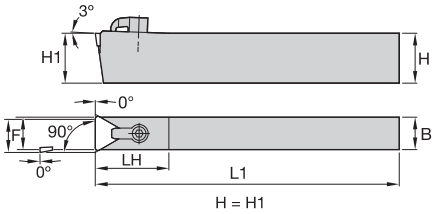
codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPMR110304	6,35	11,00	0,4	●	●	–	–	–	–	–	–
TPMR110308	6,35	11,00	0,8	●	–	–	–	–	–	–	–
TPMR160304	9,53	16,50	0,4	●	●	–	–	–	–	–	–
TPMR160308	9,53	16,50	0,8	●	●	–	–	–	–	–	–
TPMR220408	12,70	22,00	0,8	●	–	–	–	–	–	–	–

TPUN

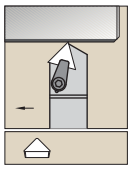
codice catalogo ISO	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPUN110304	6,35	11,00	0,4	–	●	–	–	●	–	–	–
TPUN110308	6,35	11,00	0,8	–	●	–	–	●	–	–	–
TPUN160304	9,53	16,50	0,4	●	●	–	–	●	–	–	–
TPUN160308	9,53	16,50	0,8	●	●	–	–	●	–	–	–
TPUN220408	12,70	22,00	0,8	●	●	–	–	●	–	–	–
TPUN220412	12,70	22,00	1,2	●	●	–	–	●	–	–	–

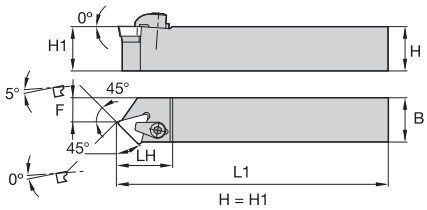




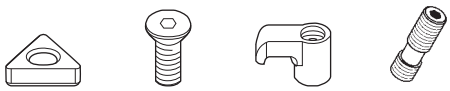
CTCPN 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
1097775	**CTCPN2510M11**	25	10	10,0	150	26,0	TP..110304	**SM819**	**MS960**	–	**CKM7**	**STCM5**	2.5 mm
1097776	**CTCPN2514M16**	25	14	14,4	150	28,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM13**	**STCM4**	4 mm
1097781	**CTCPN2518M22**	25	18	19,2	150	41,0	TP..220408	**SM837**	**MS125**	2.5 mm	**CKM13**	**STCM4**	4 mm
1097778	**CTCPN2520M22**	25	20	20,2	150	41,0	TP..220408	**SM837**	**MS125**	2.5 mm	**CKM13**	**STCM4**	4 mm

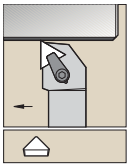


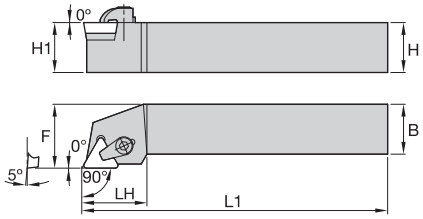


CTDP 45°



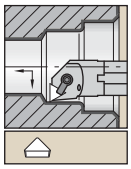
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	staffa	vite staffa	hex
destro												
1244613	**CTDPR1212F11**	12	12	6,0	80	22,0	TP..110304	**SM819**	**MS960**	**CKM19**	**STCM9**	2.5 mm



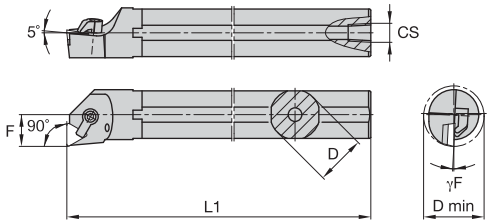


CTGP 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
destro													
1097762	**CTGPR1212F11**	12	12	16,0	80	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097763	**CTGPR1616H11**	16	16	20,0	100	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1244595	**CTGPR2020K11**	20	20	25,0	125	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097764	**CTGPR2020K16**	20	20	25,0	125	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097765	**CTGPR2525M16**	25	25	32,0	150	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm
sinistro													
1097916	**CTGPL1212F11**	12	12	16,0	80	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097918	**CTGPL2020K16**	20	20	25,0	125	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097919	**CTGPL2525M16**	25	25	32,0	150	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm

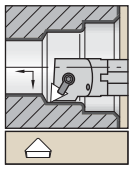


Codolo in acciaio con refrigerante interno.

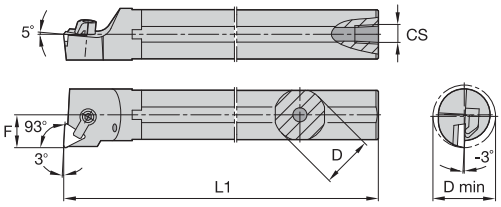


A-CTFP 90°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
destro														
1886492	**A16RCTFPR11**	16	20,0	11,0	200	1/8-27 NPT	-4.0	TP..110304	**–**	**–**	–	**CKM19**	**STCM9**	2.5 mm
1098051	**A20QCTFPR11**	20	25,0	13,0	180	1/8-27 NPT	0.0	TP..110304	**SM815**	**MS961**	–	**CKM19**	**STCM9**	2.5 mm
1098053	**A25RCTFPR16**	25	32,0	17,0	200	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1098055	**A32SCTFPR16**	32	40,0	22,0	250	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1886494	**A40VCTFPR16**	40	48,0	27,0	400	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
sinistro														
1098054	**A25RCTFPL16**	25	32,0	17,0	200	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1098056	**A32SCTFPL16**	32	40,0	22,0	250	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm



Codolo in acciaio con refrigerante interno.

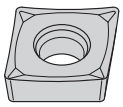


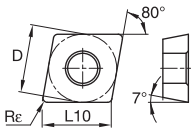
A-CTUP 93°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	inserto di riferimento	supporto	vite supporto	staffa	vite staffa	hex
destro												
1098057	**A16MCTUPR11**	16	20,0	11,0	150	1/8-27 NPT	TP..110304	**SM815**	**MS961**	**CKM19**	**STCM9**	2.5 mm
sinistro												
1098058	**A16MCTUPL11**	16	20,0	11,0	150	1/8-27 NPT	TP..110304	**SM815**	**MS961**	**CKM19**	**STCM9**	2.5 mm

● prima scelta
○ scelta alternativa

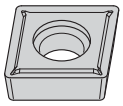
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

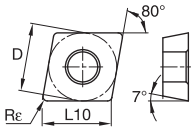




CCGT-HP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCGT060202HP	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	●	●	–	–
CCGT060204HP	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT060208HP	6,35	6,45	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CCGT09T302HP	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT09T304HP	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT09T308HP	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CCGT120402HP	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
CCGT120404HP	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
CCGT120408HP	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	–	●	–	–



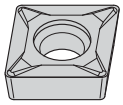


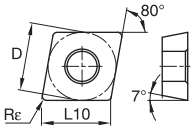
CCGT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCGT0602X0LF	6,35	6,45	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCGT060201LF	6,35	6,45	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060202LF	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060204LF	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060208LF	6,35	6,45	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
CCGT09T3X0LF	9,53	9,67	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCGT09T301LF	9,53	9,67	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT09T302LF	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT09T304LF	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CCGT09T308LF	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	–	–	–

● prima scelta
○ scelta alternativa

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

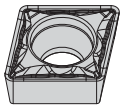


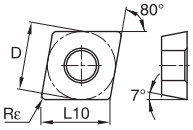


CCMT-11

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT06020411	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CCMT09T30411	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CCMT09T30811	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

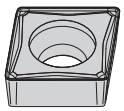
NOTA: Inserti a fissaggio meccanico per serraggio S.

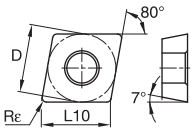




CCMT-FP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060202FP	6,35	6,45	0,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	–
CCMT060204FP	6,35	6,45	0,4	●	●	●	●	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT060208FP	6,35	6,45	0,8	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT09T302FP	9,53	9,67	0,2	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT09T304FP	9,53	9,67	0,4	●	●	–	●	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT09T308FP	9,53	9,67	0,8	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT120404FP	12,70	12,90	0,4	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–
CCMT120408FP	12,70	12,90	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120412FP	12,70	12,90	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

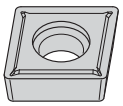


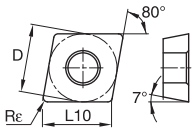


CCMT-FW

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060202FW	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CCMT060204FW	6,35	6,45	0,4	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CCMT060208FW	6,35	6,45	0,8	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CCMT09T304FW	9,53	9,67	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CCMT09T308FW	9,53	9,67	0,8	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–

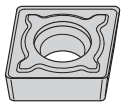
● prima scelta
○ scelta alternativa

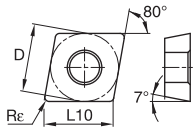




CCMT-LF

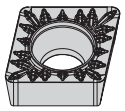
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
			P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
			M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
			K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
			N																			●	●	●		●	●	●	●	●		
			S																			●	●	●	●	●	●	●	●			
			H																													
CCMT060202LF	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
CCMT060204LF	6,35	6,45	0,4	–	●	●	●	●	●	–	–	●	●	●	●	●	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
CCMT060208LF	6,35	6,45	0,8	●	–	●	●	●	●	–	●	●	●	●	●	–	●	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
CCMT09T302LF	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	●	–
CCMT09T304LF	9,53	9,67	0,4	–	●	●	●	●	●	–	–	●	●	●	–	●	●	–	●	●	●	–	●	–	–	–	–	●	●	–	●	–
CCMT09T308LF	9,53	9,67	0,8	●	●	●	●	●	●	–	–	●	●	●	●	●	●	–	●	●	●	–	●	–	–	–	–	●	–	–	●	–
CCMT120404LF	12,70	12,90	0,4	–	–	●	●	●	●	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
CCMT120408LF	12,70	12,90	0,8	–	●	●	●	●	–	–	–	–	–	●	●	●	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	–
CCMT120412LF	12,70	12,90	1,2	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

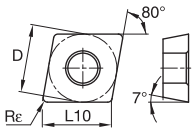




CCMT-MF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204MF	6,35	6,45	0,4	–	●	●	●	●	●	–	–	–	–	●	–	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT09T304MF	9,53	9,67	0,4	–	●	–	●	●	●	–	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
CCMT09T308MF	9,53	9,67	0,8	–	●	–	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	●	–	–	–
CCMT09T312MF	9,53	9,67	1,2	–	–	●	●	●	–	–	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMT120408MF	12,70	12,90	0,8	–	●	●	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT120412MF	12,70	12,90	1,2	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–



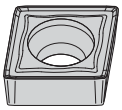


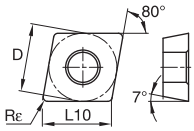
CCMT-MP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204MP	6,35	6,45	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T304MP	9,53	9,67	0,4	–	–	●	–	●	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T308MP	9,53	9,67	0,8	–	–	●	–	●	–	–	–	–	–	–	●	●	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T312MP	9,53	9,67	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120408MP	12,70	12,90	0,8	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120412MP	12,70	12,90	1,2	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

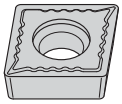
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

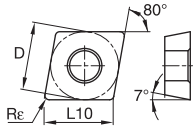




CCMT-MW

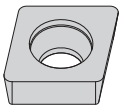
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT09T304MW	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CCMT09T308MW	9,53	9,67	0,8	–	–	–	–	●	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CCMT120404MW	12,70	12,90	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT120408MW	12,70	12,90	0,8	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

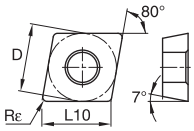




CCMT-UF

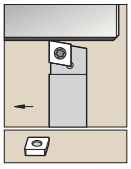
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204UF	6,35	6,45	0,4	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T302UF	9,53	9,67	0,2	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T304UF	9,53	9,67	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T308UF	9,53	9,67	0,8	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

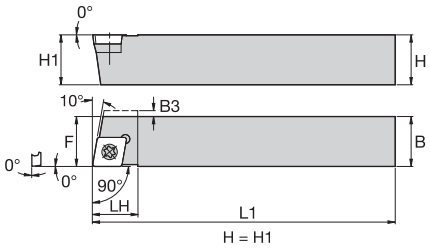


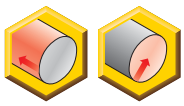


CCMW

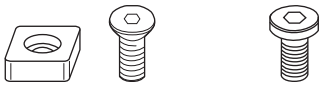
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMW060204	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW09T308	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



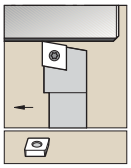


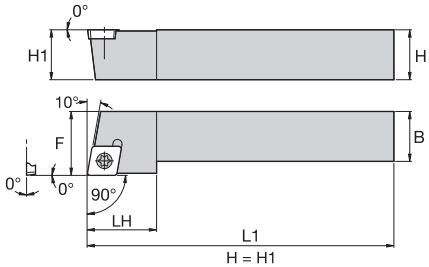


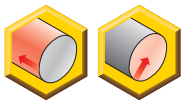
SCAC 90°



numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	hex
destro												
1097708	**SCACR1010M06Q**	10	10	10,0	150	11,0	CC..060204	–	–	–	**MS1153**	T7
1097710	**SCACR1212M06Q**	12	12	12,0	150	11,0	CC..060204	–	–	–	**MS1153**	T7
1097714	**SCACR1616K09Q**	16	16	16,0	125	16,0	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15

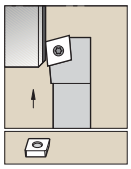


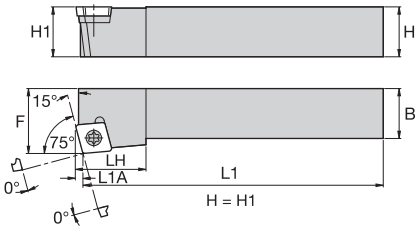


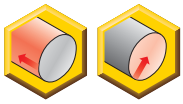


SCGC 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	vite inserto	Torx
destro									
1097824	**SCGCR1010M06**	10	10	12,0	150	11,0	CC..060204	**MS1153**	T7
1097825	**SCGCR1212N09**	12	12	16,0	160	16,0	CC..09T308	**MS1155**	T15
sinistro									
1097970	**SCGCL1212N09**	12	12	16,0	160	16,0	CC..09T308	**MS1155**	T15

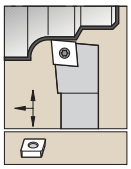


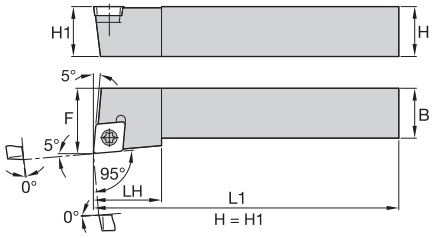




SCKC 75°

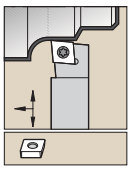
numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro													
1097840	**SCKCR2020K09**	20	20	25,0	125	16,0	2,3	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15

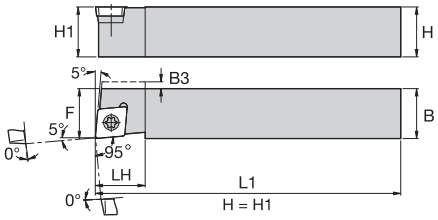




SCLC 95°

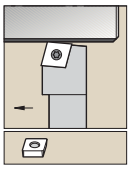
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1097814	**SCLCR0808L06**	8	8	10,0	140	12,0	CC..060204	–	–	–	**MS1153**	T7
1097816	**SCLCR1010M06**	10	10	12,0	150	12,0	CC..060204	–	–	–	**MS1153**	T7
1097818	**SCLCR1212N09**	12	12	16,0	160	16,0	CC..09T308	–	–	–	**MS1155**	T15
1097819	**SCLCR1616H09**	16	16	20,0	100	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097821	**SCLCR2020K09**	20	20	25,0	125	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097820	**SCLCR2020K12**	20	20	25,0	125	19,8	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1244995	**SCLCR2525M09**	25	25	32,0	150	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097822	**SCLCR2525M12**	25	25	32,0	150	20,0	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
sinistro												
1097959	**SCLCL0808L06**	8	8	10,0	140	12,0	CC..060204	–	–	–	**MS1153**	T7
1097961	**SCLCL1010M06**	10	10	12,0	150	12,0	CC..060204	–	–	–	**MS1153**	T7
1097963	**SCLCL1212N09**	12	12	16,0	160	16,0	CC..09T308	–	–	–	**MS1155**	T15
1097964	**SCLCL1616H09**	16	16	20,0	100	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097966	**SCLCL2020K09**	20	20	25,0	125	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097965	**SCLCL2020K12**	20	20	25,0	125	19,8	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1318353	**SCLCL2525M09**	25	25	32,0	150	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097967	**SCLCL2525M12**	25	25	32,0	150	20,0	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15

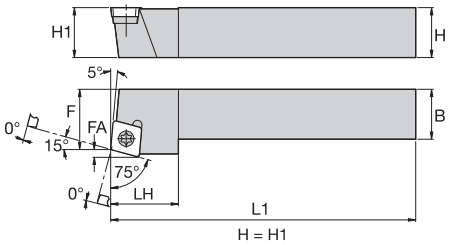


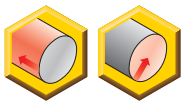


SCLC-F 95°

numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro													
1772152	**SCLCRF0808M06Q**	8	8	8,0	150	12,0	1,5	CC..060204	–	–	–	**MS1153**	T7
1097812	**SCLCRF1010M06Q**	10	10	10,0	150	11,0	–	CC..060204	–	–	–	**MS1153**	T7
1097813	**SCLCRF1212M06Q**	12	12	12,0	150	11,0	–	CC..060204	–	–	–	**MS1153**	T7
1097817	**SCLCRF1616K09Q**	16	16	16,0	125	16,0	–	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15

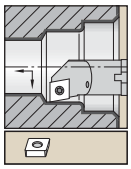




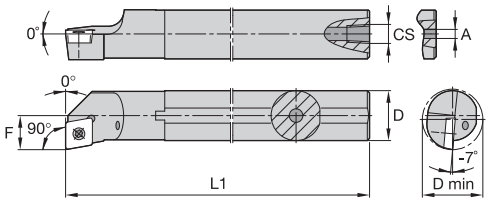


SCRC 75°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro													
1097828	**SCRCR1212N09**	12	12	13,0	160	14,0	2,3	CC..09T308	–	–	–	**MS1155**	T15
1097829	**SCRCR1616H09**	16	16	17,0	100	14,0	2,3	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15

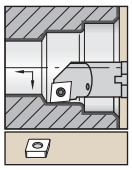


Codolo in acciaio con refrigerante interno.

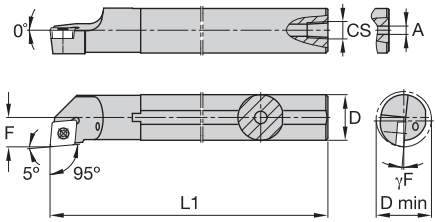


A-SCFC 90°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	inserto di riferimento	vite inserto	Torx
destro									
1098266	**A25TSCFCR12**	25	32,0	17,0	300	1/4-18 NPT	CC..120408	**MS1157**	T15
sinistro									
1098270	**A25TSCFCL12**	25	32,0	17,0	300	1/4-18 NPT	CC..120408	**MS1157**	T15

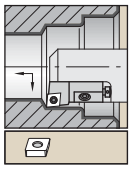


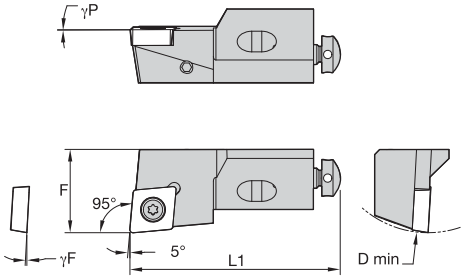
Codolo in acciaio con refrigerante interno.



A-SCLC 95°

numero d'ordine	codice catalogo	D	D min	F	L1	A	CS	γF°	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro														
1098159	**A08JSCLCR06**	8	11,0	6,0	110	2,4	–	-8.0	CC..060204	–	–	–	**MS1939**	T7
1098168	**A10KSCLCR06**	10	13,0	7,0	125	3,2	–	-7.0	CC..060204	–	–	–	**MS1153**	T7
1098178	**A12MSCLCR06**	12	16,0	9,0	150	4,0	1/16-27 NPT	-6.0	CC..060204	–	–	–	**MS1153**	T7
1098225	**A16RSCLCR09**	16	20,0	11,0	200	4,0	1/8-27 NPT	-7.0	CC..09T308	–	–	–	**MS1155**	T15
1098239	**A20SSCLCR09**	20	25,0	13,0	250	4,0	1/8-27 NPT	-5.0	CC..09T308	–	–	–	**MS1155**	T15
1098268	**A25TSCLCR12**	25	32,0	17,0	300	6,4	1/4-18 NPT	-7.0	CC..120408	–	–	–	**MS1157**	T15
1098280	**A32TSCLCR12**	32	40,0	22,0	300	6,4	1/4-18 NPT	-7.0	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
sinistro														
1098163	**A08JSCLCL06**	8	11,0	6,0	110	2,4	–	-8.0	CC..060204	–	–	–	**MS1939**	T7
1098173	**A10KSCLCL06**	10	13,0	7,0	25	3,2	–	-7.0	CC..060204	–	–	–	**MS1153**	T7
1098183	**A12MSCLCL06**	12	16,0	9,0	150	4,0	1/16-27 NPT	-6.0	CC..060204	–	–	–	**MS1153**	T7
1098231	**A16RSCLCL09**	16	20,0	11,0	200	4,0	1/8-27 NPT	-7.0	CC..09T308	–	–	–	**MS1155**	T15
1098244	**A20SSCLCL09**	20	25,0	13,0	250	4,0	1/8-27 NPT	-5.0	CC..09T308	–	–	–	**MS1155**	T15
1098272	**A25TSCLCL12**	25	32,0	17,0	300	6,4	1/4-18 NPT	-7.0	CC..120408	–	–	–	**MS1157**	T15
1098282	**A32TSCLCL12**	32	40,0	22,0	300	6,4	1/4-18 NPT	-7.0	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15





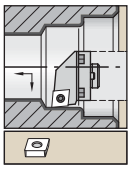
SCLC 95°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098544	**SCLCR12CA12**	50	20,0	55	-3.0	0.0	CC..120408/CC..432
1098545	**SCLCR16CA12**	60	25,0	63	-3.0	0.0	CC..120408/CC..432
sinistro							
1098732	**SCLCL12CA12**	50	20,0	55	-3.0	0.0	CC..120408/CC..432

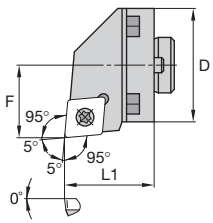
Parti di ricambio

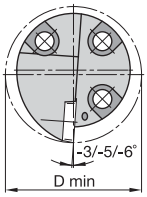
D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**MS1157**	T15	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

Teste di barenatura Screw-On



Con adduzione interna di refrigerante.



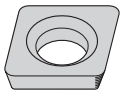


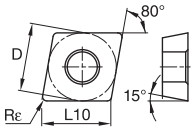
H-SCLC 95°

numero d'ordine	codice catalogo	D	D min	F	L1	inserto di riferimento	vite inserto	Torx
destro								
1772253	**H32SCLCR09**	32	40,0	21,9	25	CC..09T308	**MS1155**	T15
3612090	**H40SCLCR12**	40	50,0	27,0	41	CC..120408	**MS1158**	T15

● prima scelta
○ scelta alternativa

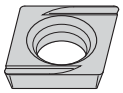
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

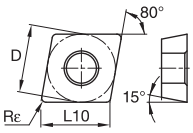




CDHB

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CDHBS4T0S0	3,97	4,03	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
CDHBS4T0X0	3,97	4,03	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CDHBS4T002	3,97	4,03	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	–	●	–
CDHBS4T004	3,97	4,03	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–

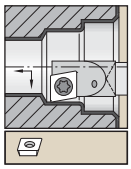




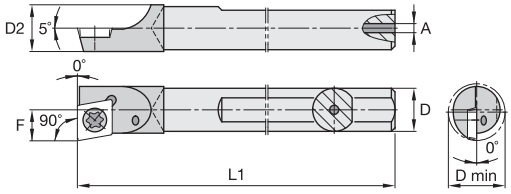
CDHH

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CDHHS4T002L	3,97	4,03	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–
CDHHS4T002R	3,97	4,03	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
CDHHS4T004L	3,97	4,03	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–
CDHHS4T004R	3,97	4,03	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

NOTA: L'inserto destro utilizza bareni sinistri.
L'inserto sinistro utilizza bareni destri.

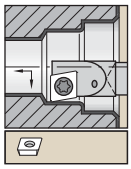


Codolo in metallo duro con refrigerante interno.

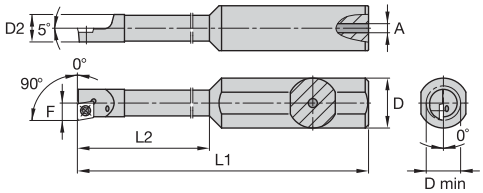


E-SCFD 90°

numero d'ordine	codice catalogo	D	D min	F	L1	A	inserto di riferimento	vite inserto	Torx
destro									
1930354	**E05HSCFDRS4**	5	5,9	3,2	101	1,0	CD..S4T002	**CC11**	T6
1930360	**E06HSCFDRS4**	6	7,1	3,7	100	1,2	CD..S4T002	**CC11**	T6

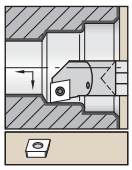


Codolo in acciaio con riduzione con refrigerante interno.

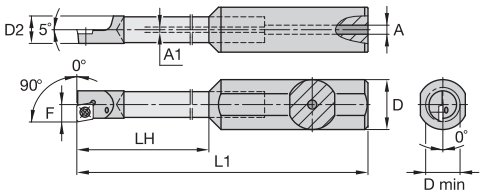


A-SCFD 90° • Con colletto ribassato

numero d'ordine	codice catalogo	D	D min	D2	F	L1	L2	A	inserto di riferimento	vite inserto	Torx
destro											
1930376	**A0510ESCFDRS412**	10	5,9	5,2	3,1	70	12,7	1,0	CD..S4T002	**CC11**	T6
1930380	**A0510ESCFDRS425**	10	5,9	5,2	3,1	70	25,4	1,0	CD..S4T002	**CC11**	T6
1930404	**A0612ESCFDRS431**	12	7,4	6,6	3,9	70	31,8	1,0	CD..S4T002	**CC11**	T6

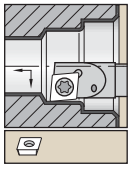


Codolo ribassato in metallo duro con adduzione interna di refrigerante.

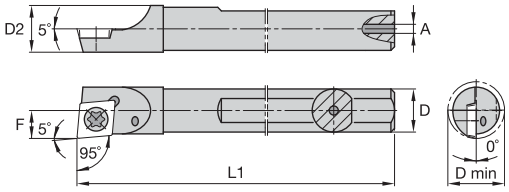


E-SCFD 90° • Con colletto ribassato

numero d'ordine	codice catalogo	D	D min	D2	F	L1	LH	A	A1	inserto di riferimento	vite inserto	Torx
destro												
1930408	**E0512XSCFDRS425**	12	5,9	5,0	3,2	64	10,0	1,0	1,2	CD..S4T002	**CC11**	T6
1930412	**E0512XSCFDRS450**	12	5,9	5,0	3,2	89	10,0	3,2	1,2	CD..S4T002	**CC11**	T6
1930436	**E0616XSCFDRS463**	16	7,4	6,3	3,9	127	12,3	3,2	1,2	CD..S4T002	**CC11**	T6

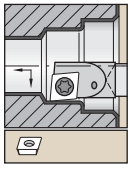


Codolo in acciaio con refrigerante interno.

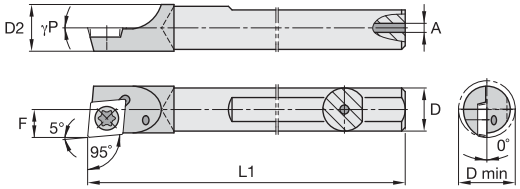


A-SCLD 95°

numero d'ordine	codice catalogo	D	D min	D2	F	L1	A	inserto di riferimento	vite inserto	Torx
destro										
1288877	**A04XSCLDRS4**	4	4,6	4,2	2,4	65	1,0	CD..S4T002	**CC09**	T6
1930298	**A05XSCLDRS4**	5	5,8	5,2	3,0	64	1,0	CD..S4T002	**CC09**	T6
1288893	**A06XSCLDRS4**	6	7,1	6,2	3,7	64	1,0	CD..S4T002	**CC11**	T6
1288906	**A08XSCLDRS4**	8	9,0	8,2	4,7	76	1,5	CD..S4T002	**CC11**	T6
sinistro										
1288876	**A04XSCLDLS4**	4	4,6	4,2	2,4	65	1,0	CD..S4T002	**CC09**	T6
1930297	**A05XSCLDLS4**	5	5,8	5,2	3,0	64	1,0	CD..S4T002	**CC09**	T6
1288892	**A06XSCLDLS4**	6	7,1	6,2	3,7	64	1,0	CD..S4T002	**CC11**	T6
1288905	**A08XSCLDLS4**	8	9,0	8,2	4,7	76	1,5	CD..S4T002	**CC11**	T6

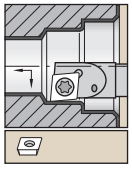


Codolo in metallo duro con refrigerante interno.

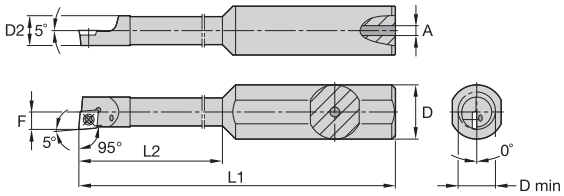


E-SCLD 95°

numero d'ordine	codice catalogo	D	D min	D2	F	L1	A	γP°	inserto di riferimento	vite inserto	Torx
destro											
1930300	**E04HSCLDRS4**	4	4,6	4,2	2,4	100	1,0	0.0	CD..S4T002	**CC09**	T6
1270967	**E04MSCLDRS4**	4	4,6	4,2	2,4	152	1,0	0.0	CD..S4T002	**CC09**	T6
1930356	**E05HSCLDRS4**	5	5,9	–	3,0	101	1,0	5.0	CD..S4T002	**CC09**	T6
1930358	**E05MSCLDRS4**	5	5,9	–	3,0	152	1,0	5.0	CD..S4T002	**CC09**	T6
1930362	**E06HSCLDRS4**	6	7,1	–	3,7	100	1,2	5.0	CD..S4T002	**CC11**	T6
1270978	**E06MSCLDRS4**	6	6,9	–	3,7	152	1,2	5.0	CD..S4T002	**CC09**	T6
1270988	**E08MSCLDRS4**	8	9,1	–	4,7	150	2,4	5.0	CD..120605	**CC11**	T6
sinistro											
1930299	**E04HSCLDLS4**	4	4,6	4,2	2,4	100	1,0	0.0	CD..S4T002	**CC09**	T6
1270966	**E04MSCLDLS4**	4	4,6	4,2	2,4	152	1,0	0.0	CD..S4T002	**CC09**	T6
1930355	**E05HSCLDLS4**	5	5,9	–	3,0	101	1,0	5.0	CD..S4T002	**CC11**	T6
1930357	**E05MSCLDLS4**	5	5,9	–	3,0	152	1,0	5.0	CD..S4T002	**CC09**	T6
1930361	**E06HSCLDLS4**	6	7,1	–	3,7	100	1,2	5.0	CD..S4T002	**CC11**	T6
1270977	**E06MSCLDLS4**	6	7,1	–	3,7	152	1,2	5.0	CD..S4T002	**CC11**	T6
1270987	**E08MSCLDLS4**	8	9,0	–	4,7	152	2,4	5.0	CD..S4T002	**CC11**	T6

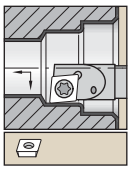


Codolo in acciaio con colletto con refrigerante interno.

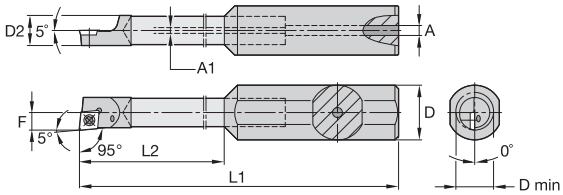


A-SCLD 95° • Con colletto ribassato

numero d'ordine	codice catalogo	D	D min	F	L1	L2	A	inserto di riferimento	vite inserto	Torx
destro										
1930372	**A0410ESCLDRS412**	10	5,2	2,6	70	12,7	1,0	CD..S4T002	**CC09**	T6
1930374	**A0410ESCLDRS425**	10	5,2	2,6	70	25,4	1,0	CD..S4T002	**CC09**	T6
1289129	**A0412ESCLDRS412**	12	5,2	2,6	70	12,7	1,0	CD..S4T002	**CC09**	T6
1289130	**A0412ESCLDRS425**	12	5,2	2,6	70	25,4	1,0	CD..S4T002	**CC09**	T6
1930378	**A0510ESCLDRS412**	10	5,8	3,0	70	12,3	1,0	CD..S4T002	**CC11**	T6
1930382	**A0510ESCLDRS425**	10	5,8	3,0	70	25,0	1,0	CD..S4T002	**CC09**	T6
1098071	**A0510GSCLDRS4**	10	6,0	3,2	90	25,0	3,2	CD..S4T002	**MS1454**	T5
1098073	**A0610HSCLDRS4**	10	7,6	3,8	100	32,0	3,2	CD..S4T002	**MS1454**	T5
1930402	**A0612ESCLDRS419**	12	7,2	3,7	70	19,1	1,0	CD..S4T002	**CC11**	T6



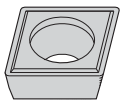
Codolo in metallo duro con colletto con refrigerante interno

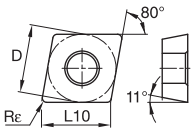


E-SCLD 95° • Con colletto ribassato

numero d'ordine	codice catalogo	D	D min	D2	F	L1	L2	A	inserto di riferimento	vite inserto	Torx
destro											
1930406	**E0412DSCLDRS422**	12	5,3	5,0	2,6	60	22,2	3,2	CD..S4T002	**CC09**	T6
1262129	**E0412XSCLDRS447**	12	5,3	5,0	2,6	86	47,6	3,2	CD..S4T002	**CC09**	T6
1262131	**E0416KSCLDRS447**	16	5,3	5,0	2,6	111	47,6	3,2	CD..S4T002	**CC09**	T6
1930410	**E0512XSCLDRS425**	12	5,9	—	3,0	64	25,4	1,0	CD..S4T002	**CC11**	T6
1930418	**E0612ESCLDRS431**	12	7,2	—	3,7	70	31,8	3,2	CD..S4T002	**CC11**	T6
1262178	**E0612HSCLDRS463**	12	7,2	—	3,7	102	63,5	3,2	CD..S4T002	**CC11**	T6
1930434	**E0616HSCLDRS431**	16	7,2	—	3,7	95	31,8	3,2	CD..S4T002	**CC11**	T6
1262175	**E0616XSCLDRS463**	16	7,2	—	3,7	127	63,5	3,2	CD..120605	**CC11**	T6

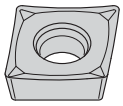
● prima scelta
○ scelta alternativa

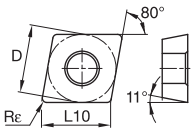




CPGH (T)

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P																												
				M																												
				K																												
				N																												
				S																												
				H																												
CPGT060202K	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CPGT060204K	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–
CPGH09T301	9,53	9,67	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
CPGH09T302	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–
CPGH09T304	9,53	9,67	0,4	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	●	●	●	●	–	●	–
CPGH09T308	9,53	9,67	0,8	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	●	●	–	–	–

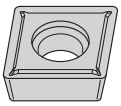


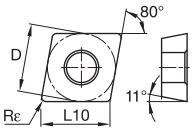


CPGT-HP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPGT060202HP	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CPGT060204HP	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CPGT060208HP	6,35	6,45	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CPGT09T302HP	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
CPGT09T304HP	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CPGT09T308HP	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–

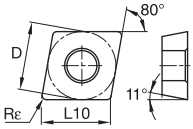
● prima scelta
○ scelta alternativa





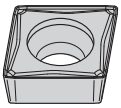
CPGT-LF

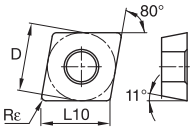
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
			P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
			M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
			K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
			N																			●	●	●		●	●	●	●	●		
			S																			●	●	●	●	●	●	●	●			
			H																													
CPGT060201LF	6,35	6,45	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT060202LF	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT060204LF	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT060208LF	6,35	6,45	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT09T302LF	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT09T304LF	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT09T308LF	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–



CPMT-FP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT050202FP	5,56	5,65	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CPMT050204FP	5,56	5,65	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CPMT060202FP	6,35	6,45	0,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
CPMT060204FP	6,35	6,45	0,4	–	–	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
CPMT060208FP	6,35	6,45	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CPMT09T302FP	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T304FP	9,53	9,67	0,4	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	–
CPMT09T308FP	9,53	9,67	0,8	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●



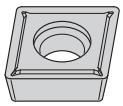


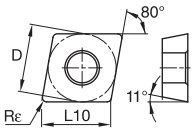
CPMT-FW

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060202FW	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT060204FW	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CPMT060208FW	6,35	6,45	0,8	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CPMT09T304FW	9,53	9,67	0,4	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT09T308FW	9,53	9,67	0,8	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–

● prima scelta
○ scelta alternativa

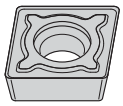
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

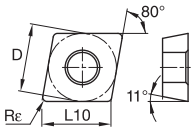




CPMT-LF

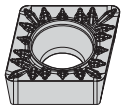
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT050202LF	5,56	5,65	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CPMT050204LF	5,56	5,65	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
CPMT060202LF	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
CPMT060204LF	6,35	6,45	0,4	–	●	●	●	●	–	–	–	●	●	●	–	●	–	●	–	●	–	–	●	●	–	–	–	●	●	–	●	–
CPMT060208LF	6,35	6,45	0,8	–	–	●	●	●	●	–	–	●	–	●	–	–	–	–	–	●	–	–	●	–	–	–	–	●	●	–	●	–
CPMT09T302LF	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT09T304LF	9,53	9,67	0,4	●	●	●	●	●	●	–	–	●	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	●	●	–	●	–
CPMT09T308LF	9,53	9,67	0,8	–	●	●	●	●	●	–	–	●	●	●	●	●	–	●	–	●	–	–	–	●	–	–	–	●	●	–	●	–

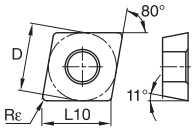




CPMT-MF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060208MF	6,35	6,45	0,8	–	●	–	●	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
CPMT09T308MF	9,53	9,67	0,8	–	●	●	●	●	–	–	–	–	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CPMT09T312MF	9,53	9,67	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

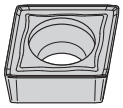


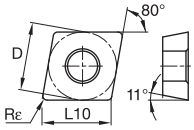


CPMT-MP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060208MP	6,35	6,45	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T308MP	9,53	9,67	0,8	–	–	●	●	●	–	–	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–

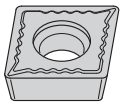
● prima scelta
○ scelta alternativa

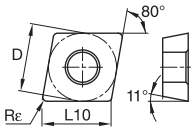




CPMT-MW

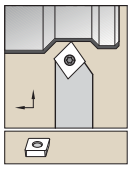
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P																												
				M							○							●	●	●	●	●	●	●	●	●	●	●	●		●	●
				K	○	○	○	○	○			●	●	●	●	●						●	●	●		●	●	●	●		●	●
				N																		●	●	●		●	●	●	●	●		
				S																		●	●	●	●	●	●	●	●			
				H																												
CPMT09T304MW	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T308MW	9,53	9,67	0,8	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

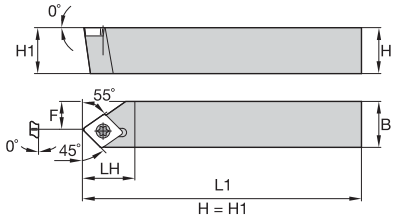




CPMT-UF

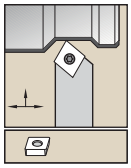
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060204UF	6,35	6,45	0,4	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CPMT09T304UF	9,53	9,67	0,4	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

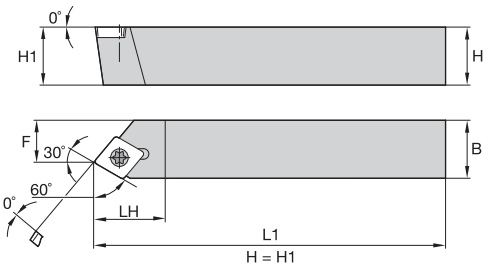


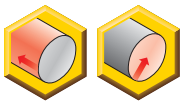


SCDP 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di iferimento	vite inserto	Torx
destro									
1244893	**SCDPR1212H06**	12	12	7,0	100	14,0	CP..060203	**MS1153**	T7

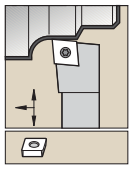


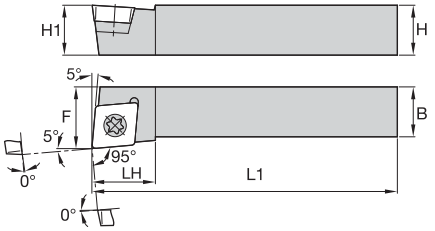




SCEP 60°

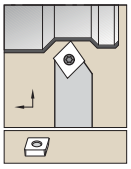
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	vite inserto	Torx
destro									
1244896	**SCEPR1010H06**	10	10	6,5	100	12,0	CP..060203R.	**MS1153**	T7
1250901	**SCEPR1212H06**	12	12	8,5	100	12,0	CP..060203R.	**MS1153**	T7

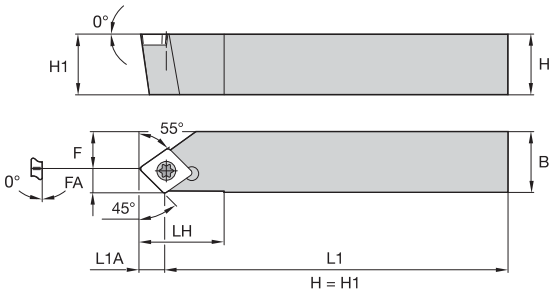




SCLP 95°

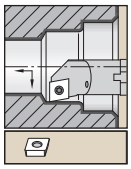
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	vite inserto	Torx
destro									
1192469	**SCLPR1212M06**	12	12	13,0	150	11,4	CP..060203	**MS1153**	T7
sinistro									
1244913	**SCLPL1212M06**	12	12	13,0	150	11,4	CP..060203	**MS1153**	T7



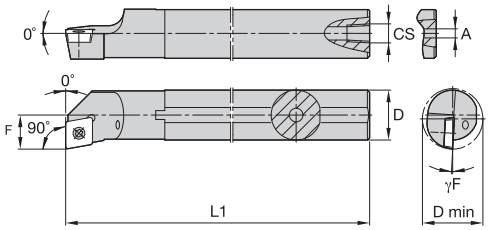


SCSP 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	vite inserto	Torx
destro											
1244917	**SCSPR1010H06**	10	10	6,0	100	14,0	4,2	4,2	CP..060203	**MS1153**	T7

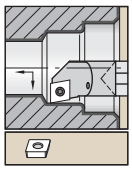


Codolo in acciaio con refrigerante interno.

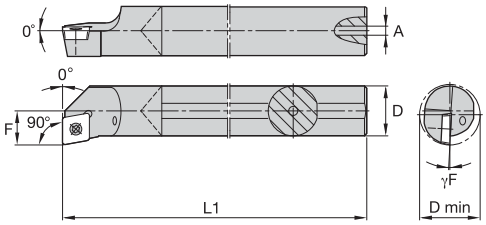


A-SCFP 90°

numero d'ordine	codice catalogo	D	D min	F	L1	A	CS	γF°	inserto di riferimento	vite inserto	Torx
destro											
1098157	**A08JSCFPR06**	8	11,0	6,0	110	2,4	—	-8.0	CP..060204	**MS1153**	T7
1098165	**A10KSCFPR06**	10	13,0	7,0	125	3,2	—	-6.0	CP..060204	**MS1153**	T7
1098175	**A12MSCFPR06**	12	16,0	9,0	150	4,0	1/16-27 NPT	-4.0	CP..060204	**MS1153**	T7
1886498	**A16RSCFPR06**	16	20,0	11,0	200	—	1/8-27 NPT	-5.0	CP..060203	**MS1153**	T7
1098221	**A16RSCFPR09**	16	20,0	11,0	200	4,0	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15
1098235	**A20SSCFPR09**	20	25,0	13,0	250	4,0	1/8-27 NPT	-2.0	CP..09T308	**MS1155**	T15
sinistro											
1098161	**A08JSCFPL06**	8	11,0	6,0	110	2,4	—	-8.0	CP..060204	**MS1153**	T7
1098170	**A10KSCFPL06**	10	13,0	7,0	125	3,2	—	-6.0	CP..060204	**MS1153**	T7
1098180	**A12MSCFPL06**	12	16,0	9,0	150	4,0	1/16-27 NPT	-4.0	CP..060204	**MS1153**	T7
1098227	**A16RSCFPL09**	16	20,0	11,0	200	4,0	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15
1098241	**A20SSCFPL09**	20	25,0	13,0	250	4,0	1/8-27 NPT	-2.0	CP..09T308	**MS1155**	T15

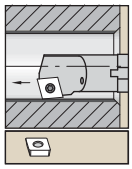


Codolo in metallo duro con adduzione interna di refrigerante.

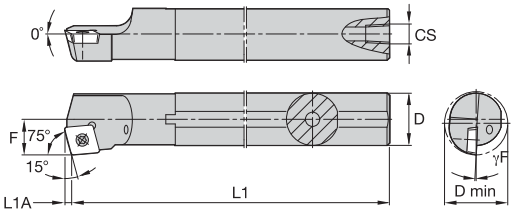


E-SCFP 90°

numero d'ordine	codice catalogo	D	D min	F	L1	A	γF°	inserto di riferimento	vite inserto	Torx
destro										
1152852	**E08KSCFPR06A**	8	11,0	6,0	125	2,4	-8.0	CP..060204	**MS1939**	T7
1152854	**E10MSCFPR06A**	10	13,0	7,0	150	3,2	-4.0	CP..060204	**MS1939**	T7
1152888	**E12QSCFPR06**	12	16,0	9,0	180	4,8	-3.0	CP..060204	**MS1153**	T7
sinistro										
1152853	**E08KSCFPL06A**	8	11,0	6,0	125	2,4	-8.0	CP..060204	**MS1939**	T7

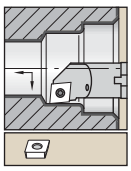


Codolo in acciaio con refrigerante interno.

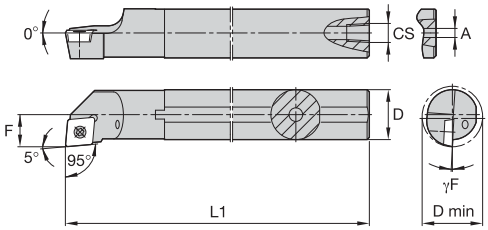


A-SCKP 75°

numero d'ordine	codice catalogo	D	D min	F	L1	L1A	CS	γF°	inserto di riferimento	vite inserto	Torx
destro											
1098236	**A20SSCKPR09**	20	25,0	13,0	250	2,3	1/8-27 NPT	-3.0	CP..09T308	**MS1155**	T15

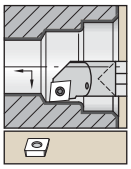


Codolo in acciaio con refrigerante interno.

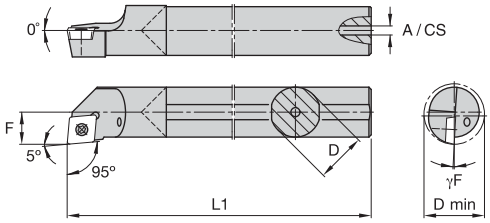


A-SCLP 95°

numero d'ordine	codice catalogo	D	D min	F	L1	A	CS	γF°	inserto di riferimento	vite inserto	Torx
destro											
1098156	**A08JSCLPR06**	.315	.433	.236	4.33	.09	—	-6.0	CP..060204	**MS1939**	T7
1098164	**A10KSCLPR06**	.390	.512	.276	4.92	.13	—	-4.0	CP..060204	**MS1939**	T7
1098174	**A12MSCLPR06**	.472	.630	.354	5.91	.16	1/16-27 NPT	-3.0	CP..060204	**MS1153**	T7
1886502	**A16RSCLPR06**	.630	.787	.433	7.87	—	1/8-27 NPT	-5.0	CP..060203	**MS1153**	T7
1098220	**A16RSCLPR09**	.630	.787	.433	7.87	.16	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15
1098234	**A20SSCLPR09**	.787	.984	.512	9.84	.16	1/8-27 NPT	-2.0	CP..09T308	**MS1155**	T15
1886504	**A20SSCLPR06**	.787	.984	.512	9.84	—	1/8-27 NPT	-3.0	CP..060203	**MS1153**	T7
sinistro											
1098160	**A08JSCLPL06**	.315	.433	.236	4.33	.09	—	-6.0	CP..060204	**MS1939**	T7
1098169	**A10KSCLPL06**	.390	.512	.276	4.92	.13	—	-4.0	CP..060204	**MS1939**	T7
1098179	**A12MSCLPL06**	.472	.630	.354	5.91	.16	1/16-27 NPT	-3.0	CP..060204	**MS1153**	T7
1886501	**A16RSCLPL06**	.630	.787	.433	7.87	—	1/8-27 NPT	-5.0	CP..060203	**MS1153**	T7
1098226	**A16RSCLPL09**	.630	.787	.433	7.87	.16	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15
1098240	**A20SSCLPL09**	.787	.984	.512	9.84	.16	1/8-27 NPT	-2.0	CP..09T308	**MS1155**	T15

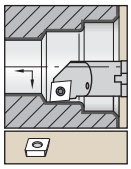


Codolo in metallo duro con refrigerante interno.

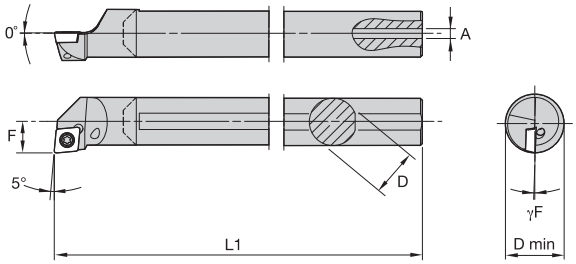


E-SCLP 95°

numero d'ordine	codice catalogo	D	D min	F	L1	A	γF°	inserto di riferimento	vite inserto	Torx
destro										
1152856	**E08KSCLPR06A**	8	11,0	6,0	122	2,4	-6.0	CP..060204	**MS1939**	T7
1152858	**E10MSCLPR06A**	10	13,0	7,0	150	3,2	-4.0	CP..060204	**MS1939**	T7
1152889	**E12QSCLPR06**	12	16,0	9,0	180	4,8	-3.0	CP..060204	**MS1153**	T7
1152897	**E16RSCLPR09**	16	20,0	11,0	200	5,5	-4.0	CP..09T308	**MS1155**	T15
1152902	**E20SSCLPR09**	20	25,0	13,0	250	7,1	-2.0	CP..09T308	**MS1155**	T15
sinistro										
1152857	**E08KSCLPL06A**	8	11,0	6,0	122	2,4	-6.0	CP..060204	**MS1939**	T7
1152859	**E10MSCLPL06A**	10	13,0	7,0	150	3,2	-4.0	CP..060204	**MS1939**	T7
1152891	**E12QSCLPL06**	12	16,0	9,0	180	4,8	-3.0	CP..060204	**MS1153**	T7
1152899	**E16RSCLPL09**	16	20,0	11,0	200	5,5	-4.0	CP..09T308	**MS1155**	T15
1152905	**E20SSCLPL09**	20	25,0	13,0	250	7,1	-2.0	CP..09T308	**MS1155**	T15

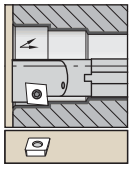


Barra in metallo pesante con refrigerante passante.

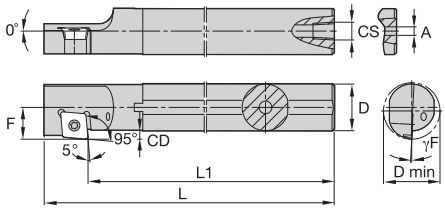


L-SCLP 95°

numero d'ordine	codice catalogo	D	D min	F	L1	A	γF°	inserto di riferimento	vite inserto	Torx
destro										
3331115	**L08KSCLPR06**	8	11,0	6,0	123	2,4	-6.0	CP..060204..	**MS1939**	T7
3331107	**L10MSCLPR06**	10	13,0	7,0	149	3,2	-4.0	CP..060204..	**MS1939**	T7
3331110	**L12QSCLPR06**	12	16,0	9,0	181	4,0	-3.0	CP..060204..	**MS1153**	T7
3331108	**L16RSCLPR09**	16	20,0	11,0	203	4,0	-4.0	CP..09T308..	**MS1155**	T15
3331106	**L20SSCLPR09**	20	25,0	13,0	251	4,0	-2.0	CP..09T308..	**MS1155**	T15
sinistro										
3331112	**L12QSCLPL06**	12	16,0	9,0	181	4,0	-3.0	CP..060204..	**MS1153**	T7
3331114	**L16RSCLPL09**	16	20,0	11,0	203	4,0	-4.0	CP..09T308..	**MS1155**	T15
3331109	**L20SSCLPL09**	20	25,0	13,0	251	4,0	-2.0	CP..09T308..	**MS1155**	T15

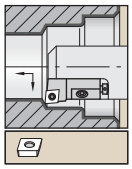


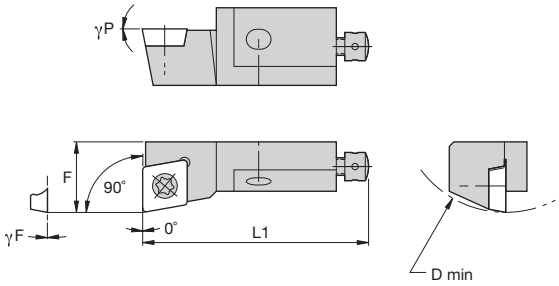
Codolo in acciaio con refrigerante interno.



A-SCXP 95°

numero d'ordine	codice catalogo	D	D min	F	L1	L	A	CS	γF°	inserto di riferimento	vite inserto	Torx
destro												
1098167	**A10KSCXPR06**	10	13,0	7,0	125	136,0	3,2	—	-4.0	CP..060204	**MS1153**	T7
1098177	**A12MSCXPR06**	12	16,0	9,0	150	161,0	4,0	1/16-27 NPT	-3.0	CP..060204	**MS1153**	T7
1098223	**A16RSCXPR09**	16	20,0	11,0	200	218,0	4,0	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15





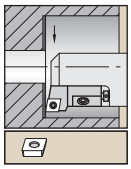
SCFP 90°

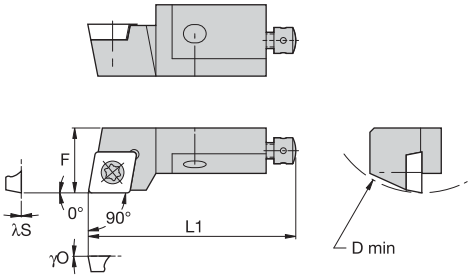
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098551	**SCFPR06CA05**	20	8,0	25	0.0	0.0	CP..050204/CP..18151
1082671	**SCFPR08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151
1797235	**SCFPR10CA09**	40	14,0	50	0.0	0.0	CP..09T308/CP..3252
sinistro							
1098766	**SCFPL08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151

NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
L'utensile SCFPR/L08CA06 accetta anche gli inserti CPGM/CPGT/CPGW0602..

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
20	**MS1933**	T7	**KUAM34**	1.5 mm	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





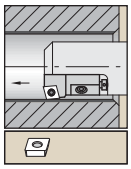
SCGP 90°

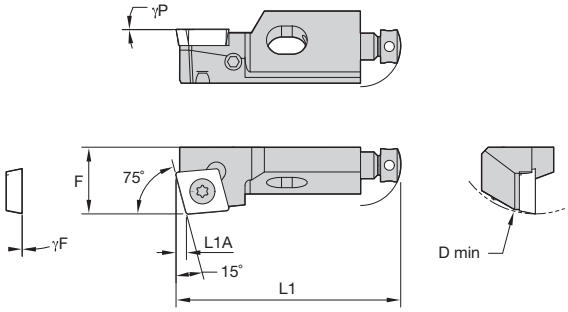
numero d'ordine	codice catalogo	D min	F	L1	λS°	γO°	inserto di riferimento
destro							
1098554	**SCGPR08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151

NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
Questo utensile accetta anche gli inserti CPGM/CPGT/CPGW0602..

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





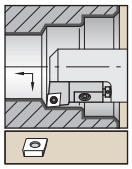
SCKP 75°

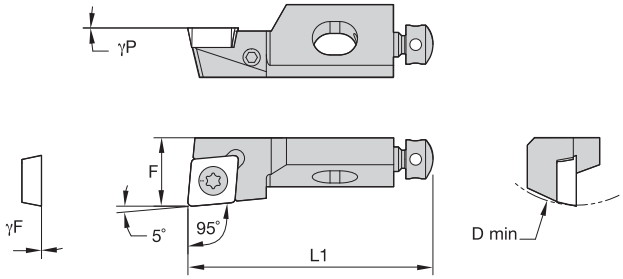
numero d'ordine	codice catalogo	D min	F	L1	L1A	γF°	γP°	inserto di riferimento
destro								
1098552	**SCKPR08CA06**	25	10,0	32	1,6	0.0	0.0	CP..060204/CP..2151
sinistro								
1098763	**SCKPL08CA06**	25	10,0	32	1,6	0.0	0.0	CP..060204/CP..2151

NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
Questo utensile accetta anche gli inserti CPGM/CPGT/CPGW0602.

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





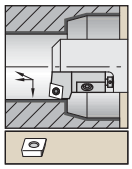
SCLP 95°

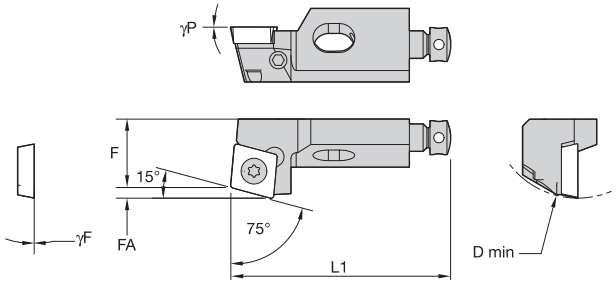
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098541	**SCLPR06CA05**	20	8,0	25	0.0	0.0	CP..050204/CP..18151
1098542	**SCLPR08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151
1098543	**SCLPR10CA09**	40	14,0	50	0.0	0.0	CP..09T308/CP..3252
sinistro							
1098730	**SCLPL08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151
1098731	**SCLPL10CA09**	40	14,0	50	0.0	0.0	CP..09T308/CP..3252

NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
L'utensile SCLPR/L08CA06 accetta anche gli inserti CPGM/CPGT/CPGW0602..
Compatibili con inserti ANSI/ISO con foro svasato a 60° CPMT/CPGT/CPGW09T3..
Gli inserti con foro con svasatura a 90° (CPGM/CPGB09T3..) non sono utilizzabili con l'utensile SCLPR/L10CA09.

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
20	**MS1933**	T7	**KUAM34**	1.5 mm	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





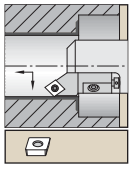
SCRP 75°

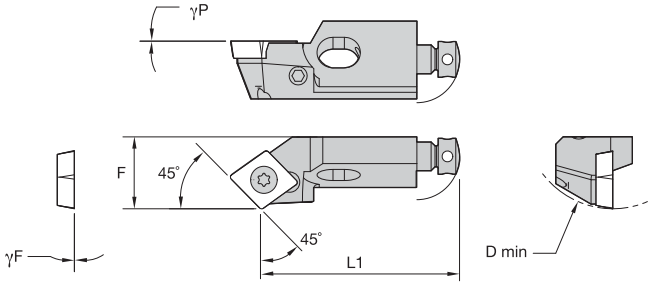
numero d'ordine	codice catalogo	D min	F	L1	FA	γF°	γP°	inserto di riferimento
destro								
1098555	**SCRPR08CA06**	25	10,0	32	1,5	0.0	0.0	CP..060204/CP..2151

NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
Questo utensile accetta anche gli inserti CPGM/CPGT/CPGW0602..

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





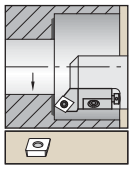
SCSP 45°

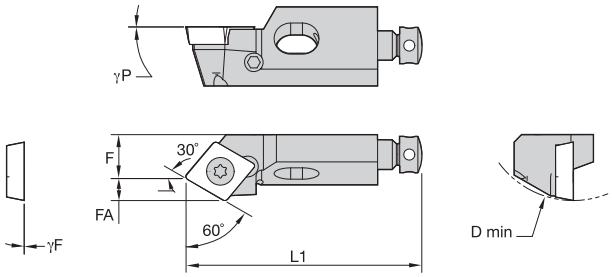
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098328	**SCSPR06CA05**	20	8,0	21	0.0	0.0	CP..050204/CP..18151
1086536	**SCSPR08CA06**	25	10,0	28	0.0	0.0	CP..060204/CP..2151
sinistro							
1098548	**SCSPL06CA05**	20	8,0	21	0.0	0.0	CP..050204/CP..18151
1098549	**SCSPL08CA06**	25	10,0	28	0.0	0.0	CP..060204/CP..2151

NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
L'utensile accetta anche gli inserti CPGM/CPGT/CPGW0602..

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
20	**MS1933**	T7	**–**	–	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





SCTP 60°

numero d'ordine	codice catalogo	D min	F	L1	FA	γF°	γP°	inserto di riferimento
destro								
1098556	**SCTPR06CA05**	20	5,5	25	2,6	0.0	0.0	CP..050204/CP..18151
1098557	**SCTPR08CA06**	25	6,0	32	3,0	0.0	0.0	CP..060204/CP..2151
sinistro								
1098736	**SCTPL08CA06**	25	6,0	32	3,0	0.0	0.0	CP..060204/CP..2151

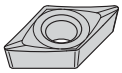
NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
L'utensile SCTPR/L08CA06 accetta anche gli inserti CPGM/CPGT/CPGW0602..

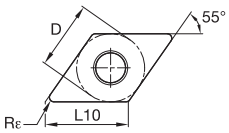
Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
20	**MS1933**	T7	**–**	–	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**

● prima scelta
○ scelta alternativa

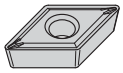
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

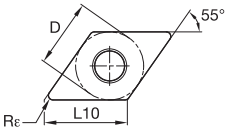




DCGT-HP

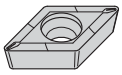
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCGT070202HP	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT070204HP	6,35	7,75	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT070208HP	6,35	7,75	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
DCGT11T302HP	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT11T304HP	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT11T308HP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–

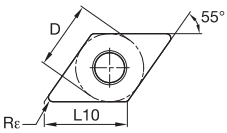




DCGT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCGT0702X0LF	6,35	7,75	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DCGT070201LF	6,35	7,75	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT11T3X0LF	9,53	11,63	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DCGT11T301LF	9,53	11,63	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT150408LF	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–



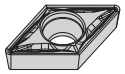


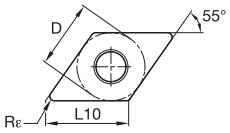
DCMT-11

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT07020211	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT07020411	6,35	7,75	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT11T30411	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT11T30811	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

● prima scelta
○ scelta alternativa

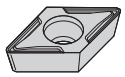
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

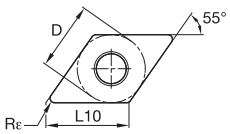




DCMT-FP

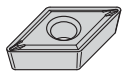
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT070202FP	6,35	7,75	0,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	●
DCMT070204FP	6,35	7,75	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–
DCMT070208FP	6,35	7,75	0,8	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T302FP	9,53	11,63	0,2	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T304FP	9,53	11,63	0,4	●	●	●	●	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T308FP	9,53	11,63	0,8	●	●	●	–	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T312FP	9,53	11,63	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DCMT150404FP	12,70	15,50	0,4	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DCMT150408FP	12,70	15,50	0,8	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–

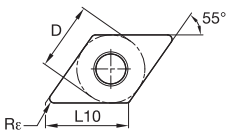




DCMT-FW

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT11T304FW	9,53	11,63	0,2	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DCMT11T308FW	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–



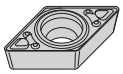


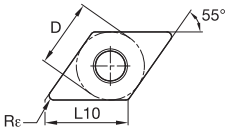
DCMT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT070202LF	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–
DCMT070204LF	6,35	7,75	0,4	–	●	●	●	●	●	–	–	–	●	–	–	●	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
DCMT11T302LF	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
DCMT11T304LF	9,53	11,63	0,4	●	●	●	●	●	●	–	–	●	–	●	●	●	●	●	●	●	–	–	●	–	–	–	–	●	●	–	●	–
DCMT11T308LF	9,53	11,63	0,8	–	●	●	●	●	–	–	–	●	●	●	●	●	●	●	●	●	–	–	●	–	–	●	–	●	●	–	●	–
DCMT11T312LF	9,53	11,63	1,2	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DCMT150404LF	12,70	15,50	0,4	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
DCMT150408LF	12,70	15,50	0,8	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

● prima scelta
○ scelta alternativa

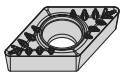
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

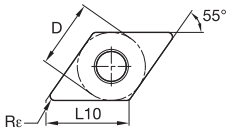




DCMT-MF

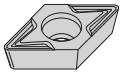
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT11T304MF	9,53	11,63	0,4	–	●	●	●	●	●	–	–	–	–	●	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–
DCMT11T308MF	9,53	11,63	0,8	–	●	●	●	●	●	–	–	–	–	●	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–
DCMT11T312MF	9,53	11,63	1,2	–	●	●	●	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

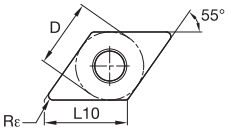




DCMT-MP

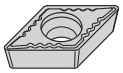
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT11T304MP	9,53	11,63	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T308MP	9,53	11,63	0,8	–	–	●	–	●	–	–	–	–	–	–	●	●	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T312MP	9,53	11,63	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

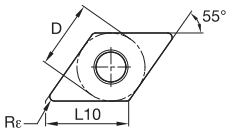




DCMT-MW

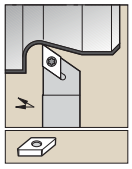
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT11T304MW	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T308MW	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

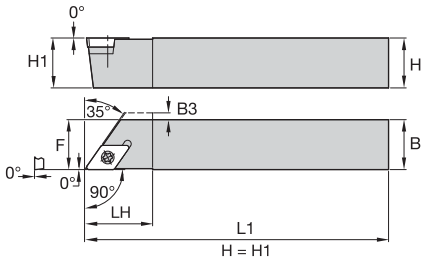


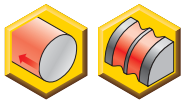


DCMT-UF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT070204UF	6,35	7,75	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DCMT11T302UF	9,53	11,63	0,2	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DCMT11T304UF	9,53	11,63	0,4	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DCMT11T308UF	9,53	11,63	0,8	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

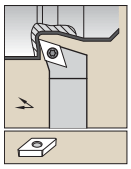


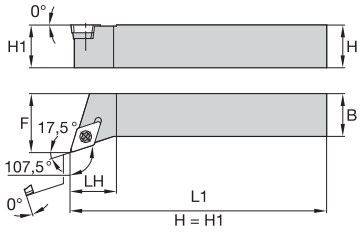


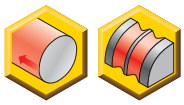


SDAC 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro													
1772159	**SDACR1212M11Q**	12	12	12,0	150	22,0	1,5	DC..11T308	**–**	**–**	–	**MS1155**	T15
1097720	**SDACR1616K11Q**	16	16	16,0	125	22,0	–	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro													
1772160	**SDACL1212M11Q**	12	12	12,0	150	22,0	1,5	DC..11T308	**–**	**–**	–	**MS1155**	T15

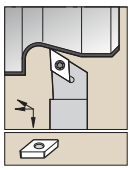


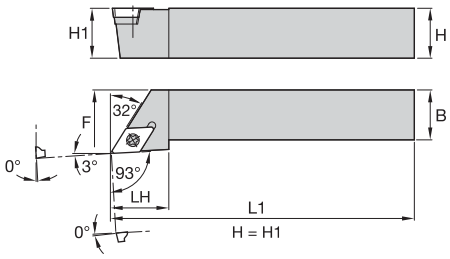


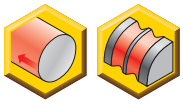


SDHC 107,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1097841	**SDHCR1616H11**	16	16	20,0	100	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097989	**SDHCR2020K11**	20	20	25,0	125	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1130381	**SDHCR2525M11**	25	25	32,0	150	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097843	**SDHCR2525M15**	25	25	32,0	150	25,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
sinistro												
1097986	**SDHCL1616H11**	16	16	20,0	100	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097930	**SDHCL2020K11**	20	20	25,0	125	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1124630	**SDHCL2525M11**	25	25	32,0	150	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097988	**SDHCL2525M15**	25	25	32,0	150	25,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15

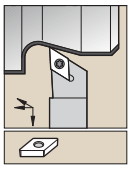


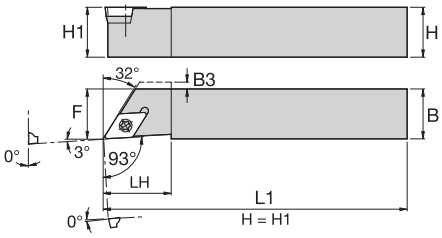




SDJC 93°

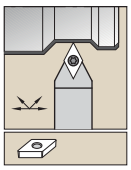
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1097847	**SDJCR0808L07**	8	8	10,0	140	16,0	DC..070204	–	–	–	**MS1153**	T7
1097848	**SDJCR1010M07**	10	10	12,0	150	16,0	DC..070204	–	–	–	**MS1153**	T7
1097849	**SDJCR1212N07**	12	12	16,0	160	16,0	DC..070204	–	–	–	**MS1153**	T7
1097850	**SDJCR1212N11**	12	12	16,0	160	22,0	DC..11T308	–	–	–	**MS1155**	T15
1244972	**SDJCR1616H07**	16	16	20,0	100	16,0	DC..070204	–	–	–	**MS1153**	T7
1097851	**SDJCR1616H11**	16	16	20,0	100	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1244974	**SDJCR2020K07**	20	20	25,0	125	16,0	DC..070204	–	–	–	**MS1153**	T7
1097853	**SDJCR2020K11**	20	20	25,0	125	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097852	**SDJCR2020K15**	20	20	25,0	125	32,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
1097854	**SDJCR2525M11**	25	25	32,0	150	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097855	**SDJCR2525M15**	25	25	32,0	150	32,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
sinistro												
1097997	**SDJCL0808L07**	8	8	10,0	140	16,0	DC..070204	–	–	–	**MS1153**	T7
1097998	**SDJCL1010M07**	10	10	12,0	150	16,0	DC..070204	–	–	–	**MS1153**	T7
1097999	**SDJCL1212N07**	12	12	16,0	160	16,0	DC..070204	–	–	–	**MS1153**	T7
1098000	**SDJCL1212N11**	12	12	16,0	160	22,0	DC..11T308	–	–	–	**MS1155**	T15
1244966	**SDJCL1616H07**	16	16	20,0	100	16,0	DC..070204	–	–	–	**MS1153**	T7
1098001	**SDJCL1616H11**	16	16	20,0	100	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1244968	**SDJCL2020K07**	20	20	25,0	125	16,0	DC..070204	–	–	–	**MS1153**	T7
1098003	**SDJCL2020K11**	20	20	25,0	125	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1192473	**SDJCL2525M11**	25	25	32,0	150	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098004	**SDJCL2525M15**	25	25	32,0	150	32,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15

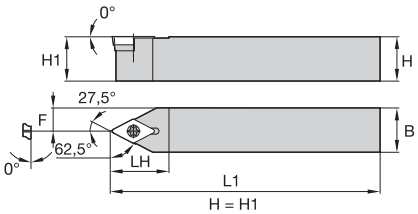




SDJC-F 93°

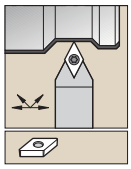
numero d'ordine	codice catalogo	H	B	F	L1	LH	B3	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro													
1772157	**SDJCRF0808M07Q**	8	8	8,0	150	16,0	1,5	DC..070204	**–**	**–**	–	**MS1153**	T7
1097844	**SDJCRF1010M07Q**	10	10	10,0	150	16,0	–	DC..070204	**–**	**–**	–	**MS1153**	T7
1097845	**SDJCRF1212M07Q**	12	12	12,0	150	16,0	–	DC..070204	**–**	**–**	–	**MS1153**	T7
1097846	**SDJCRF1616K11Q**	16	16	16,0	125	22,0	–	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro													
1097996	**SDJCLF1616K11Q**	16	16	16,0	125	22,0	–	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15

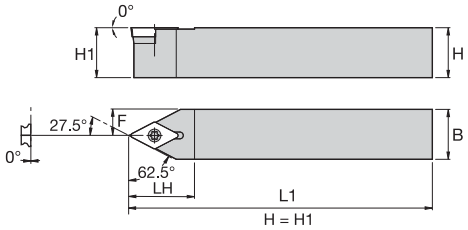


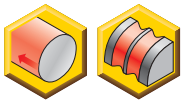


SDNC 62,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
sinistro												
1097856	**SDNCN0808L07**	8	8	4,0	140	16,0	DC..070204	**–**	**–**	–	**MS1153**	T7
1097857	**SDNCN1010M07**	10	10	5,0	150	16,0	DC..070204	**–**	**–**	–	**MS1153**	T7
1097858	**SDNCN1212N07**	12	12	6,0	160	16,0	DC..070204	**–**	**–**	–	**MS1153**	T7
1097859	**SDNCN1616H11**	16	16	8,0	100	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097861	**SDNCN2020K11**	20	20	10,0	125	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097860	**SDNCN2020K15**	20	20	10,0	125	28,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
1097862	**SDNCN2525M15**	25	25	12,5	150	28,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15



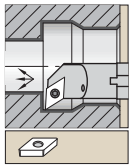




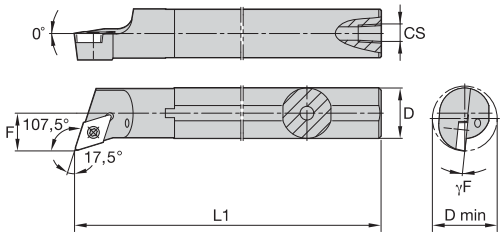
SDPC 62,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	vite inserto	Torx
1772173	**SDPCN1212M11Q**	12	12	6,0	150	22,0	DC..11T308	**MS1155**	T15

Bareni Screw-on

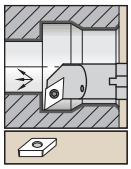


Codolo in acciaio con refrigerante interno.

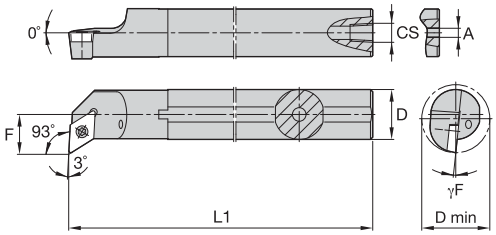


A-SDQC 107,5°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	vite inserto	Torx
destro										
1098188	**A12MSDQCR07**	12	16,0	9,0	150	1/16-27 NPT	-6.0	DC..070204	**MS1153**	T7
1098198	**A16RSDQCR07**	16	20,0	11,0	200	1/8-27 NPT	-5.0	DC..070204	**MS1153**	T7
1098147	**A20SSDQCR11**	20	25,0	13,0	250	1/8-27 NPT	-5.0	DC..11T308	**MS1155**	T15
1098260	**A25TSDQCR11**	25	32,0	17,0	300	1/4-18 NPT	-4.0	DC..11T308	**MS1155**	T15
sinistro										
1098193	**A12MSDQCL07**	12	16,0	9,0	150	1/16-27 NPT	-6.0	DC..070204	**MS1153**	T7
1098203	**A16RSDQCL07**	16	20,0	11,0	200	1/8-27 NPT	-5.0	DC..070204	**MS1153**	T7
1098149	**A20SSDQCL11**	20	25,0	13,0	250	1/8-27 NPT	-5.0	DC..11T308	**MS1155**	T15
1098264	**A25TSDQCL11**	25	32,0	17,0	300	1/4-18 NPT	-4.0	DC..11T308	**MS1155**	T15



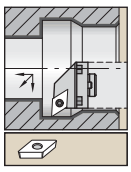
Codolo in acciaio con refrigerante interno.



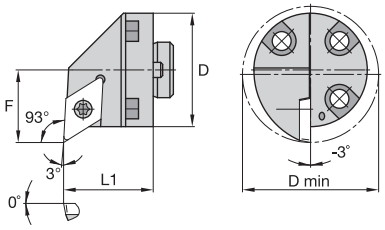
A-SDUC 93°

numero d'ordine	codice catalogo	D	D min	F	L1	A	CS	γF°	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro														
1886506	**A10KSDUCR07**	10	13,0	7,0	125	3,2	–	-7.0	DC..070204	–	–	–	**MS1153**	T7
1098187	**A12MSDUCR07**	12	16,0	9,0	150	–	1/16-27 NPT	-4.0	DC..070204	–	–	–	**MS1153**	T7
1098197	**A16RSDUCR07**	16	20,0	11,0	200	–	1/8-27 NPT	-4.0	DC..070204	–	–	–	**MS1153**	T7
1886508	**A16RSDUCR11**	16	20,0	11,0	200	–	1/8-27 NPT	-6.0	DC..11T308	–	–	–	**MS1155**	T15
1098146	**A20SSDUCR11**	20	25,0	13,0	250	–	1/8-27 NPT	-5.0	DC..11T308	–	–	–	**MS1155**	T15
1098259	**A25TSDUCR11**	25	32,0	17,0	300	–	1/4-18 NPT	-4.0	DC..11T308	–	–	–	**MS1155**	T15
1098283	**A32TSDUCR15**	32	40,0	22,0	300	–	1/4-18 NPT	-7.0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
sinistro														
1886505	**A10KSDUCL07**	10	13,0	7,0	125	3,2	–	-7.0	DC..070204	–	–	–	**MS1153**	T7
1098192	**A12MSDUCL07**	12	16,0	9,0	150	–	1/16-27 NPT	-4.0	DC..070204	–	–	–	**MS1153**	T7
1098202	**A16RSDUCL07**	16	20,0	11,0	200	–	1/8-27 NPT	-4.0	DC..070204	–	–	–	**MS1153**	T7
1886507	**A16RSDUCL11**	16	20,0	11,0	200	–	1/8-27 NPT	-6.0	DC..11T308	–	–	–	**MS1155**	T15
1098148	**A20SSDUCL11**	20	25,0	13,0	250	–	1/8-27 NPT	-5.0	DC..11T308	–	–	–	**MS1155**	T15
1098263	**A25TSDUCL11**	25	32,0	17,0	300	–	1/4-18 NPT	-4.0	DC..11T308	–	–	–	**MS1155**	T15
1098284	**A32TSDUCL15**	32	40,0	22,0	300	–	1/4-18 NPT	-7.0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15

Testine di barenatura Screw-on



Con adduzione interna di refrigerante.

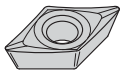


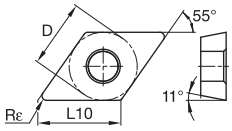
H-SDUC 93°

numero d'ordine	codice catalogo	D	D min	F	L1	inserto di riferimento	vite inserto	Torx
destro								
1772255	**H25SDUCR11**	25	32,0	17,0	20	DC..11T308	**MS1155**	T15
1772257	**H32SDUCR11**	32	40,0	22,0	25	DC..11T308	**MS1155**	T15
3612136	**H40SDUCR11**	40	50,0	27,0	41	DC..11T308	**MS1156**	T15
3612138	**H50SDUCR11**	50	63,0	35,0	41	DC..11T308	**MS1156**	T15
sinistro								
1772256	**H25SDUCL11**	25	32,0	17,0	20	DC..11T308	**MS1155**	T15
1772258	**H32SDUCL11**	32	40,0	22,0	25	DC..11T308	**MS1155**	T15
3612139	**H50SDUCL11**	50	63,0	35,0	41	DC..11T308	**MS1156**	T15

● prima scelta
○ scelta alternativa

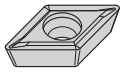
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

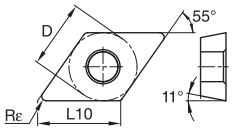




DPGT-HP

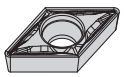
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPGT070202HP	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPGT070204HP	6,35	7,75	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–
DPGT070208HP	6,35	7,75	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DPGT11T304HP	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	–	●	–	–
DPGT11T308HP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–

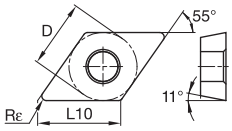




DPGT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPGT070201LF	6,35	7,75	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPGT070202LF	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DPGT070204LF	6,35	7,75	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T301LF	9,53	11,63	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPGT11T302LF	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T304LF	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T308LF	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–



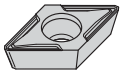


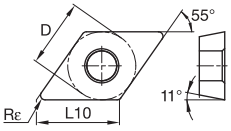
DPMT-FP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070202FP	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DPMT070204FP	6,35	7,75	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	●
DPMT070208FP	6,35	7,75	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
DPMT11T304FP	9,53	11,63	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
DPMT11T308FP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●

● prima scelta
○ scelta alternativa

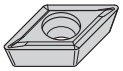
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

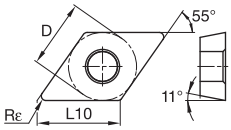




DPMT-FW

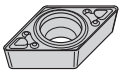
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070204FW	6,35	7,75	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DPMT070208FW	6,35	7,75	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

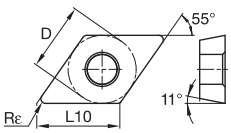




DPMT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070202LF	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
DPMT070204LF	6,35	7,75	0,4	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
DPMT11T302LF	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPMT11T304LF	9,53	11,63	0,4	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	●	●	–	●	–
DPMT11T308LF	9,53	11,63	0,8	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–



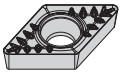


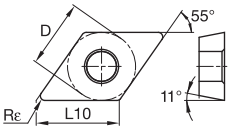
DPMT-MF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT11T308MF	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

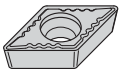
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

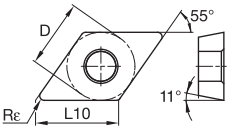




DPMT-MP

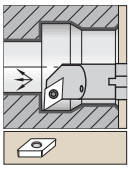
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT11T308MP	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



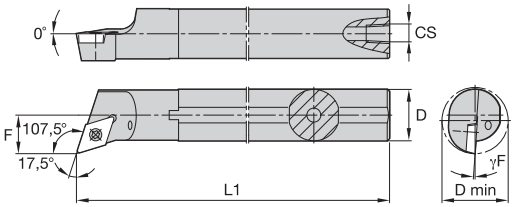


DPMT-UF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070204UF	6,35	7,75	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPMT11T304UF	9,53	11,63	0,4	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DPMT11T308UF	9,53	11,63	0,8	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

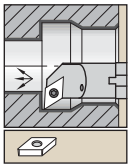


Codolo in acciaio con refrigerante interno.

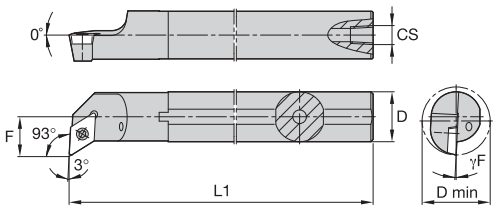


A-SDQP 107,5°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	vite inserto	Torx
destro										
1098186	**A12MSDQPR07**	12	16,0	9,0	150	1/16-27 NPT	-2.0	DP..070204	**MS1153**	T7
1098196	**A16RSDQPR07**	16	20,0	11,0	200	1/8-27 NPT	0.0	DP..070204	**MS1153**	T7
1098247	**A20SSDQPR11**	20	25,0	13,0	250	1/8-27 NPT	-2.0	DP..11T308	**MS1155**	T15
1098258	**A25TSDQPR11**	25	32,0	17,0	300	1/4-18 NPT	0.0	DP..11T308	**MS1155**	T15
sinistro										
1098191	**A12MSDQPL07**	12	16,0	9,0	150	1/16-27 NPT	-2.0	DP..070204	**MS1153**	T7
1098201	**A16RSDQPL07**	16	20,0	11,0	200	1/8-27 NPT	0.0	DP..070204	**MS1153**	T7
1098252	**A20SSDQPL11**	20	25,0	13,0	250	1/8-27 NPT	-2.0	DP..11T308	**MS1155**	T15
1098262	**A25TSDQPL11**	25	32,0	17,0	300	1/4-18 NPT	0.0	DP..11T308	**MS1155**	T15

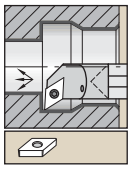


Codolo in acciaio con refrigerante interno.

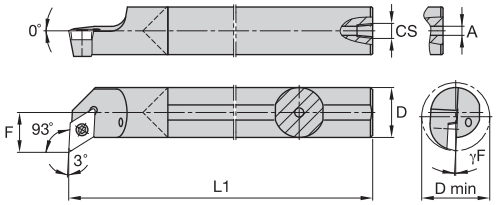


A-SDUP 93°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	vite inserto	Torx
destro										
1098184	**A12MSDUPR07**	12	16,0	9,0	150	1/16-27 NPT	-2.0	DP..070204	**MS1153**	T7
1098194	**A16RSDUPR07**	16	20,0	11,0	200	1/8-27 NPT	0.0	DP..070204	**MS1153**	T7
1098245	**A20SSDUPR11**	20	25,0	13,0	250	1/8-27 NPT	-2.0	DP..11T308	**MS1155**	T15
1098257	**A25TSDUPR11**	25	32,0	17,0	300	1/4-18 NPT	0.0	DP..11T308	**MS1155**	T15
sinistro										
1098189	**A12MSDUPL07**	12	16,0	9,0	150	1/16-27 NPT	-2.0	DP..070204	**MS1153**	T7
1098199	**A16RSDUPL07**	16	20,0	11,0	200	1/8-27 NPT	0.0	DP..070204	**MS1153**	T7
1098250	**A20SSDUPL11**	20	25,0	13,0	250	1/8-27 NPT	-2.0	DP..11T308	**MS1155**	T15

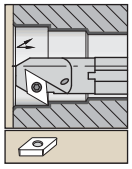


Codolo in metallo duro con refrigerante interno.

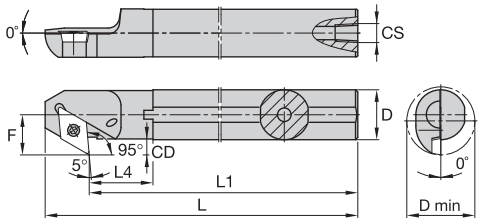


E-SDUP 93°

numero d'ordine	codice catalogo	D	D min	F	L1	A	γF°	inserto di riferimento	vite inserto	Torx
destro										
1152892	**E12QSDUPR07**	12	16,0	9,0	180	4,8	-2.0	DP..070204	**MS1153**	T7
1152894	**E16RSDUPR07**	16	20,0	11,0	200	5,5	0.0	DP..070204	**MS1153**	T7
1152906	**E20SSDUPR11**	20	25,0	13,0	250	7,1	-2.0	DP..11T308	**MS1155**	T15
sinistro										
1152893	**E12QSDUPL07**	12	16,0	9,0	180	4,8	-2.0	DP..070204	**MS1153**	T7
1152895	**E16RSDUPL07**	16	20,0	11,0	200	5,5	0.0	DP..070204	**MS1153**	T7
1152907	**E20SSDUPL11**	20	25,0	13,0	250	7,1	-2.0	DP..11T308	**MS1155**	T15

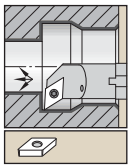


Codolo in metallo duro con refrigerante interno.

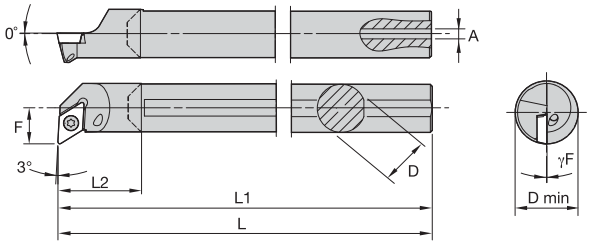


A-SDXP 95°

numero d'ordine	codice catalogo	D	D min	F	L1	L	L4	CD	CS	inserto di riferimento	vite inserto	Torx
destro												
1098185	**A12MSDXPR07**	12	16,0	9,0	150	162,0	—	3,09	1/16-27 NPT	DP..070204	**MS1153**	T7
1098195	**A16RSDXPR07**	16	20,0	11,0	200	212,0	—	3,20	1/8-27 NPT	DP..070204	**MS1153**	T7
1098246	**A20SSDXPR11**	20	25,0	13,0	250	270,0	48,44	4,31	1/8-27 NPT	DP..11T308	**MS1155**	T15
sinistro												
1098190	**A12MSDXPL07**	12	16,0	9,0	150	162,0	—	3,09	1/16-27 NPT	DP..070204	**MS1153**	T7
1098200	**A16RSDXPL07**	16	20,0	11,0	200	212,0	—	3,20	1/8-27 NPT	DP..070204	**MS1153**	T7
1098251	**A20SSDXPL11**	20	25,0	13,0	250	270,0	48,44	4,31	1/8-27 NPT	DP..11T308	**MS1155**	T15

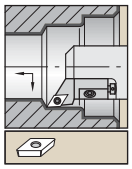


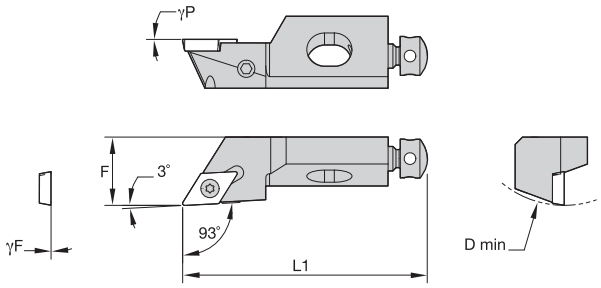
Barra in metallo pesante con refrigerante passante.



L-SDUP 93°

numero d'ordine	codice catalogo	D	D min	F	L1	L	L2	A	γF°	inserto di riferimento	vite inserto	Torx
destro												
3331116	**L12QSDUPR07**	12	16,0	9,0	181	181,2	22,4	4,0	-2.0	DP..070204..	**MS1153**	T7
3331117	**L20SSDUPR11**	20	25,0	13,0	251	251,5	33,6	4,0	-2.0	DP..11T308..	**MS1155**	T15
sinistro												
3331121	**L12QSDUPL07**	12	16,0	9,0	181	181,2	22,4	4,0	-2.0	DP..070204..	**MS1153**	T7



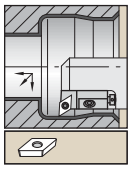


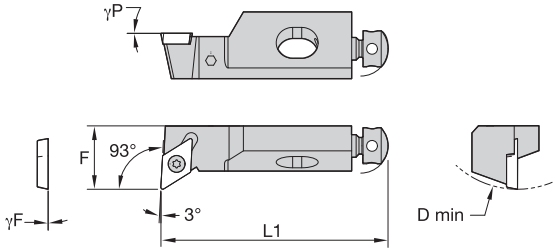
SDJP 93°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098757	**SDJPR10CA07**	40	14,0	50	0.0	0.0	DP..070204/DP..2151
sinistro							
1098758	**SDJPL10CA07**	40	14,0	50	0.0	0.0	DP..070204/DP..2151

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SDUP 93°

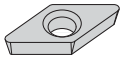
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098728	**SDUPR10CA07**	40	14,0	50	0.0	0.0	DP..070204/DP..2151

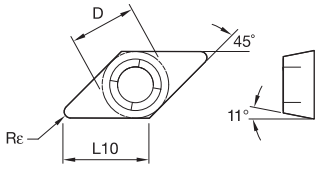
Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

● prima scelta
○ scelta alternativa

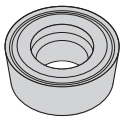
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

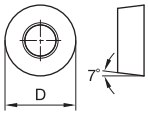




GPCD

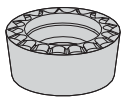
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
GPCD050102	3,97	5,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
GPCD050104	3,97	5,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

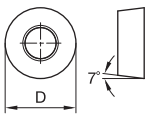




RCGH

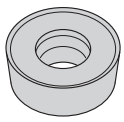
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGH120400	12,70	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

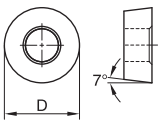




RCGH-MP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGH120400MP	12,70	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–



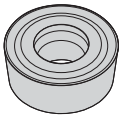
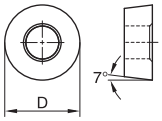


RCGT-HP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGT0803M0HP	8,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	●	–	●	–	–
RCGT10T3M0HP	10,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
RCGT1204M0HP	12,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	–	–	–

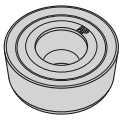
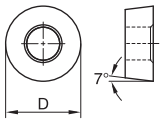
● prima scelta
○ scelta alternativa

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

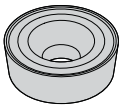
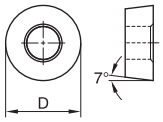
RCGT-MS

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGT0803M0MS	8,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
RCGT1204M0MS	12,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
RCGT1606M0MS	16,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–

RCGT-RP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGT0602M0RP	6,00	—	—	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCGT0803M0RP	8,00	—	—	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCGT1204M0RP	12,00	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

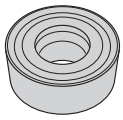



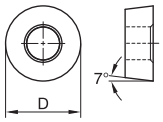
RCMH-K

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMH190600K	19,05	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

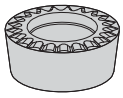
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

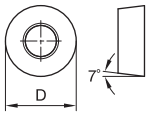




RCMT

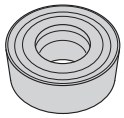
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT0602M0	6,00	—	—	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	●	–	●	–	–	–	–
RCMT060200	6,35	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
RCMT0803M0	8,00	—	—	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	–	–	–	●	–	–	–	–
RCMT09T300	9,53	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–
RCMT10T3M0	10,00	—	—	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–
RCMT1204M0	12,00	—	—	–	–	–	–	–	●	–	–	–	●	–	●	●	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–
RCMT120400	12,70	—	—	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–
RCMT1605M0	16,00	—	—	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–
RCMT2006M0	20,00	—	—	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–

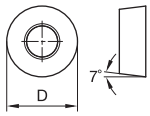




RCMT-MP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT0803M0MP	8,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT10T3M0MP	10,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT1204M0MP	12,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT120400MP	12,70	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT1606M0MP	16,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–



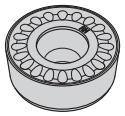


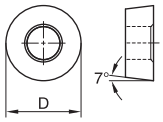
RCMT-M0

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT1204M0	12,00	—	—	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

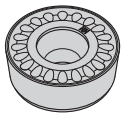
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

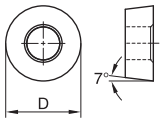




RCMT-RH

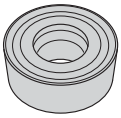
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT2006M0RH	20,00	—	—	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

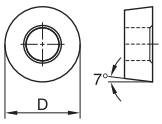




RCMX-RH

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMX2507M0RH	25,00	—	—	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMX3209M0RH	32,00	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

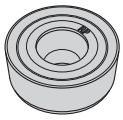


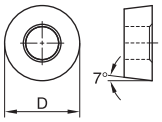


RCMT-RM

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT2006M0RM	20,00	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

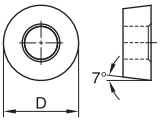
● prima scelta
○ scelta alternativa





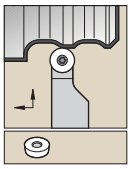
RCMT-RP

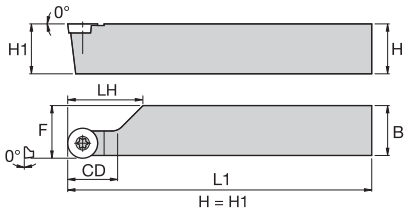
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
				M							○							●	●	●	●	●	●	●	●	●	●	●	●		●	●
				K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
				N																			●	●	●		●	●	●	●	●		
				S																			●	●	●	●	●	●	●	●			
				H																												
RCMT1204M0RP	12,00	—	—	–	●	●	●	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMT1606M0RP	16,00	—	—	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMT2006M0RP	20,00	—	—	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



RCMX-RP

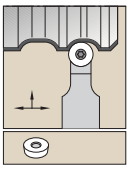
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMX1003M0RP	10,00	—	—	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMX2507M0RP	25,00	—	—	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

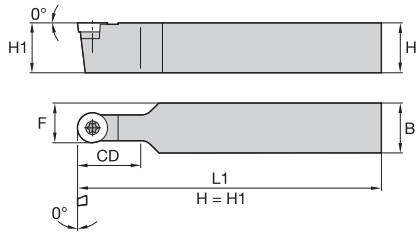




SRAC

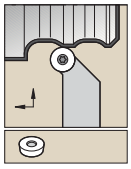
numero d'ordine	codice catalogo	H	B	F	L1	LH	CD	inserto di riferimento	vite inserto	Torx
destro										
1097887	**SRACR1212N08**	12	12	13,0	160	31,0	12,0	RC..0803M0	**MS1154**	T9
1097888	**SRACR1616Q08**	16	16	17,0	180	35,0	16,0	RC..0803M0	**MS1154**	T9

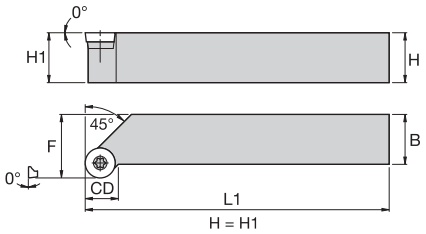




SRDC

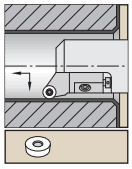
numero d'ordine	codice catalogo	H	B	F	L1	CD	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
1097892	**SRDCN1212N06**	12	12	9,0	160	12,0	RC..0602M0	–	–	–	**MS1153**	T7
1097891	**SRDCN1212N08**	12	12	10,0	160	12,0	RC..0803M0	–	–	–	**MS1154**	T9
1097899	**SRDCN1616H06**	16	16	11,0	100	16,0	RC..0602M0	–	–	–	**MS1153**	T7
1097897	**SRDCN1616H08**	16	16	12,0	100	16,0	RC..0803M0	–	–	–	**MS1154**	T9
1097898	**SRDCN1616H10**	16	16	13,0	100	16,0	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097893	**SRDCN1616Q08**	16	16	12,0	180	16,0	RC..0803M0	–	–	–	**MS1154**	T9
1097900	**SRDCN2020K08**	20	20	14,0	125	20,0	RC..0803M0	–	–	–	**MS1154**	T9
1097901	**SRDCN2020K10**	20	20	15,0	125	20,0	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097894	**SRDCN2020K12**	20	20	16,0	125	20,0	RC..1204M0	**SKRN1203M0**	**SRS3**	3.5 mm	**MS1156**	T15
1097903	**SRDCN2525M08**	25	25	16,5	150	25,0	RC..0803M0	–	–	–	**MS1154**	T9
1097902	**SRDCN2525M10**	25	25	17,5	150	25,0	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097895	**SRDCN2525M12**	25	25	18,5	150	25,0	RC..1204M0	**SKRN1203M0**	**SRS3**	3.5 mm	**MS1156**	T15
1097896	**SRDCN2525M16**	25	25	20,5	150	25,0	RC..1605M0	**SKRN160400**	**SRS5**	4 mm	**MS1160**	T15

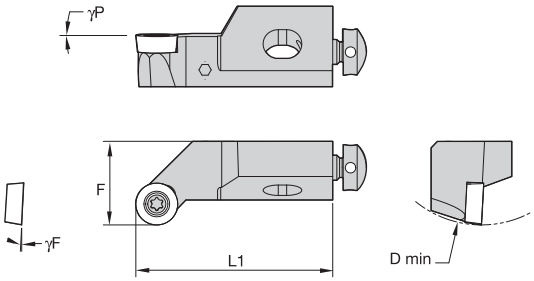




SRGC

numero d'ordine	codice catalogo	H	B	F	L1	CD	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1097792	**SRGCR1616H06**	16	16	20,0	100	7,0	RC..0602M0	**–**	**–**	–	**MS1153**	T7
1097791	**SRGCR1616H10**	16	16	20,0	100	7,9	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097793	**SRGCR2020K08**	20	20	25,0	125	9,0	RC..0803M0	**–**	**–**	–	**MS1154**	T9
1097794	**SRGCR2020K10**	20	20	25,0	125	9,3	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097796	**SRGCR2525M08**	25	25	32,0	150	11,8	RC..0803M0	**–**	**–**	–	**MS1154**	T9
1097795	**SRGCR2525M10**	25	25	32,0	150	12,1	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097788	**SRGCR2525M12**	25	25	32,0	150	12,7	RC..1204M0	**SKRN1203M0**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro												
1097937	**SRGCL1616H06**	16	16	20,0	100	7,0	RC..0602M0	**–**	**–**	–	**MS1153**	T7
1097936	**SRGCL1616H10**	16	16	20,0	100	7,9	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097938	**SRGCL2020K08**	20	20	25,0	125	9,0	RC..0803M0	**–**	**–**	–	**MS1154**	T9
1097941	**SRGCL2525M08**	25	25	32,0	150	11,8	RC..0803M0	**–**	**–**	–	**MS1154**	T9
1097940	**SRGCL2525M10**	25	25	32,0	150	12,1	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097933	**SRGCL2525M12**	25	25	32,0	150	12,7	RC..1204M0	**SKRN1203M0**	**SRS3**	3.5 mm	**MS1156**	T15





SRGC

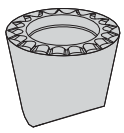
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098711	**SRGCR08CA06**	25	10,0	32	-4.0	0.0	RC..0602M0/RC..215
1098713	**SRGCR12CA10**	50	20,0	55	-3.0	0.0	RC..10T3M0/RC..10T3M0

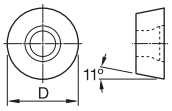
Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**

Inserti in metallo duro ISO

● prima scelta
○ scelta alternativa





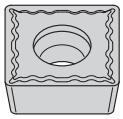
RPGT-MP

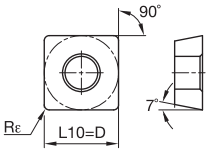
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P																												
				M																												
				K																												
				N																												
				S																												
				H																												
RPGT060400MP	6,35	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

NOTA: Per gli utensile stile V-Bottom vedere pag. B370.

● prima scelta
○ scelta alternativa

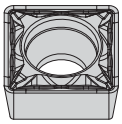
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

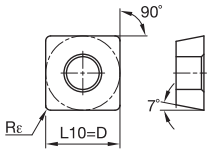




SCMT-11

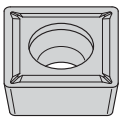
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T30411	9,53	9,53	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT09T30811	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT12040411	12,70	12,70	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT12040811	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

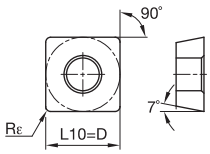




SCMT-FP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304FP	9,53	9,53	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–
SCMT09T308FP	9,53	9,53	0,8	–	–	●	●	●	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	●
SCMT120404FP	12,70	12,70	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120408FP	12,70	12,70	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120412FP	12,70	12,70	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

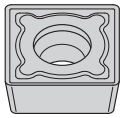


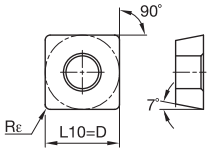


SCMT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304LF	9,53	9,53	0,4	–	●	●	●	●	●	–	–	●	●	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
SCMT09T308LF	9,53	9,53	0,8	–	●	●	●	●	●	–	●	●	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–
SCMT120404LF	12,70	12,70	0,4	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–
SCMT120408LF	12,70	12,70	0,8	–	●	–	●	●	●	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	●	●	–	–	–
SCMT120412LF	12,70	12,70	1,2	–	●	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

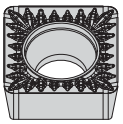
● prima scelta
○ scelta alternativa

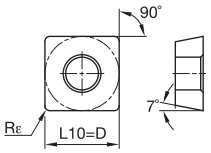




SCMT-MF

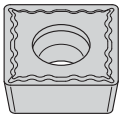
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
			P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
			M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
			K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
			N																			●	●	●		●	●	●	●	●		
			S																			●	●	●	●	●	●	●	●			
			H																													
SCMT09T312MF	9,53	9,52	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMT09T308MF	9,53	9,53	0,8	–	●	●	●	●	–	–	–	–	●	●	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
SCMT120408MF	12,70	12,70	0,8	–	–	●	●	●	●	–	–	–	●	●	●	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
SCMT120412MF	12,70	12,70	1,2	–	–	●	●	●	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

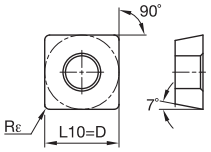




SCMT-MP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304MP	9,53	9,53	0,4	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT09T308MP	9,53	9,53	0,8	–	–	●	●	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120404MP	12,70	12,70	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120408MP	12,70	12,70	0,8	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120412MP	12,70	12,70	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–



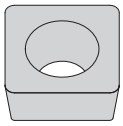


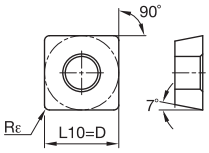
SCMT-UF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T308UF	9,53	9,53	0,8	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

Tornitura ISO

● prima scelta
○ scelta alternativa





SCMW

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P																												
				M																												
				K																												
				N																												
				S																												
				H																												
SCMW09T304	9,53	9,53	0,4	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW09T308	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW120412	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

App Mobile

L'applicazione mobile di Kennametal fornisce un facile accesso alle informazioni sui prodotti e ai calcolatori, sia sui device iPhone® che Android™. Abbiamo elencato una serie di funzionalità chiave...

C'è un app per questo.

PARAMETRI DI TAGLIO

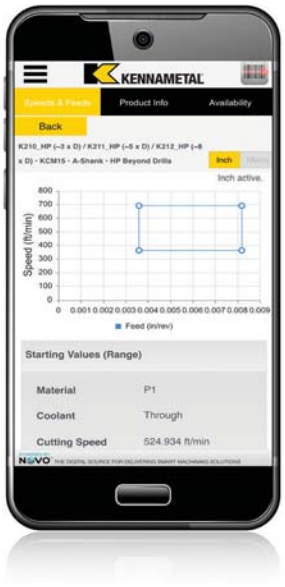
Visualizza le informazioni sulle velocità di taglio e gli avanzamenti dei prodotti per l'asportazione truciolo.

DISPONIBILITA' DEI PRODOTTI

Verifica la disponibilità globale dei prodotti. Visualizza le quantità disponibili utilizzando le credenziali dell'account Konnect.

CALCOLATORI

Utilizza i nostri calcolatori per le applicazioni di fresatura e foratura.

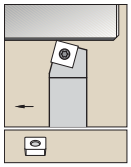


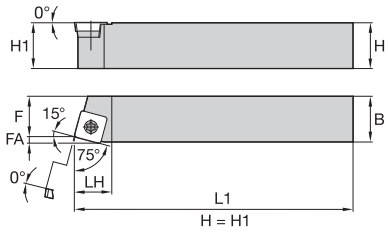
Scansionando semplicemente il codice a barre sulla confezione degli inserti è possibile trovare i parametri di taglio più produttivi per la miglior vita utensile, i tempi della lavorazione e le informazioni sul campo di controllo truciolo.

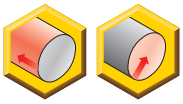
NOTA: l'applicazione è al momento disponibile solo nella versione in lingua inglese. Sono pianificati per il futuro il rilascio di successivi aggiornamenti per la versione tradotta in lingua locale.

Google play

Available on the App Store

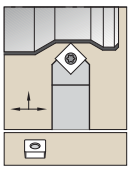


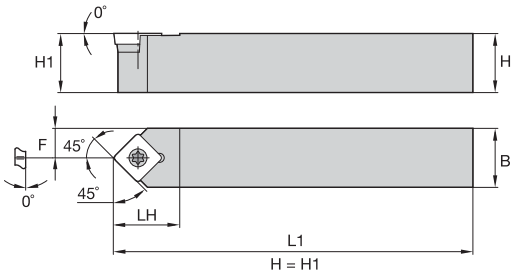




SSBC 75°

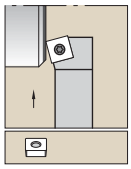
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro													
1097863	**SSBCR1212N09**	12	12	11,0	160	16,0	2,2	SC..09T308	**–**	**–**	–	**MS1155**	T15
1097867	**SSBCR2525M12**	25	25	22,0	150	21,0	3,1	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
sinistro													
1098009	**SSBCL1616H09**	16	16	13,0	100	16,0	2,2	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15

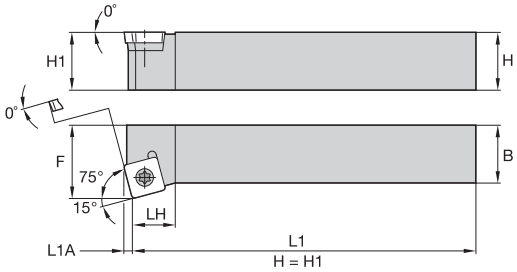


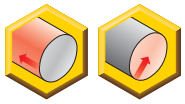


SSDC 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
1098005	**SSDCN1212N09**	12	12	6,0	160	18,0	SC..09T308	**–**	**–**	–	**MS1155**	T15
1098006	**SSDCN1616H09**	16	16	8,0	100	18,0	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098007	**SSDCN2020K09**	20	20	10,0	125	18,0	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15

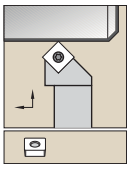


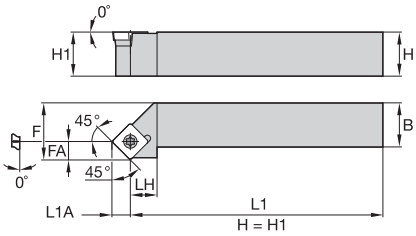




SSKC 75°

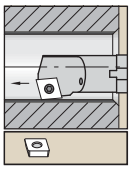
numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro													
1097882	**SSKCR1616H09**	16	16	20,0	100	16,0	2,2	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro													
1098027	**SSKCL2020K12**	20	20	25,0	125	22,0	3,1	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15



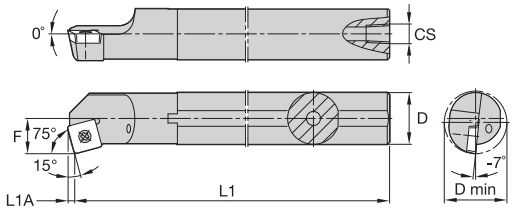


SSSC 45°

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro														
1097808	**SSSCR1212N09**	12	12	16,0	160	18,0	5,8	6,1	SC..09T308	**–**	**–**	–	**MS1155**	T15
1097809	**SSSCR1616H09**	16	16	20,0	100	18,0	6,1	6,1	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097811	**SSSCR1616H12**	16	16	20,0	100	25,0	8,3	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
1097810	**SSSCR2020K12**	20	20	25,0	125	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
1244982	**SSSCR2525M12**	25	25	32,0	150	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
sinistro														
1097953	**SSSCL1212N09**	12	12	16,0	160	18,0	5,8	6,1	SC..09T308	**–**	**–**	–	**MS1155**	T15
1097954	**SSSCL1616H09**	16	16	20,0	100	18,0	5,8	6,1	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097956	**SSSCL1616H12**	16	16	20,0	100	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
1097955	**SSSCL2020K12**	20	20	25,0	125	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
1514473	**SSSCL2525M12**	25	25	32,0	150	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15



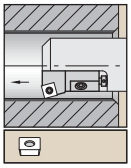
Codolo in acciaio con refrigeranti interni.

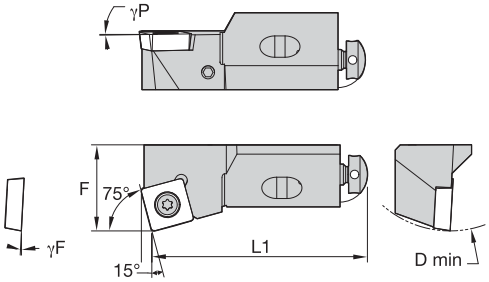


A-SSKC 75°

numero d'ordine	codice catalogo	D	D min	F	L1	L1A	CS	inserto di riferimento	vite inserto	Torx
destro										
1886510	**A16RSSKCR09**	16	20,0	11,0	200	2,2	1/8-27 NPT	SC..09T308	**MS1155**	T15

Cartucce Screw-on



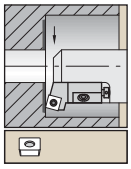


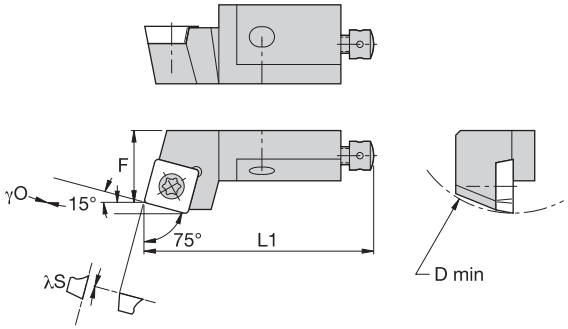
SSKC 75°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098719	**SSKCR12CA12**	50	20,0	55	-3.0	0.0	SC..120408/SC..432
1098720	**SSKCR16CA12**	60	25,0	63	-3.0	0.0	SC..120408/SC..432
sinistro							
1098721	**SSKCL12CA12**	50	20,0	55	-3.0	0.0	SC..120408/SC..432

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**MS1157**	T15	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**



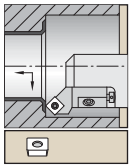


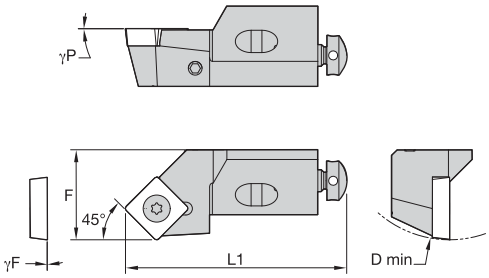
SSRC 75°

numero d'ordine	codice catalogo	D min	F	L1	λS°	γO°	inserto di riferimento
destro							
1098723	**SSRCR12CA12**	50	20,0	55	-3.0	0.0	SC..120408/SC..432
sinistro							
1098725	**SSRCL12CA12**	50	20,0	55	-3.0	0.0	SC..120408/SC..432

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**





SSSC 45°

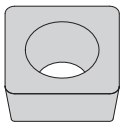
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098737	**SSSCR12CA12**	50	20,0	47	-3.0	0.0	SC..120408/SC..432
sinistro							
1098739	**SSSCL12CA12**	50	20,0	47	-3.0	0.0	SC..120408/SC..432

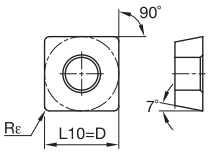
Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

● prima scelta
○ scelta alternativa

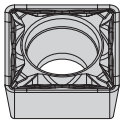
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

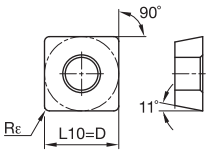




SPGT-LF

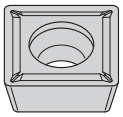
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPGT09T304LF	9,53	9,53	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
SPGT09T308LF	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–

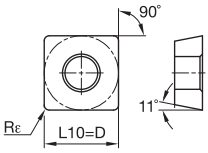




SPMT-FP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304FP	9,53	9,53	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
SPMT09T308FP	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



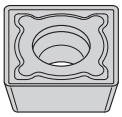


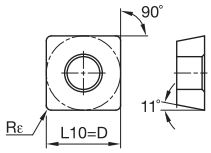
SPMT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304LF	9,53	9,53	0,4	–	–	●	–	●	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
SPMT09T308LF	9,53	9,53	0,8	–	●	–	●	●	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–

● prima scelta
○ scelta alternativa

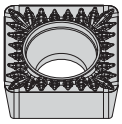
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

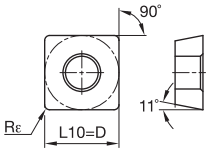




SPMT-MF

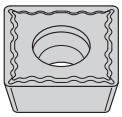
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T308MF	9,53	9,53	0,8	–	–	●	●	●	–	–	–	–	●	●	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
SPMT120408MF	12,70	12,70	0,8	–	–	–	–	●	●	–	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

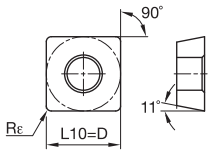




SPMT-MP

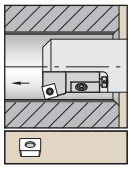
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T308MP	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SPMT120408MP	12,70	12,70	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

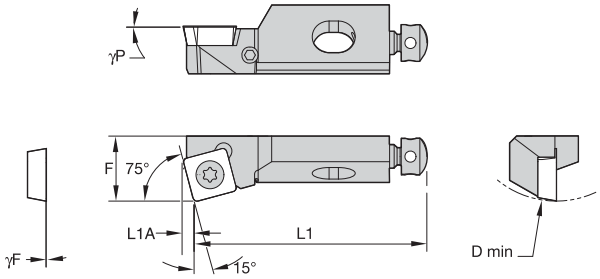




SPMT-UF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304UF	9,53	9,53	0,4	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–



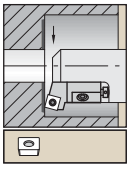


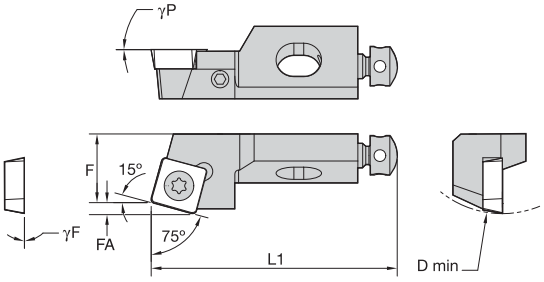
SSKP 75°

numero d'ordine	codice catalogo	D min	F	L1	λS°	γF°	γP°	inserto di riferimento
destro								
1098570	**SSKPR10CA09**	40	14,0	50	0.0	0.0	0.0	SP..09T308/SP..3252

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**



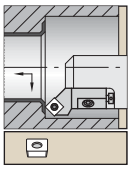


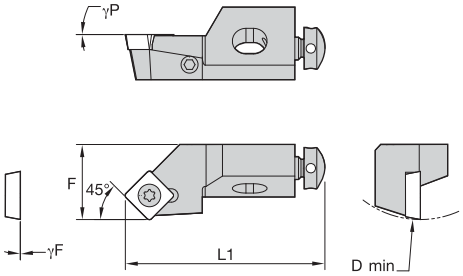
SSRP 75°

numero d'ordine	codice catalogo	D min	F	FA	L1	γF°	γP°	inserto di riferimento
destro								
1098574	**SSRPR10CA09**	40	14,0	2,2	50	0.0	0.0	SP..09T308/SP..3252

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SSSP 45°

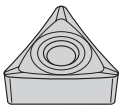
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098572	**SSSPR10CA09**	40	14,0	44	0.0	0.0	SP..09T308/SP..3252
sinistro							
1098764	**SSSPL10CA09**	40	14,0	44	0.0	0.0	SP..09T308/SP..3252

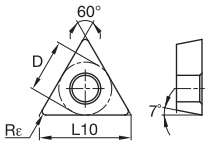
Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

● prima scelta
○ scelta alternativa

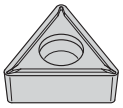
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

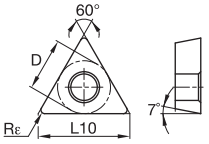




TCGT-HP

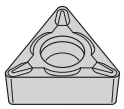
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCGT110202HP	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
TCGT110204HP	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
TCGT110208HP	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCGT16T302HP	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
TCGT16T304HP	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
TCGT16T308HP	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–

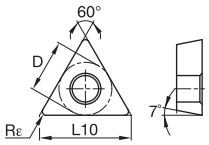




TCGT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCGT110201LF	6,35	11,00	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–
TCGT110204LF	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TCGT16T301LF	9,53	16,50	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCGT16T302LF	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCGT16T304LF	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TCGT16T308LF	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

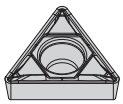


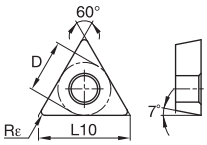


TCMT-11

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT11020411	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
TCMT16T30411	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
TCMT16T30811	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

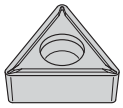
● prima scelta
○ scelta alternativa

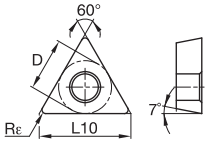




TCMT-FP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
			P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
			M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
			K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
			N																			●	●	●		●	●	●	●	●		
			S																			●	●	●	●	●	●	●	●			
			H																													
TCMT090204FP	5,56	9,63	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT090208FP	5,56	9,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110202FP	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
TCMT110204FP	6,35	11,00	0,4	–	–	●	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
TCMT110304FP	6,35	11,00	0,4	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110208FP	6,35	11,00	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110308FP	6,35	11,00	0,8	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110312FP	6,35	11,00	1,2	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T304FP	9,53	16,50	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT16T308FP	9,53	16,50	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
TCMT16T312FP	9,53	16,50	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT220408FP	12,70	22,00	0,8	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–



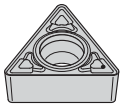


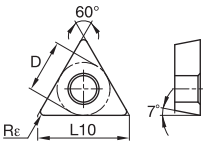
TCMT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110202LF	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TCMT110204LF	6,35	11,00	0,4	–	●	●	●	●	●	–	–	●	●	●	●	●	●	●	●	–	●	–	–	–	–	–	–	●	●	–	●	–
TCMT110208LF	6,35	11,00	0,8	–	–	●	●	●	●	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	●	●	–	●	–
TCMT16T302LF	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TCMT16T304LF	9,53	16,50	0,4	–	●	●	●	●	–	–	–	●	–	●	●	●	–	●	●	●	●	–	–	–	–	–	–	●	●	–	●	–
TCMT16T308LF	9,53	16,50	0,8	–	●	●	●	●	●	–	●	–	●	●	●	●	–	–	●	●	●	–	–	–	–	–	–	●	●	–	●	–
TCMT16T312LF	9,53	16,50	1,2	–	●	–	–	●	–	–	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–
TCMT220408LF	12,70	22,00	0,8	–	●	–	●	●	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

● prima scelta
○ scelta alternativa

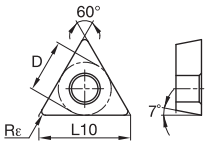
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													





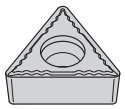
TCMT-MF

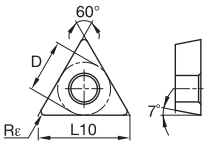
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110208MF	6,35	11,00	0,8	–	–	–	●	●	–	–	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
TCMT16T308MF	9,53	16,50	0,8	–	–	●	●	●	●	–	–	–	●	●	●	●	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
TCMT16T312MF	9,53	16,50	1,2	–	–	●	●	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–



TCMT-MP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110208MP	6,35	11,00	0,8	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T304MP	9,53	16,50	0,4	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T308MP	9,53	16,50	0,8	–	–	●	–	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T312MP	9,53	16,50	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



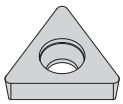


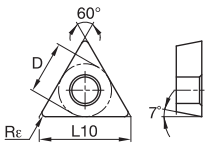
TCMT-UF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110204UF	6,35	11,00	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCMT110208UF	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCMT16T308UF	9,53	16,50	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

Tornitura ISO

● prima scelta
○ scelta alternativa





TCMW

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMW16T304	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TCMW16T308	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

App Mobile

L'applicazione mobile di Kennametal fornisce un facile accesso alle informazioni sui prodotti e ai calcolatori, sia sui device iPhone® che Android™. Abbiamo elencato una serie di funzionalità chiave...

C'è un app per questo.

PARAMETRI DI TAGLIO

Visualizza le informazioni sulle velocità di taglio e gli avanzamenti dei prodotti per l'asportazione truciolo.

DISPONIBILITA' DEI PRODOTTI

Verifica la disponibilità globale dei prodotti. Visualizza le quantità disponibili utilizzando le credenziali dell'account Konnect.

CALCOLATORI

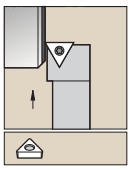
Utilizza i nostri calcolatori per le applicazioni di fresatura e foratura.

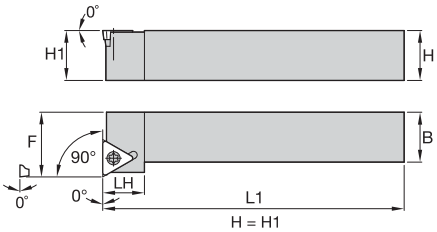
Scansionando semplicemente il codice a barre sulla confezione degli inserti è possibile trovare i parametri di taglio più produttivi per la miglior vita utensile, i tempi della lavorazione e le informazioni sul campo di controllo truciolo.

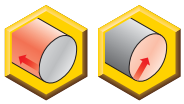
NOTA: l'applicazione è al momento disponibile solo nella versione in lingua inglese. Sono pianificati per il futuro il rilascio di successivi aggiornamenti per la versione tradotta in lingua locale.

Google play

Available on the App Store

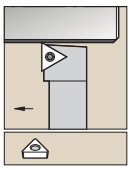


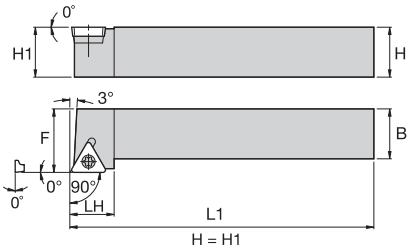


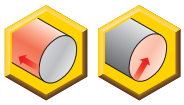


STFC 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1244940	**STFCR1616H11**	16	16	20,0	100	16,0	TC..110204	**–**	**–**	–	**MS1153**	T7
1097880	**STFCR1616H16**	16	16	20,0	100	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097877	**STFCR2020K16**	20	20	25,0	125	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097878	**STFCR2525M16**	25	25	32,0	150	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro												
1098022	**STFCL2020K16**	20	20	25,0	125	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098023	**STFCL2525M16**	25	25	32,0	150	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15

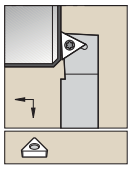


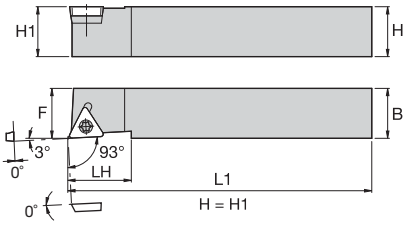


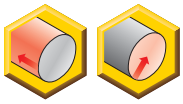


STGC 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1097869	**STGCR1212N11**	12	12	16,0	160	16,0	TC..110204	**–**	**–**	–	**MS1153**	T7
1244944	**STGCR1616H11**	16	16	20,0	100	16,0	TC..110204	**–**	**–**	–	**MS1153**	T7
1097874	**STGCR1616H16**	16	16	20,0	100	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097870	**STGCR2020K16**	20	20	25,0	125	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097871	**STGCR2525M16**	25	25	32,0	150	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro												
1098014	**STGCL1212N11**	12	12	16,0	160	16,0	TC..110204	**–**	**–**	–	**MS1153**	T7
1244943	**STGCL1616H11**	16	16	20,0	100	16,0	TC..110204	**–**	**–**	–	**MS1153**	T7
1098019	**STGCL1616H16**	16	16	20,0	100	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098015	**STGCL2020K16**	20	20	25,0	125	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098016	**STGCL2525M16**	25	25	32,0	150	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15

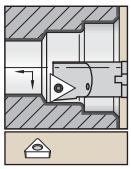




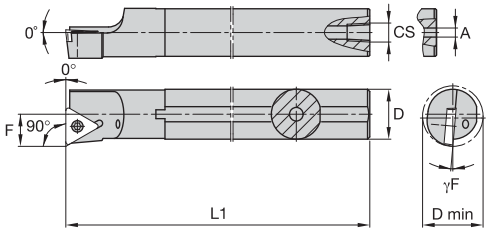


STJC-F 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	vite inserto	Torx
destro									
1772197	**STJCRF1212M11Q**	12	12	12,0	150	16,0	TC..110204	**MS1153**	T7
sinistro									
1772198	**STJCLF1212M11Q**	12	12	12,0	150	16,0	TC..110204	**MS1153**	T7



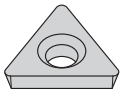
Codolo in acciaio con refrigerante interno.

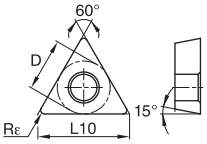


A-STFC 90°

numero d'ordine	codice catalogo	D	D min	F	L1	A	CS	γF°	inserto di riferimento	supporto	vite suppor-to	hex	vite inserto	Torx
destro														
1098207	**A10KSTFCR11**	10	13,0	7,0	125	3,2	–	-7.0	TC..110204	–	–	–	**MS1153**	T7
1098211	**A12MSTFCR11**	12	16,0	9,0	150	–	1/16-27 NPT	-6.0	TC..110204	–	–	–	**MS1153**	T7
1098286	**A32TSTFCR16**	32	40,0	22,0	300	–	1/4-18 NPT	-2.0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro														
1098209	**A10KSTFCL11**	10	13,0	7,0	125	3,2	–	-7.0	TC..110204	–	–	–	**MS1153**	T7
1098213	**A12MSTFCL11**	12	16,0	9,0	150	–	1/16-27 NPT	-6.0	TC..110204	–	–	–	**MS1153**	T7

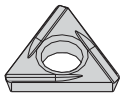
● prima scelta
○ scelta alternativa

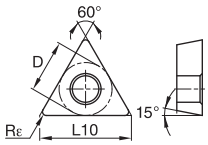




TDHB

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
			P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
			M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
			K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
			N																			●	●	●		●	●	●	●	●		
			S																			●	●	●	●	●	●	●	●			
			H																													
TDHB07T12S0	4,06	7,04	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–
TDHB07T1202	4,06	7,04	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–
TDHB07T1204	4,06	7,04	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–
TDHB07T1208	4,06	7,04	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

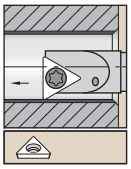




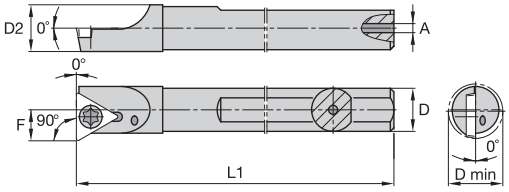
TDHH

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TDHH07T1202L	4,06	7,04	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
TDHH07T1202R	4,06	7,04	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TDHH07T1204L	4,06	7,04	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
TDHH07T1204R	4,06	7,04	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

NOTA: L'inserto destro utilizza bareni sinistri.
L'inserto sinistro utilizza bareni destri.

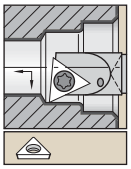


Codolo in acciaio con refrigerante interno.

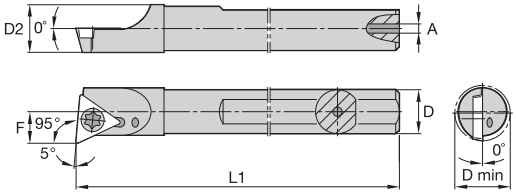


A-STFD 90°

numero d'ordine	codice catalogo	D	D min	D2	F	L1	A	inserto di riferimento	vite inserto	Torx
destro										
1288884	**A06HSTFDR07**	6	7,1	6,2	3,7	100	1,0	TD..07S102	**FC11**	T7
1288898	**A08HSTFDR07**	8	9,1	8,2	4,8	102	1,5	TD..07S102	**FC14**	T7
sinistro										
1930573	**A12MSTFDL11**	12	13,2	12,2	6,8	152	3,0	TP..110202	**QC26**	T9

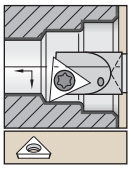


Codolo in acciaio con refrigerante interno.

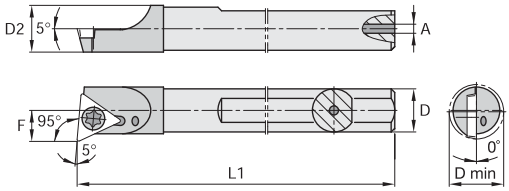


A-STLD 95°

numero d'ordine	codice catalogo	D	D min	D2	F	L1	A	inserto di riferimento	vite inserto	Torx
destro										
1288886	**A06HSTLDR07**	6	7,1	6,2	3,7	100	1,0	TD..07S102	**FC11**	T7
1288900	**A08HSTLDR07**	8	9,1	8,2	4,8	102	1,5	TD..07S102	**FC14**	T7

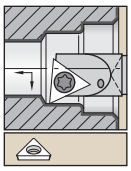


Codolo in metallo duro con refrigerante interno.

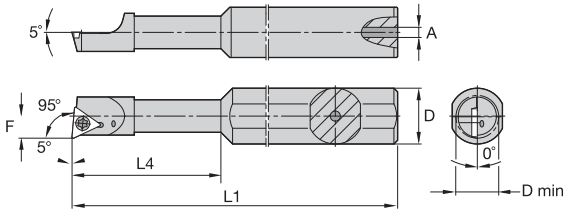


E-STLD 95°

numero d'ordine	codice catalogo	D	D min	F	L1	A	inserto di riferimento	vite inserto	Torx
destro									
1270982	**E06MSTLDR07**	6	7,1	3,7	152	1,2	TD..07S102	**FC11**	T7
1270992	**E08MSTLDR07**	8	9,2	4,8	152	2,4	TD..07S102	**FC11**	T7
sinistro									
1270981	**E06MSTLDL07**	6	7,1	3,7	152	1,2	TD..130805	**FC11**	T7
1270991	**E08MSTLDL07**	8	9,1	4,8	152	2,4	TD..07S102	**FC14**	T7

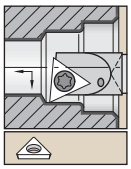


Codolo in acciaio con colletto con refrigerante interno.

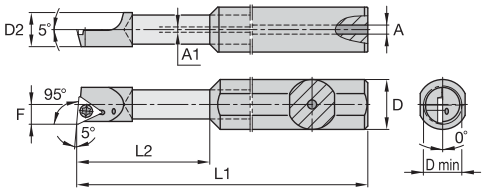


A-STLD 95° • Con colletto ribassato

numero d'ordine	codice catalogo	D	D min	F	L1	L4	A	inserto di riferimento	vite inserto	Torx
destro										
1289155	**A0612XSTLDR0731**	12	7,5	4,0	76	31,75	1,0	TD..07T1202	**FC11**	T7
sinistro										
1930492	**A0616HSTLDR0731**	16	7,5	4,0	102	31,75	1,0	TD..07S102	**FC14**	T7



Codolo in metallo duro con colletto con refrigerante interno.

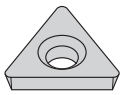


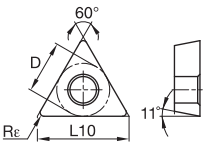
E-STLD 95° • Con colletto ribassato

numero d'ordine	codice catalogo	D	D min	D2	F	L1	L2	A	A1	inserto di riferimento	vite inserto	Torx
destro												
1930512	**E0812XSTLDR0738**	12	9,1	7,9	4,8	76	38,1	3,2	2,0	TD..07S102	**FC14**	T7

● prima scelta
○ scelta alternativa

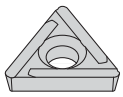
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

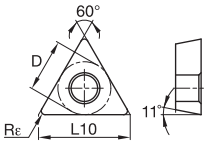




TPCB

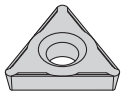
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCB110202	6,35	—	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCB160302	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCB160304	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TD6P	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
TPCB160308	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

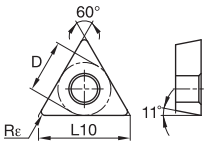




TPCG

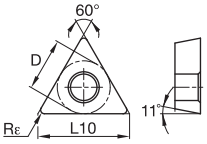
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCG110202L	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCG110204L	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCG110208L	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–





TPCH

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCH110202	6,50	11,26	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCH110204	6,50	11,26	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

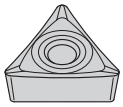


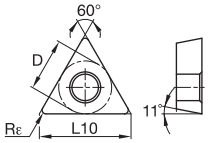
TPGH

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGH160304	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPGH160308	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

● prima scelta
○ scelta alternativa

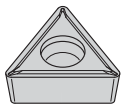
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

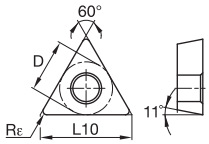




TPGT-HP

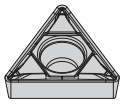
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGT110202HP	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TPGT110204HP	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TPGT110208HP	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–
TPGT16T302HP	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT16T304HP	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
TPGT16T308HP	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–

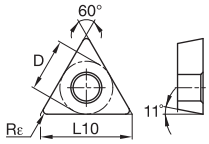




TPGT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGT090204LF	5,56	9,62	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
TPGT090202LF	5,56	9,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT110201LF	6,35	11,00	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPGT110202LF	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TPGT110204LF	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
TPGT110208LF	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT16T304LF	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TPGT16T308LF	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–



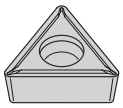


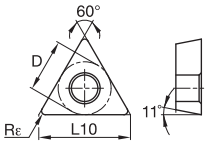
TPMT-FP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT090204FP	5,56	9,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT090208FP	5,56	9,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110202FP	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT110204FP	6,35	11,00	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110304FP	6,35	11,00	0,4	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110208FP	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT110308FP	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT16T304FP	9,53	16,50	0,4	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–
TPMT16T308FP	9,53	16,50	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

● prima scelta
○ scelta alternativa

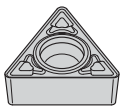
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

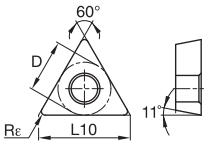




TPMT-LF

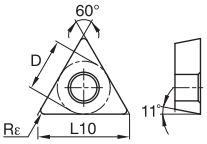
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT090202LF	5,56	9,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT090204LF	5,56	9,63	0,4	–	●	–	●	●	–	–	–	●	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
TPMT110202LF	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT110204LF	6,35	11,00	0,4	–	●	●	●	●	–	–	–	–	●	–	–	●	–	●	●	–	–	–	●	–	–	–	–	●	●	–	●	–
TPMT110208LF	6,35	11,00	0,8	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
TPMT16T304LF	9,53	16,50	0,4	–	●	●	●	●	–	–	–	●	–	●	–	–	–	●	●	–	–	–	–	–	–	–	–	●	●	–	●	–
TPMT16T308LF	9,53	16,50	0,8	–	●	–	●	●	–	–	–	●	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
TPMT220408LF	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–





TPMT-MF

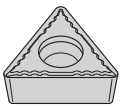
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110208MF	6,35	11,00	0,8	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T308MF	9,53	16,50	0,8	–	–	●	–	●	●	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T312MF	9,53	16,50	1,2	–	–	–	–	●	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

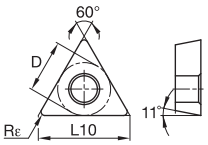


TPMT-MP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110208MP	6,35	11,00	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T308MP	9,53	16,50	0,8	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T312MP	9,53	16,50	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● prima scelta
○ scelta alternativa

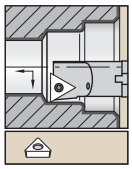




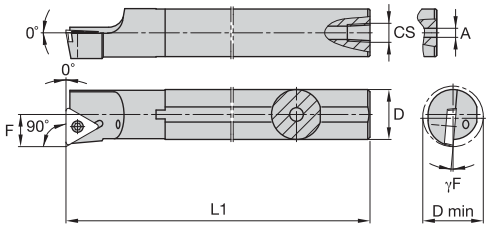
TPMT-UF

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110202UF	6,35	11,00	0,2	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT110204UF	6,35	11,00	0,4	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT16T308UF	9,53	16,50	0,8	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

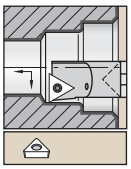


Codolo in acciaio con refrigerante interno.

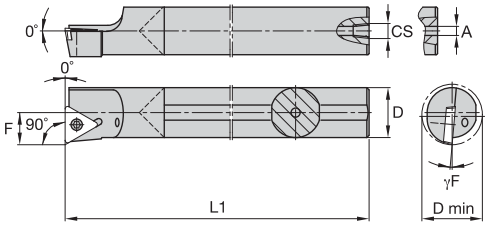


A-STFP 90°

numero d'ordine	codice catalogo	D	D min	F	L1	A	CS	γF°	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro														
1098154	**A08JSTFPR09**	8	11,0	6,0	110	2,4	–	-8.0	TP..090204	–	–	–	**MS1933**	T7
1098204	**A10KSTFPR11**	10	13,0	7,0	125	3,2	–	-4.0	TP..110204	–	–	–	**MS1153**	T7
1098210	**A12MSTFPR11**	12	16,0	9,0	150	4,0	1/16-27 NPT	-2.0	TP..110204	–	–	–	**MS1153**	T7
1098214	**A16RSTFPR11**	16	20,0	11,0	200	4,0	1/8-27 NPT	0.0	TP..110204	–	–	–	**MS1153**	T7
1098255	**A20SSTFPR16**	20	25,0	13,0	250	4,0	1/8-27 NPT	-2.0	TP..16T308	–	–	–	**MS1155**	T15
1098273	**A25TSTFPR16**	25	32,0	17,0	300	6,4	1/4-18 NPT	0.0	TP..16T308	–	–	–	**MS1155**	T15
1098285	**A32TSTFPR16**	32	40,0	22,0	300	–	1/4-18 NPT	-2.0	TP..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro														
1098155	**A08JSTFPL09**	8	11,0	6,0	110	2,4	–	-8.0	TP..090204	–	–	–	**MS1933**	T7
1098208	**A10KSTFPL11**	10	13,0	7,0	125	3,2	–	-4.0	TP..110204	–	–	–	**MS1153**	T7
1098212	**A12MSTFPL11**	12	16,0	9,0	150	4,0	1/16-27 NPT	-2.0	TP..110204	–	–	–	**MS1153**	T7
1098215	**A16RSTFPL11**	16	20,0	11,0	200	4,0	1/8-27 NPT	0.0	TP..110204	–	–	–	**MS1153**	T7
1098256	**A20SSTFPL16**	20	25,0	13,0	250	4,0	1/8-27 NPT	-2.0	TP..16T308	–	–	–	**MS1155**	T15
1098276	**A25TSTFPL16**	25	32,0	17,0	300	6,4	1/4-18 NPT	0.0	TP..16T308	–	–	–	**MS1155**	T15

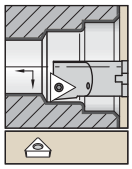


Codolo in metallo duro con refrigerante interno.

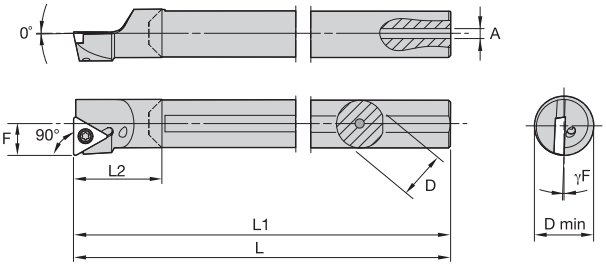


E-STFP 90°

numero d'ordine	codice catalogo	D	D min	F	L1	A	γF°	inserto di riferimento	vite inserto	Torx
destro										
1152860	**E08KSTFPR09A**	8	11,0	6,0	125	2,4	-6.0	TP..090204	**MS1933**	T7
1152862	**E10MSTFPR11A**	10	13,0	7,0	150	3,2	-4.0	TP..110204	**MS1153**	T7
1104311	**E12QSTFPR11**	12	16,0	9,0	180	4,8	-2.0	TP..110204	**MS1153**	T7
1152874	**E16RSTFPR11**	16	20,0	11,0	200	5,5	0.0	TP..110204	**MS1153**	T7
1152908	**E20SSTFPR16**	20	25,0	13,0	250	7,1	-2.0	TP..16T308	**MS1155**	T15
sinistro										
1152863	**E10MSTFPL11A**	10	13,0	7,0	150	3,2	-4.0	TP..110204	**MS1153**	T7
1152873	**E12QSTFPL11**	12	16,0	9,0	180	4,8	-2.0	TP..110204	**MS1153**	T7
1152875	**E16RSTFPL11**	16	20,0	11,0	200	5,5	0.0	TP..110204	**MS1153**	T7
1152909	**E20SSTFPL16**	20	25,0	13,0	250	7,1	-2.0	TP..16T308	**MS1155**	T15

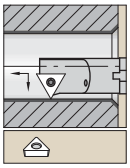


Barra in metallo pesante con refrigerante passante.

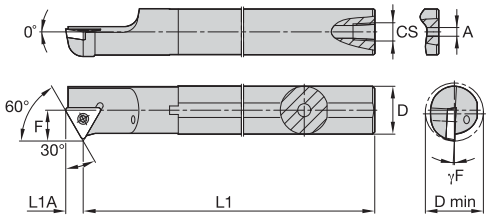


L-STFP 90°

numero d'ordine	codice catalogo	D	D min	F	L1	L2	A	γF°	inserto di riferimento	vite inserto	Torx
destro											
3331128	**L08KSTFPR09**	8	11,0	6,0	125	19,1	2,4	-6.0	TP..090204..	**MS1933**	T7
3331123	**L12QSTFPR11**	12	16,0	9,0	183	24,4	4,0	-2.0	TP..110204..	**MS1153**	T7
sinistro											
3331131	**L08KSTFPL09**	8	11,0	6,0	125	19,1	2,4	-6.0	TP..090204..	**MS1933**	T7

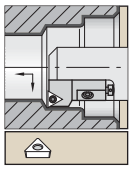


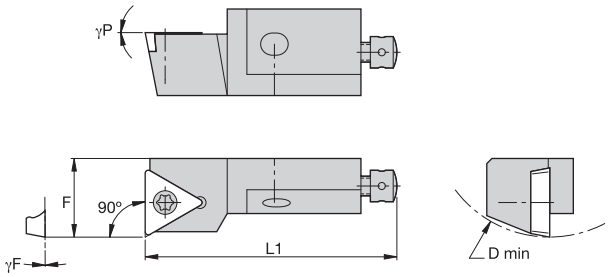
Codolo in acciaio con refrigerante interno.



A-STWP 60°

numero d'ordine	codice catalogo	D	D min	F	L1	L1A	A	CS	γF°	inserto di riferimento	vite inserto	Torx
destro												
1098205	**A10KSTWPR11**	10	13,0	7,0	125	5,0	3,2	—	-4.0	TP..110204	**MS1153**	T7
1098216	**A12MSTWPR11**	12	16,0	9,0	150	—	4,0	1/16-27 NPT	-2.0	TP..110204	**MS1153**	T7
1098218	**A16RSTWPR11**	16	20,0	11,0	200	—	4,0	1/8-27 NPT	-2.0	TP..110204	**MS1153**	T7
sinistro												
1098206	**A10KSTWPL11**	10	13,0	7,0	125	—	3,2	—	-4.0	TP..110204	**MS1153**	T7



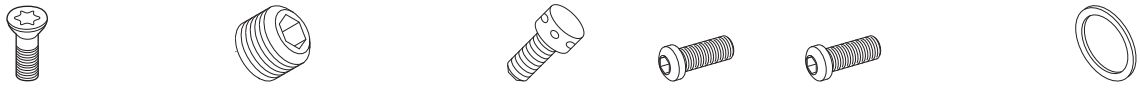


STFP 90°

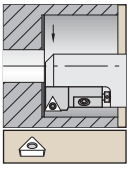
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098565	**STFPR08CA09**	25	10,0	32	0.0	0.0	TP..090204/TP..18151
1098563	**STFPR10CA11**	40	14,0	50	0.0	0.0	TP..110204/TP..2151
1098562	**STFPR12CA16**	50	20,0	55	0.0	0.0	TP..16T308/TP..3252
sinistro							
1098561	**STFPL08CA09**	25	10,0	32	0.0	0.0	TP..090204/TP..18151
1098559	**STFPL10CA11**	40	14,0	50	0.0	0.0	TP..110204/TP..2151
1098558	**STFPL12CA16**	50	20,0	55	0.0	0.0	TP..16T308/TP..3252

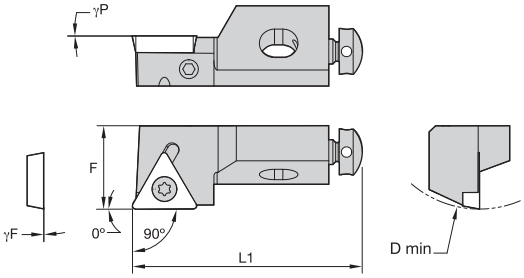
NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
L'utensile STFPR/L10CA11 accetta anche gli inserti TPGM/TPGT/TPGW1102..
Compatibili con inserti ANSI/ISO con foro svasato a 60° (TPMT/TPGT/TPGW16T3..).
Gli inserti con foro con svasatura a 90° (TPGM/TPGB16T3..) non sono utilizzabili con l'utensile STFPR/L12CA16.

Parti di ricambio



D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
25	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





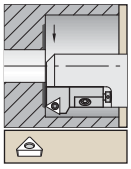
STGP 90°

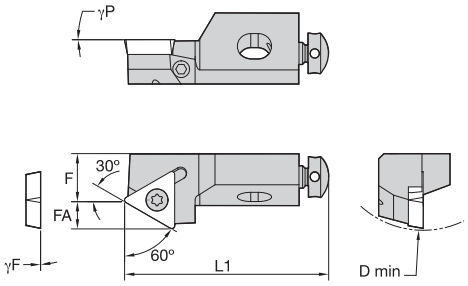
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098567	**STGPR10CA11**	40	14,0	50	0.0	0.0	TP..110204/TP..2151
1098566	**STGPR12CA16**	50	20,0	55	0.0	0.0	TP..16T308/TP..3252
sinistro							
1098762	**STGPL08CA09**	25	10,0	32	0.0	0.0	TP..090204/TP..18151
1098760	**STGPL10CA11**	40	14,0	50	0.0	0.0	TP..110204/TP..2151

NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
Questo utensile accetta anche gli inserti TPGM/TPGT/TPGW1102..
Compatibili con inserti ANSI/ISO con foro svasato a 60° (TPMT/TPGT/TPGW16T3..).
Gli inserti con foro con svasatura a 90° (i.e., TPGM/TPGB16T3..) non sono utilizzabili con l'utensile STGPR12CA16.

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
25	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





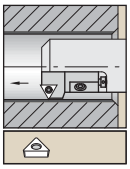
STTP 60°

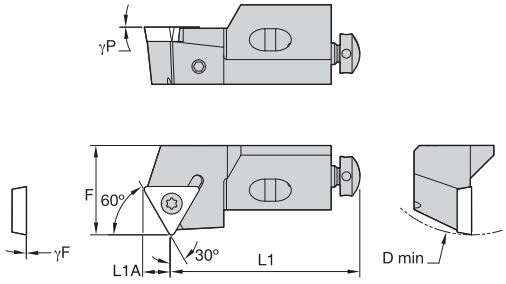
numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098744	**STTPR08CA09**	25	6,0	32	0.0	0.0	TP..090204/TP..18151
1098742	**STTPR10CA11**	40	9,0	50	0.0	0.0	TP..110204/TP..2151
1098741	**STTPR12CA16**	50	13,0	55	0.0	0.0	TP..16T308/TP..3252

NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
L'utensile STTPR10CA11 accetta anche gli inserti TPGM/TPGT/TPGW1102.

Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
25	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





STWP 60°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
1098750	**STWPR10CA11**	40	14,0	44	0.0	0.0	TP..110204/TP..2151
1098749	**STWPR12CA16**	50	20,0	47	0.0	0.0	TP..16T308/TP..3252

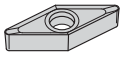
NOTA: Compatibili con inserti ANSI/ISO con foro svasato a 60°.
L'utensile STWPR10CA11 accetta anche gli inserti TPGM/TPGT/TPGW1102.

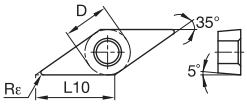
Parti di ricambio

D min	vite inserto	Torx	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**

● prima scelta
○ scelta alternativa

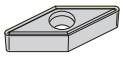
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

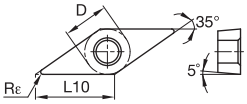




VBGT-HP

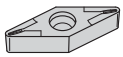
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBGT110302HP	6,35	11,07	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
VBGT110304HP	6,35	11,07	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
VBGT160404HP	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	●	●	●	–	–
VBGT160408HP	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–

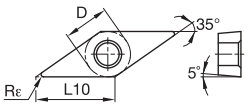




VBGT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBGT1103X0LF	6,35	11,07	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
VBGT110301LF	6,35	11,07	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
VBGT110302LF	6,35	11,07	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–
VBGT110304LF	6,35	11,07	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	–	–	–
VBGT1604X0LF	9,53	16,61	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
VBGT160401LF	9,53	16,61	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
VBGT160402LF	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
VBGT160404LF	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–



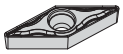


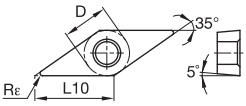
VBMT-11

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT11030211	6,35	11,07	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT11030411	6,35	11,07	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT16040411	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT16040811	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

● prima scelta
○ scelta alternativa

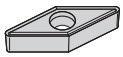
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

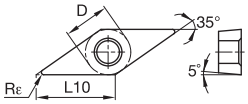




VBMT-FP

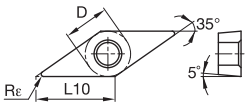
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT110302FP	6,35	11,07	0,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VBMT110304FP	6,35	11,07	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT110308FP	6,35	11,07	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–
VBMT160402FP	9,53	16,61	0,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160404FP	9,53	16,61	0,4	●	●	●	●	●	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160408FP	9,53	16,61	0,8	●	●	●	●	●	–	–	–	–	–	–	●	●	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160412FP	9,53	16,61	1,2	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





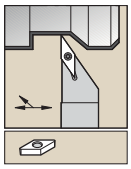
VBMT-LF

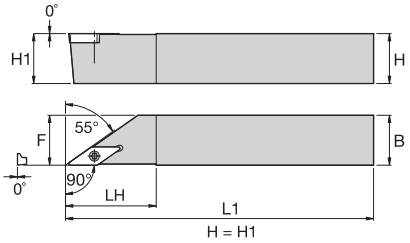
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT110302LF	6,35	11,07	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
VBMT110304LF	6,35	11,07	0,4	●	●	●	●	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–	●	●	–	●	–
VBMT110308LF	6,35	11,07	0,8	●	–	●	●	●	–	–	–	●	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–
VBMT160402LF	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	●	–
VBMT160404LF	9,53	16,61	0,4	–	●	●	●	●	●	–	–	–	●	●	●	–	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
VBMT160408LF	9,53	16,61	0,8	●	●	●	●	●	●	–	–	●	●	●	–	●	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
VBMT160412LF	9,53	16,61	1,2	–	–	–	–	●	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

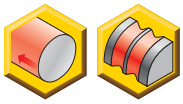


VBMT-MP

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT160404MP	9,53	16,61	0,4	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
VBMT160408MP	9,53	16,61	0,8	–	–	–	●	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–

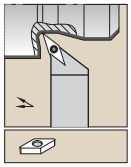


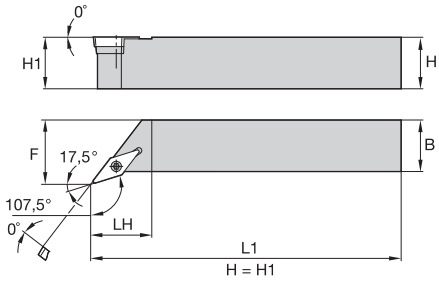


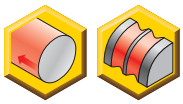


SVAB 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	vite inserto	Torx
destro									
1097722	**SVABR1010M11Q**	10	10	10,0	150	22,0	VB..110304	**MS1153**	T7
1097724	**SVABR1212M11Q**	12	12	12,0	150	22,0	VB..110304	**MS1153**	T7
1097726	**SVABR1616K16Q**	16	16	16,0	125	30,0	VB..160408	**MS1155**	T15
sinistro									
1097725	**SVABL1212M11Q**	12	12	12,0	150	22,0	VB..110304	**MS1153**	T7
1097727	**SVABL1616K16Q**	16	16	16,0	125	30,0	VB..160408	**MS1155**	T15

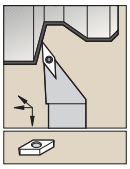


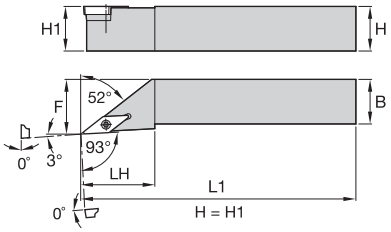


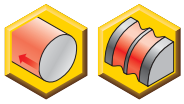


SVHB 107,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1097804	**SVHBR1212N11**	12	12	16,0	160	19,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097805	**SVHBR1616H11**	16	16	20,0	100	19,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1244953	**SVHBR2020K11**	20	20	25,0	125	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097806	**SVHBR2020K16**	20	20	25,0	125	28,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097807	**SVHBR2525M16**	25	25	32,0	150	28,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro												
1097949	**SVHBL1212N11**	12	12	16,0	160	19,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097950	**SVHBL1616H11**	16	16	20,0	100	19,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1244949	**SVHBL2020K11**	20	20	25,0	125	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097951	**SVHBL2020K16**	20	20	25,0	125	28,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097952	**SVHBL2525M16**	25	25	32,0	150	28,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15

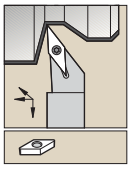


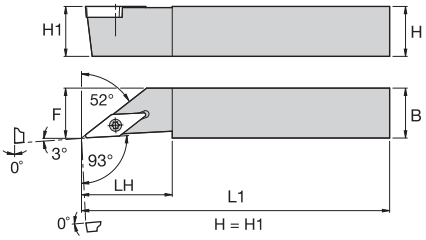


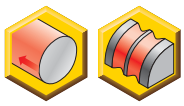


SVJB 93°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1097800	**SVJBR1212N11**	12	12	16,0	160	22,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097801	**SVJBR1616H11**	16	16	20,0	100	22,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1244959	**SVJBR1616H16**	16	16	20,0	100	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1252235	**SVJBR2020K11**	20	20	25,0	125	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097802	**SVJBR2020K16**	20	20	25,0	125	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097803	**SVJBR2525M16**	25	25	32,0	150	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1244992	**SVJBR3225P16**	32	25	32,0	170	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
sinistro												
1097945	**SVJBL1212N11**	12	12	16,0	160	22,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097946	**SVJBL1616H11**	16	16	20,0	100	22,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1244957	**SVJBL1616H16**	16	16	20,0	100	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1252234	**SVJBL2020K11**	20	20	25,0	125	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097947	**SVJBL2020K16**	20	20	25,0	125	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097948	**SVJBL2525M16**	25	25	32,0	150	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1192560	**SVJBL3225P16**	32	25	32,0	170	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15

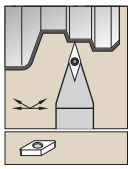


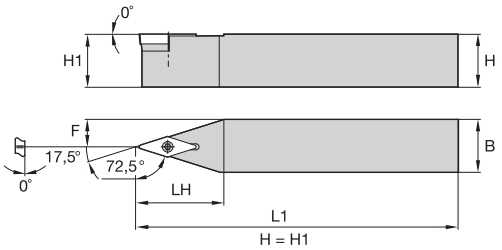


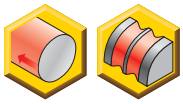


SVJB-F 93°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	vite inserto	Torx
destro									
1097797	**SVJBRF1010M11Q**	10	10	10,0	150	23,0	VB..110304	**MS1153**	T7
1097798	**SVJBRF1212M11Q**	12	12	12,0	150	23,0	VB..110304	**MS1153**	T7
1097799	**SVJBRF1616K16Q**	16	16	16,0	125	31,0	VB..160408	**MS1155**	T15
sinistro									
1097942	**SVJBLF1010M11Q**	10	10	10,0	150	23,0	VB..110304	**MS1153**	T7
1097943	**SVJBLF1212M11Q**	12	12	12,0	150	23,0	VB..110304	**MS1153**	T7
1097944	**SVJBLF1616K16Q**	16	16	16,0	125	31,0	VB..160408	**MS1155**	T15



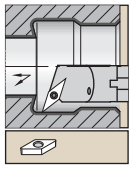




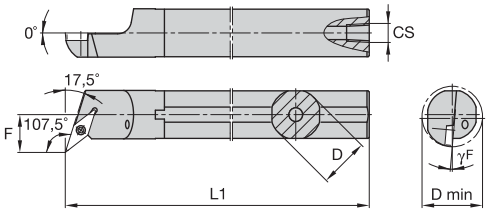
SVVB 72,5°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
1097990	**SVVBN1212N11**	12	12	6,0	160	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097991	**SVVBN1616H11**	16	16	8,0	100	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1244961	**SVVBN1616H16**	16	16	8,0	100	33,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1244962	**SVVBN2020K11**	20	20	10,0	125	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097992	**SVVBN2020K16**	20	20	10,0	125	33,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097993	**SVVBN2525M16**	25	25	12,5	150	33,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1192561	**SVVBN3225P16**	32	25	12,5	170	33,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15

Bareni Screw-on

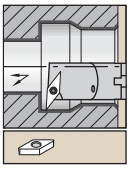


Codolo in acciaio con refrigerante interno.

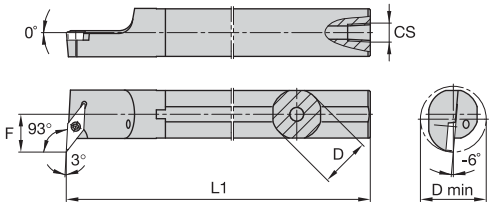


A-SVQB 107,5°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	vite inserto	Torx
destro										
1098232	**A16RSVQBR11**	16	20,0	11,0	200	1/8-27 NPT	-7.0	VB..110304	**MS1153**	T7
1098248	**A20SSVQBR11**	20	25,0	13,0	250	1/8-27 NPT	-6.0	VB..110304	**MS1153**	T7
1098274	**A25TSVQBR16**	25	32,0	17,0	300	1/4-18 NPT	-6.0	VB..160408	**MS1155**	T15
sinistro										
1098233	**A16RSVQBL11**	16	20,0	11,0	200	1/8-27 NPT	-7.0	VB..110304	**MS1153**	T7
1098253	**A20SSVQBL11**	20	25,0	13,0	250	1/8-27 NPT	-6.0	VB..110304	**MS1153**	T7
1098277	**A25TSVQBL16**	25	32,0	17,0	300	1/4-18 NPT	-6.0	VB..160408	**MS1155**	T15



Codolo in acciaio con refrigerante interno.



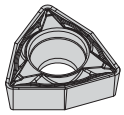
A-SVUB 93°

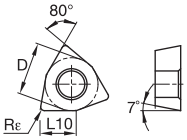
numero d'ordine	codice catalogo	D	D min	F	L1	CS	inserto di riferimento	vite inserto	Torx
destro									
1098249	**A20SSVUBR11**	20	25,0	13,0	250	1/8-27 NPT	VB..110304	**MS1153**	T7
1098275	**A25TSVUBR16**	25	32,0	17,0	300	1/4-18 NPT	VB..160408	**MS1155**	T15
sinistro									
1098254	**A20SSVUBL11**	20	25,0	13,0	250	1/8-27 NPT	VB..110304	**MS1153**	T7
1098278	**A25TSVUBL16**	25	32,0	17,0	300	1/4-18 NPT	VB..160408	**MS1155**	T15

Tornitura ISO

● prima scelta
○ scelta alternativa

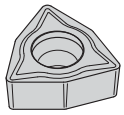
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

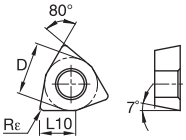




WCMT-FP

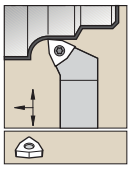
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WCMT040204FP	6,35	4,34	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
WCMT06T308FP	9,53	6,52	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

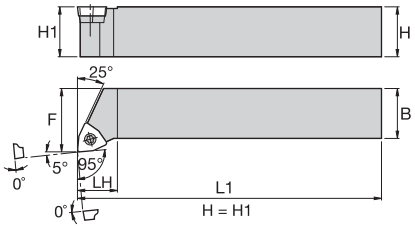




WCMT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WCMT040204LF	6,35	4,34	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
WCMT06T308LF	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

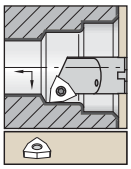




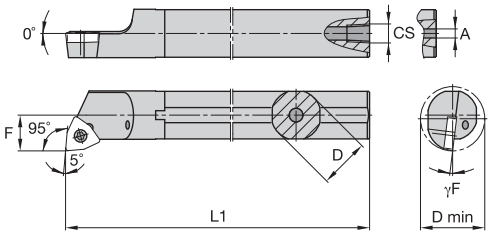
SWLC 95°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	vite inserto	Torx
destro												
1097732	**SWLCR2020K06**	20	20	25,0	125	16,0	WC..06T308	**SKWP343**	**SRS3**	3.5 mm	**MS1156**	T15

Bareni Screw-on



Codolo in acciaio con refrigerante interno.

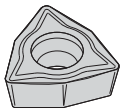


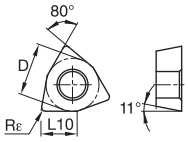
A-SWLC 95°

numero d'ordine	codice catalogo	D	D min	F	L1	A	CS	γF°	inserto di riferimento	vite inserto	Torx
destro											
1328642	**A06MSWLCR2**	10	12,2	6,4	152	3,2	—	-8.0	WC..2151	**MS1939**	T7
1328644	**A08RSWLCR2**	13	15,2	7,9	203	4,0	1/16-27 NPT	-6.0	WC..2151	**MS1153**	T7
1098062	**A10KSWLCR04**	10	13,0	7,0	125	3,0	—	-7.0	WC..040204	**MS1153**	T7
1328646	**A10SSWLCR3**	16	19,6	10,3	254	4,0	1/8-27 NPT	-7.0	WC..3252	**MS1155**	T15
1098063	**A12MSWLCR04**	12	16,0	9,0	150	—	1/16-27 NPT	-6.0	WC..040204	**MS1153**	T7
1098064	**A16RSWLCR06**	16	20,0	11,0	200	4,0	1/8-27 NPT	-7.0	WC..06T308	**MS1155**	T15
1098065	**A20SSWLCR06**	20	25,0	13,0	250	4,0	1/8-27 NPT	-5.0	WC..06T308	**MS1155**	T15
sinistro											
1098069	**A16RSWLCL06**	16	20,0	11,0	200	4,0	1/8-27 NPT	-7.0	WC..06T308	**MS1155**	T15

● prima scelta
○ scelta alternativa

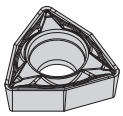
	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

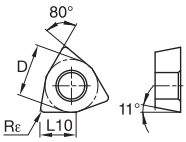




WPGT-UF

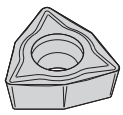
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPGTS30101UF	4,76	3,26	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
WPGTS30102UF	4,76	3,26	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
WPGT040202UF	6,35	4,34	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

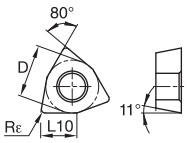




WPMT-FP

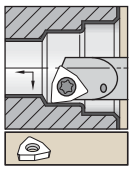
codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPMTS3T104FP	4,76	3,25	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
WPMT040204FP	6,35	4,34	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
WPMT06T304FP	9,53	6,52	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
WPMT06T308FP	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



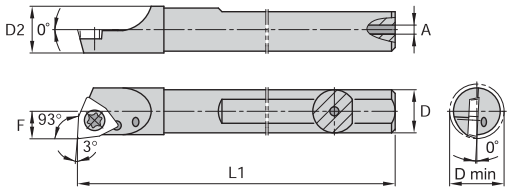


WPMT-LF

codice catalogo ISO	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPMTS3T104LF	4,76	3,25	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
WPMT040204LF	6,35	4,34	0,4	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
WPMT06T304LF	9,53	6,52	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
WPMT06T308LF	9,53	6,52	0,8	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–

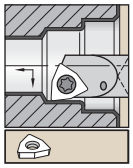


Codolo in acciaio con refrigerante interno.

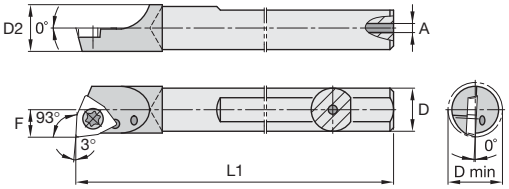


A-SWUP 93°

numero d'ordine	codice catalogo	D	D min	D2	F	L1	A	inserto di riferimento	vite inserto	Torx
destro										
1930544	**A06HSWUPRS3**	6	6,8	6,2	3,4	102	1,0	WP..S30104	**CT11**	T6
1930546	**A08HSWUPRS3**	8	8,8	8,2	4,4	102	2,4	WP..S30104	**CT11**	T6
1930556	**A12MSWUPR04**	12	12,9	12,2	6,6	152	4,0	WP..040204	**QTM20**	T7



Codolo in metallo duro con refrigerante interno.



E-SWUP 93°

numero d'ordine	codice catalogo	D	D min	D2	F	L1	A	inserto di riferimento	vite inserto	Torx
destro										
1930550	**E06MSWUPRS3**	6	6,8	6,2	3,4	152	1,2	WP..S30104	**CT11**	T6
1930552	**E08MSWUPRS3**	8	8,8	–	4,4	152	2,4	WP..S30104	**CT11**	T6
1930558	**E10SSWUPR04**	10	11,0	–	5,6	254	3,2	WP..040204	**QTM20**	T7
1930560	**E12SSWUPR04**	12	12,9	–	6,6	254	4,7	WP..040204	**QTM20**	T7
sinistro										
1930549	**E06MSWUPLS3**	6	6,8	6,2	3,4	152	1,2	WP..S30104	**CT11**	T6

Tornitura con inserti in materiale avanzato

Inserti in ceramica, PcBN e PCD

Gli inserti per tornitura in materiali avanzati, come ceramiche, PcBN (nitruro di boro cubico policristallino) e PCD (diamante policristallino), possono essere usati per la tornitura di componenti duri e la lavorazione di ghise, materiali temprati, leghe resistenti al calore e materiali non ferrosi.

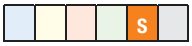
Offerta inserti in ceramica, PcBN e PCD:
- Prestazioni migliorate.
- Maggiore resistenza all'usura.

Inserti in ceramica

- Ceramica a base di nitruro di silicio per la lavorazione della ghisa.
- Diversi tipi di materiali ceramici per la lavorazione pesante e di finitura della ghisa.
- Ceramica whisker per leghe resistenti al calore e lavorazioni pesanti.

KYK25

KYS30

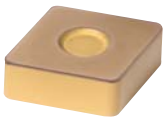


PcBN

Inserti solidi

- Gli inserti sono formati solo da PcBN.
- Nessun riporto di materiale.
- Migliore capacità di assorbimento del calore.
- Possono lavorare alle temperature più elevate.

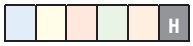
KBK45



Inserti con riporto

- Necessitano di supporto e riporto in PcBN.
- I riporti sono brasate al supporto.
- Il substrato deve avere una tasca per alloggiare e sostenere il riporto.

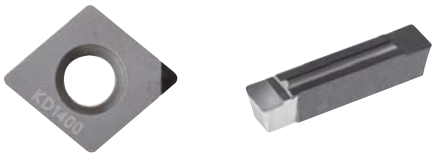
KBH20™



PCD

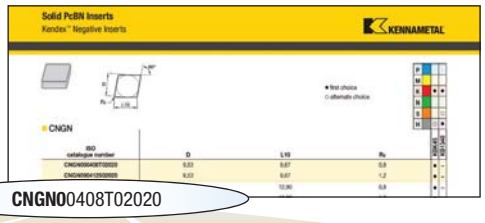
- Mirata alla lavorazione di materiali non ferrosi.
- Durezza notevolmente maggiore rispetto agli utensili in metallo duro.
- Maggiore produttività grazie a velocità di rotazione superiori e maggiore durata dell'utensile.
- Ideale per la lavorazione di materiali non lavorabili con utensili standard.

KD1400



Come utilizzare i codici del catalogo

Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



CNGN0408T02020

C — Forma inserto

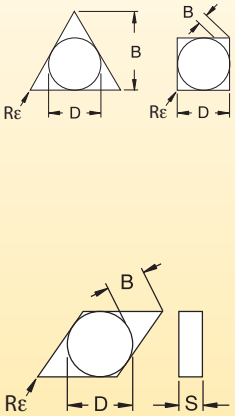
H	Esagono 120°	
O	Ottagono 135°	
P	Pentagono 108°	
R	Tondo —	
S	Quadrata 90°	
T	Triangolare 60°	
C D E M V	Romboide 80° 55° 75° 86° 35°	
W	Trigono 80° con gli angoli degli spigoli ampliati	
L	Rettangolare 90°	
A B N/K	Parallelogramma 85° 82° 55°	

N — Angolo di spoglia dell'inserto

A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Per altri angoli di spoglia inferiore che richiedono descrizioni.

G — Classe di tolleranza

Le tolleranze devono essere considerate prima della preparazione e del rivestimento del tagliente



D = Diametro teorico della circonferenza inscritta nell'inserto
S = Spessore
B = Vedere le figure di seguito

N — Caratteristiche dell'inserto

N	
R	
F	
A	
M	
G	
W	
T	
Q	
U	
B	
H	
C	
J	
X V	Design speciale

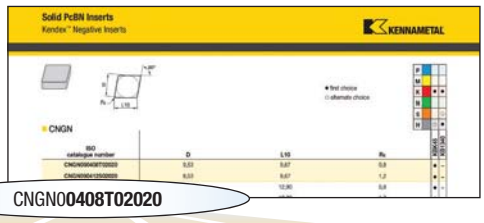
O — Dimensione

"D" mm	Codice per la lunghezza in mm del tagliente "L10" C	D	R	S	T	V	W
3,97	S4	04	03	03	06	—	—
4,76	04	05	04	04	08	08	S3
5,56	05	06	05	05	09	09	03
6,00	—	—	06	—	—	—	—
6,35	06	07	06	06	11	11	04
7,94	08	09	07	07	13	13	05
8,00	—	—	08	—	—	—	—
9,52	09	11	09	09	16	16	06
10,00	—	—	10	—	—	—	—
11,11	11	13	11	11	19	19	07
12,00	—	—	12	—	—	—	—
12,70	12	15	12	12	22	22	08
14,29	14	17	14	14	24	24	09
15,88	16	19	15	15	27	27	10
16,00	—	—	16	—	—	—	—
17,46	17	21	17	17	30	30	11
19,05	19	23	19	19	33	33	13
20,00	—	—	20	—	—	—	—
22,22	22	27	22	22	38	38	15
25,00	—	—	25	—	—	—	—
25,40	25	31	25	25	44	44	17
31,75	32	38	31	31	54	54	21
32,00	—	—	32	—	—	—	—

classe di tolleranza*	tolleranza su "D"	tolleranza su "B"	tolleranza su "S"
C	±0,025	±0,013	±0,025
H	±0,013	±0,013	±0,025
E	±0,025	±0,025	±0,025
G	±0,025	±0,025	±0,013
M	Vedere le tabelle nella pagina successiva		±0,013
U	Vedere le tabelle nella pagina successiva		±0,013

* Le tolleranze devono essere considerate prima della preparazione e del rivestimento del tagliente.

Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.



CNGN0**0408T02020**

04	08		T	020	20		
Spessore "S"	Raggio di punta "Rε"	Lato dell'inserto *(opzionale)*	Tagliente *(opzionale)*	Larghezza del T-land *(opzionale)*	Angolo T-land *(opzionale)*	Tipo di punta *(opzionale)*	*Rompitruciolo (opzionale)*

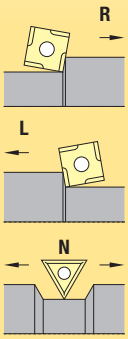
simbolo mm	spessore mm
—	0,79
T0	1,00
01	11,59
T1	1,98
02	2,38
03	3,18
T3	3,97
04	4,76
05	5,56
06	6,35
07	7,94
09	9,52
11	11,11
12	12,70

simbolo mm	raggio di punta mm
X0	.04
01	0,1
02	0,2
04	0,4
08	0,8
12	1,2
16	1,6
20	2,0
24	2,4
28	2,8
32	3,2
00	inserto rotondo
M0	

R = destro

L = sinistro

N = neutro



F*
Affilato

E
Arrotondato

T*
Smussato

S*
Smussato e arrotondato

K
Doppio smusso

P
A doppio smusso e arrotondato

* Disponibile anche nel tipo wiper.

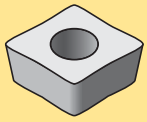
simbolo ISO	dimensione mm
010	0,01
020	0,02

simbolo	dimensione
10	10°
15	15°
20	20°
25	25°
30	30°

FW = Wiper di finitura

MW = Wiper medio

simbolo	utilizzo
C	superficie completa
M	mini punta
MT	a taglienti multipli
ST	punta singola



"D" mm	Tolleranza ± su "D" — Tolleranza classe M: Forme S, T, C, R, & W mm	Forma D mm	Forma V mm	Tolleranza classe U: Forme S, T, & C mm
3,97	0,05	–	–	–
4,76	0,05	–	–	0,08
5,56	0,05	0,05	0,05	0,08
6,35	0,05	0,05	0,05	0,08
7,94	0,05	0,05	0,05	0,08
9,52	0,05	0,05	0,05	0,08
11,11	0,08	0,08	0,08	0,13
12,70	0,08	0,08	0,08	0,13
14,29	0,08	0,08	0,08	0,13
15,88	0,10	0,10	0,10	0,18
17,46	0,10	0,10	0,10	0,18
19,05	0,10	0,10	0,10	0,18
22,22	0,13	–	–	0,25
25,40	0,13	–	–	0,25
31,75	0,15	–	–	0,25

"D" mm	Tolleranza ± su "B" — Tolleranza classe M: Forme S, T, C, R, & W mm	Forma D mm	Forma V mm	Tolleranza classe U: Forme S, T, & C mm
3,97	0,08	–	–	–
4,76	0,08	–	–	0,13
5,56	0,08	0,11	–	0,13
6,35	0,08	0,11	–	0,13
7,94	0,08	0,11	–	0,13
9,52	0,08	0,11	0,18	0,13
11,11	0,13	0,15	–	–
12,70	0,13	0,15	0,25	0,20
14,29	0,13	0,15	–	–
15,88	0,15	0,18	–	0,27
17,46	0,15	0,18	–	0,27
19,05	0,15	0,18	–	0,27
22,22	0,15	–	–	0,38
25,40	0,18	–	–	0,38
31,75	0,20	–	–	0,38

Materiali avanzati per lavorazione della ghisa

Applicazione principale

Gli innovativi materiali di Kennametal che utilizzano tecnologia Beyond™, assicurano resistenza all'usura e tenacità maggiori secondo l'applicazione.

Gli inserti in ceramica KYK sono la prima scelta per applicazioni di tornitura a velocità elevata, su tagli continui o leggermente interrotti su ghisa. Tra i vantaggi vi sono una tenacità alla frattura e una resistenza all'usura migliorate e un campo di applicazione più esteso. Associando il grado KYK10™ e il grado KYK25™ con rivestimento CVD alle nostre altre qualità ceramiche per ghisa, Kennametal fornisce una gamma completa e ad alte prestazioni di inserti in ceramica in grado di ottimizzare il tempo ciclo e i costi di produzione.

Le qualità SiAlON di Kennametal, come KYK10, possono essere applicate a velocità di taglio elevate fino al campo di applicazione del PcBN e in varie condizioni di lavorazione della ghisa. Combinando la scienza dei materiali SiAlON, la tecnologia di rivestimento CVD e le qualità PcBN per la lavorazione della ghisa, Kennametal fornisce un portafoglio completo ad alte prestazioni che può ridurre i tempi ciclo e i costi di lavorazione.

Caratteristiche e vantaggi

Inserti PcBN integrali

Qualità KBK45™

- Progettati per un'elevata resistenza all'abrasione.
- Qualità ideale per una produzione costo al pezzo.
- Per sgrossatura e finitura.
- Color oro per un migliore monitoraggio dell'uso.

Qualità KB1340™

- Progettati per un'elevata resistenza all'abrasione.
- Resistenza alle alte temperature.
- Per sgrossatura e finitura.

Inserti PcBN con riporto

Qualità KB5630™

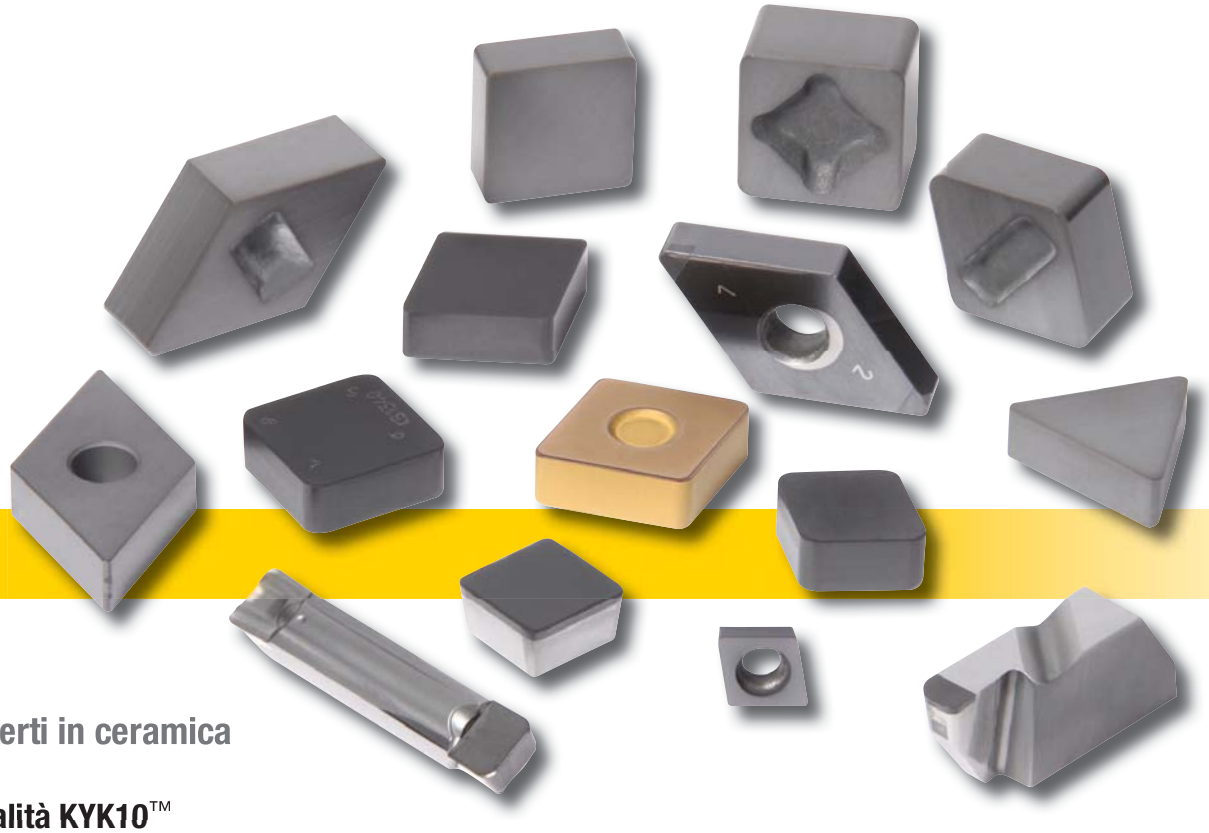
- Materiale laminato per finitura di precisione.
- Stabilità del tagliente ottimale.
- Rivestimento in PVD per una durata affidabile dell'utensile, anche in varie condizioni di lavorazione del materiale.

Qualità KB1345™

- Qualità con riporto ad alto contenuto di CBN resistente all'abrasione.
- Struttura in PcBN molto fine adatta per applicazioni di finitura fini.

La qualità KBK45™ offre il migliore costo per pezzo nelle ghise.

La qualità KB5630™ ha una resistenza all'abrasione maggiore per ghise temprate.



Inserti in ceramica

Qualità KYK10™

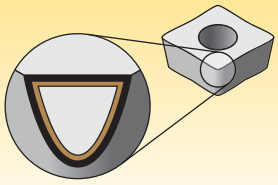
- Migliorata resistenza all'usura e tenacità e maggiore durata dell'utensile fino al 20% in più rispetto all'attuale qualità KY1310™.
- Ideale per tornitura continua su materiali in ghisa e con tagli leggermente interrotti.

Qualità KYK25™

- Il rivestimento dello spessore di 12 micron fornisce un'eccellente resistenza all'usura e il trattamento pre-rivestimento permette una durata dell'utensile e prestazioni molto costanti nelle lavorazioni della ghisa.
- Durata dell'utensile fino al 30% maggiore rispetto alle qualità in ceramica rivestite in CVD della concorrenza.

Qualità KY3500™

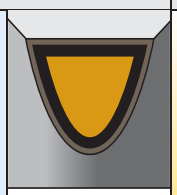
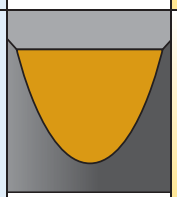
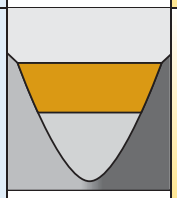
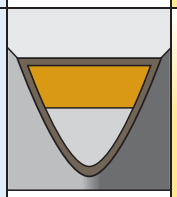
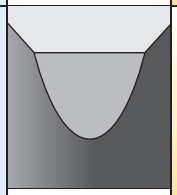
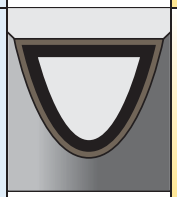
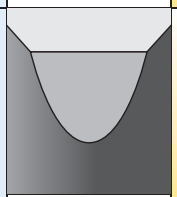
- Eccellente per operazioni di sgrossatura e finitura in tagli a umido o a secco con velocità fino a 1000 m/min.
- Garantisce ottime prestazioni in tagli interrotti complessi di ghisa duttile o malleabile (resistenza alla trazione <70 KSI) a velocità di 250–450 m/min.



I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

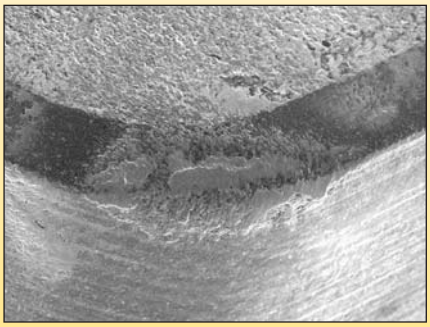
P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ← → **tenacità**

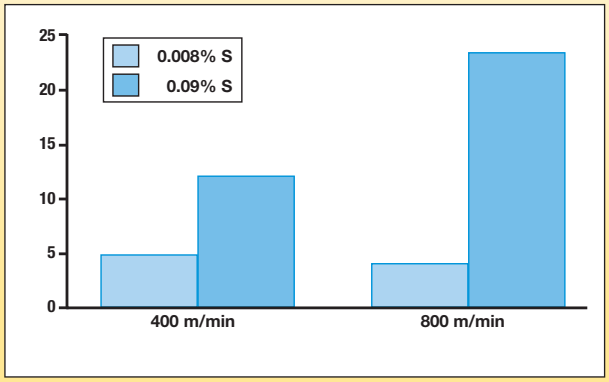
	Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
Qualità PcBN integrale	KBK45		**Composizione:** Inserto PcBN integrale ad alto contenuto di CBN con taglienti multipli con rivestimento PVD TiN. **Applicazione:** Applicato in lavorazioni che vanno dalla sgrossatura alla finitura di ghise dure e grigie. Utilizzato anche per la finitura di ghisa temprata e di ghisa interamente perlitica. Gli inserti PcBN integrali offrono maggiore sicurezza e resistenza agli urti rispetto agli inserti con riporto in PcBN, consentendo allo stesso tempo maggiori profondità di taglio. beyond	K			■	■	■	■	■	■	
Qualità PcBN integrale	KB1340		**Composizione:** Un inserto PcBN integrale ad alto contenuto di CBN con taglienti multipli. **Applicazione:** Applicato in lavorazioni che vanno dalla sgrossatura alla finitura di ghise grigie interamente perlitiche, ghise temprate, acciai legati ad alto contenuto di cromo e tagli pesanti in acciai temprati (>45 HRC). Gli inserti PcBN integrali offrono maggiore sicurezza e resistenza agli urti rispetto agli inserti con riporto in PcBN, consentendo allo stesso tempo maggiori profondità di taglio.	K		■	■	■	■	■			
Qualità con riporto in PcBN	KB1345		**Composizione:** Punta in PCBN ad alto contenuto di CBN, brasata su un inserto in metallo duro. **Applicazione:** Applicato in lavorazioni che vanno dalla sgrossatura alla finitura di ghise grigie interamente perlitiche, ghise temprate, acciai legati ad alto contenuto di cromo, metalli sinterizzati e tagli pesanti in acciai temprati (>45 HRC). Utilizzato anche per la finitura di ghisa temprata e di ghisa interamente perlitica. L'inserto con riporto in PcBN è disponibile in una vasta gamma di tipi di inserti, incluse geometrie con angolo di spoglia positivo, ideali per applicazioni di barenatura.	K H				■	■	■	■	■	■
Qualità con riporto in PcBN	KB5630		**Composizione:** Ad alto contenuto di PcBN con rivestimento PVD-AlTiN per una maggiore resistenza all'usura. **Applicazione:** Ideale per la sgrossatura e la finitura di acciai temprati (>45 HRC), materiali abrasivi quali materiali sinterizzati per sedi valvole, acciai sinterizzati e ghise dure alto legate. Il rivestimento in PVD offre resistenza all'usura per craterizzazione e una maggiore resistenza alle scheggiature. È disponibile un'ampia gamma di tipi, fra cui geometrie screw-on ideali per le applicazioni di barenatura.	K S H		■ ■	■ ■	■ ■		■	■	■		
Qualità ceramiche	KYK10		**Composizione:** Qualità ceramica SiAlON avanzata. **Applicazione:** Garantisce massima resistenza all'usura. Utilizzata per tornitura continua ad alta velocità di ghisa grigia e lavorazioni a scalini. Da utilizzare per varie lavorazioni della ghisa. beyond	K		■	■	■					
Qualità ceramiche	KYK25		**Composizione:** Ceramica a base di puro nitruro di silicio con rivestimento di allumina CVD. **Applicazione:** Straordinaria combinazione di tenacità e resistenza all'usura dei taglienti. Per lavorazioni generali di ghise grigie, sferoidali o nodulari. Da utilizzare per varie lavorazioni della ghisa. beyond	K		■	■	■					
Qualità ceramiche	KY3500		**Composizione:** Qualità pura in nitruro di silicio. **Applicazione:** Tenacità massima. Utilizzata a velocità di avanzamento elevate per la sgrossatura di ghisa grigia, inclusa la sgrossatura su tagli interrotti.	K		■	■	■	■	■			

Lavorabilità della ghisa

- La ghisa non invecchiata è difficile da lavorare e provoca una vita tagliente più breve.
- Il basso tenore di zolfo porta alla vita utensile più breve.
- L'alto contenuto di titanio diminuisce significativamente la durata dell'utensile.
- Il contenuto aumentato di ferrite provoca un'alta usura chimica e una durata dell'utensile decisamente inferiore.
- La ghisa grafitica compatta ha un'alta usura chimica.



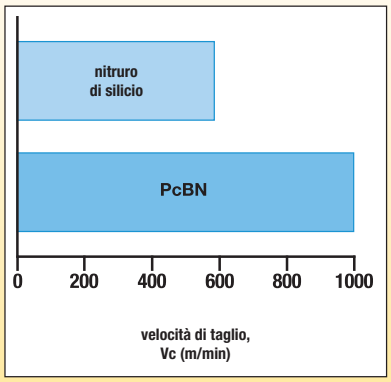
Corretta applicazione di KB1340™ — formazione dello strato protettivo; la durata dell'utensile deve superare una lunghezza di 70 km.



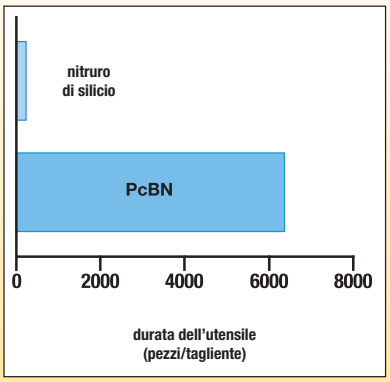
Durata degli utensili da taglio PcBN a confronto nella lavorazione di due ghise grigie che differiscono principalmente per il loro contenuto di zolfo.

Lavorazione di dischi per freni in ghisa grigia • Confronto tra ceramica e PcBN

(a)



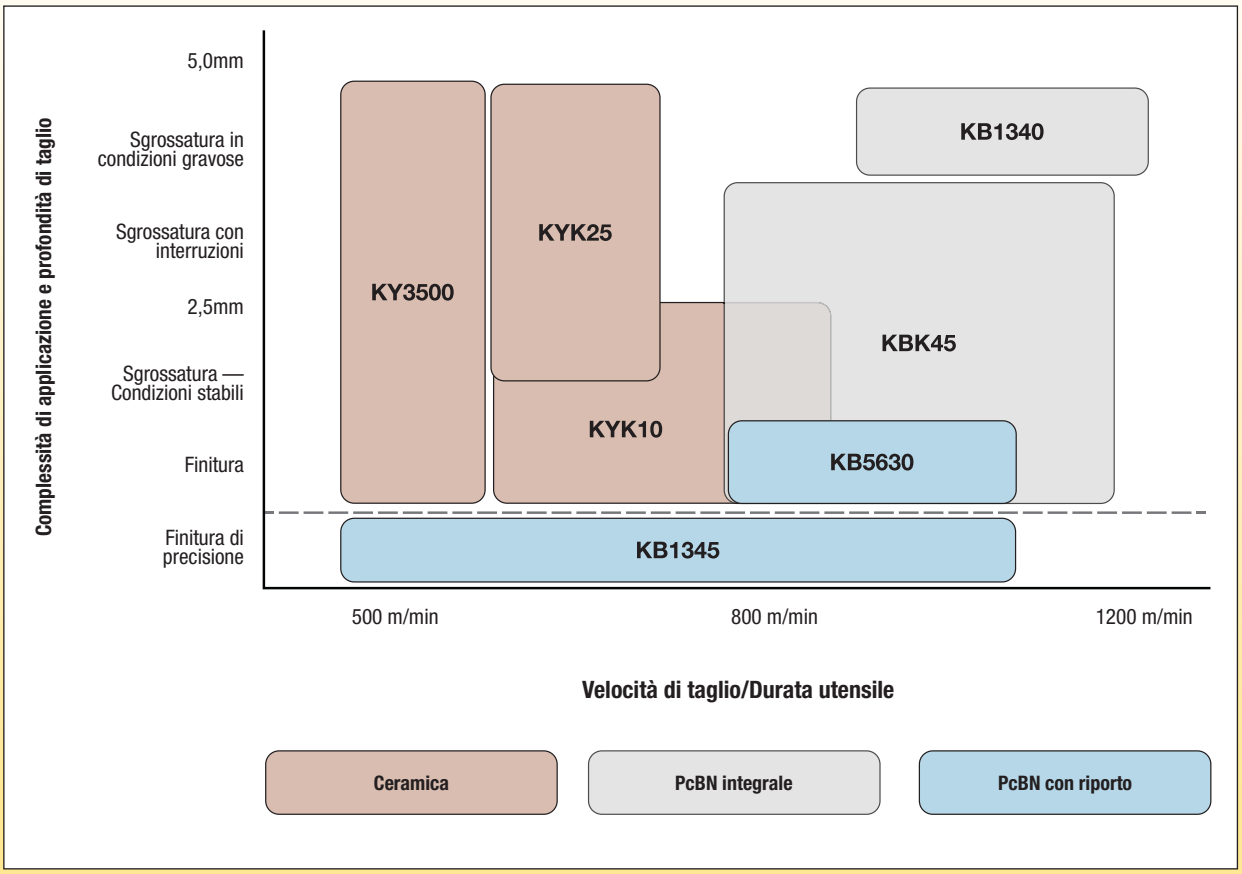
(b)



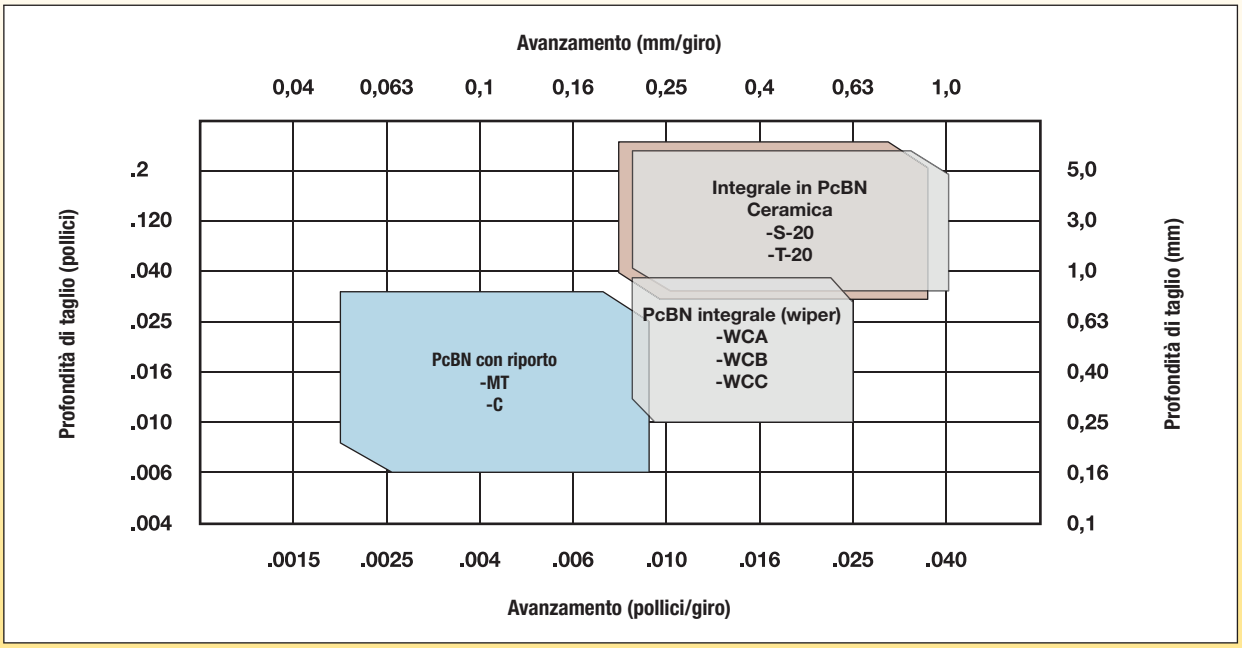
(c)

PcBN aumenta la produttività nella lavorazione di dischi per freni in ghisa grigia (a) in termini di velocità di taglio e (b) durata dell'utensile (c) rispetto alla ceramica al nitruro di silicio.

Selezionare il materiale di taglio



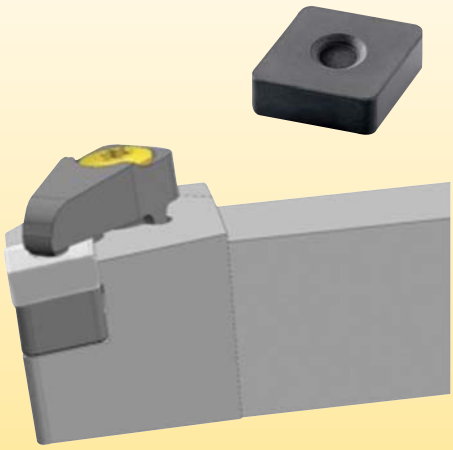
Profondità di taglio



Bloccaggi a staffa e nicchia per una maggiore stabilità

Applicazione tipica

Il continuo tentativo di ridurre i costi costringe i produttori di dischi per freni in ghisa grigia a cercare soluzioni per risparmiare. Gli inserti CBN offrono un'elevata produttività e una maggiore vita utensile. Kennametal ha sviluppato la qualità KB1340™ integrale ad alto contenuto di CBN, la quale garantisce prestazioni superiori nella lavorazione di componenti in ghisa grigia come dischi dei freni o volani. Per assicurare un posizionamento sicuro nel portautensili, gli inserti sono disponibili con un sistema di bloccaggio a staffa e nicchia. Le staffe si adattano ai portautensili Ceramtec, rendendo più semplice la conversione agli utensili Kennametal.



Maggiore produttività e redditività

- Assicura un bloccaggio sicuro e rigido.
- L'inserto con speciale sistema di bloccaggio a staffa e nicchia assicura una maggiore stabilità nella sede.
- Ideale per lavorazioni impegnative.
- Le staffe rivestite in carburo per una maggiore resistenza allo sfregamento del truciolo sono disponibili su richiesta.
- La forma poco profonda della nicchia consente l'uso di inserti più economici da 4,76mm (3/16").
- Il design arrotondato della nicchia è idoneo per gli utensili personalizzati, in cui è necessario correggere la direzione di bloccaggio a causa dei limiti di spazio.

Grafico di selezione staffa

inserto		staffa	
codice catalogo	codice catalogo	codice catalogo	numero d'ordine
CNGX433S0415	CNGX120412S01015	551.718–100° Corner	3968904
CNGX433S0415FW	CNGX120412S01015FW	551.718–100° Corner	3968904
CNGX434S0820	CNGX120416S02020	551.718–100° Corner	3968904
CNGF432	CNGF120408	551.718–100° Corner	3968904
DNGX434S0820	DNGX150416S02020	551.720	4094234
SNGX434S0820	SNGX120416S02020	551.718	3968904
SNGX534S0820	SNGX150416S02020	551.718	3968904
VNGX333S0820	VNGX160412S02020	551.721	4094236
TNGX333EFW	TNGX160412EFW	551.733	4094235

Wiper per lavorazione della ghisa

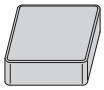
WCA
Wiper per la lavorazione della ghisa per una velocità di avanzamento (f) fino a 0,25mm/giro.

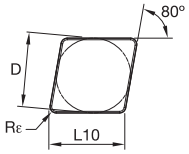
WCB
Wiper per la lavorazione della ghisa per una velocità di avanzamento (f) fino a 0,45mm/giro.

WCC
Wiper per la lavorazione della ghisa per una velocità di avanzamento (f) fino a 0,65mm/giro.

● prima scelta
○ scelta alternativa

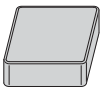
	KBK45	KB1340
P		
M		
K	●	●
N		
S		○
H	○	●

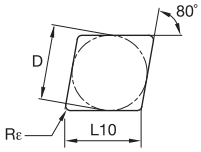




CNGN

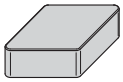
codice catalogo ISO	D	L10	Rε	KBK45	KB1340
CNGN090408T02020	9,53	9,67	0,8	●	–
CNGN090412S02020	9,53	9,67	1,2	●	–
CNGN120408T02020	12,70	12,90	0,8	●	–
CNGN120412S02020	12,70	12,90	1,2	●	–
CNGN120416S02020	12,70	12,90	1,6	●	–

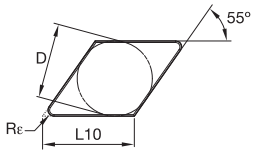




CNMN

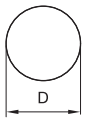
codice catalogo ISO	D	L10	Rε	KBK45	KB1340
CNMN120408S02020	12,70	12,90	0,8	–	●
CNMN120412S02020	12,70	12,90	1,2	–	●





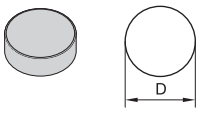
DNGN

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
DNGN120408S02020	10,00	12,21	0,8	●	–
DNGN120412S02020	10,00	12,21	1,2	●	–



RNGN

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
RNGN090400S02020	9,53	–	–	●	–
RNGN120400S02020	12,70	–	–	●	–

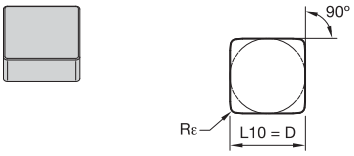


● prima scelta
○ scelta alternativa

RNMN

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
RNMN090300S02020	9,53	–	–	–	●
RNMN120300S02020	12,70	–	–	–	●
RNMN120400S02020	12,70	–	–	–	●

Inserti positivi Kendex™

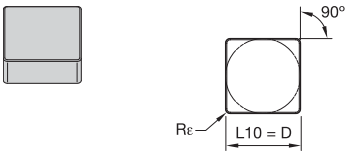


● prima scelta
○ scelta alternativa

SNGN

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
SNGN120408T02020	12,70	12,70	0,8	●	–
SNGN120412S02020	12,70	12,70	1,2	●	–
SNGN120416S02020	12,70	12,70	1,6	●	–

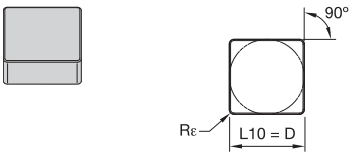
Inserti wiper positivi Kendex



● prima scelta
○ scelta alternativa

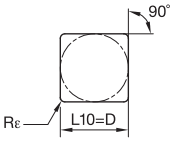
SNGN-WCB

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
SNGN090408S01015WCB	9,53	9,52	0,8	●	–



SNGN-WCC

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
SNGN090408S01015WCC	9,53	9,53	0,8	●	–

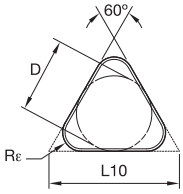


● prima scelta
○ scelta alternativa

P		
M		
K	●	●
N		
S		○
H	○	●

SNMN

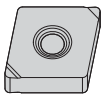
codice catalogo ISO	D	L10	Rε	KBK45	KB1340
SNMN090308S02020	9,53	9,53	0,8	–	●
SNMN090316S02020	9,53	9,53	1,6	–	●
SNMN120316S02020	12,70	12,70	1,6	–	●
SNMN120416T02020	12,70	12,70	1,6	–	●

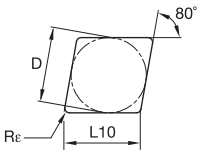


TNGN

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
TNGN110416S02020	6,35	11,00	1,6	●	–
TNGN160416S02020	9,53	16,50	1,6	●	–

Inserti negativi Kendex™ con nicchia di fissaggio





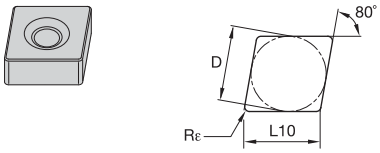
● prima scelta
○ scelta alternativa

P		
M		
K	●	●
N		
S		○
H	○	●

CNGF

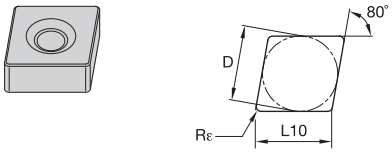
codice catalogo ISO	D	L10	Rε	KBK45	KB1340
CNGF120408	12,70	12,90	0,8	–	●

● prima scelta
○ scelta alternativa



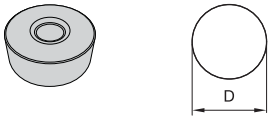
CNGX

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
CNGX120408T02020	12,70	12,90	0,8	●	–
CNGX120412S01015	12,70	12,90	1,2	–	●
CNGX120412S02020	12,70	12,90	1,2	●	–
CNGX120416S02020	12,70	12,90	1,6	●	●



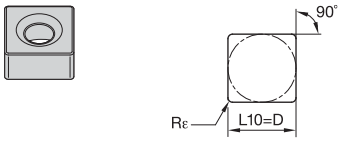
CNGX-FW

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
CNGX120412S01015FW	12,70	12,90	1,2	–	●



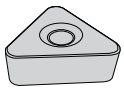
RNGX

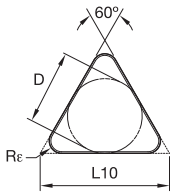
codice catalogo ISO	D	L10	Rε	KBK45	KB1340
RNGX120400S02020	12,70	–	–	●	–



SNGX

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
SNGX120408T02020	12,70	12,70	0,8	●	–
SNGX120412S02020	12,70	12,70	1,2	●	–
SNGX120416S02020	12,70	12,70	1,6	●	●





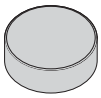
● prima scelta
○ scelta alternativa

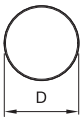
P		
M		
K	●	●
N		
S		○
H	○	●

TNGX

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
TNGX160416S02020	9,53	16,50	1,6	●	–

Inserti positivi Kendex™





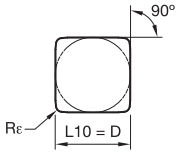
● prima scelta
○ scelta alternativa

P		
M		
K	●	●
N		
S		○
H	○	●

RCGN

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
RCGN090400T01015	9,53	—	—	●	–

Inserti wiper negativi Kendex™

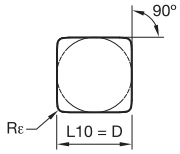


● prima scelta
○ scelta alternativa

P		
M		
K	●	●
N		
S		○
H	○	●

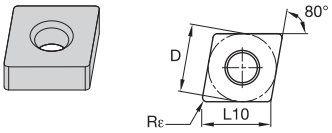
SCGN-WCB

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
SCGN090408S01015WCB	9,53	9,52	0,8	●	–



SCGN-WCC

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
SCGN090408S01015WCC	9,53	9,52	0,8	●	–



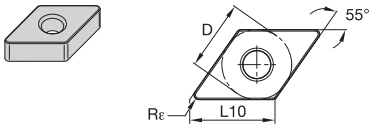
● prima scelta
○ scelta alternativa

	KBK45	KB1340
P		
M		
K	●	●
N		
S		○
H	○	●

CNMA

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
CNMA120408S02020	12,70	12,90	0,8	–	●
CNMA120412S02020	12,70	12,90	1,2	–	●

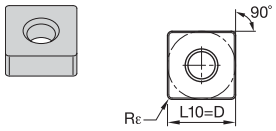
NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.



DNMA

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
DNMA110408S02020	9,53	11,63	0,8	–	●
DNMA110412S02020	9,53	11,63	1,2	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.

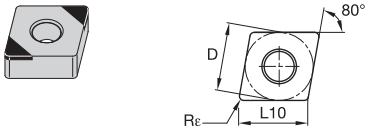


SNMA

codice catalogo ISO	D	L10	Rε	KBK45	KB1340
SNMA120412S02020	12,70	12,70	1,2	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B105–B121.

Inserti in materiale avanzato • Materiali per tornitura duraInserti Kenloc™



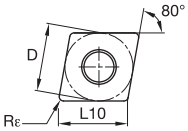
● prima scelta
○ scelta alternativa

	KB1345	KB5630
P		
M		
K	●	●
N		
S	○	●
H	●	●

CNGA-FWMT

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
CNGA120404S01025FWMT	12,70	12,90	0,4	–	●
CNGA120408S01025FWMT	12,70	12,90	0,8	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.



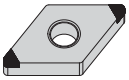
● prima scelta
○ scelta alternativa

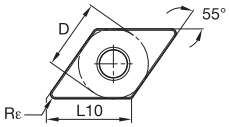
P		
M		
K	●	●
N		
S	○	●
H	●	●

CNGA-MT

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
CNGA120404S01025MT	12,70	12,90	0,4	–	●
CNGA120408S01020MT	12,70	12,90	0,8	●	–
CNGA120408S01025MT	12,70	12,90	0,8	–	●
CNGA120408S02020MT	12,70	12,90	0,8	●	–
CNGA120412S01020MT	12,70	12,90	1,2	–	●
CNGA120412S01025MT	12,70	12,90	1,2	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.



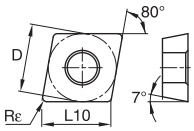


DNGA-MT

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
DNGA150404S01025MT	12,70	15,50	0,4	–	●
DNGA150408S01020MT	12,70	15,50	0,8	●	–
DNGA150408S01025MT	12,70	15,50	0,8	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.

Inserti in materiale avanzato • Materiali per tornitura dura



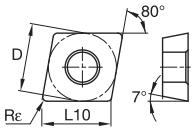
● prima scelta
○ scelta alternativa

P		
M		
K	●	●
N		
S	○	●
H	●	●

CCGW-C

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
CCGW060202S01015C	6,35	6,45	0,2	–	●
CCGW060204S01015C	6,35	6,45	0,4	–	●
CCGW09T308EC	9,53	9,67	0,8	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B179–B183.



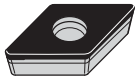
● prima scelta
○ scelta alternativa

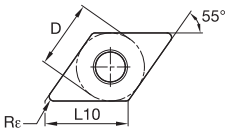
P		
M		
K	●	●
N		
S	○	●
H	●	●

CCGW-MT

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
CCGW09T304S01015MT	9,53	9,67	0,4	–	●
CCGW09T308S01015MT	9,53	9,67	0,8	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B179–B183.



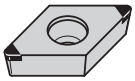


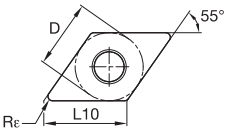
DCGW-C

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
DCGW070202S01015C	6,35	7,75	0,2	–	●
DCGW070204S01015C	6,35	7,75	0,4	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B209–B213.

Inserti PcBN con riporto • Inserti Screw-on





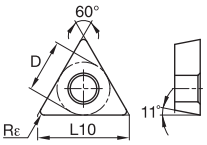
● prima scelta
○ scelta alternativa

P		
M		
K	●	●
N		
S	○	●
H	●	●

DCGW-MT

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
DCGW11T304S01015MT	9,53	11,63	0,4	●	●
DCGW11T308S01015MT	9,53	11,63	0,8	●	●

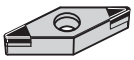
NOTA: Per gli utensili e i bareni vedere a pagg B209–B213.

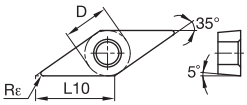


TPGW-C

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
TPGW110204EC	6,35	11,00	0,4	●	–
TPGW110208S01015C	6,35	11,00	0,8	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B257–B263.





● prima scelta
○ scelta alternativa

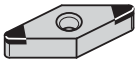
P		
M		
K	●	●
N		
S	○	●
H	●	●

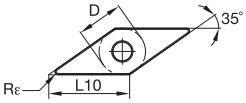
VBGW-MT

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
VBGW160404S01015MT	9,53	16,61	0,4	–	●
VBGW160408S01015MT	9,53	16,61	0,8	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B266–B269.

Inserti Kenloc™





● prima scelta
○ scelta alternativa

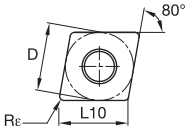
P		
M		
K	●	●
N		
S	○	●
H	●	●

VNGA-MT

codice catalogo ISO	D	L10	Rε	KB1345	KB5630
VNGA160404S01025MT	9,53	16,61	0,4	–	●
VNGA160408S01025MT	9,53	16,61	0,8	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B149–B153.

Inserti in ceramica ISO • Inserti Kenloc™



● prima scelta
○ scelta alternativa

P			
M			
K	●	●	●
N			
S			
H			

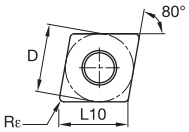
CNGA

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
CNGA120408T02020	12,70	12,90	0,8	●	●	●
CNGA120412T02020	12,70	12,90	1,2	●	●	●
CNGA120416T02020	12,70	12,90	1,6	●	●	●
CNGA160612T02020	15,88	16,12	1,2	●	–	●
CNGA160616T02020	15,88	16,12	1,6	–	–	●
CNGA190612T02020	19,05	19,34	1,2	–	–	●
CNGA190616T02020	19,05	19,34	1,6	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.

● prima scelta
○ scelta alternativa

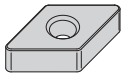
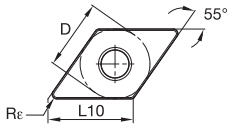
P			
M			
K	●	●	●
N			
S			
H			



CNGA-FW

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
CNGA120408T01020FW	12,70	12,90	0,8	●	–	●
CNGA120412T01020FW	12,70	12,90	1,2	●	●	●
CNGA120412T02020FW	12,70	12,90	1,2	–	●	–
CNGA120416T01020FW	12,70	12,90	1,6	–	–	●

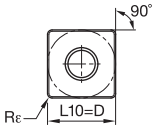
NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.

DNGA

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
DNGA150408T02020	12,70	15,50	0,8	–	–	●
DNGA150412T02020	12,70	15,50	1,2	–	–	●
DNGA150416T02020	12,70	15,50	1,6	●	●	●
DNGA150608T02020	12,70	15,50	0,8	–	–	●
DNGA150612T02020	12,70	15,50	1,2	–	–	●

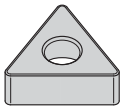
NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.

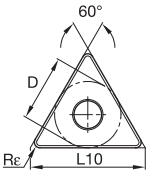


SNGA

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
SNGA120408T02020	12,70	12,70	0,8	●	●	●
SNGA120412T02020	12,70	12,70	1,2	●	–	●
SNGA120416T02020	12,70	12,70	1,6	–	–	●
SNGA150612T02020	15,88	15,88	1,2	–	–	●
SNGA150612T02020	15,88	15,88	1,2	●	–	–
SNGA150616T02020	15,88	15,88	1,6	–	–	●
SNGA190612T02020	19,05	19,05	1,2	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B105–B121.





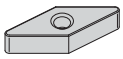
● prima scelta
○ scelta alternativa

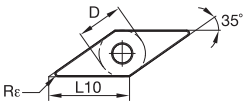
P			
M			
K	●	●	●
N			
S			
H			

TNGA

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
TNGA160408T02020	9,53	16,50	0,8	–	●	●
TNGA160412T02020	9,53	16,50	1,2	–	–	●
TNGA160416T02020	9,53	16,50	1,6	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B132–B142.

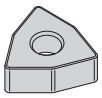


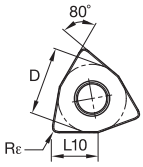


VNGA

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
VNGA160408T02020	9,53	16,61	0,8	–	–	●
VNGA220408T02020	12,70	22,14	0,8	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B149–B153.

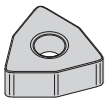


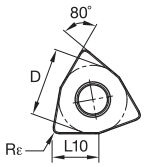


WNGA

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
WNGA080408T02020	12,70	8,69	0,8	●	–	●
WNGA080412T02020	12,70	8,69	1,2	●	–	●
WNGA080416T02020	12,70	8,69	1,6	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B161–B165.



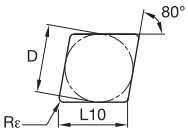


WNGA-FW

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
WNGA080408T01020FW	12,70	8,69	0,8	–	–	●

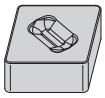
NOTA: Per gli utensili e i bareni vedere a pagg B161–B165.

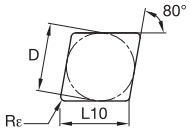
● prima scelta
○ scelta alternativa



CNGN

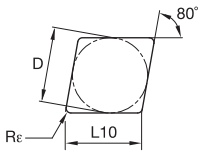
codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
CNGN120408T02020	12,70	12,90	0,8	–	–	●
CNGN120412T02020	12,70	12,90	1,2	–	–	●
CNGN120416T02020	12,70	12,90	1,6	–	–	●
CNGN120712T02020	12,70	12,90	1,2	–	–	●
CNGN120716T02020	12,70	12,90	1,6	–	●	–





CNGX-FW

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
CNGX120708T01020FW	12,70	12,90	0,8	–	–	●
CNGX120712T01020FW	12,70	12,90	1,2	–	–	●
CNGX120716T01020FW	12,70	12,90	1,6	–	–	●

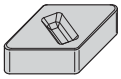


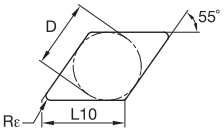
CNMX

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
CNMX120708T02020	12,70	12,90	0,8	–	–	●
CNMX120712T02020	12,70	12,90	1,2	–	–	●
CNMX120716T02020	12,70	12,90	1,6	–	–	●

P			
M			
K	●	●	●
N			
S			
H			

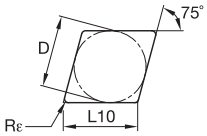
● prima scelta
○ scelta alternativa





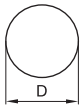
DNGX

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
DNGX120708T02020	10,00	12,21	0,8	–	–	●
DNGX120712T02020	10,00	12,21	1,2	●	–	●
DNGX120716T02020	10,00	12,21	1,6	–	–	●
DNGX150708T02020	12,70	15,50	0,8	–	–	●
DNGX150712T02020	12,70	15,50	1,2	●	–	●
DNGX150716T02020	12,70	15,50	1,6	–	–	●



ENGX

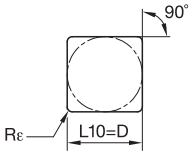
codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
ENGX130716T02020	12,70	13,15	1,6	–	–	●



RNGN

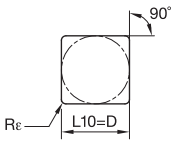
codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
RNGN120400T02020	12,70	–	–	–	●	●
RNGN120700T02020	12,70	–	–	–	–	●
RNGN190700T02020	19,05	–	–	–	–	●

● prima scelta
○ scelta alternativa



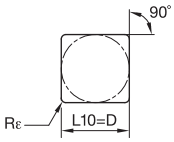
SNGN

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
SNGN090308T02020	9,53	9,53	0,8	–	–	●
SNGN120408T02020	12,70	12,70	0,8	●	–	●
SNGN120412T02020	12,70	12,70	1,2	●	–	●
SNGN120416T02020	12,70	12,70	1,6	–	–	●
SNGN120432T02020	12,70	12,70	3,2	–	–	●
SNGN120712T02020	12,70	12,70	1,2	●	–	–
SNGN120716T02020	12,70	12,70	1,6	–	–	●
SNGN190416T02020	19,05	19,05	1,6	–	–	●



SNGX

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
SNGX120712T02020	12,70	12,70	1,2	●	●	●
SNGX120716T02020	12,70	12,70	1,6	●	●	●
SNGX150716T02020	15,88	15,88	1,6	–	–	●
SNGX150724T02020	15,88	15,88	2,4	–	–	●

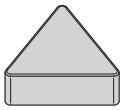


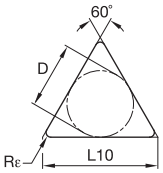
● prima scelta
○ scelta alternativa

P			
M			
K	●	●	●
N			
S			
H			

SNMX

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
SNMX120712T02020	12,70	12,70	1,2	–	–	●
SNMX120716T02020	12,70	12,70	1,6	–	–	●
SNMX150716T02020	15,88	15,88	1,6	–	–	●

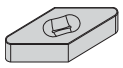


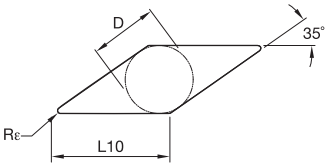


TNGN

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
TNGN160408T02020	9,53	16,50	0,8	–	–	●
TNGN220416T02020	12,70	22,00	1,6	–	–	●

Inserti negativi Kendex™ con nicchia di fissaggio



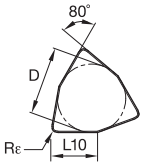


● prima scelta
○ scelta alternativa

P			
M			
K	●	●	●
N			
S			
H			

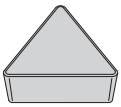
VNGX

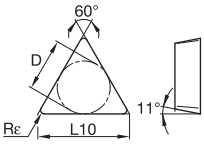
codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
VNGX160712T02020	9,52	16,61	1,2	–	–	●
VNGX160716T02020	9,53	16,61	1,6	–	–	●



WNGX

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
WNGX080712T02020	12,70	8,69	1,2	–	●	●



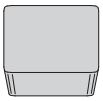


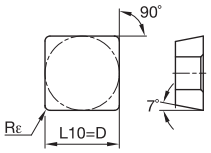
● prima scelta
○ scelta alternativa

P			
M			
K	●	●	●
N			
S			
H			

TPGN

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
TPGN160308T02020	9,53	16,50	0,8	–	–	●
TPGN160312T02020	9,53	16,50	1,2	–	●	●
TPGN220408T02020	12,70	22,00	0,8	–	–	●
TPGN220412T02020	12,70	22,00	1,2	–	–	●



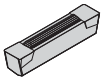


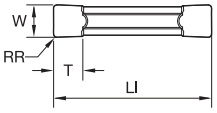
SCGN-FW

codice catalogo ISO	D	L10	Rε	KYK25	KYK10	KY3500
SCGN090408EFW	9,53	9,53	0,8	–	–	●

Tabella di selezione delle staffe

numero d'ordine	codice catalogo	staffa	
3960807	CNGX120412S01015	551.718–100° Corner	551.716–80° Corner
3960808	CNGX120412S01015FW	551.718–100° Corner	551.716–80° Corner
3960806	CNGX120416S02020	551.718–100° Corner	551.716–80° Corner
3960811	DNGX150416S02020	551.720	551.720
3960812	SNGX120416S02020	551.718	551.718
3960823	SNGX150416S02020	551.718	551.718
3876843	CNGF120408	551.718–100° Corner	551.716–80° Corner
3960825	TNGX160412EFW	551.733	551.733





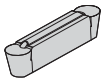
● prima scelta
○ scelta alternativa

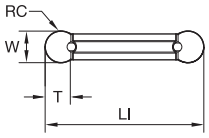
P	
M	
K	●
N	
S	
H	

A4G-P-T

codice catalogo ISO	dimensione sede	W	RR	LI	T	KY3500
A4G0300M03P04T01025	3	3,00	0,4	20	3,4	●
A4G125I03P1T0425	3	3,18	0,4	20	3,4	●
A4G0400M04P04T01025	4	4,00	0,4	20	3,4	●
A4G0500M05P08T01025	5	5,00	0,8	25	4,2	●
A4G0600M06P08T01025	6	6,00	0,8	30	4,8	●
A4G250I06P2T0425	6	6,35	0,8	30	4,9	●
A4G0800M08P08T01025	8	8,00	0,8	30	6,4	●

NOTA: Per gli utensili A4, i bareni e le lame, vedere a pagg C104–C135.





A4R-P-T

codice catalogo ISO	dimensione sede	W	RC	LI	T	KY3500
A4R0300M03P00T01025	3	3,00	1,5	20	2,4	●
A4R0500M05P00T01025	5	5,00	2,5	25	4,1	●
A4R0600M06P00T01025	6	6,00	3,0	30	4,3	●
A4R250I06P00T0425	6	6,35	3,2	30	4,8	●
A4R0800M08P00T01025	8	8,00	4,0	30	6,4	●

NOTA: Per gli utensili A4, i bareni e le lame, vedere a pagg C104–C135.

Kennametal sul Web

kennametal.com

TROVARE LE PIÙ RECENTI INFORMAZIONI DI PRODOTTO

Che si tratti di tornitura, fresatura o foratura, i marchi Kennametal rappresentano l'utensileria ad elevate prestazioni di cui avete bisogno. Offriamo soluzioni standard e personalizzate per un'ampia gamma di applicazioni.

Trovare informazioni aggiornate sulle campagne e sui cataloghi.

Registrarsi su Konnect per avere la funzionalità completa del sito web di Kennametal per l'ordinazione online.

CONTATTATECI

I nostri clienti sono importanti per noi. Desideriamo offrirvi il miglior servizio clienti del settore. Inviateci i vostri commenti o le vostre domande. Cercheremo di rispondere a tutte le richieste entro 24 ore.

TROVARE IL PARTNER DI DISTRIBUZIONE AUTORIZZATO PIÙ VICINO

Kennametal offre prodotti e servizi di prim'ordine in tutto il mondo. I nostri distributori ci conoscono bene e, ciò che più importa, conoscono bene anche voi. Sanno meglio di chiunque altro in questo settore come mettere le potenzialità di Kennametal al servizio del vostro settore, nella vostra area e per la vostra azienda.

Tornitura materiali duri

Inserti con alto e basso contenuto di CBN

A livello globale l'attuale settore del taglio dei metalli si sta concentrando sempre più su una maggiore produttività e su una riduzione dei costi derivanti dagli utensili da taglio. Questi requisiti hanno portato a una rapida crescita e realizzazione di utensili da taglio in materiali superduri. Come dice il nome stesso, questi materiali hanno una durezza notevolmente maggiore rispetto ai convenzionali materiali da taglio. Dal punto di vista dell'utente finale questo si traduce in un aumento della produttività (velocità di taglio superiori, maggiore durata dell'utensile, ecc.), una riduzione del costo per pezzo e la capacità di trattare materiali in precedenza non lavorabili con utensili convenzionali.

Kennametal è in prima linea nello sviluppo e nella realizzazione di materiali superduri in soluzioni di utensili standard e speciali per tutte le linee di prodotti. Il nostro approccio alla creazione di utensili superduri parte dalle necessità e dalle limitazioni dei clienti. Quindi, sviluppiamo le migliori soluzioni superdure, adattate alle necessità specifiche del cliente.

Il PcBN è termicamente stabile fino a circa 1200º C ed è altamente resistente agli attacchi chimici. Pertanto le temperature estreme, ad esempio durante la lavorazione di metalli ferrosi duri, non rappresentano un ostacolo e possono essere utilizzate per tagli a caldo per calore auto-indotto. Questo apporta vantaggi tecnici e produttivi, in particolare rispetto alla rettifica. Nella maggior parte dei casi le prestazioni sono notevolmente migliorate rispetto a quelle ottenute con i materiali da taglio convenzionali come il metallo duro e le ceramiche.

Tuttavia, vi sono alcune limitazioni nell'uso del PcBN per la lavorazione di acciai austenitici e ghise ferritiche, nelle quali può aumentare l'usura del tagliente PcBN.

Inserti PcBN

Qualità KBH10™

Volumi elevati

- Una nuova qualità brevettata a basso contenuto di PcBN per le operazioni di tornitura continua.
- Ottime prestazioni nella lavorazione di acciai temprati a basso contenuto di carbonio.
- Disponibile come inserti con scheggia saldobrasata PcBN.

Qualità KBH20™

Maggiore produttività e redditività

- Il substrato di nuovo sviluppo consente l'impiego in un'ampia serie di applicazioni esigenti.
- Il rivestimento nanocomposito migliora le velocità di taglio e la durata dell'utensile. Tecnologia di preparazione del tagliente ottimizzata per una maggiore durata dell'utensile, prestazioni affidabili, una migliore finitura superficiale e tolleranze più ridotte del pezzo.
- Ampia offerta standard.
- Rompitruciolo CB1 per geometria positiva e negativa, che risolve i problemi di rottura e di controllo dei trucioli.

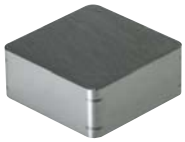
Qualità KB5630™

- Ideale per condizioni di taglio complesse e con forti interruzioni.
- Eccellente resistenza alle abrasioni.
- Il rivestimento in PVD fornisce una barriera termica che riduce l'usura per craterizzazione e proluga la durata dell'utensile.
- Eccellenti prestazioni nella lavorazione di acciai temprati e metalli sinterizzati.
- Disponibili inserti PcBN a superficie completa e a punta riportata.

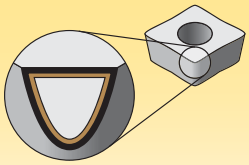
Inserti in ceramica

KY1615

Volumi più bassi e maggiori variazioni di processo



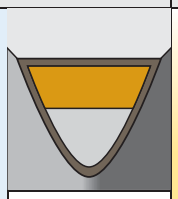
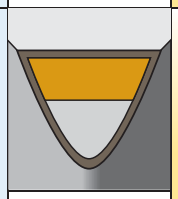
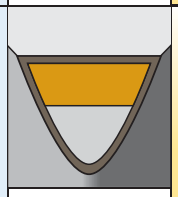
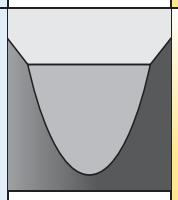
- Ceramica mista (nera).
- Eccellente resistenza all'usura combinata con buone caratteristiche di tenacità.
- Eccellenti prestazioni nella finitura e semifinitura di acciai temprati e materiali a base di ferro.



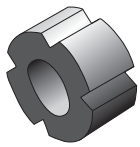
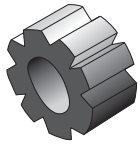
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ tenacità

	Rivestimento	Descrizione delle qualità	05	10	15	20	25	30	35	40	45
PcBN — Qualità in nitruro di boro cubico policristallino	KBH20  —	**Composizione:** Qualità a medio contenuto di PcBN con rivestimento PVD TiN/AlTiN per una maggiore resistenza all'usura. **Applicazione:** KBH20™ è la qualità di tornitura dura PcBN ideale per applicazioni di tagli continui e leggermente interrotti. La sua struttura e le diverse preparazioni dei taglienti consentono tolleranze ripetibili dei pezzi, ottime finiture superficiali e integrità superficiale. Le applicazioni tipiche riguardano i componenti in acciai cementati quali ingranaggi, alberi e altri componenti della trasmissione.	H								
	KBH10  —	**Composizione:** Qualità a basso contenuto di PcBN con struttura legante brevettata. **Applicazione:** Progettato per la lavorazione precisa di acciai temprati (> 45 HRC). Può essere applicato in modo efficace su acciai per cuscinetti,acciai a caldo o a freddo,ad alta velocità,acciai per stampi, acciai temprati, nitrurati ed acciai con rivestimenti duri. Disponibile in un formato multi tagliente con un ampia gamma di preparazione taglienti,stili e geometrie inserto.	H								
	KB5630  —	**Composizione:** Ad alto contenuto di PcBN con rivestimento PVD-AlTiN per una maggiore resistenza all'usura. **Applicazione**: Ideale per la sgrossatura e la finitura di acciai temprati (>45 HRC), materiali abrasivi quali materiali sinterizzati per sedi valvole, acciai sinterizzati e ghise dure alto legate. Il rivestimento in PVD offre resistenza all'usura per craterizzazione e una maggiore resistenza alle scheggiature. È disponibile un'ampia gamma di tipi, fra cui geometrie screw-on ideali per le applicazioni di barenatura.	K								
			S								
			H								
Qualità ceramiche	KY1615  —	**Composizione:** Qualità avanzata di ceramica nera in allumina/TiC. **Applicazione**: Ottima combinazione di tenacità e resistenza all'usura; per la lavorazione di acciai legati, acciai per utensili e acciai inossidabili fino a 60 HRC (653 HB). È applicata anche per la tornitura di finitura e la barenatura di ghise.	H								

Informazioni su test utensili

	Qualità	Affilato	Tagliente leggero metrico Pollici	Tagliente standard metrico Pollici	Tagliente robusto metrico Pollici
	KBH10*	E	10 15 04 15	12 25 05 25	personalizzato
	KBH20*	personalizzato	10 15 04 15	12 25 05 25	17 35 07 35
	KB5630***	personalizzato	personalizzato	10 25 04 25	17 35 07 35

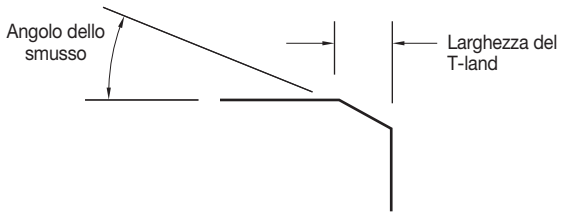
Usura per craterizzazione ✗
Frammento ✓
Rotture ✓
Stabilità ✓

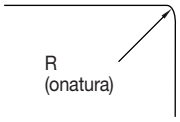
Usura per craterizzazione ✓
Frammento ✗
Rotture ✓
Stabilità ✗

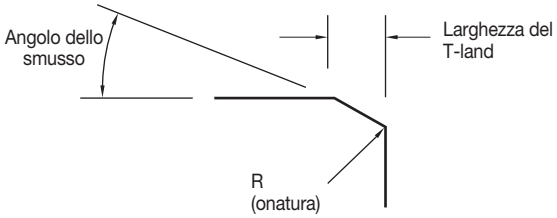
NOTA: Gli inserti KBH20™ con 1225 (.0525 pollici) sono gli inserti preferenziali per il test iniziale.
Per una regolazione precisa, utilizzare la stessa qualità con taglienti più affilati nei tagli leggeri oppure taglienti più robusti in caso di tagli interrotti e variabili.
Se KBH20 non dovesse dare risultati soddisfacenti, passare a una qualità–più resistente–all'usura o alla frattura.
* Tenacità inferiore
** Tenacità media
*** Tenacità superiore

E = Onatura
T = T-land con angolo
S = T-land con angolo e onatura

Esempio: S01015 è un T-land 100 µm a 15° con onatura.







Passo 1 • Scegliere la geometria dell'inserto

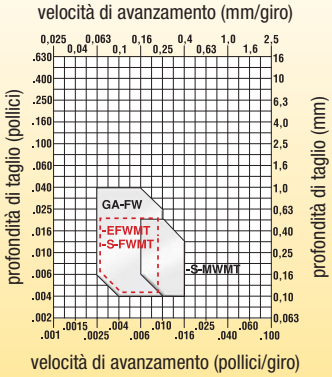
Inserti negativi con wiper

-S..MWMT (multitagliente) Wiper Medio

..MS (multitagliente) Wiper di Finitura

-S..FWMT (multitagliente)

Wiper finitura



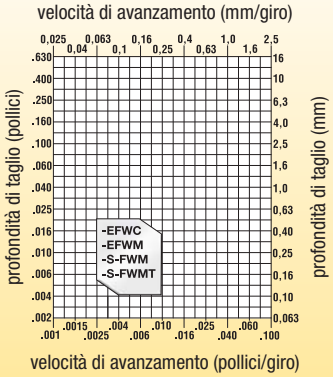
Inserti positivi con Wiper

-EFWC (a superficie completa)

-S..FWM (con riporto singolo)

-EFWM (con riporto singolo) Wiper di finitura

-S..FWMT (multitagliente) Wiper Finitura di precisione



Passo 2 • Scegliere la qualità

condizione di taglio	Geometria negativa dell'inserto -S..FWMT	Geometria negativa dell'inserto -EFWMT	Geometria positiva dell'inserto -S..FWMT	Geometria positiva dell'inserto -S..FWM -S..FWMT	Geometria positiva dell'inserto -EFWM -EFWC
taglio fortemente interrotto	KB5630	KB1625	–	–	–
taglio leggermente interrotto	KB5630/KBH20	KB5625	KBH20	KBH20	KBH20
profondità di taglio variabile, superfici di fusione o di forgiatura	KBH20	KB1610/KBH10	KBH20	KBH20	KBH20
taglio uniforme, superficie pre-tornita	KBH10	KBH10	KBH10	KBH10	KBH10

Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi con wiper

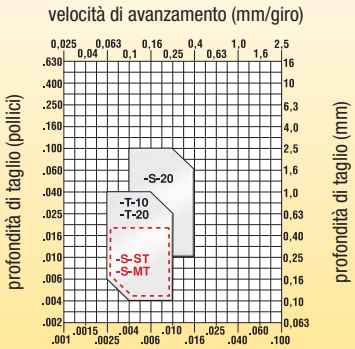
-S-20 Lavorazione media

-S..ST (con riporto singolo) -S..MT (a taglienti multipli) Finitura

-T..10 -T.20

-T..10 -T.20

Finitura di precisione



Inserti positivi con wiper

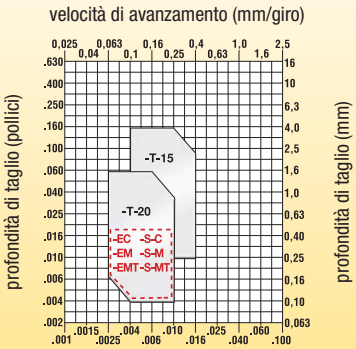
-T-15 Lavorazione media

-EC (a superficie completa) -EM (con riporto singolo) -EMT (a taglienti multipli) Finitura

-T-20

-S....C (a superficie completa) -S....M (monotagliente) -S....MT (multitagliente)

Finitura di precisione



Passo 2 • Scegliere la qualità

condizione di taglio	Geometria negativa dell'inserto -T.10 -T.20	Geometria positiva dell'inserto -T-15
taglio fortemente interrotto	–	–
taglio leggermente interrotto	–	KY1615
profondità di taglio variabile, superfici di fusione o di forgiatura	KY1615	KY1615
taglio uniforme, superficie pre-tornita	KY1615	KY1615

Passo 1 • Scegliere la velocità di taglio

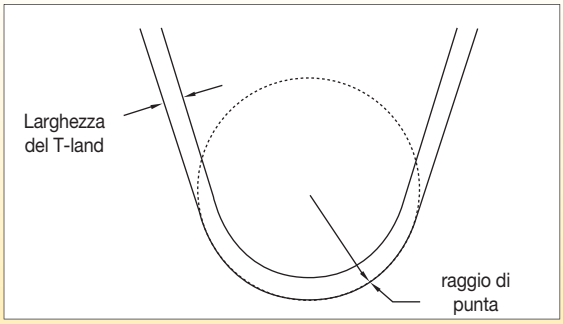
velocità — m/min (sfm) | Condizioni iniziali ◁▷

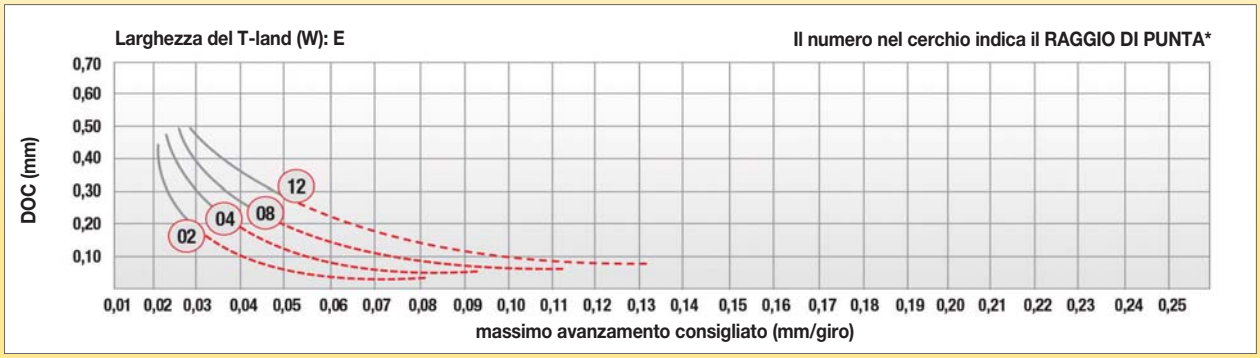
gruppo materiali	qualità	15 (50)	45 (150)	75 (250)	110 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	m/min	SFM
H1	KBH20					◁▷					155	510
	KB5610					◁▷					150	490
	KB5630				◁▷						105	345
	KY1615				◁▷						100	325

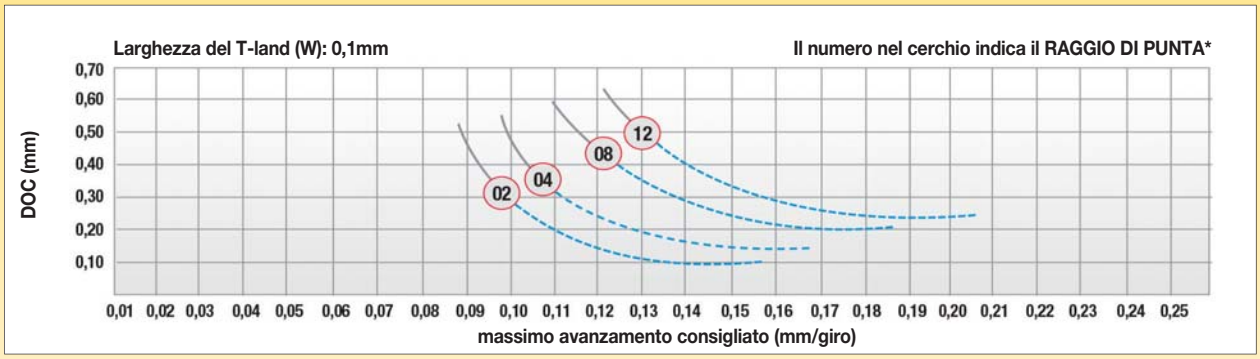
Larghezza del T-land

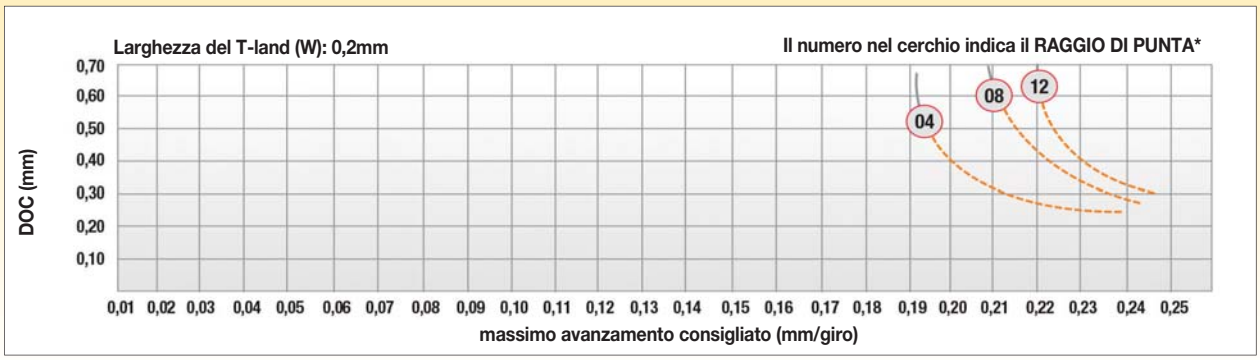
Esempio 1: Se l'avanzamento, la profondità di taglio e il raggio di punta dell'utensile sono fissi, utilizzare questi valori per determinare la larghezza del T-land da utilizzare.

Esempio 2: Se si desidera utilizzare una larghezza del T-land specifica o un tagliente con sola onatura, utilizzare il grafico di seguito per conoscere i valori massimi di avanzamento e profondità di taglio consigliati per i diversi raggi di punta.



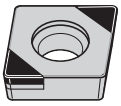


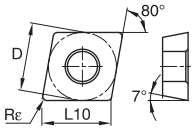




P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

● prima scelta
○ scelta alternativa

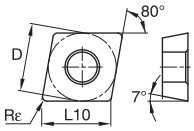




CCGM

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CCGM09T304S01325MTCB1	9,53	9,67	0,4	–	●	–	–
CCGM09T308S01325MTCB1	9,53	9,67	0,8	–	●	–	–

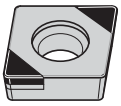
NOTA: Per gli utensili e i bareni vedere a pagg B179–B183.

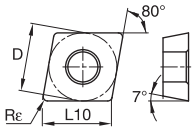


CCGW-C

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CCGW060202S01015C	6,35	6,45	0,2	–	–	●	–
CCGW060204S01015C	6,35	6,45	0,4	–	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B179–B183.

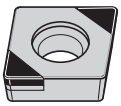


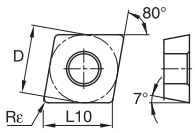


CCGW-FWMT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CCGW09T304S01015FWMT	9,53	9,67	0,4	–	●	–	–
CCGW09T308S01015FWMT	9,53	9,67	0,8	●	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B179–B183.



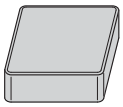


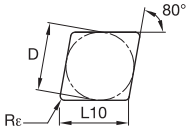
CCGW-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CCGW060202S01015MT	6,35	6,45	0,2	●	–	–	–
CCGW060202S01225MT	6,35	6,45	0,2	–	●	–	–
CCGW060204S01015MT	6,35	6,45	0,4	●	–	–	–
CCGW060204S01225MT	6,35	6,45	0,4	–	●	–	–
CCGW09T302S01015MT	9,53	9,67	0,2	●	–	–	–
CCGW09T302S01225MT	9,53	9,67	0,2	–	●	–	–
CCGW09T304S01015MT	9,53	9,67	0,4	●	●	●	–
CCGW09T304S01225MT	9,53	9,67	0,4	●	●	–	–
CCGW09T308S01015MT	9,53	9,67	0,8	●	●	●	–
CCGW09T308S01225MT	9,53	9,67	0,8	●	●	–	–
CCGW120408S01015MT	12,70	12,90	0,8	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B179–B183.

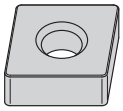
● prima scelta
○ scelta alternativa

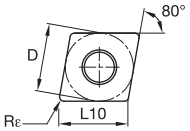




CNGN

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
				P			●
				M			
				K			●
				N			
				S			●
				H	●	●	●	●
CNGN120404T02020	12,70	12,90	0,4	–	–	–	●
CNGN120408T02020	12,70	12,90	0,8	–	–	–	●
CNGN120708T02020	12,70	12,90	0,8	–	–	–	●
CNGN120412T02020	12,70	12,90	1,2	–	–	–	●
CNGN120712T02020	12,70	12,90	1,2	–	–	–	●
CNGN120716T02020	12,70	12,90	1,6	–	–	–	●
CNGN160716T02020	15,88	16,12	1,6	–	–	–	●
CNGN160716T05015	15,88	16,12	1,6	–	–	–	●

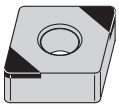


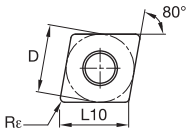


CNGA

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGA120404T02020	12,70	12,90	0,4	–	–	–	●
CNGA120408T00520	12,70	12,90	0,8	–	–	–	●
CNGA120408T02020	12,70	12,90	0,8	–	–	–	●
CNGA120412T02020	12,70	12,90	1,2	–	–	–	●
CNGA120416T02020	12,70	12,90	1,6	–	–	–	●
CNGA160612T02020	15,88	16,12	1,2	–	–	–	●
CNGA190612T02020	19,05	19,34	1,2	–	–	–	●
CNGA190616T02020	19,05	19,34	1,6	–	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.





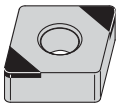
● prima scelta
○ scelta alternativa

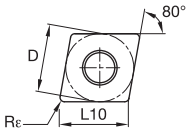
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

CNGA-FWMT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGA120404S01015FWMT	12,70	12,90	0,4	●	●	–	–
CNGA120404S01025FWMT	12,70	12,90	0,4	–	–	●	–
CNGA120408S01015FWMT	12,70	12,90	0,8	●	●	–	–
CNGA120408S01025FWMT	12,70	12,90	0,8	–	–	●	–
CNGA120408S01225FWMT	12,70	12,90	0,8	●	–	–	–
CNGA120412S01015FWMT	12,70	12,90	1,2	–	●	–	–
CNGA120412S01225FWMT	12,70	12,90	1,2	●	–	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.

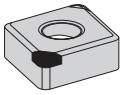


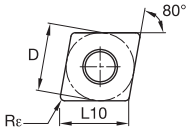


CNGA-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGA120404S01015MT	12,70	12,90	0,4	●	●	–	–
CNGA120404S01025MT	12,70	12,90	0,4	–	–	●	–
CNGA120404S01225MT	12,70	12,90	0,4	–	●	–	–
CNGA120404S01735MT	12,70	12,90	0,4	–	●	–	–
CNGA120408S01015MT	12,70	12,90	0,8	●	●	–	–
CNGA120408S01025MT	12,70	12,90	0,8	–	–	●	–
CNGA120408S01225MT	12,70	12,90	0,8	●	●	–	–
CNGA120408S01735MT	12,70	12,90	0,8	●	●	–	–
CNGA120412S01015MT	12,70	12,90	1,2	●	●	–	–
CNGA120412S01020MT	12,70	12,90	1,2	–	–	●	–
CNGA120412S01025MT	12,70	12,90	1,2	–	–	●	–
CNGA120412S01225MT	12,70	12,90	1,2	●	●	–	–
CNGA120412S01735MT	12,70	12,90	1,2	●	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.

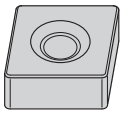


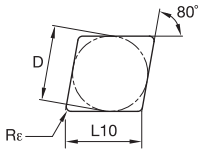


CNGM-CB1

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGM120404S01325MTCB1	12,70	12,90	0,4	–	●	–	–
CNGM120408S01325MTCB1	12,70	12,90	0,8	–	●	–	–
CNGM120412S01325MTCB1	12,70	12,90	1,2	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.





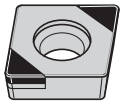
● prima scelta
○ scelta alternativa

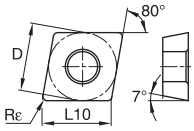
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

CNGX

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGX120708T02020	12,70	12,90	0,8	–	–	–	●
CNGX120712T02020	12,70	12,90	1,2	–	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.

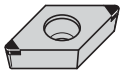


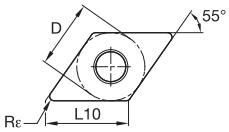


CPGW-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CPGW09T304S01015MT	9,53	9,67	0,4	–	–	●	–
CPGW09T308S01015MT	9,53	9,67	0,8	–	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B192–B205.

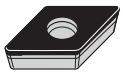


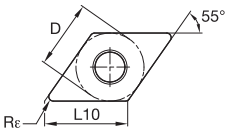


DCGM

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DCGM11T304S01325MTCB1	9,53	11,63	0,4	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B209–B213.





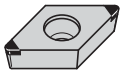
● prima scelta
○ scelta alternativa

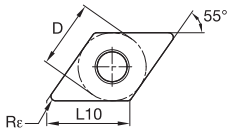
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

DCGW-C

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DCGW070202S01015C	6,35	7,75	0,2	–	–	●	–
DCGW070204S01015C	6,35	7,75	0,4	–	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B209–B213.

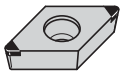


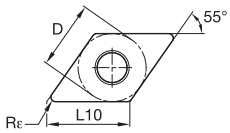


DCGW-FWMT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DCGW11T308S01015FWMT	9,53	11,63	0,4	●	●	–	–
DCGW11T308S01225FWMT	9,53	11,63	0,4	●	–	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B209–B213.

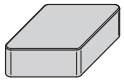


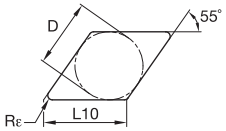


DCGW-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DCGW070202S01225MT	6,35	7,75	0,2	–	●	–	–
DCGW070204S01015MT	6,35	7,75	0,4	–	●	–	–
DCGW070204S01225MT	6,35	7,75	0,4	–	●	–	–
DCGW70202S01015MT	6,35	7,75	0,4	●	–	–	–
DCGW70204S01015MT	6,35	7,75	0,4	●	–	–	–
DCGW70204S01225MT	6,35	7,75	0,4	●	–	–	–
DCGW11T302S01015MT	9,53	11,63	0,2	●	–	–	–
DCGW11T302S01225MT	9,53	11,63	0,2	–	●	–	–
DCGW11T304S01225MT	9,53	11,63	0,4	●	●	–	–
DCGW11T304S01015MT	9,53	11,63	0,4	●	●	●	–
DCGW11T308S01015MT	9,53	11,63	0,8	●	●	●	–
DCGW11T308S01225MT	9,53	11,63	0,8	●	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B209–B213.



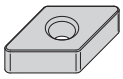


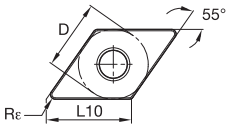
● prima scelta
○ scelta alternativa

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

DNGN/DNG

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGN150704T02020	12,70	15,50	0,4	–	–	–	●
DNGN150708T02020	12,70	15,50	0,8	–	–	–	●
DNGN150712T02020	12,70	15,50	1,2	–	–	–	●
DNGN150716T02020	12,70	15,50	1,6	–	–	–	●

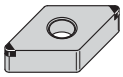


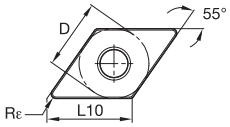


DNGA

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGA150404T02020	12,70	15,50	0,4	–	–	–	●
DNGA150604T02020	12,70	15,50	0,4	–	–	–	●
DNGA150408T02020	12,70	15,50	0,8	–	–	–	●
DNGA150608T02020	12,70	15,50	0,8	–	–	–	●
DNGA150412T02020	12,70	15,50	1,2	–	–	–	●
DNGA150612T02020	12,70	15,50	1,2	–	–	–	●
DNGA150416T02020	12,70	15,50	1,6	–	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.

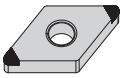


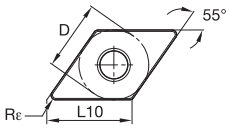


DNGA-FWMT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGA150408S01015FWMT	12,70	15,50	0,4	●	●	–	–
DNGA150408S01225FWMT	12,70	15,50	0,4	●	–	–	–
DNGA150412S01015FWMT	12,70	15,50	0,8	–	●	–	–
DNGA150412S01225FWMT	12,70	15,50	0,8	●	–	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.





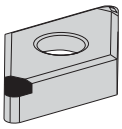
● prima scelta
○ scelta alternativa

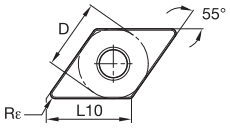
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

DNGA-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGA150404S01015MT	12,70	15,50	0,4	●	●	–	–
DNGA150404S01025MT	12,70	15,50	0,4	–	–	●	–
DNGA150404S01225MT	12,70	15,50	0,4	–	●	–	–
DNGA150404S01735MT	12,70	15,50	0,4	–	●	–	–
DNGA150604S01015MT	12,70	15,50	0,4	●	●	–	–
DNGA150604S01225MT	12,70	15,50	0,4	–	●	–	–
DNGA150604S01735MT	12,70	15,50	0,4	–	●	–	–
DNGA150408S01735MT	12,70	15,50	0,8	●	●	–	–
DNGA150408S01015MT	12,70	15,50	0,8	●	●	–	–
DNGA150408S01025MT	12,70	15,50	0,8	–	–	●	–
DNGA150408S01225MT	12,70	15,50	0,8	●	●	–	–
DNGA150608S01015MT	12,70	15,50	0,8	●	●	–	–
DNGA150608S01225MT	12,70	15,50	0,8	●	●	–	–
DNGA150608S01735MT	12,70	15,50	0,8	–	●	–	–
DNGA150412S01015MT	12,70	15,50	1,2	●	●	–	–
DNGA150412S01225MT	12,70	15,50	1,2	●	●	–	–
DNGA150412S01735MT	12,70	15,50	1,2	●	●	–	–
DNGA150612S01015MT	12,70	15,50	1,2	●	●	–	–
DNGA150612S01225MT	12,70	15,50	1,2	●	●	–	–
DNGA150612S01735MT	12,70	15,50	1,2	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.





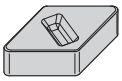
DNGM-CB1

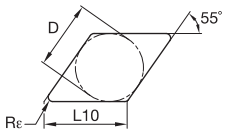
codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGM150408S01325MTCB1	12,70	15,50	0,8	–	●	–	–
DNGM150412S01325MTCB1	12,70	15,50	1,2	–	●	–	–
DNGM150608S01325MTCB1	12,70	15,50	0,8	–	●	–	–
DNGM150612S01325MTCB1	12,70	15,50	1,2	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

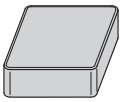
● prima scelta
○ scelta alternativa

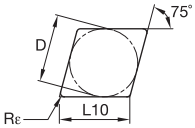




DNGX

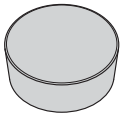
codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGX150708T02020	12,70	15,50	0,8	–	–	–	●

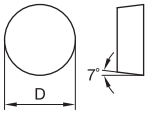




ENGN

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
ENGN130704T02020	12,70	13,15	0,4	–	–	–	●
ENGN130708T02020	12,70	13,15	0,8	–	–	–	●
ENGN130712T02020	12,70	13,15	1,2	–	–	–	●
ENGN130716T02020	12,70	13,15	1,6	–	–	–	●



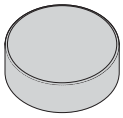
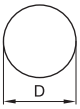


RCGX

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RCGX090700T01020	9,53	–	–	–	–	–	●
RCGX090700T02020	9,53	–	–	–	–	–	●
RCGX090700T10015	9,53	–	–	–	–	–	●
RCGX090700T20015	9,53	–	–	–	–	–	●
RCGX120700T02020	12,70	–	–	–	–	–	●
RCGX120700T10015	12,70	–	–	–	–	–	●
RCGX120700T20015	12,70	–	–	–	–	–	●
RCGX151000T20015	15,88	–	–	–	–	–	●
RCGX191000T20015	19,05	–	–	–	–	–	●
RCGX251200T20015	25,40	–	–	–	–	–	●

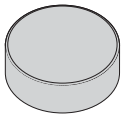
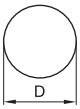
● prima scelta
○ scelta alternativa

	KBH10	KBH20	KB5630	KY1615
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

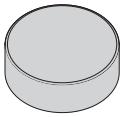
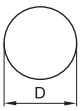
RCGW-T

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RCGW1204M0T01020	12,00	—	—	–	–	–	●

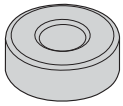
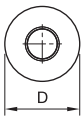
RCGX

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RCGX0907-001	9,53	—	—	–	–	–	●

RNGN

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RNGN090300T02020	9,53	—	—	–	–	–	●
RNGN090400T02020	9,53	—	—	–	–	–	●
RNGN120300T02020	12,70	—	—	–	–	–	●
RNGN120400T02020	12,70	—	—	–	–	–	●
RNGN120700T02020	12,70	—	—	–	–	–	●
RNGN120700T10015	12,70	—	—	–	–	–	●
RNGN120700T20015	12,70	—	—	–	–	–	●
RNGN190700T02020	19,05	—	—	–	–	–	●

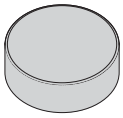
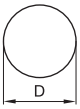
RNGA

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RNGA090300T02020	9,53	—	—	–	–	–	●
RNGA120400T02020	12,70	—	—	–	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B95.

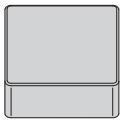
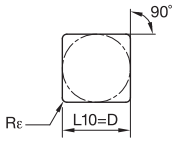
● prima scelta
○ scelta alternativa

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

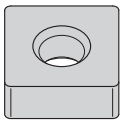
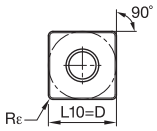
RNGN-C

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RNGN090300S02015C	9,53	—	—	–	–	●	–

SNGN

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SNGN090308T02020	9,53	9,53	0,8	–	–	–	●
SNGN120704T02020	12,70	12,70	0,4	–	–	–	●
SNGN120408T00520	12,70	12,70	0,8	–	–	–	●
SNGN120408T02020	12,70	12,70	0,8	–	–	–	●
SNGN120708T02020	12,70	12,70	0,8	–	–	–	●
SNGN120412T02020	12,70	12,70	1,2	–	–	–	●
SNGN120712T02020	12,70	12,70	1,2	–	–	–	●
SNGN120416T02020	12,70	12,70	1,6	–	–	–	●
SNGN120716T02020	12,70	12,70	1,6	–	–	–	●
SNGN120720T02020	12,70	12,70	2,0	–	–	–	●
SNGN120720T10015	12,70	12,70	2,0	–	–	–	●
SNGN120720T20015	12,70	12,70	2,0	–	–	–	●
SNGN150716T02020	15,88	15,88	1,6	–	–	–	●

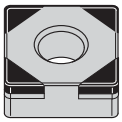
SNGA

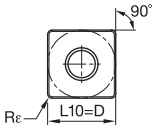
codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SNGA120408T02020	12,70	12,70	0,8	–	–	–	●
SNGA120412T02020	12,70	12,70	1,2	–	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B105–B121.

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

● prima scelta
○ scelta alternativa

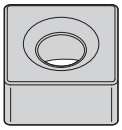


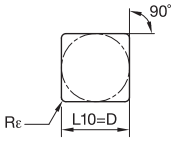


SNGA-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SNGA120408S01015MT	12,70	12,70	0,8	●	–	–	–
SNGA120408S01225MT	12,70	12,70	0,8	●	●	–	–
SNGA120412S01225MT	12,70	12,70	1,2	●	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B105–B121.

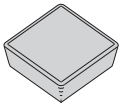


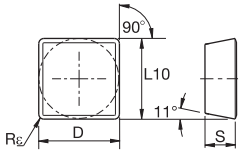


SNGX

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SNGX120712T02020	12,70	12,70	1,2	–	–	–	●

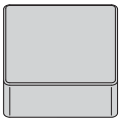
NOTA: Per gli utensili e i bareni vedere a pagg B105–B121.

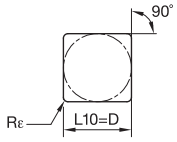




SPG-T

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SPGN090308T01020	9,53	9,53	0,8	–	–	–	●
SPGN120308T01020	12,70	12,70	0,8	–	–	–	●



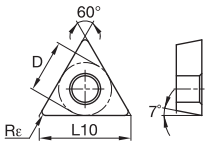


SPU-T

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SPUN120308T00520	12,70	12,70	0,8	–	–	–	●

	KBH10	KBH20	KB5630	KY1615
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

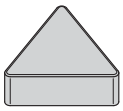
● prima scelta
○ scelta alternativa

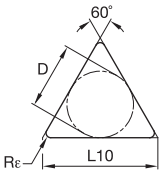


TCGW-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TCGW090202S01015MT	5,56	9,62	0,2	–	●	–	–
TCGW090204S01015 MT	5,56	9,62	0,4	–	●	–	–
TCGW110202S01015MT	6,35	11,00	0,2	●	●	–	–
TCGW110204S01015MT	6,35	11,00	0,4	●	●	–	–
TCGW110204S01225MT	6,35	11,00	0,4	●	–	–	–
TCGW110208S01015MT	6,35	11,00	0,8	●	●	–	–
TCGW110208S01225MT	6,35	11,00	0,8	●	–	–	–

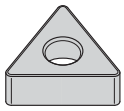
NOTA: Per gli utensili e i bareni vedere a pagg B247–B248.

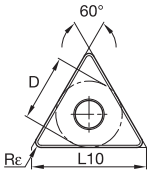




TNGN

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TNGN110308T02020	6,35	11,00	0,8	–	–	–	●
TNGN160404T02020	9,53	16,50	0,4	–	–	–	●
TNGN160408T02020	9,53	16,50	0,8	–	–	–	●
TNGN160708T02020	9,53	16,50	0,8	–	–	–	●
TNGN160412T02020	9,53	16,50	1,2	–	–	–	●
TNGN160712T02020	9,53	16,50	1,2	–	–	–	●
TNGN160416T02020	9,53	16,50	1,6	–	–	–	●
TNGN220408T02020	12,70	22,00	0,8	–	–	–	●

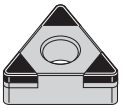


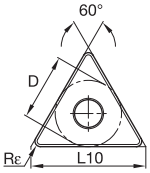


TNGA

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TNGA160408T02020	9,53	16,50	0,8	–	–	–	●
TNGA160412T02020	9,53	16,50	1,2	–	–	–	●
TNGA220408T02020	12,70	22,00	0,8	–	–	–	●
TNGA220412T02020	12,70	22,00	1,2	–	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B132–B142.





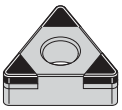
● prima scelta
○ scelta alternativa

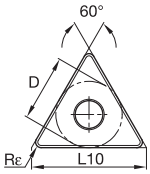
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

TNGA-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TNGA160404S01015MT	9,53	16,50	0,4	●	●	–	–
TNGA160404S01225MT	9,53	16,50	0,4	–	●	–	–
TNGA160404S01735MT	9,53	16,50	0,4	–	●	–	–
TNGA160408S01015MT	9,53	16,50	0,8	●	●	–	–
TNGA160408S01225MT	9,53	16,50	0,8	●	●	–	–
TNGA160408S01735MT	9,53	16,50	0,8	●	●	–	–
TNGA160412S01015MT	9,53	16,50	1,2	●	●	–	–
TNGA160412S01225MT	9,53	16,50	1,2	●	●	–	–
TNGA160412S01735MT	9,53	16,50	1,2	●	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B132–B142.

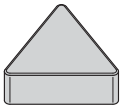


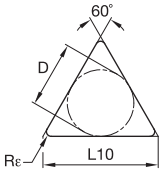


TNGM • Lavorazione media

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TNGM160408S01325MTCB1	9,53	16,50	0,8	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B132–B142.



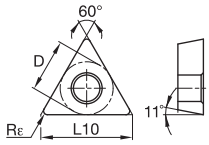


TPGN

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TPGN110304T01020	6,35	11,00	0,4	–	–	–	●
TPGN110308T01020	6,35	11,00	0,8	–	–	–	●
TPGN110312T01020	6,35	11,00	1,2	–	–	–	●
TPGN160304T00520	9,53	16,50	0,4	–	–	–	●
TPGN160304T01020	9,53	16,50	0,4	–	–	–	●
TPGN160308T00520	9,53	16,50	0,8	–	–	–	●
TPGN160308T01020	9,53	16,50	0,8	–	–	–	●
TPGN160312T01020	9,53	16,50	1,2	–	–	–	●

● prima scelta
○ scelta alternativa

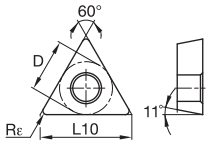
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●



TPGW-C

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TPGW110208S01015C	6,35	11,00	0,8	–	–	●	–

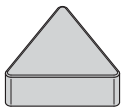
NOTA: Per gli utensili e i bareni vedere a pagg B257–B263.

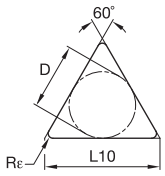


TPGW-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TPGW110308S01225MT	6,35	10,96	0,8	●	–	–	–
TPGW110202S01015MT	6,35	11,00	0,2	–	●	–	–
TPGW110304S01015MT	6,35	11,00	0,4	●	–	–	–
TPGW110304S01225MT	6,35	11,00	0,4	●	–	–	–
TPGW110204S01015MT	6,35	11,00	0,4	–	●	–	–
TPGW110208S01015MT	6,35	11,00	0,8	–	●	–	–
TPGW160404S01015MT	9,53	16,50	0,4	●	–	–	–
TPGW160404S01225MT	9,53	16,50	0,4	●	–	–	–
TPGW16T304S01015MT	9,53	16,50	0,4	–	●	–	–
TPGW160408S01015MT	9,53	16,50	0,8	●	–	–	–
TPGW160408S01225MT	9,53	16,50	0,8	●	–	–	–
TPGW16T308S01015MT	9,53	16,50	0,8	–	●	–	–
TPGW16T308S01225MT	9,53	16,50	0,8	–	●	–	–

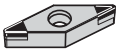
NOTA: Per gli utensili e i bareni vedere a pagg B257–B263.

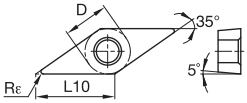




TPU-T

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TPUN110304T00520	6,35	11,00	0,4	–	–	–	●
TPUN110308T00520	6,35	11,00	0,8	–	–	–	●
TPUN160304T00520	9,53	16,50	0,4	–	–	–	●
TPUN160308T00520	9,53	16,50	0,8	–	–	–	●
TPUN160312T00520	9,53	16,50	1,2	–	–	–	●





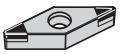
● prima scelta
○ scelta alternativa

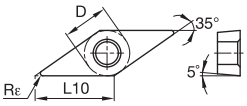
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

VBGW-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VBGW110304S01015MT	6,35	11,07	0,4	●	●	–	–
VBGW110304S01225MT	6,35	11,07	0,4	–	●	–	–
VBGW110308S01015MT	6,35	11,07	0,8	●	–	–	–
VBGW110308S01225MT	6,35	11,07	0,8	–	●	–	–
VBGW160404S01015MT	9,53	16,61	0,4	●	–	●	–
VBGW160408S01015MT	9,53	16,61	0,8	●	●	●	–
VBGW160412S01015MT	9,53	16,61	1,2	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B266–B269.

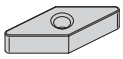


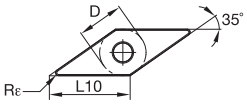


VCGW • Lavorazione leggera

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VCGW160404S01015MT	9,53	16,61	0,4	–	●	–	–
VCGW160404S01225MT	9,53	16,61	0,4	–	●	–	–
VCGW160408S01015MT	9,53	16,61	0,8	–	●	–	–
VCGW160408S01225MT	9,53	16,61	0,8	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B266–B269.

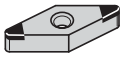


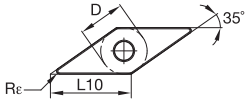


VNGA

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VNGA160404T02020	9,53	16,61	0,4	–	–	–	●
VNGA160408T02020	9,53	16,61	0,8	–	–	–	●
VNGA160412T02020	9,53	16,61	1,2	–	–	–	●
VNGA220408T02020	12,70	22,14	0,8	–	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B149–B153.





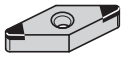
● prima scelta
○ scelta alternativa

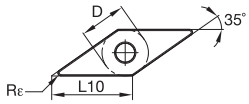
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

VNGA-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VNGA160404S01015MT	9,53	16,61	0,4	●	●	–	–
VNGA160404S01025MT	9,53	16,61	0,4	–	–	●	–
VNGA160404S01225MT	9,53	16,61	0,4	●	●	–	–
VNGA160404S01735MT	9,53	16,61	0,4	–	●	–	–
VNGA160408S01015MT	9,53	16,61	0,8	●	●	–	–
VNGA160408S01025MT	9,53	16,61	0,8	–	–	●	–
VNGA160408S01225MT	9,53	16,61	0,8	●	●	–	–
VNGA160408S01735MT	9,53	16,61	0,8	–	●	–	–
VNGA160412S01225MT	9,53	16,61	1,2	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B149–B153.

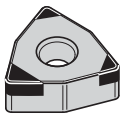


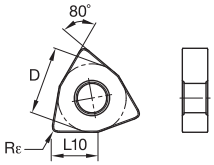


VNGM

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VNGM160408S01325MTCB1	9,53	16,61	0,8	–	●	–	–
VNGM160412S01325MTCB1	9,53	16,61	1,2	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B149–B153.

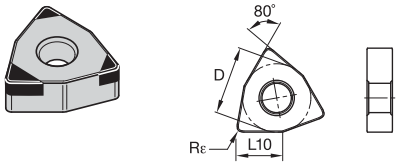




WNGA

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
WNGA080408S01015FWMT	12,70	8,69	0,8	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B161–B165.



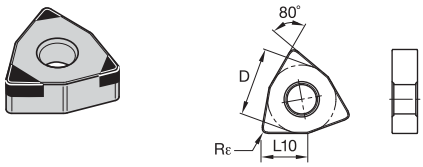
● prima scelta
○ scelta alternativa

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

WNGA-FWMT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
WNGA080408S01015FWHBMT	12,70	8,69	0,8	–	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B161–B165.



WNGA-MT

codice catalogo ISO	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
WNGA080404S01015MT	12,70	8,69	0,4	–	●	–	–
WNGA080408S01015MT	12,70	8,69	0,8	–	●	–	–
WNGA080408S01225MT	12,70	8,69	0,8	–	●	–	–
WNGA080408S01735MT	12,70	8,69	0,8	–	●	–	–
WNGA80408S01015MT	12,70	8,69	0,8	●	–	–	–
WNGA80408S01225MT	12,70	8,69	0,8	●	–	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B161–B165.

Utensili A4™ e inserti Beyond™

Gli inserti A4 consentono lavorazioni di tornitura, spianatura, scanalatura, scanalatura frontale e troncatura per una vasta gamma di materiali da lavorare. Il sistema di bloccaggio unico e la versatilità delle geometrie inserto permettono un alto tasso di rimozione di truciolo.

CARATTERISTICHE E VANTAGGI

Scanalatura A4 e sistema di tornitura

- Si tratta di un utensile per lavorazioni di tornitura, spianatura, scanalatura, scanalatura frontale e troncatura, per applicazioni interne ed esterne; tutto questo si traduce in tempi ciclo eccezionalmente veloci, senza indexaggio della torretta!
- L'area di bloccaggio estremamente lunga, la sede inferiore prismatica a 120° rettificata e l'esclusiva guida superiore si combinano per offrire una stabilità senza confronti nelle operazioni di scanalatura e tornitura laterale!
- L'accurato posizionamento dell'inserto garantisce tagli della massima precisione!
- Il bloccaggio rigido blocca saldamente l'inserto per facilitare i tagli più difficili.
- Il design versatile consente a un singolo sistema di gestire le operazioni di scanalatura sia del diametro interno che di quello esterno, di scanalatura frontale, di tornitura posteriore, di sottotaglio e persino quelle di filettatura.
- Gli inserti consentono un'eccellente evacuazione del truciolo nella scanalatura ed offrono un migliore controllo nella tornitura multidirezionale.

Scoprite i vantaggi presso il partner di distribuzione autorizzato Kennametal o visitate il sito **kennametal.com**.

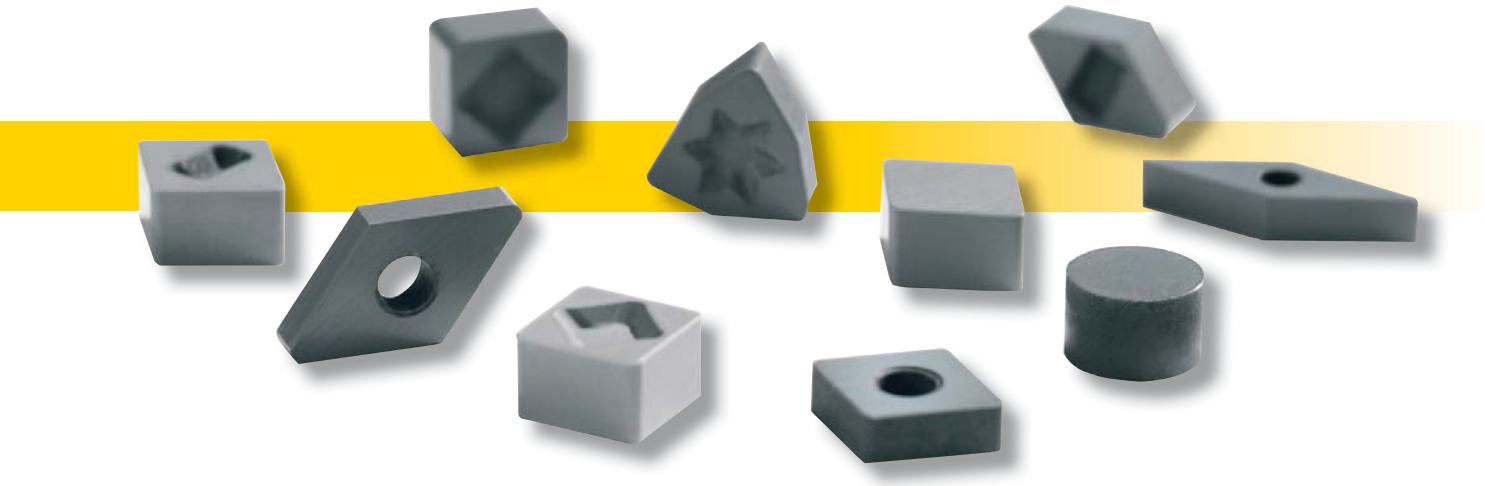
KENNAMETAL®

kennametal.com

Lavorazione di leghe resistenti al calore con ceramiche e PcBN

I materiali avanzati di Kennametal, che impiegano la tecnologia Beyond™, assicurano resistenza all'usura e tenacità maggiori, a seconda dell'applicazione.

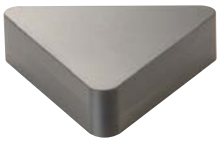
Gli inserti in ceramica KYS sono la prima scelta per le applicazioni ad alta velocità su leghe resistenti al calore. Il rivestimento multistrato offre una resistenza all'usura chimica migliorata rispetto alle qualità non rivestite. Un substrato ceramico superiore in SiAlON fornisce un'eccellente resistenza all'usura ad intaglio rispetto ai prodotti ceramici rinforzati whisker.



Inserti in ceramica

KYS25™

- Finitura superficiale eccellente, forze di taglio ridotte e velocità più alte.
- L'avanzato rivestimento CVD fornisce un'eccellente resistenza chimica e all'usura ad intaglio.



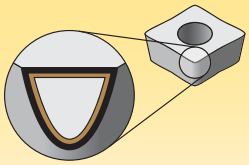
KYS30™

- Durata dell'utensile lunga e costante.
- Eccellente tenacità e resistenza all'usura ad intaglio.
- Per una vasta gamma di condizioni di lavorazione, compresi tagli interrotti e lavorazioni su croste.

Inserti PcBN con riporto

KB1630

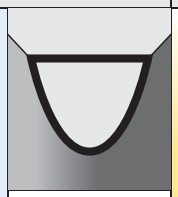
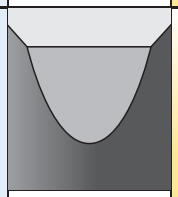
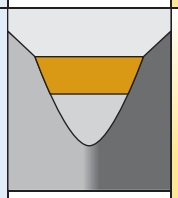
- Durata dell'utensile lunga e costante.
- Eccellente tenacità e resistenza all'usura ad intaglio.
- Per una vasta gamma di condizioni di lavorazione, compresi tagli interrotti e lavorazioni su croste.



I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ **tenacità**

	Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
Qualità ceramiche	KYS25		**Composizione:** Ceramica SiAlON con rivestimento CVD multistrato TiCN Al_2O_3. **Applicazione:** Completa la qualità KYS30™ nella lavorazione di leghe resistenti al calore e a base di nichel e di materiali in ghisa con alta durezza Brinell. Questo avanzato rivestimento CVD fornisce un'eccellente resistenza chimica e all'usura ad intaglio rispetto alle ceramiche whisker.	S									
				H									
	KYS30		**Composizione:** Ultimo e più avanzato materiale SiAlON mai sviluppato. **Applicazione:** Combina proprietà antiusura eccellenti, tenacità alla frattura e resistenza allo shock termico per lavorazioni generali di finitura di leghe resistenti al calore. Offre una maggiore resistenza all'usura ad intaglio rispetto alle ceramiche whisker.	S									
PcBN – Qualità in nitruro di boro cubico policristallino	KB1630		**Composizione:** Una qualità PcBN ad alto contenuto non rivestita. Le punte PcBN sono brasate su un inserto in metallo duro. **Applicazione:** Progettata per sgrossatura e finitura in tagli interrotti di acciai temprati (>45 HRC). Può essere inoltre applicata su ghise grigie, ghise temprate, acciai legati ad alto contenuto di cromo, leghe resistenti al calore e metalli sinterizzati. Gli inserti PcBN con riporto sono disponibili in un'ampia gamma di tipi di inserti, comprese le geometrie Top Notch™ e screw-on.	K									
				S									
				H									

NOVO SA COME FARE: RICERCA

La ricerca di un utensile è stata migliorata dalle funzioni Consiglio e Selezione nell'applicazione NOVO™ — per risparmiare tempo e denaro.

CONSIGLIARE

Utilizza un approccio basato su regole per fornire consigli sull'utensile da taglio:

- Definire le caratteristiche di lavorazione (spianatura, scanalatura, lavorazione di fori ciechi, ecc.)
- Applicare le limitazioni richieste (limitazioni geometriche, di materiale, di tolleranza, ecc.)
- Impostare la sequenza di lavorazione (operazione singola o multistep, prima sgrossatura quindi finitura, ecc.)
- Ricevere risultati catalogati

SELEZIONARE

Un metodo per selezionare gli utensili da taglio da una struttura ramificata utilizzando una ricerca gerarchica o parametrica:

- Se si conosce quale prodotto si sta cercando, è possibile effettuare una ricerca rapida utilizzando il codice catalogo o la descrizione del prodotto.
- L'applicazione di filtri intelligenti riduce significativamente la quantità di soluzioni di utensili potenzialmente disponibili.
- Dopo aver scelto l'utensile, NOVO fornisce anche le opzioni di taglio e di adattamento specifiche per ogni soluzione.

L'applicazione NOVO garantisce di avere gli utensili giusti per ogni macchina, nella sequenza giusta. Questo permette un'esecuzione impeccabile che velocizza ogni lavoro e massimizza ogni turno. **kennametal.com/novo**

Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi

-RP
Sgrossatura

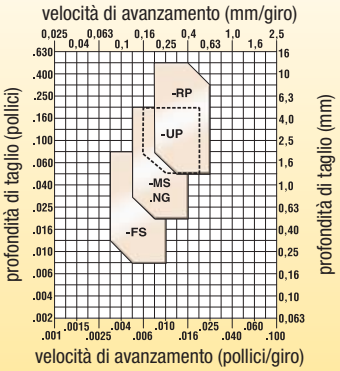
-MS
Lavorazione media

.NG

-UP

Lavorazione media

-FS
Finitura



Inserti positivi

MT-LF

R.GV-T

Lavorazione media

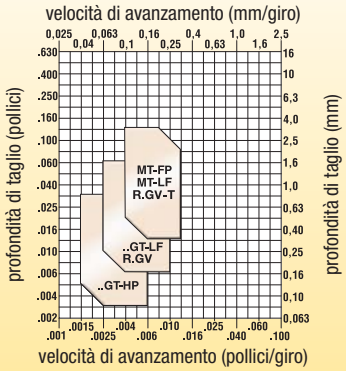
MT-FP
Lavorazione media

..GT-LF
Finitura di precisione

R.GV

..GT-HP

Finitura di precisione



Passo 2 • Scegliere la qualità

condizione di taglio		Geometria negativa dell'inserto .NG
taglio fortemente interrotto		–
taglio leggermente interrotto		KYS30/KY1540
profondità di taglio variabile, superfici di fusione o di forgiatura		KYS30/KY1540/KYS25/KY4300
taglio uniforme, superficie pre-tornita		KYS25/KY4300

condizione di taglio		Geometria positiva dell'inserto R.GV-T
taglio fortemente interrotto		–
taglio leggermente interrotto		KYS30/KY1540
profondità di taglio variabile, superfici di fusione o di forgiatura		KYS30/KY1540/KYS25/KY4300
taglio uniforme, superficie pre-tornita		KYS25/KY4300

Passo 3 • Scegliere la velocità di taglio

Leghe a base di ferro resistenti al calore (135–320 HB) (≤34 HRC) — velocità — m/min (sfm) — Condizioni iniziali ◁▷

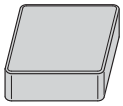
gruppo materiali	qualità	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S1	KB1630									◁▷					30	100
	KYS25/KY4300								◁▷						200	650
	KYS30/KY1540							◁▷							170	550

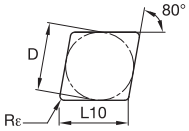
Leghe a base di cobalto resistenti al calore (150–425 HB) (≤45 HRC) — velocità — m/min (sfm) — Condizioni iniziali ◁▷

gruppo materiali	qualità	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S2	KB1630									◁▷					35	110
	KYS25/KY4300								◁▷						220	720
	KYS30/KY1540							◁▷							185	600

Leghe a base di nichel resistenti al calore (140–475 HB) (≤48 HRC) — velocità — m/min (sfm) — Condizioni iniziali ◁▷

gruppo materiali	qualità	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S3	KB1630									◁▷					40	125
	KYS25/KY4300								◁▷						250	820
	KYS30/KY1540							◁▷							215	700



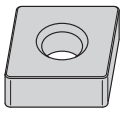


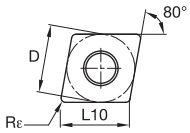
● prima scelta
○ scelta alternativa

P			
M			
K			
N			
S	●	●	○
H	○		●

CNGN

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
CNGN120416T01020	12,70	12,90	1,6	●	–	–
CNGN120712T01020	12,70	12,90	1,2	●	●	–
CNGN120716T01020	12,70	12,90	1,6	–	●	–

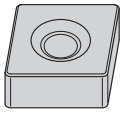


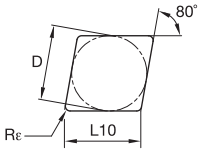


CNGA

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
CNGA120408E	12,70	12,90	0,8	●	●	–
CNGA120408T01020	12,70	12,90	0,8	●	●	–
CNGA120412T01020	12,70	12,90	1,2	●	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.



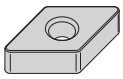
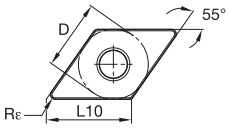


CNGX

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
CNGX120708T01020	12,70	12,90	0,8	●	●	–
CNGX120712T01020	12,70	12,90	1,2	●	●	–
CNGX120716E	12,70	12,90	1,6	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.

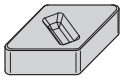
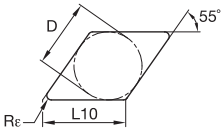
● prima scelta
○ scelta alternativa

DNGA

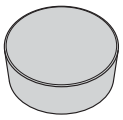
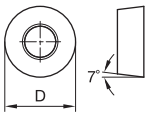
codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
DNGA150408T01020	12,70	15,50	0,8	–	●	–
DNGA150412T01020	12,70	15,50	1,2	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.

DNGX

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
DNGX150708T01020	12,70	15,50	0,8	●	–	–
DNGX150712T01020	12,70	15,50	1,2	●	●	–
DNGX150716T01020	12,70	15,50	1,6	–	●	–

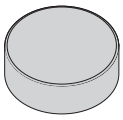
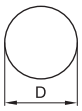



RCGX

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
RCGX060400E	6,35	–	–	●	●	–
RCGX090700E	9,53	–	–	●	●	–
RCGX090700T00525	9,53	–	–	–	●	–
RCGX090700T01020	9,53	–	–	●	●	–
RCGX120700E	12,70	–	–	●	●	–
RCGX120700T01020	12,70	–	–	●	●	–
RCGX120700T01025	12,70	–	–	●	●	–

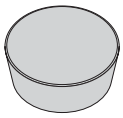
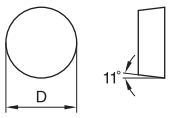
● prima scelta
○ scelta alternativa

	KYS25	KYS30	KB1630
P			
M			
K			
N			
S	●	●	○
H	○		●

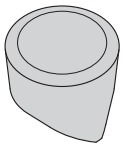
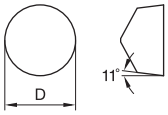
RNGN

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
RNGN120400T01020	12,70	–	–	–	●	–
RNGN120700T00525	12,70	–	–	–	●	–
RNGN120700T01020	12,70	–	–	–	●	–
RNGN120700T01025	12,70	–	–	●	●	–
RNGN190700T01020	19,05	–	–	–	●	–

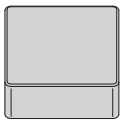
RPGN

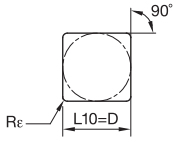
codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
RPGN060200E	6,35	–	–	–	●	–
RPGN090300E	9,53	–	–	–	●	–
RPGN090300T01020	9,53	–	–	–	●	–
RPGN120400E	12,70	–	–	–	●	–
RPGN120400T01020	12,70	–	–	–	●	–

RPGX

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
RPGX090700E	9,53	–	–	●	●	–
RPGX090700T01020	9,53	–	–	–	●	–
RPGX120700E	12,70	–	–	●	●	–
RPGX120700T01020	12,70	–	–	–	●	–



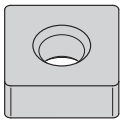


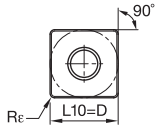
● prima scelta
○ scelta alternativa

P			
M			
K			
N			
S	●	●	○
H	○		●

SNGN

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
SNGN120408T01020	12,70	12,70	0,8	–	●	–
SNGN120412T01020	12,70	12,70	1,2	–	●	–
SNGN120416T01020	12,70	12,70	1,6	●	●	–
SNGN120716T01020	12,70	12,70	1,6	–	●	–
SNGN190616E	19,05	19,05	1,6	●	–	–
SNGN190616T01020	19,05	19,05	1,6	–	●	–
SNGN190724E	19,05	19,05	2,4	–	●	–

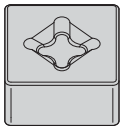


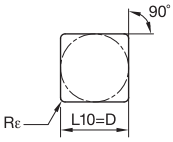


SNGA

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
SNGA120412T01020	12,70	12,70	1,2	●	●	–

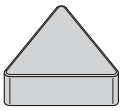
NOTA: Per gli utensili e i bareni vedere a pagg B105–B121.

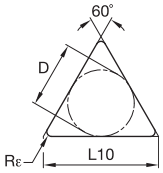




SNGX

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
SNGX120712T01020	12,70	12,70	1,2	–	●	–
SNGX120716T01020	12,70	12,70	1,6	–	●	–



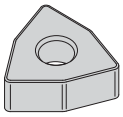


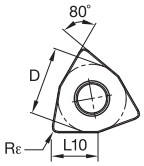
● prima scelta
○ scelta alternativa

P			
M			
K			
N			
S	●	●	○
H	○		●

TNGN

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
TNGN220412T01020	12,70	22,00	1,2	●	–	–
TNGN220416T01020	12,70	22,00	1,6	●	–	–

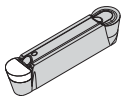


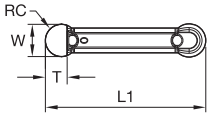


WNGA

codice catalogo ISO	D	L10	Rε	KYS25	KYS30	KB1630
WNGA080408T01020	12,70	8,69	0,8	–	●	–
WNGA080416T01020	12,70	8,69	1,6	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B161–B165.





● prima scelta
○ scelta alternativa

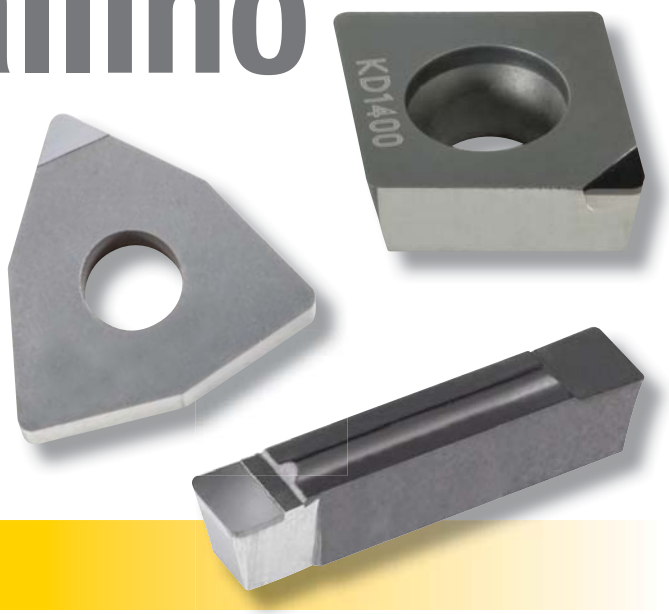
	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

Spoglia superiore piana; Raggio completo; Rettifica di precisione • PcBN

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00EST	3	3,00	1,5	20	2,2	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0400M04P00EST	4	4,00	2,0	20	2,9	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0500M05P00EST	5	5,00	2,5	25	3,7	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0600M06P00EST	6	6,00	3,0	30	4,4	–	–	–	–	–	–	–	–	–	–	●	–	–

NOTA: Per gli utensili A4, i bareni e le lame, vedere a pagg C104–C135.

Inserti in diamante policristallino



Inserti in diamante policristallino (PCD)

- Per la lavorazione di leghe resistenti al calore e in determinate lavorazioni di materiali non ferrosi.
- Durezza notevolmente maggiore rispetto agli inserti in metallo duro.
- Maggiore produttività grazie a velocità di rotazione superiori e maggiore durata dell'utensile.
- Ideale per la lavorazione di materiali non lavorabili con utensili standard.

Qualità KD1400™

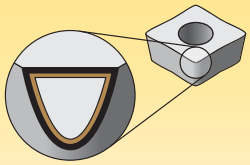
- Ideale per la tornitura generale di materiali non ferrosi.
- Da usare su leghe di alluminio a contenuto medio-basso di silicio, non metalli, leghe a base di rame, ottone e zinco.
- Eccellente resistenza meccanica agli urti.
- Per una vasta gamma di tagli continui e interrotti in cui è necessaria una finitura superficiale superiore.

Qualità KD1405™

- Il materiale per utensili di Kennametal più resistente alle abrasioni per materiali non ferrosi e non metallici.
- Per applicazioni in cui è richiesta resistenza all'abrasione.
- Qualità in diamante policristallino rivestito CVD.

Qualità KD1425™

- Progettata per un'estrema resistenza all'abrasione.
- Buona resistenza del tagliente in applicazioni difficili.
- Scelta ideale per leghe di alluminio ad alto contenuto di silicio, materiali bimetallici, materie plastiche rinforzate con fibra di carbonio e altri materiali non metallici abrasivi.

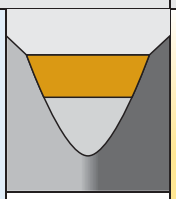
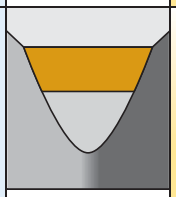
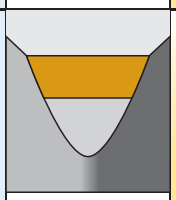


I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

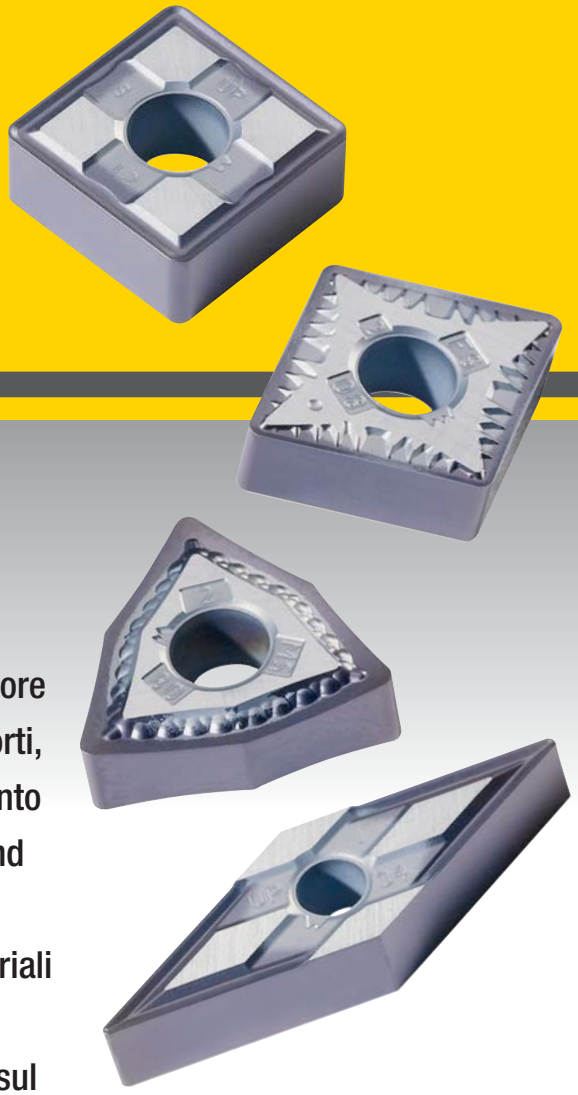
P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ← → **tenacità**

PCD — Qualità in diamante policristallino

Rivestimento	Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KD1400  —	**Composizione:** Punta in diamante policristallino (PCD) a grana ultrafine brasata su un substrato in metallo duro. **Applicazione:** Progettata per la tornitura generale soprattutto di materiali non ferrosi. Applicabile su una vasta gamma di tagli continui e interrotti in cui è necessaria una finitura superficiale superiore. Da usare su leghe di alluminio a contenuto medio-basso di silicio, non metalli, leghe a base di rame, ottone e zinco. Le dimensioni delle particelle di diamante a grana ultra fine consentono finiture superficiali superiori garantendo nel contempo la migliore resistenza meccanica agli urti di qualunque utensile da taglio PCD.										
		N									
		S									
KD1405  —	**Composizione:** Utensile con diamante puro, brasato direttamente su substrato in metallo duro. **Applicazione:** La qualità KD1405™ è il materiale per utensili di Kennametal più resistente alle abrasioni per materiali non ferrosi e non metallici. Ideale quando è richiesta resistenza all'abrasione.										
		N									
		S									
KD1425  —	**Composizione:** Qualità PCD multimodale, con diverse dimensioni della grana, brasata su un substrato in metallo duro. **Applicazione:** Progettata per un'estrema resistenza all'abrasione e una buona resistenza del tagliente in applicazioni difficili. Scelta ideale per leghe di alluminio ad alto contenuto di silicio, materiali bimetallici (AL/GCI), MMC, plastiche rinforzate con fibra di carbonio e altri materiali non metallici abrasivi.										
		N									

Qualità PVD Beyond™



I rivestimenti avanzati in PVD Beyond™ sono particolarmente adatti per resistere al calore generato dalla lavorazione delle leghe dure. Questi rivestimenti offrono un aumento della vita dell'utensile e una maggiore produttività in settori come meccanica generale, trasporti, industria aerospaziale, industria dell'energia e movimento terra. Sfruttate la resistenza dei rivestimenti PVD Beyond e l'ampia offerta di prodotti per lavorazioni di tornitura, scanalatura e troncatura per una vasta gamma di materiali e applicazioni. I rivestimenti in PVD Beyond aiutano a mantenere il truciolo sotto controllo e a ridurre l'usura sul tagliente dell'inserto.

beyond™

KCU10™

- Qualità rivestita in PVD con eccellente resistenza all'usura. Lavorazioni di finitura e medie.
- Per tutti i materiali, specialmente acciai inossidabili.

KCU25™

- Qualità rivestita in PVD con maggiore tenacità del tagliente ed eccellente resistenza all'usura. Lavorazioni medie e sgrossatura.
- Per tutti i materiali.

Scoprite i vantaggi presso il partner di distribuzione autorizzato Kennametal o visitate il sito **kennametal.com**.

KENNAMETAL®

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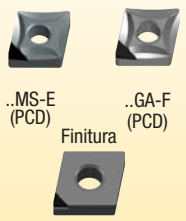
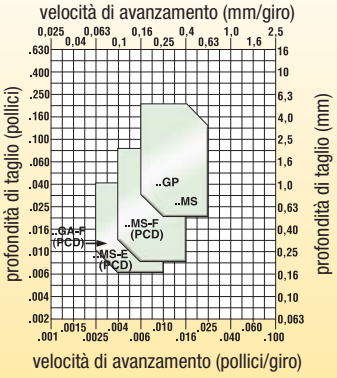
Passo 1 • Scegliere la geometria dell'inserto

Inserti negativi

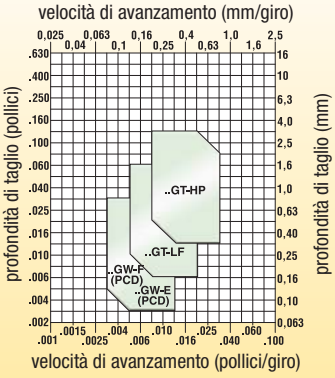


..MS-E (PCD) ..GA-F (PCD)
Finitura
..GA-E (PCD)
Finitura di precisione



Inserti positivi

..GW-F (PCD) ..GW-E (PCD)



Passo 2 • Scegliere la qualità

condizione di taglio		Geometria negativa dell'inserto ..GA-E (PCD)	..MS-E (PCD)	..GA-F (PCD)	Geometria positiva dell'inserto ..GW-E (PCD)	..GW-F (PCD)
taglio fortemente interrotto		–	–	KD1400	–	KD1400
taglio leggermente interrotto		KD1405	KD1405	KD1400	KD1405	KD1400
profondità di taglio variabile, superfici di fusione o di forgiatura		KD1405	KD1405	KD1425	KD1405	KD1425
taglio uniforme, superficie pre-tornita		KD1405	KD1405	KD1425	KD1405	KD1425

Passo 3 • Scegliere la velocità di taglio

Leghe di alluminio a basso contenuto di silicio (ipoeutettico <12,2% Si) e leghe di magnesio — velocità — m/min (sfm) — Condizioni iniziali

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	2250 (7200)	2500 (8000)	m/min	SFM
N1	KD1400											765	2500

Leghe di alluminio ad alto contenuto di silicio (ipereutettico >12,2% Si) e leghe di magnesio — velocità — m/min (sfm) — Condizioni iniziali

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N3	KD1405					550	1800
	KD1425					765	2500

Ulteriori consigli sulla velocità di taglio per materiali vari

A base di rame, ottone e zinco con indice di lavorabilità di 70–100 — velocità — m/min (sfm) — Condizioni iniziali ◁▷

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N4	KD1400/KD1405		◁▷			520	1700
	KD1425	◁▷				260	850

Nylon, materie plastiche, gomme, fenoli, resine, fibra di vetro e vetro — velocità — m/min (sfm) — Condizioni iniziali ◁▷

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N5	KD1400/KD1405		◁▷			400	1300
	KD1425	◁▷				365	1200

Materiali compositi in carbonio e grafite:
Leghe abrasive, kevlar e grafite (280–400 HB) (30–43 HRC) — velocità — m/min (sfm) — Condizioni iniziali ◁▷

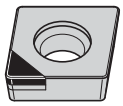
gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N6	KD1400/KD1405			◁▷		760	2500

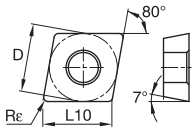
MMC (materiali compositi a matrice metallica a base di alluminio) — velocità — m/min (sfm) — Condizioni iniziali ◁▷

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N7	KD1405		◁▷			460	1500
	KD1400		◁▷			365	1200

P			
M			
K			
N	●	○	●
S		●	●
H			

● prima scelta
○ scelta alternativa

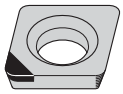


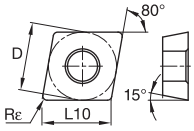


CCGW-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CCGW060204FST	6,35	6,45	0,4	●	–	●
CCGW09T304FST	9,53	9,67	0,4	●	–	●
CCGW09T308FST	9,53	9,67	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B179–B183.

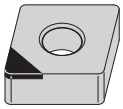


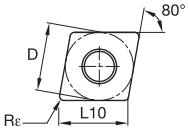


CDHB-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CDHBS4T002FST	3,97	4,03	0,2	●	–	●
CDHBS4T0X0FST	3,97	4,03	0,1	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B185–B187.

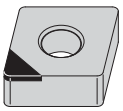


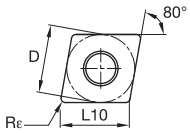


CNGA

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CNGA120404E	12,70	12,90	0,4	–	●	–
CNGA120408E	12,70	12,90	0,8	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.





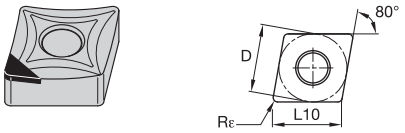
CNGA-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CNGA120404FST	12,70	12,90	0,4	●	–	●
CNGA120408FST	12,70	12,90	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.

P			
M			
K			
N	●	○	●
S		●	●
H			

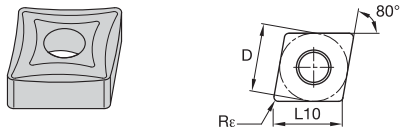
● prima scelta
○ scelta alternativa



CNMS-E

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CNMS120408E	12,70	12,90	0,8	–	●	–

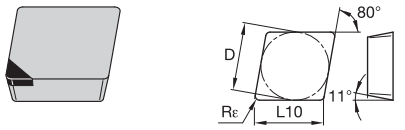
NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.



CNMS-FST

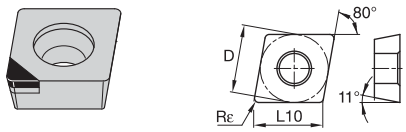
codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CNMS120404FST	12,70	12,90	0,4	●	–	–
CNMS120408FST	12,70	12,90	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B58–B73.



CPGN

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CPGN120304F	12,70	12,90	0,4	–	–	●
CPGN120308F	12,70	12,90	0,8	–	–	●



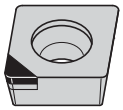
CPGW-E-F

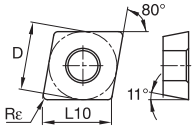
codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CPGW060204E	6,35	6,45	0,4	–	●	–
CPGW09T304E	9,53	9,67	0,4	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B192–B205.

P			
M			
K			
N	●	○	●
S		●	●
H			

● prima scelta
○ scelta alternativa

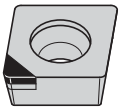


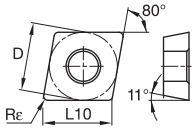


CPGW-FWST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CPGW060204FWST	6,35	6,45	0,4	●	–	●
CPGW09T308FWST	9,53	9,67	0,8	●	–	●
CPGW120408FWST	12,70	12,90	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B192–B205.

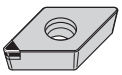


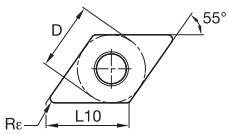


CPGW-SM

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
CPGW060202FST	6,35	6,45	0,2	●	–	●
CPGW060204FST	6,35	6,45	0,4	●	–	●
CPGW060208FST	6,35	6,45	0,8	●	–	●
CPGW09T304FST	9,53	9,67	0,4	●	–	●
CPGW09T308FST	9,53	9,67	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B192–B205.

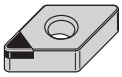


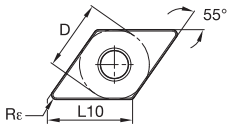


DCGW-SM

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
DCGW070204FST	6,35	7,75	0,4	●	–	●
DCGW11T304FST	9,53	11,63	0,4	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B209–B213.



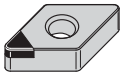


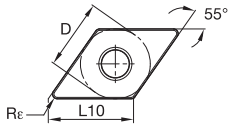
DNGA

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
DNGA150404E	12,70	15,50	0,4	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B85–B93.

● prima scelta
○ scelta alternativa

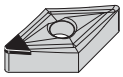


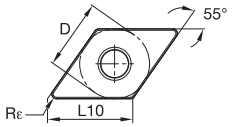


DNGA-FST

codice catalogo ISO	D	L10	Rε	P	M	K	N	S	H	KD1400	KD1405	KD1425
DNGA150404FST	12,70	15,50	0,4				●			●	–	●
DNGA150408FST	12,70	15,50	0,8				●			●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B192–B205.

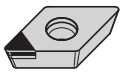


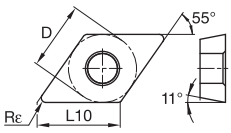


DNMS-FST

codice catalogo ISO	D	L10	Rε	P	M	K	N	S	H	KD1400	KD1405	KD1425
DNMS150404FST	12,70	15,50	0,4				●			●	–	–
DNMS150408FST	12,70	15,50	0,8				●			●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B192–B205.



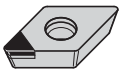


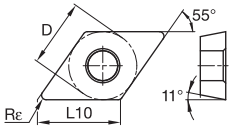
DPGW-E

codice catalogo ISO	D	L10	Rε	P	M	K	N	S	H	KD1400	KD1405	KD1425
DPGW11T304E	9,53	11,63	0,4							–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B217–B221.

● prima scelta
○ scelta alternativa

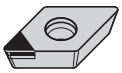


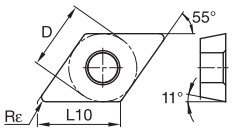


DPGW-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
DPGW070202FST	6,35	7,75	0,2	●	–	●
DPGW070204FST	6,35	7,75	0,4	●	–	●
DPGW11T304FST	9,53	11,63	0,4	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B217–B221.

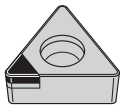


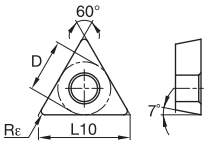


DPGW-FWST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
DPGW11T304FWST	9,53	11,63	0,2	–	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B217–B221.

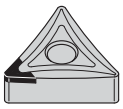


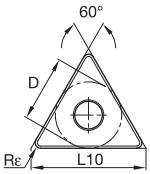


TCGW-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
TCGW110204FST	6,35	11,00	0,4	●	–	●
TCGW16T304FST	9,53	16,50	0,4	●	–	–

NOTA: Per gli utensili e i bareni vedere a pagg B247–B248.



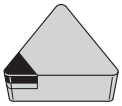


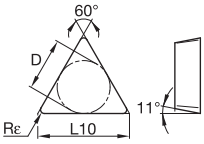
TNMS-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
TNMS160404FST	9,53	16,50	0,4	●	–	●
TNMS160408FST	9,53	16,50	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B132–B142.

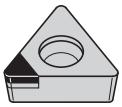
● prima scelta
○ scelta alternativa

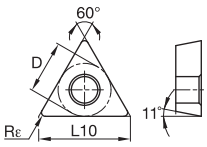




TPGN

codice catalogo ISO	D	L10	Rε	P KD1400	M KD1405	K KD1425	N	S	H
TPGN110304F	6,35	11,00	0,4	–	–	●	●	●	
TPGN160304F	9,53	16,50	0,4	–	–	●	○	●	
TPGN160308F	9,53	16,50	0,8	–	–	●	●	●	
TPGN220408F	12,70	22,00	0,8	–	–	●	●	●	

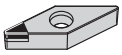


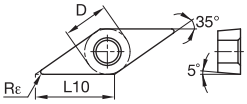


TPGW-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
TPGW110204FST	6,35	11,00	0,4	●	–	●
TPGW110208FST	6,35	11,00	0,8	●	–	–
TPGW16T304FST	9,53	16,50	0,4	–	–	●
TPGW16T308FST	9,53	16,50	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B257–B263.





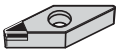
VBGW-E

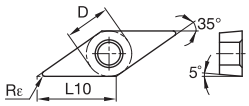
codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
VBGW160408E	9,53	16,61	0,8	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B266–B269.

	KD1400	KD1405	KD1425
P			
M			
K			
N	●	○	●
S		●	●
H			

● prima scelta
○ scelta alternativa

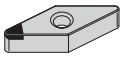


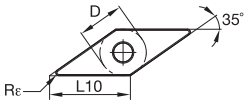


VBGW-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
VBGW110304FST	6,35	11,07	0,4	●	–	●
VBGW160404FST	9,53	16,61	0,4	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B266–B269.

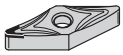


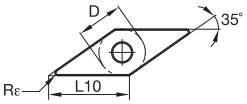


VNGA-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
VNGA160404FST	9,53	16,61	0,4	●	–	–
VNGA160408FST	9,53	16,61	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B149–B153.

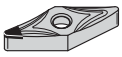


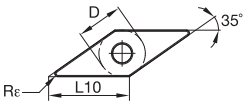


VNMS-E

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
VNMS160404E	9,53	16,61	0,4	–	●	–
VNMS160408E	9,53	16,61	0,8	–	●	–

NOTA: Per gli utensili e i bareni vedere a pagg B149–B153.



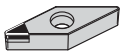


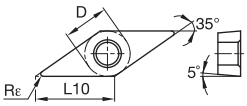
VNMS-FST

codice catalogo ISO	D	L10	Rε	KD1400	KD1405	KD1425
VNMS160404FST	9,53	16,61	0,4	●	–	●
VNMS160408FST	9,53	16,61	0,8	●	–	●

NOTA: Per gli utensili e i bareni vedere a pagg B149–B153.

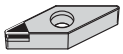
● prima scelta
○ scelta alternativa

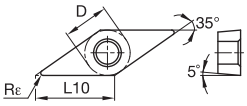




VPGN

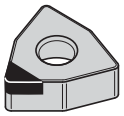
codice catalogo ISO	D	L10	Rε	P	M	K	N	S	H
				KD1400	KD1405	KD1425			
VCGN160404	9,53	16,61	0,4	–	–	●			
VCGN160408	9,53	16,61	0,8	–	–	●			

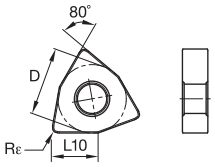




VPGR

codice catalogo ISO	D	L10	Rε	P	M	K	N	S	H
				KD1400	KD1405	KD1425			
VCGR160404	9,53	16,61	0,4	–	–	●			
VCGR160408	9,52	16,61	0,8	–	–	●			
VCGR160412	9,53	16,61	1,2	–	–	●			

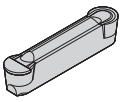


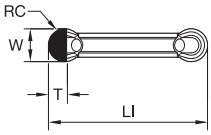


WNGA-FST

codice catalogo ISO	D	L10	Rε	P	M	K	N	S	H
				KD1400	KD1405	KD1425			
WNGA080408FST	12,70	8,69	0,8	–	–	●			

NOTA: Per gli utensili e i bareni vedere a pagg B161–B165.





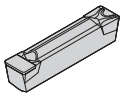
● prima scelta
○ scelta alternativa

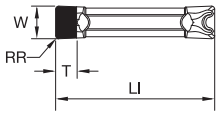
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Spoglia superiore piana; Raggio completo; Rettificato di precisione • PCD

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0500M05P00E	5	5,00	2,5	25	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●

NOTA: Per gli utensili A4, i bareni e le lame, vedere a pagg C104–C135.

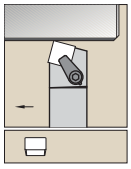


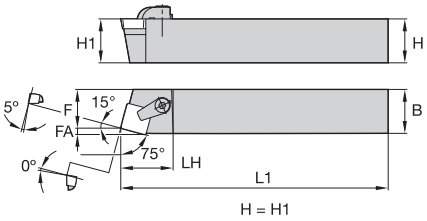


Dotato di Rettificato di precisione con spoglia superiore piana • PCD

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04E	3	3,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0400M04P04E	4	4,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0500M05P08E	5	5,00	0,8	25	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●

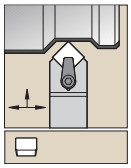
NOTA: Per gli utensili A4, i bareni e le lame, vedere a pagg C104–C135.

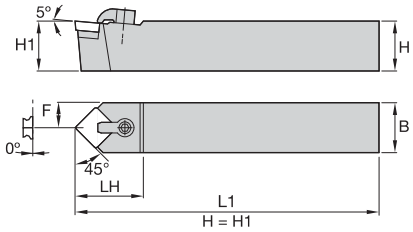




CSBP 75°

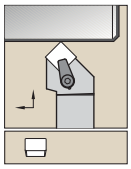
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
destro														
1097750	**CSBPR2020K12**	20	20	17,0	125	30,0	3,1	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm

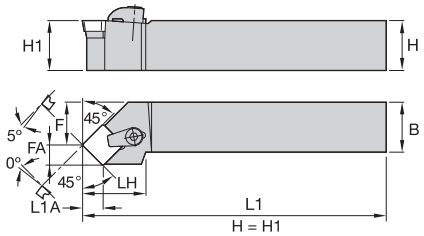




CSDP 45°

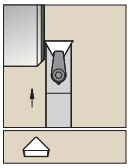
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
1097754	**CSDPN2020K12**	20	20	10,0	125	32,0	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097755	**CSDPN2525M12**	25	25	12,5	150	32,0	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm

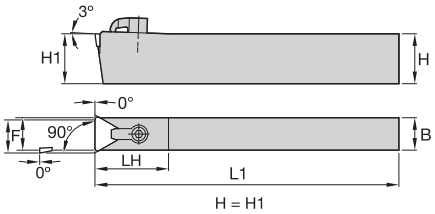




CSSP 45°

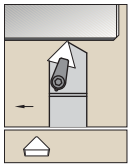
numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
destro															
1244605	**CSSPR2020K12**	20	20	25,0	125	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1244606	**CSSPR2525M12**	25	25	32,0	150	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm
sinistro															
1244604	**CSSPL2525M12**	25	25	32,0	150	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm

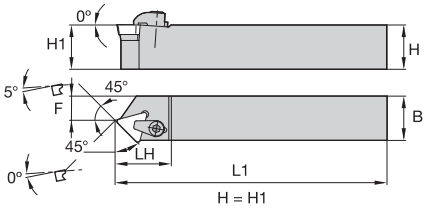




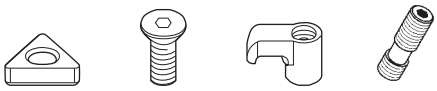
CTCPN 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
1097775	**CTCPN2510M11**	25	10	10,0	150	26,0	TP..110304	**SM819**	**MS960**	—	**CKM7**	**STCM5**	2.5 mm
1097776	**CTCPN2514M16**	25	14	14,4	150	28,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM13**	**STCM4**	4 mm
1097781	**CTCPN2518M22**	25	18	19,2	150	41,0	TP..220408	**SM837**	**MS125**	2.5 mm	**CKM13**	**STCM4**	4 mm
1097778	**CTCPN2520M22**	25	20	20,2	150	41,0	TP..220408	**SM837**	**MS125**	2.5 mm	**CKM13**	**STCM4**	4 mm

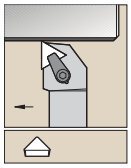


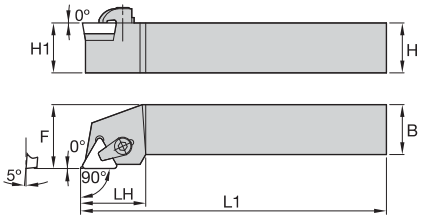


CTDP 45°



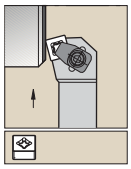
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	staffa	vite staffa	hex
destro												
1244613	**CTDPR1212F11**	12	12	6,0	80	22,0	TP..110304	**SM819**	**MS960**	**CKM19**	**STCM9**	2.5 mm

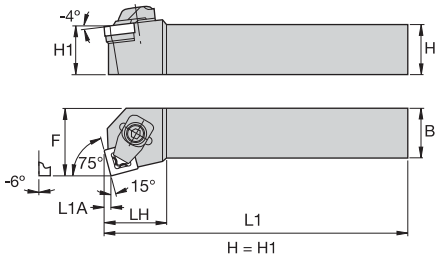




CTGP 90°

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
destro													
1097762	**CTGPR1212F11**	12	12	16,0	80	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097763	**CTGPR1616H11**	16	16	20,0	100	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1244595	**CTGPR2020K11**	20	20	25,0	125	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097764	**CTGPR2020K16**	20	20	25,0	125	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097765	**CTGPR2525M16**	25	25	32,0	150	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm
sinistro													
1097916	**CTGPL1212F11**	12	12	16,0	80	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097918	**CTGPL2020K16**	20	20	25,0	125	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097919	**CTGPL2525M16**	25	25	32,0	150	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm



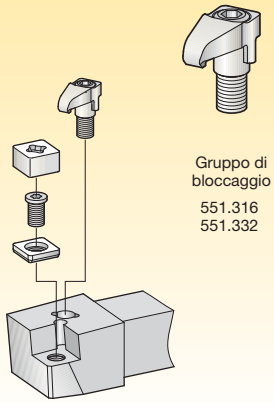


CCKN 75° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro													
2891706	**CCKNR2525M12MX7**	25	25	32,0	150	32,0	3,1	CNGX120708	**552.221**	**554.252**	2.5 mm	**551.013**	4 mm
sinistro													
2891727	**CCKNL2525M12MX7**	25	25	32,0	150	32,0	3,1	CNGX120708	**552.221**	**554.252**	2.5 mm	**551.013**	4 mm

Ricambi • Versione di bloccaggio -MX, -MN, -MF e -MA

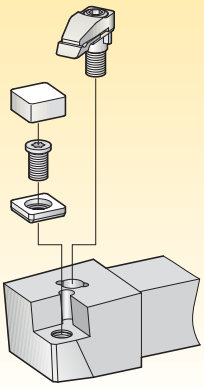
Modo di bloccaggio MX



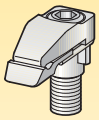
Gruppo di bloccaggio

551.316
551.332

Modo di bloccaggio MN

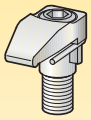


Singoli elementi di bloccaggio



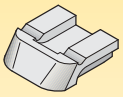
Gruppo di bloccaggio

551.251
551.255



Elemento di bloccaggio

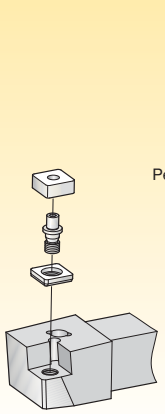
551.333
551.317



Piastra di pressione

557.111
557.111

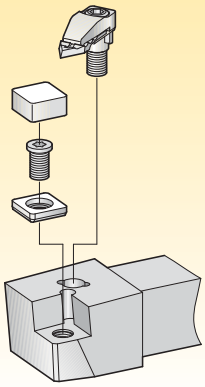
Modo di bloccaggio MA



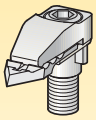
Perno di bloccaggio

554.016
554.017
554.018

Modo di bloccaggio MF

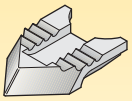


Singoli elementi di bloccaggio



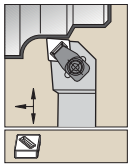
Gruppo di bloccaggio

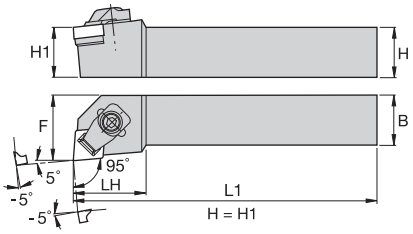
551.252
551.253
551.254
551.256
551.257
551.258
551.260
551.261



Rompitruciolo

557.125
557.126
557.127
557.120
557.121
557.122
557.123
557.124





CCLN 95° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro												
1260025	**CCLNR2525M12-MX7**	25	25	32,0	150	32,0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm
1260028	**CCLNR3225P12-MX7**	32	25	32,0	170	32,0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm
sinistro												
1260017	**CCLNL2525M12-MX7**	25	25	32,0	150	30,0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm
1260020	**CCLNL3225P12-MX7**	32	25	32,0	170	32,0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm

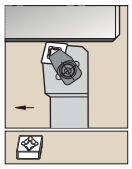
CCLN 95° • MN

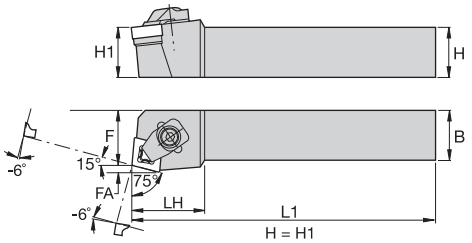
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro													
1260023	**CCLNR2525M12-MN4**	25	25	32,0	150	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1260024	**CCLNR2525M12-MN7**	25	25	32,0	150	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1504937	**CCLNR3225P12-MN4**	32	25	32,0	170	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1260027	**CCLNR3225P12-MN7**	32	25	32,0	170	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro													
1260015	**CCLNL2525M12-MN4**	25	25	32,0	150	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1260016	**CCLNL2525M12-MN7**	25	25	32,0	150	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1504931	**CCLNL3225P12-MN7**	32	25	32,0	170	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

CCLN 95° • MF

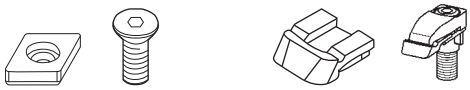
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	rompitruciolo	gruppo staffa	hex
destro													
1260022	**CCLNR2525M12-MF4**	25	25	32,0	150	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm
1503826	**CCLNR2525M12-MF7**	25	25	32,0	150	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm
sinistro													
1260014	**CCLNL2525M12-MF4**	25	25	32,0	150	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm
1504935	**CCLNL2525M12-MF7**	25	25	32,0	150	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm

NOTA: La figura mostra la versione di bloccaggio MX
Il supporto di base deve essere ordinato separatamente:
V.CLN R/L 2525M12
V.CLN R/L 3225P12
V.CLN R/L 3225P16



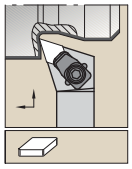


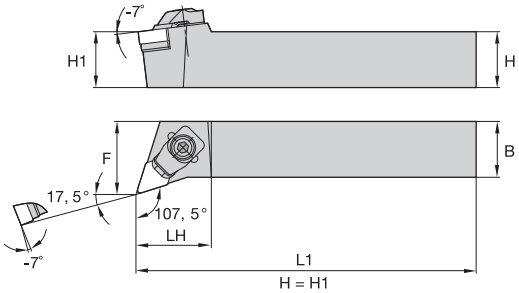
CCRN 75° • MN



numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro														
1504885	**CCRNR3225P12-MN7**	32	25	27,0	170	35,0	3,1	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro														
1503827	**CCRNL2525M12-MN7**	25	25	27,0	150	35,0	3,1	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOTA: La figura mostra la versione di bloccaggio MX
Il supporto di base deve essere ordinato separatamente:
V.CRN R/L 2525M12
V.CRN R/L 3225P12
V.CRN R/L 3225P16

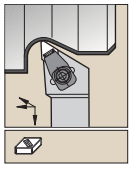


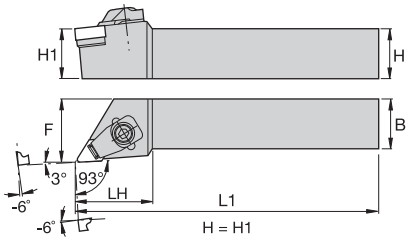


CDHN 107,5° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro												
1505504	**CDHNR2525M12-MX7**	25	25	32,0	150	30,0	DN.X120708	**552.225**	**554.254**	2.5 mm	**551.316**	4 mm

NOTA: La figura mostra la versione di bloccaggio MN.
Il supporto di base deve essere ordinato separatamente:
V.DHN R/L 2525M12
V.DHN R/L 2525M15
V.DHN R/L 3225P15



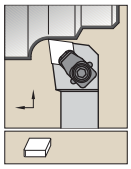


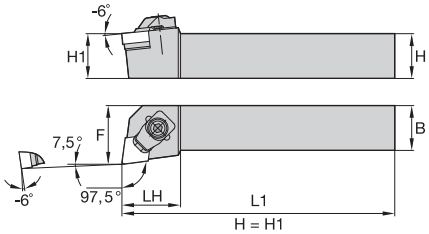
CDJN 93° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro												
1260177	**CDJNR2525M15-MX7**	25	25	32,0	150	38,0	DN.X150708	**552.228**	**554.252**	2.5 mm	**551.332**	4 mm
sinistro												
1260172	**CDJNL2525M12-MX7**	25	25	32,0	150	38,0	DN.X120708	**552.225**	**554.254**	2.5 mm	**551.316**	4 mm
1504968	**CDJNL2525M15MX7**	25	25	32,0	150	38,0	DN.X150708	**552.228**	**554.252**	2.5 mm	**551.332**	4 mm

CDJN 93° • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro													
1260176	**CDJNR2525M15MN7**	25	25	32,0	150	38,0	DN.N150708	**552.228**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1327362	**CDJNR3225P15MN7**	32	25	32,0	170	38,0	DN.N150708	**552.228**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro													
1504969	**CDJNL2525M15MN7**	25	25	32,0	150	38,0	DN.N150708	**552.228**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1327363	**CDJNL3225P15MN7**	32	25	32,0	170	38,0	DN.N150708	**552.228**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm





CELN 97,5° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro												
1505803	**CELNR2525M13-MX7**	25	25	32,0	150	32,0	EN.X130708	**552.240**	**554.252**	2.5 mm	**551.316**	4 mm

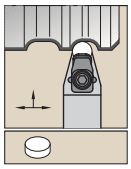
CELN 97,5° • MN

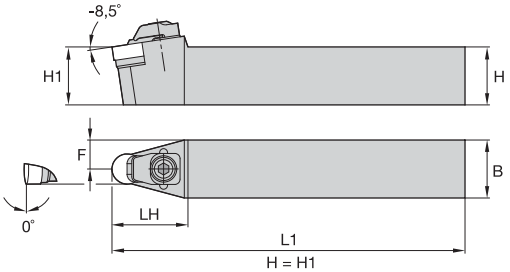
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro													
1501222	**CELNR2525M13MN7**	25	25	32,0	150	32,0	EN.N130708	**552.240**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro													
1501221	**CELNL2525M13MN7**	25	25	32,0	150	32,0	EN.N130708	**552.240**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

CELN 97,5° • MF

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	rompitruciolo	gruppo staffa	hex
destro													
1331458	**CELNR2525M13MF7**	25	25	32,0	150	32,0	EN.N130708	**552.240**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm

NOTA: La figura mostra la versione di bloccaggio MN.
Il supporto di base deve essere ordinato separatamente:
V.ELN R/L 2525M13
V.ELN R/L 3225P13

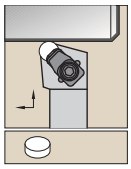


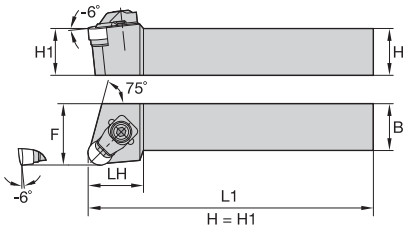


CRDN • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
1510281	**CRDNN2525M12MN4**	25	25	12,5	150	30,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1313053	**CRDNN2525M12MN7**	25	25	12,5	150	30,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1502204	**CRDNN3225P12MN4**	32	25	12,5	170	30,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1320407	**CRDNN3225P12MN7**	32	25	12,5	170	30,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm

NOTA: La figura mostra la versione di bloccaggio MN.
Il supporto di base deve essere ordinato separatamente:
V.RDN N 2525M12
V.RDN N 3225M12

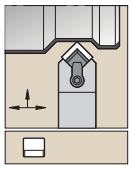


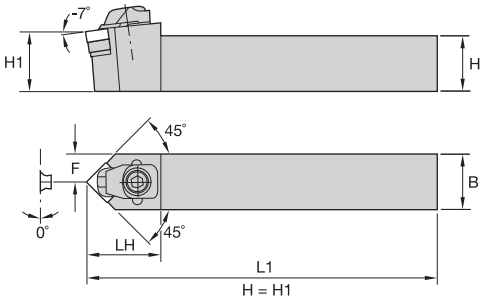


CRSN • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro													
1510285	**CRSNR2525M12-MN4**	25	25	32,0	150	26,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1324116	**CRSNR2525M12MN7**	25	25	32,0	150	26,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1510286	**CRSNR3225P12MN4**	32	25	32,0	170	26,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1261273	**CRSNR3225P12MN7**	32	25	32,0	170	26,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
sinistro													
1510282	**CRSNL2525M12-MN4**	25	25	32,0	150	26,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1510283	**CRSNL2525M12MN7**	25	25	32,0	150	26,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1510284	**CRSNL3225P12MN4**	32	25	32,0	170	26,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1331597	**CRSNL3225P12MN7**	32	25	32,0	170	26,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm

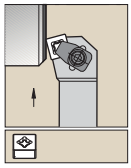
NOTA: La figura mostra la versione di bloccaggio MN.
Il supporto di base deve essere ordinato separatamente:
V.RSN R/L 2525M12
V.RSN R/L 3225P12

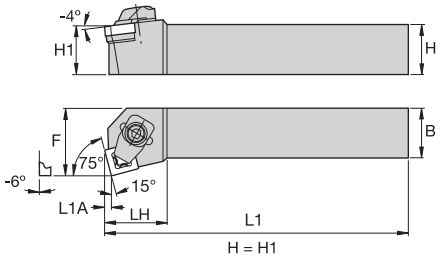




CSDN • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
2891696	**CSDNN2525M12MX7**	25	25	12,5	151	36,0	SNGX120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

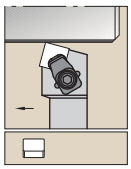


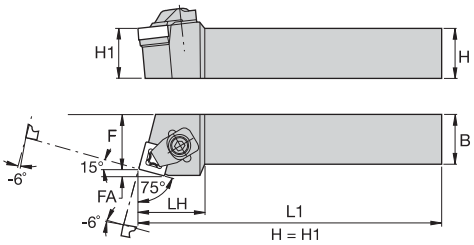


CSKN 75° • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro														
1261315	**CSKNR2525M12-MN7**	25	25	32,0	150	27,0	3,0	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro														
1261299	**CSKNL2525M12-MN4**	25	25	32,0	150	27,0	3,0	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261300	**CSKNL2525M12-MN7**	25	25	32,0	150	27,0	3,0	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOTA: La figura mostra la versione di bloccaggio MX.
Il supporto di base deve essere ordinato separatamente:
V.SKN R/L 2525M12

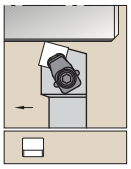


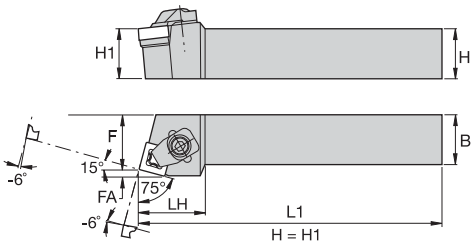


CSRN 75° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
sinistro													
1510300	**CSRNL3225P15-MX7**	32	25	27,0	170	34,0	4,1	SN.X150708	**552.234**	**554.253**	3 mm	**551.316**	4 mm

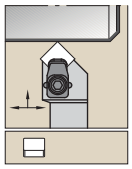
NOTA: La figura mostra la versione di bloccaggio MX.
Il supporto di base deve essere ordinato separatamente:
V.SRN R/L 2525M12
V.SRN R/L 3225P12
V.SRN R/L 3225P15

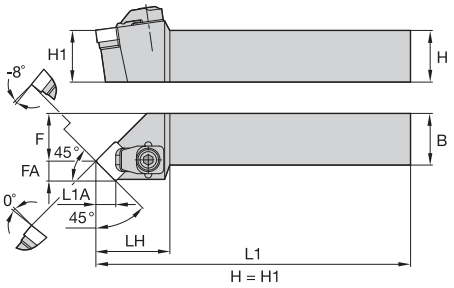




CSRN 75° • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro														
1510303	**CSRNR2525M12-MN4**	25	25	27,0	150	32,0	3,1	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261336	**CSRNR2525M12-MN7**	25	25	27,0	150	32,0	3,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro														
1510291	**CSRNL2525M12-MN4**	25	25	27,0	150	32,0	3,1	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1510292	**CSRNL2525M12-MN7**	25	25	27,0	150	32,0	3,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261334	**CSRNL3225P12-MN7**	32	25	27,0	170	32,0	3,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm



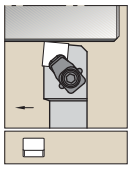


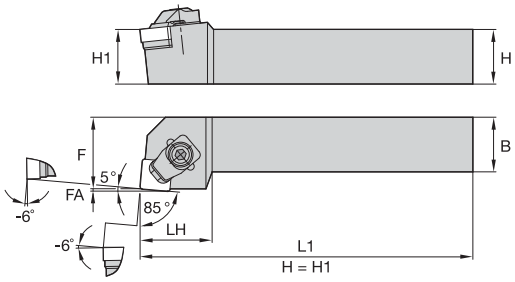
CSSN 45° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro														
1261367	**CSSNR2525M12-MX7**	25	25	32,0	150	35,0	8,3	8,3	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm
1261378	**CSSNR3225P15-MX7**	32	25	32,0	159	37,0	10,6	10,6	SN.X150708	**552.234**	**554.253**	3 mm	**551.316**	4 mm
sinistro														
1261350	**CSSNL2525M12-MX7**	25	25	23,7	150	35,0	8,6	8,3	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

CSSN 45° • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	L1A	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro															
1261366	**CSSNR2525M12-MN7**	25	25	32,0	142	35,0	8,3	8,3	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261370	**CSSNR3225P12-MN4**	32	25	32,0	162	35,0	8,3	8,3	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261371	**CSSNR3225P12-MN7**	32	25	32,0	162	35,0	8,3	8,3	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro															
1261349	**CSSNL2525M12-MN7**	25	25	32,0	142	35,0	8,3	8,3	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261353	**CSSNL3225P12-MN4**	32	25	32,0	162	35,0	8,3	8,3	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261354	**CSSNL3225P12-MN7**	32	25	32,0	162	35,0	8,3	8,3	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm



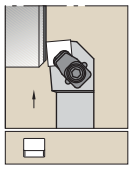


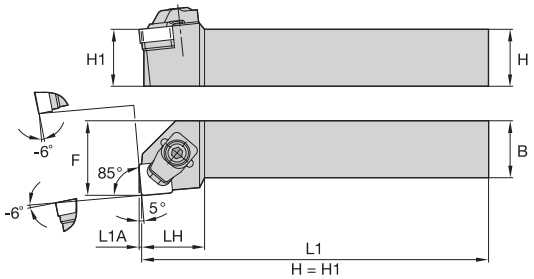
CSXN 85° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro													
1510334	**CSXNR3225P12-MX7**	32	25	32,0	170	30,0	1,1	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

CSXN 85° • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	FA	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro														
1510327	**CSXNR2525M12-MN4**	25	25	32,0	150	30,0	1,1	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro														
1510313	**CSXNL2525M12-MN4**	25	25	32,0	150	30,0	1,1	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm





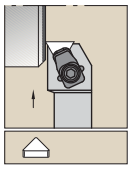
CSYN 85° • MX

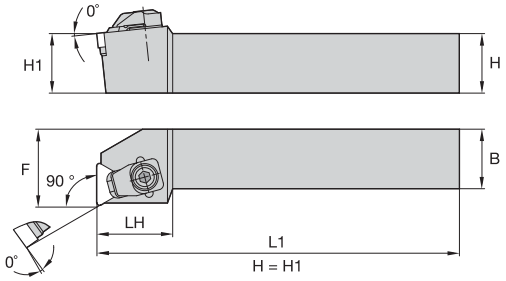
numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
sinistro													
1261414	**CSYNL3225P12-MX7**	32	25	32,0	170	27,0	1,0	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

CSYN 85° • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	L1A	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro														
1261423	**CSYNR2525M12-MN7**	25	25	32,0	150	27,0	1,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro														
1261408	**CSYNL2525M12-MN7**	25	25	32,0	150	27,0	1,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOTA: La figura mostra la versione di serraggio MN.
Il supporto di base deve essere ordinato separatamente:
V.SYN R/L 2525M12
V.SYN R/L 3225P12

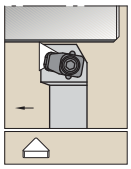


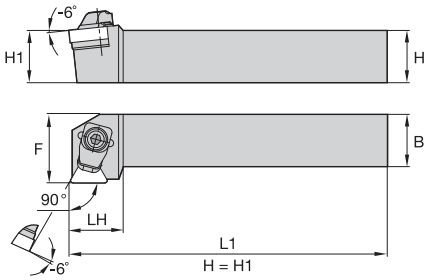


CTFN 90° • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro													
1510344	**CTFNR2525M16-MN4**	25	25	32,0	150	29,0	TN.N160408	**552.235-H**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm
sinistro													
1510341	**CTFNL2525M16-MN4**	25	25	32,0	150	29,0	TN.N160408	**552.235-H**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm

NOTA: La figura mostra la versione di serraggio MN.
Il supporto di base deve essere ordinato separatamente:
V.TFN R/L 2525M16

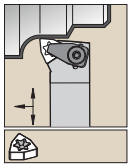


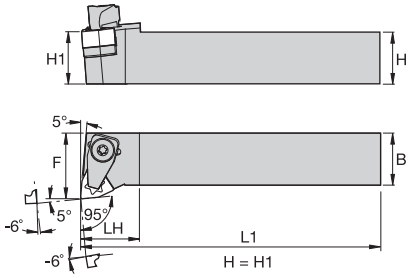


CTGN 90° • MN

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro													
1261482	**CTGNR2525M16-MN4**	25	25	32,0	150	20,0	TN.N160408	**552.235-H**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm
1261483	**CTGNR2525M16-MN7**	25	25	32,0	150	20,0	TN.N160708	**552.236**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm
sinistro													
1261478	**CTGNL2525M16-MN4**	25	25	32,0	150	20,0	TN.N160408	**552.235-H**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm
1261479	**CTGNL2525M16-MN7**	25	25	32,0	150	20,0	TN.N160708	**552.236**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm

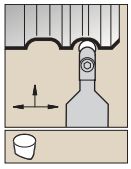
NOTA: La figura mostra la versione di serraggio MN.
Il supporto di base deve essere ordinato separatamente:
V.TGN R/L 2525M16

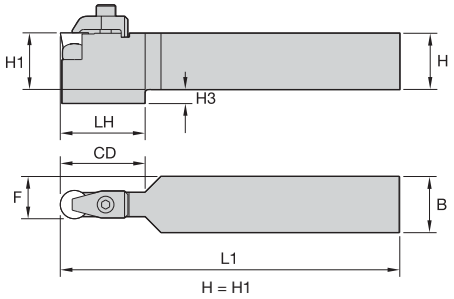




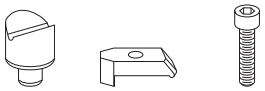
CWLN 95° • MX

numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro												
1873227	**CWLNR3225P08-MX7**	32	25	32,0	170	32,0	WN.X080708	**552.210**	**554.252**	2.5 mm	**551.316**	4 mm
sinistro												
1873224	**CWLNL2525M08-MX7**	25	25	32,0	150	32,0	WN.X080708	**552.210**	**554.252**	2.5 mm	**551.316**	4 mm



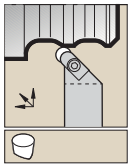


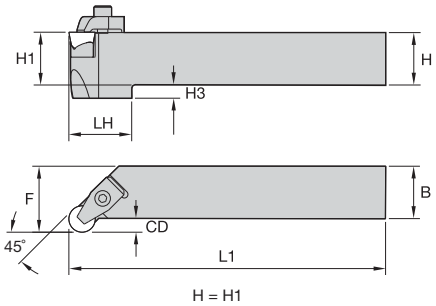
CRDP



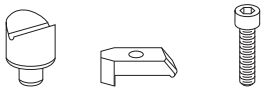
numero d'ordine	codice catalogo	H	B	F	L1	LH	H3	CD	inserto di riferimento	nido	staffa	vite staffa	hex
3642247	**CRDPN2525M06V**	25	25	12,5	151	—	—	19,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642249	**CRDPN3232P09V**	32	32	16,0	171	—	—	29,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
3642248	**CRDPN2525M09V**	25	25	12,5	151	—	—	29,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
3642251	**CRDPN3232P12V**	32	32	16,0	171	—	—	38,0	RPGX120700E	**NST3**	**CM216**	**CS412**	3.5 mm
3642252	**CRDPN3232P15V**	32	32	16,0	171	38,1	6,4	38,0	RPGX151000	**NST4**	**CM217**	**MS1294**	6 mm

NOTA: I portautensili CRDP possono utilizzare gli stili di inserto RPGX e RCGX.



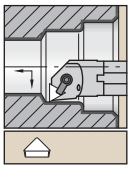


CRGP

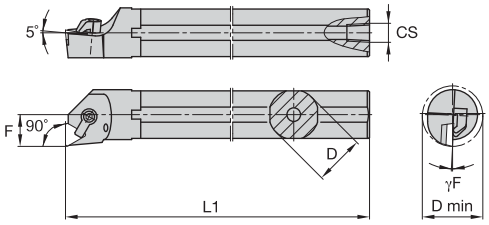


numero d'ordine	codice catalogo	H	B	F	L1	CD	inserto di riferimento	nido	staffa	vite staffa	hex
destro											
3642276	**CRGPR2525M06V**	25	25	32,0	151	7,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642280	**CRGPR3232P09V**	32	32	40,0	171	8,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
sinistro											
3642277	**CRGPL2525M06V**	25	25	32,0	151	7,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642281	**CRGPL3232P09V**	32	32	40,0	171	8,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm

NOTA: I portautensili CRGP possono utilizzare gli stili di inserto RPGX e RCGX.

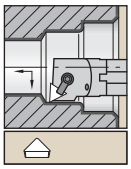


Codolo in acciaio con refrigerante interno.

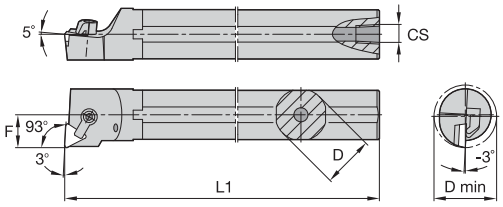


A-CTFP 90°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	γF°	inserto di riferimento	supporto	vite supporto	hex	staffa	vite staffa	hex
destro														
1886492	**A16RCTFPR11**	16	20,0	11,0	200	1/8-27 NPT	-4.0	TP..110304	**–**	**–**	–	**CKM19**	**STCM9**	2.5 mm
1098051	**A20QCTFPR11**	20	25,0	13,0	180	1/8-27 NPT	0.0	TP..110304	**SM815**	**MS961**	–	**CKM19**	**STCM9**	2.5 mm
1098053	**A25RCTFPR16**	25	32,0	17,0	200	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1098055	**A32SCTFPR16**	32	40,0	22,0	250	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1886494	**A40VCTFPR16**	40	48,0	27,0	400	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
sinistro														
1098054	**A25RCTFPL16**	25	32,0	17,0	200	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1098056	**A32SCTFPL16**	32	40,0	22,0	250	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm

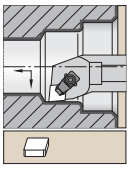


Codolo in acciaio con refrigerante interno.

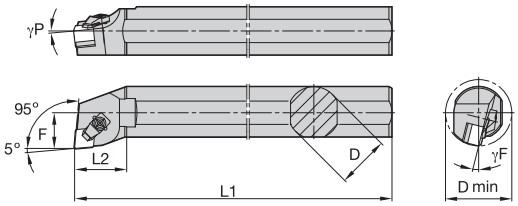


A-CTUP 93°

numero d'ordine	codice catalogo	D	D min	F	L1	CS	inserto di riferimento	supporto	vite supporto	staffa	vite staffa	hex
destro												
1098057	**A16MCTUPR11**	16	20,0	11,0	150	1/8-27 NPT	TP..110304	**SM815**	**MS961**	**CKM19**	**STCM9**	2.5 mm
sinistro												
1098058	**A16MCTUPL11**	16	20,0	11,0	150	1/8-27 NPT	TP..110304	**SM815**	**MS961**	**CKM19**	**STCM9**	2.5 mm



Gambo in acciaio senza fori refrigerazione.



S-CCLN 95° • MX

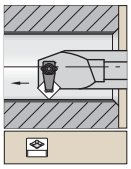
numero d'ordine	codice catalogo	D	D min	F	L1	L2	γF°	γP°	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro														
2890773	**S32SCCLNR12MX7**	32	40,0	22,0	251	43	-14.0	-5.0	CN.X120708	**–**	**–**	–	**551.316**	4 mm
1289077	**S40T-CCLNR12-MX7**	40	55,0	27,0	300	40	-14.0	-6.0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm
sinistro														
1510401	**S40T-CCLNL12-MX7**	40	55,0	27,0	300	40	-14.0	-6.0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm

NOTA: La figura mostra la versione di serraggio MN.
Il supporto di base deve essere ordinato separatamente:
S40T-V.CLN R/L 12

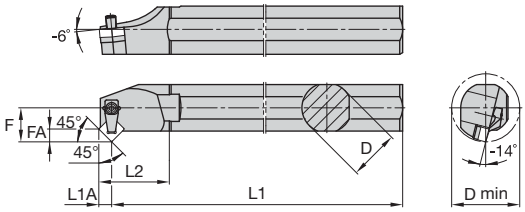
S-CCLN 95° • MN

numero d'ordine	codice catalogo	D	D min	F	L1	L2	γF°	γP°	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro															
1289075	**S40T-CCLNR12-MN4**	40	55,0	27,0	300	40	-14.0	-6.0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1289076	**S40T-CCLNR12-MN7**	40	55,0	27,0	300	40	-14.0	-6.0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
sinistro															
1289072	**S40T-CCLNL12-MN7**	40	55,0	27,0	300	40	-14.0	-6.0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOTA: La figura mostra la versione di serraggio MN.
Il supporto di base deve essere ordinato separatamente:
S40T-V.SSN R/L 12



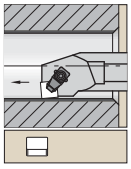
Gambo in acciaio senza fori refrigerazione.



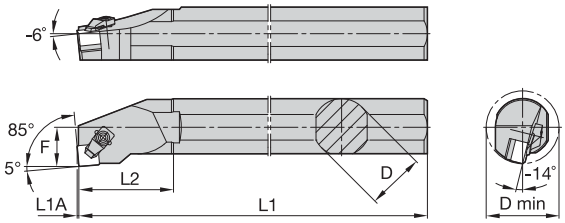
S-CSSN 45° • MX

numero d'ordine	codice catalogo	D	D min	F	L1	L2	L1A	FA	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
destro														
1873498	**S40T-CSSNR12-MX7**	40	55,0	27,0	300	67,0	8,3	8,3	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm
sinistro														
1873499	**S40T-CSSNL12-MX7**	40	55,0	27,0	300	67,0	8,3	8,3	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

NOTA: La figura mostra la versione di bloccaggio MX.
Il supporto di base deve essere ordinato separatamente:
S40T-V.SSN R/L 12



Gambo in acciaio senza fori refrigerazione.

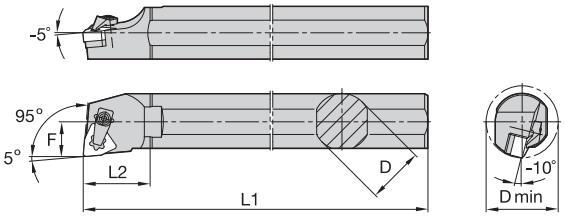


S-CSYN 85° • MN

numero d'ordine	codice catalogo	D	D min	F	L1	L2	L1A	inserto di riferimento	supporto	vite supporto	hex	piastra di spinta	gruppo staffa	hex
destro														
1245016	**S40T-CSYNR12-MN7**	40	55,0	27,0	300	67,0	1,0	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOTA: La figura mostra la versione di serraggio MN.
Il supporto di base deve essere ordinato separatamente:
S40T-V.SYN R/L 08

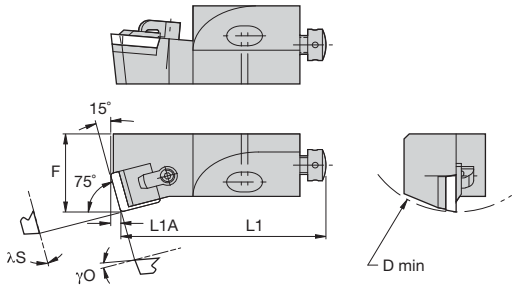
Gambo in acciaio senza fori refrigerazione.



S-CWLN 95° • MX

numero d'ordine	codice catalogo	D	D min	F	L1	L2	γF°	inserto di riferimento	supporto	vite supporto	hex	gruppo staffa	hex
sinistro													
1873496	**S40T-CWLNL08-MX7**	40	80,0	27,0	300	55,0	-10.0 deg	WN.X080708	**552.210**	**554.252**	2.5 mm	**551.316**	4 mm

NOTA: Il supporto di base deve essere ordinato separatamente:
S40T-V. WLN R/L 12

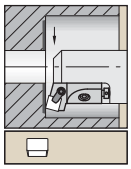


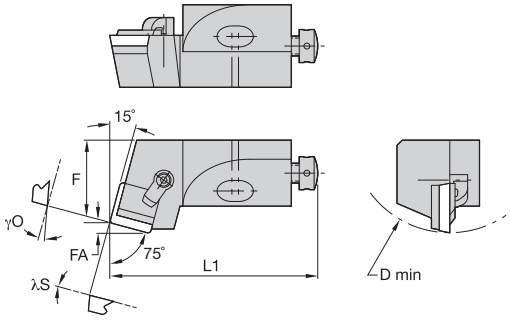
CSKP 75°

numero d'ordine	codice catalogo	D min	F	L1	L1A	λS°	γO°	inserto di riferimento
destro								
1261328	**CSKPR12CA12**	50	20,0	55	3,1	0.0	5.0	SP..120308/SP..422

Parti di ricambio

D min	supporto	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
50	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**



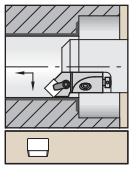


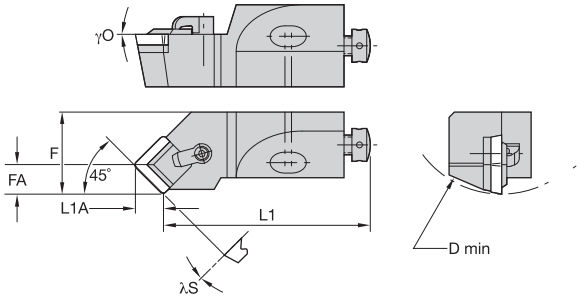
CSRP 75°

numero d'ordine	codice catalogo	D min	F	L1	FA	λS°	γO°	inserto di riferimento
destro								
3331132	**CSRPR10CA09**	40	14,0	50	2,2	0.0	0.0	SP..090308/SP..322

Parti di ricambio

D min	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
40	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





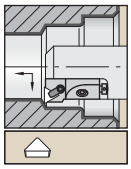
CSSP 45°

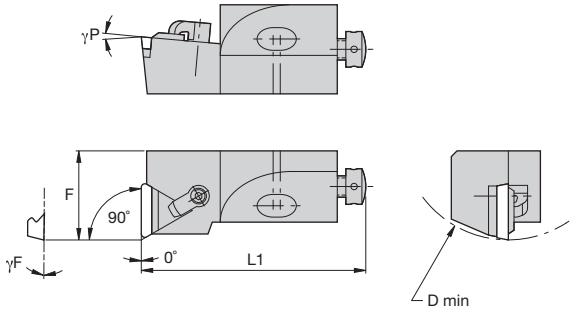
numero d'ordine	codice catalogo	D min	F	L1	FA	L1A	λS°	γO°	inserto di riferimento
destro									
1261379	**CSSPR10CA09**	40	14,0	44	6,5	6,1	0.0	0.0	SP..090308/SP..322
sinistro									
3331143	**CSSPL10CA09**	40	14,0	44	6,5	6,1	0.0	0.0	SP..090308/SP..322

NOTA: I ricambi selezionati si basano sul diametro minimo e sulla dimensione dell'inserto selezionata.

Parti di ricambio

D min	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	hex	rondella
40	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





CTFP 90°

numero d'ordine	codice catalogo	D min	F	L1	γF°	γP°	inserto di riferimento
destro							
2116588	**CTFPR10CA11**	40	14,0	50	0.0	5.0	TP..110304/TP..221
1746442	**CTFPR12CA16**	50	20,0	55	0.0	5.0	TP..160308/TP..322
2582207	**CTFPR20CA22**	70	25,0	70	0.0	5.0	TP..220408/TP..432
sinistro							
2114034	**CTFPL10CA11**	40	14,0	50	0.0	5.0	TP..110304/TP..221

Parti di ricambio

D min	supporto	vite supporto	hex	staffa	vite staffa	hex	vite di regolazione radiale	hex	vite di regolazione assiale	vite di montaggio	vite di montaggio	hex	rondella
40	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
70	**SM837**	**MS125**	2.5 mm	**CKM35**	**STCM8**	4 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**

Inserti Beyond™ Drive™

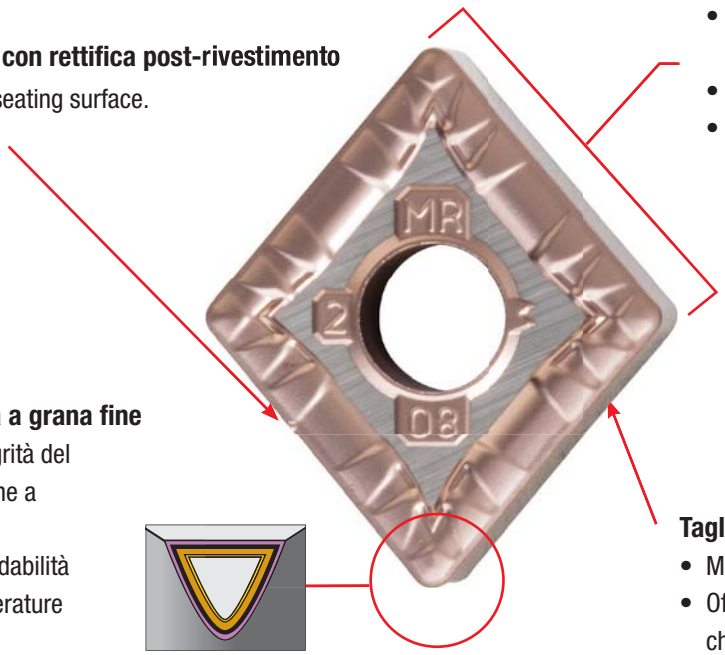
- Per fornire una maggiore produttività.
- Il trattamento post-rivestimento riduce lo stress e migliora l'adesione del rivestimento.
- Eccellente tenacità e resistenza all'usura.
- Migliore identificazione dell'usura dell'inserto.

Il trattamento post-rivestimento

- Migliora la tenacità del tagliente.
- Durata prevedibile e prolungata dell'inserto.
- Riduce la formazione di intagli.
- Ampia gamma di applicazioni.

Piano d'appoggio con rettifica post-rivestimento

- Provides secure seating surface.



Strato di allumina a grana fine

- Garantisce l'integrità del rivestimento anche a velocità elevate.
- Produttività e affidabilità maggiori a temperature di taglio elevate.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Taglienti micro-lucidati

- Migliora la tenacità del tagliente.
- Offre una superficie esterna liscia, che permette la riduzione delle forze, della frizione e del tagliente di riporto.

Scoprite i vantaggi presso il partner di distribuzione autorizzato Kennametal o visitate il sito **kennametal.com**.

KENNAMETAL®

kennametal.com

Bareni regolabili

Adattatore di attacco anteriore a cambio rapido KM™

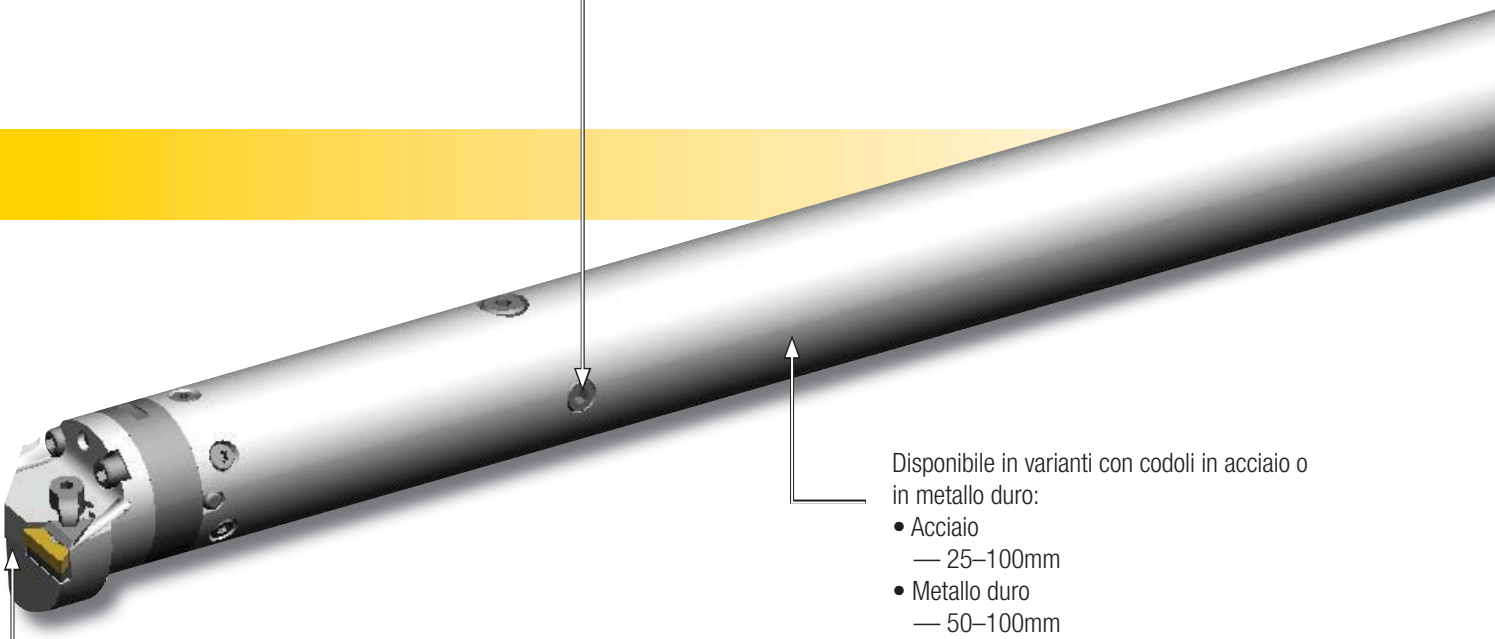
Ridurre le vibrazioni e migliorare la produttività nelle applicazioni di barenatura profonda con le teste a cambio rapido e i bareni regolabili KM™.

Caratteristiche, Funzioni, e Vantaggi

Caratteristiche	Funzioni	Vantaggi
Robusto meccanismo di serraggio interno	• Elimina il chatter e le vibrazioni. • Maggiore volume di truciolo asportato. • Profondità di taglio maggiori.	• Elevata qualità superficiale. • Riduzione dei pezzi scartati. • Aumentata produttività. • Minore esposizione ai rumori.
Meccanismo di bloccaggio regolabile	È possibile regolare il bareno direttamente sulla macchina semplicemente agendo su una vite.	Riduzione delle vibrazioni ottimizzata per ogni condizione di lavorazione.
Adattatore di attacco anteriore KM™ a cambio rapido	• Sistema di bloccaggio efficace. • Ampia selezione di unità da taglio a cambio rapido KM.	Il sistema flessibile riduce gli utensili utilizzati e i tempi di attrezzamento.

Kennametal ha fatto diversi importanti miglioramenti per il nostro attuale portafoglio bareni registrabili:

- Un avanzato processo di regolazione standardizzato presso l'impianto di fabbricazione garantisce che bareni siano accuratamenteregistrati sulla sporgenza massima.
- Attraverso il processo di nitrurazione dell 'acciaio dei bareni registrabili siamo riusciti a ridurre gli effetti dello scorrimento del truciolo.
- L'eliminazione dei piani sui bareni registrabili ha migliorato la stabilità e ha favorito il corretto bloccaggio utensile.
- L'aggiunta di una connessione piana permette l'uso di un utensile centrato.
- Procedura di montaggio migliorata.



Aspetto dei bareni regolabili

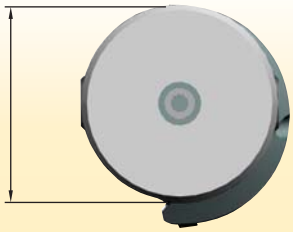
- **NOVITÀ** Tutti i bareni regolabili sono sottoposti a pre-regolazione di fabbrica e forniti al cliente con la regolazione specificata sulla sporgenza massima del bareno.
- **NOVITÀ** Tutti i bareni regolabili in acciaio sono sottoposti a un processo di nitrurazione per prevenire danni da sfregamento del truciolo sul bareno e prolungare la durata utile.
- Il processo di nitrurazione dei bareni regolabili in acciaio ossidato nero dona ai codoli una tinta bluastra. Questi bareni sono dotati di adduzione interna di refrigerante e utilizzano teste imbullonate o adattatori a cambio rapido KM™. Per regolare il bareno si utilizza una vite di regolazione.
- I bareni regolabili con codoli in metallo duro saranno di colore grigio. Sono dotati di adduzione interna di refrigerante e utilizzano adattatori a cambio rapido KM. Per regolare il bareno si utilizza una vite di regolazione.

Consigli per l'applicazione

- Scegliere il bareno dalle dimensioni più grandi possibili, ma verificare di avere spazio sufficiente per l'evacuazione dei trucioli.
- Regolare, se necessario, il bareno per evitare vibrazioni fuori controllo.
- Mantenere un rapporto L/D il più basso possibile.
- I bareni sono pre-regolati ma possono essere regolati manualmente.

1 Fissaggio della barra

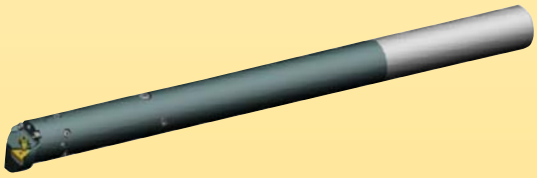
- Bloccare correttamente il bareno. Kennametal consiglia di bloccare il bareno per 4 x D.

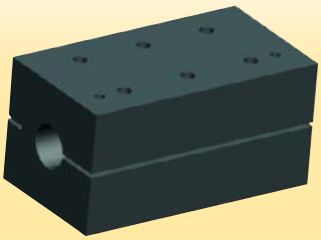


2 Kennametal consiglia di bloccare il bareno in un portautensili fessurato usando, se necessario, un riduttore fessurato con una tolleranza di diametro ISO H7.

3 NOVITÀ: Tutti i piani sono stati rimossi dai bareni regolabili in acciaio.

- Non bloccare i bareni con viti di regolazione.
- Kennametal non garantisce le prestazioni del bareno se non viene utilizzato un bloccaggio corretto.



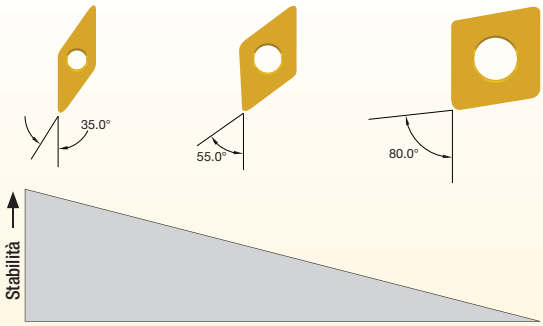


4 I bareni regolabili sono progettati e pre-regolati ad una sporgenza massima.

- Barre in acciaio: pre-regolate a 10 x D; uso fino a 6 x D.
- Barre composite in metallo duro: pre-regolate a 15 x D; uso fino a 12 x D.
- Può essere necessario ri-regolare il bareno se non viene usato alla sporgenza pre-regolata.
- Non stringere o utilizzare il bareno al di sotto della sporgenza minima ammessa.

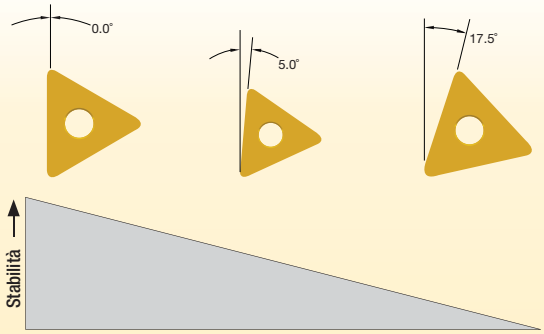
5 Angolo dell'inserto

- Angoli minori producono trucioli di dimensioni più costanti e aumentano lo scarico per una migliore evacuazione del truciolo.
- Angoli maggiori possono provocare sfregamento a causa di un tagliente più ampio, dando luogo a vibrazioni.



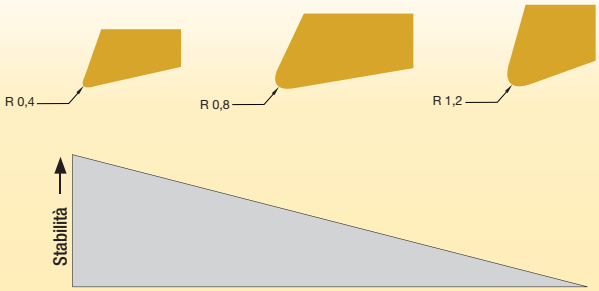
6 Angolo di registrazione

- Scegliere un angolo di registrazione il più vicino possibile a 90º per aumentare la stabilità.



7 Raggio di punta

- Scegliere un raggio di punta ridotto per una maggiore stabilità.
- La profondità di taglio deve essere maggiore del raggio di punta.



8 Geometrie d'inserto

- Utilizzare geometrie d'inserto positive con scorrimento facilitato del truciolo e preparazioni di tagliente in grado di riduzione le forze di taglio.
- Utilizzare gli inserti PVD come prima scelta, poiché il rivestimento più sottile mantiene la preparazione del tagliente di dimensioni ridotte.

9 Altezza del taglio centrale

- Le tolleranze dell'altezza di taglio sono +/-.005".
- Kennametal consiglia di utilizzare il nostro nuovo kit per l'allineamento dell'altezza del centro. Il kit comprende un magnete, un supporto e un goniometro che può essere montato su un piccolo piano posizionato sul collare di collegamento del bareno regolabile.

10 Evacuazione del truciolo

- L'intasamento e la rimacinazione del truciolo possono causare vibrazioni indesiderate durante la barenatura.
- Utilizzare il refrigerante per far fuoriuscire i trucioli e mantenere refrigerato l'elemento di smorzamento.
- Utilizzare geometrie d'inserto e parametri di taglio che producono trucioli piccoli.
- Il bareno può essere utilizzato capovolto per migliorare l'evacuazione del truciolo.

Consigli di regolazione

- Allentare le due viti di bloccaggio sul bareno.
- Ruotare la vite di regolazione in senso orario fino a quando si blocca e la massa è in posizione di blocco verso il basso.
- A questo punto è possibile regolare il bareno.
- Ruotare la vite di regolazione in senso antiorario a scatti di un quarto di giro per effettuare la regolazione.
- Dopo aver completato la regolazione, serrare le viti bloccaggio.

Procedura di allineamento dell'altezza centrale dei bareni regolabili Kennametal

La seguente procedura guida l'utente lungo il posizionamento nel centro di un bareno regolabile senza l'ausilio di piani sul codolo.

Apparecchiature

- Goniometro digitale
- Supporto del goniometro
- Bareno da utilizzare

Figura 1: Supporto del goniometro (a sinistra) e goniometro digitale (a destra)

Montaggio

- Rimuovere qualsiasi sporcizia, trucioli, detriti, ecc. sulle superfici di fissaggio del goniometro digitale o sulle corrispondenti superfici del supporto del goniometro.
- Montare il goniometro digitale sul suo supporto, assicurandosi che sia a filo della parete posteriore del supporto.

Calibrazione

- Pulire un'area sull'asse X del tornio per creare una superficie di riferimento per la calibrazione.
- Rimuovere qualsiasi traccia di sporcizia, trucioli, detriti, ecc. dal magnete sul fondo del supporto del goniometro.
- Posizionare il gruppo goniometro sull'asse X del tornio.
  - — Tenere il gruppo goniometro parallelo all'asse.
  - — È utile posizionare il gruppo contro la torretta per riuscire a tenerlo parallelo all'asse X.
- Accendere il goniometro digitale premendo il tasto on/off.
- Azzerare il goniometro digitale premendo il tasto zero.

NOTA: A questo punto il goniometro è calibrato sull'asse X del tornio e misura gli angoli rispetto a questo asse.

Figura 2: Calibrazione dell'asse X

Allineamento del bareno

- Con il bareno già inserito nel portautensili e regolato alla sporgenza corretta, pulire qualsiasi traccia di sporcizia, trucioli, detriti, ecc. dal piccolo piano sul collare del bareno.
- Posizionare il gruppo goniometro sul bareno allineando il piccolo magnete sul fondo del gruppo al piccolo piano sul collare del bareno.
  - — Assicurarsi che il gruppo goniometro sia perpendicolare all'asse del bareno.
  - — Assicurarsi che il gruppo goniometro sia orientato nella stessa direzione che aveva durante la calibrazione dell'asse X del tornio.

Figura 3: Piano sul collare del bareno

- Ruotare il bareno finché il goniometro digitale non legge zero gradi.

Figura 4: Allineamento del bareno

- Serrare il portautensili del bareno per bloccarne la posizione.
  - — Assicurarsi che il goniometro digitale legga ancora zero gradi dopo aver bloccato il bareno.
- A questo punto il bareno deve trovarsi sul centro.

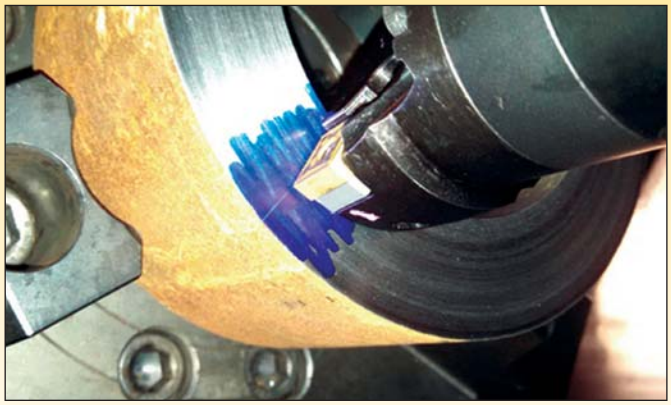
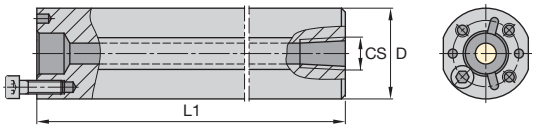


Figura 5: Altezza centrale del bareno

Ordinare il kit per l'allineamento dell'altezza del centro Kennametal

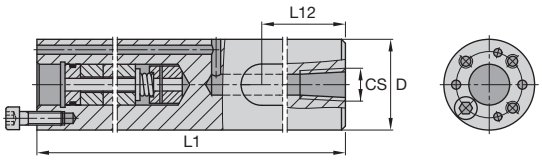
Il kit per l'allineamento dell'altezza del centro è ordinabile. Utilizzare il numero ordine 6141867 o il codice di catalogo KIT-BB-AF.



Codolo in acciaio con refrigerante interno.
Rapporto di lunghezza max. 4:1.

BS

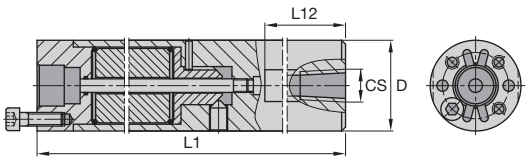
numero d'ordine	codice catalogo	D	L1	CS	3 viti bloccaggio	vite	hex
1098078	**BS32S**	32	210	RP3/8	**MS412**	**MS330**	4 mm
1098079	**BS40T**	40	260	RP3/8	**MS412**	**MS330**	4 mm
1098080	**BS50U**	50	310	RP3/8	**MS337**	**MS339**	5 mm



Codolo in acciaio antivibrante con adduzione interna di refrigerante.
Rapporto di lunghezza max. 6:1.

BSD

numero d'ordine	codice catalogo	D	L1	CS	L12	L1 min	3 viti bloccaggio	vite	hex
1098150	**BSD32U**	32	310	RP3/8	200	200	**MS330**	**MS412**	4 mm
1098151	**BSD40V**	40	360	RP3/8	248	228	**MS330**	**MS412**	4 mm
1098152	**BSD50W**	50	410	RP3/8	280	276	**MS339**	**MS337**	5 mm

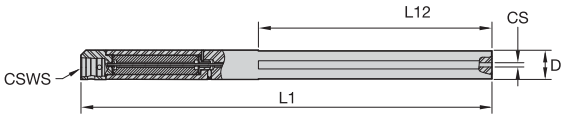


Codolo in acciaio regolabile con adduzione interna di refrigerante.

D...TTB

numero d'ordine	codice catalogo	D	L1	CS	L12	L1 min	3 viti bloccaggio	vite	hex
1772222	**D25MTTB400**	25	381	RP1/4	203	227	**MS1499**	**MS319**	3 mm
1772223	**D32MTTB447**	32	422	RP3/8	267	332	**MS325**	**MS1130**	4 mm
1772224	**D40MTTB530**	40	492	RP3/8	305	300	**MS326**	**MS330**	4 mm
1772230	**D50MTTB700**	50	670	RP3/8	470	309	**MS337**	**MS337**	5 mm

KM™ QUICK CHANGE

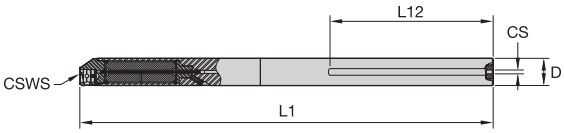


Codolo in acciaio regolabile con adduzione interna di refrigerante e unità di bloccaggio anteriore KM™.

D...TTB-KM • Sistema metrico

numero d'ordine	codice catalogo	D	L1	CS	L12	L1 min	CSWS dimensione sistema frontale
3637636	**D40MTTB560KM40**	40	520	RP 3/8-19	305	330	KM40
3637637	**D50MTTB737KM40**	50	697	RP 3/8-19	470	337	KM40
3637638	**D60MTTB1000KM40**	60	976	RP 3/8-19	686	396	KM40
3642134	**D80MTTB1120KM63**	80	1060	RP 3/8-19	610	560	KM63
3642135	**D100MTTB1330KM63**	100	1384	RP 3/8-19	622	695	KM63

KM™ QUICK CHANGE



Bareno in metallo duro regolabile con sistema a cambio rapido KM.

G-TTB-KM

numero d'ordine	codice catalogo	D	L1	CS	L12	CSWS dimensione sistema frontale
3954298	**G50MTTB1026KM40**	50	986	RP 3/8-19	300	KM40
3954300	**G80MTTB1564KM63**	80	1504	RP 3/8-19	480	KM63

KENNAMETAL®

Scanalatura e troncatura

Beyond Evolution • Scanalatura, tornitura e troncatura **C2–C77**

Linee guida per l'applicazione C76–C77

A4 Scanalatura e tornitura **C78–C135**

Top Notch • Scanalatura poco profonda **C136–C179**

Linee guida per l'applicazione C172–C179

Lavorare diventa **EASY**

beyond™ EVOLUTION™

La vostra giornata diventa EASY

Scegliere l'utensile giusto può essere complicato e richiedere molto tempo. Abbiamo ideato un nuovo utensile basato sulla semplicità che rende EASY la vita di chi opera sulla macchina.

Senza dover sacrificare le prestazioni o la gamma di applicazioni, Kennametal presenta Beyond™ Evolution™.

Beyond™ Evolution™ è il nuovo utensile per scanalatura e troncatura unilaterale in grado di eseguire anche operazioni di tornitura multidirezionale.

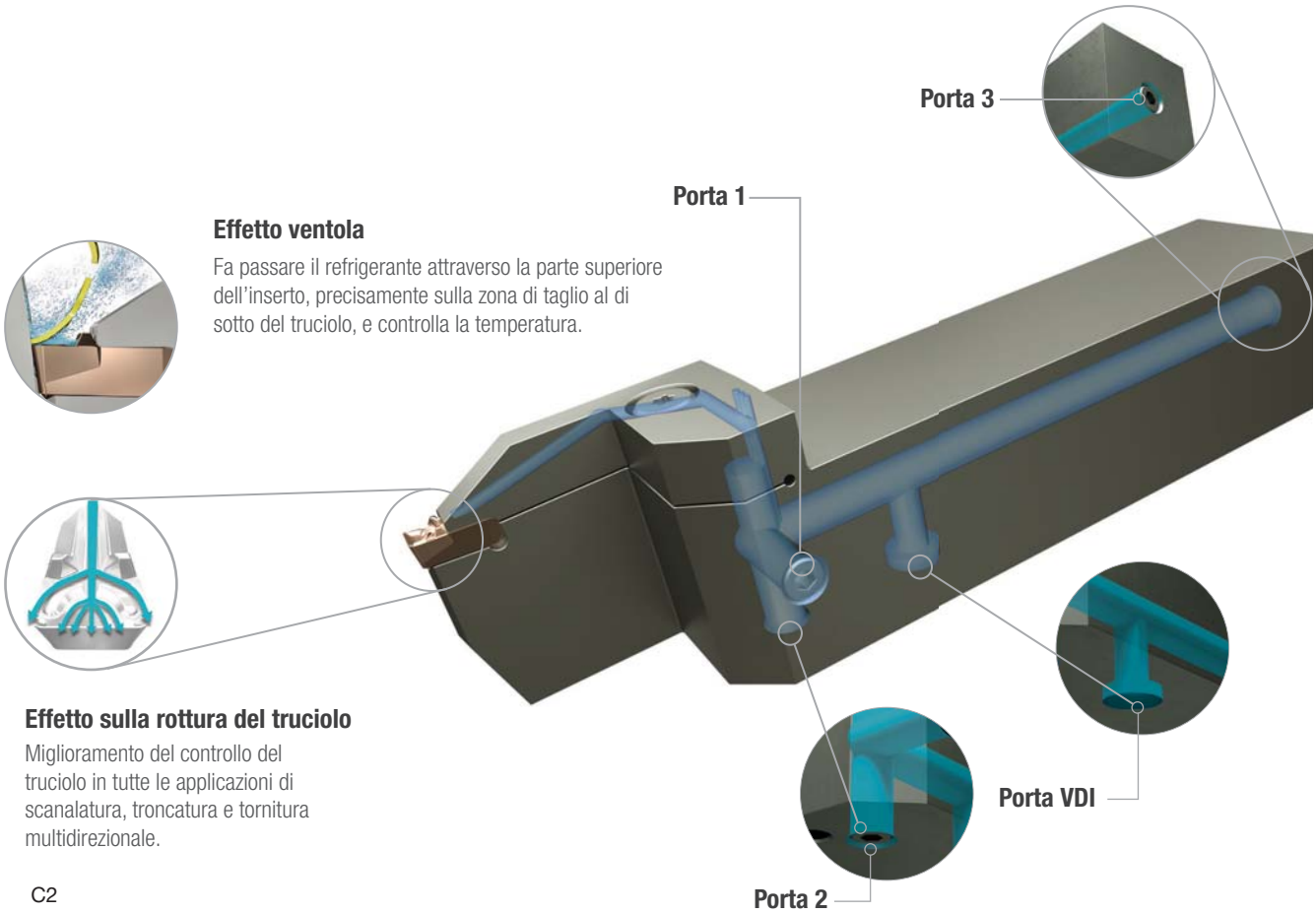
- Scanalatura frontale
- Tornitura laterale
- Scanalatura
- Smussatura
- Scanalatura profonda
- Profilatura
- Troncatura
- Spianatura

La produttività diventa EASY

Controllo attivo del refrigerante

Le modalità di adduzione del refrigerante convenzionali presenti sul mercato spesso applicano sul tagliente più calore del necessario. Questo riduce la durata dell'utensile e aumenta il tempo ciclo.

Con Beyond™ Evolution™, non dovrete cambiare l'attrezzamento esistente. Sia con sistemi di adduzione di refrigerante ad alta pressione che con sistemi a bassa pressione, Beyond™ Evolution™, grazie al controllo attivo del refrigerante, garantisce una durata dell'utensile superiore e un maggiore volume di truciolo asportato.



Effetto ventola

Fa passare il refrigerante attraverso la parte superiore dell'inserto, precisamente sulla zona di taglio al di sotto del truciolo, e controlla la temperatura.

Effetto sulla rottura del truciolo

Miglioramento del controllo del truciolo in tutte le applicazioni di scanalatura, troncatura e tornitura multidirezionale.

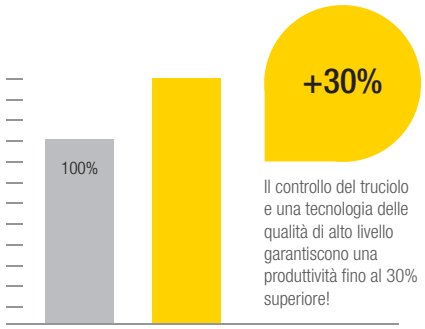
La finitura superficiale omogenea diventa **EASY**

Sede tripla V

Problema: I sistemi di scanalatura e troncatura unilaterale tradizionali non sono in grado di offrire una finitura superficiale omogenea a causa della mancanza di stabilità.

Soluzione: La nuova sede tripla V esclusiva Beyond™ Evolution™ offre stabilità funzionale e vibrazioni ridotte al minimo.

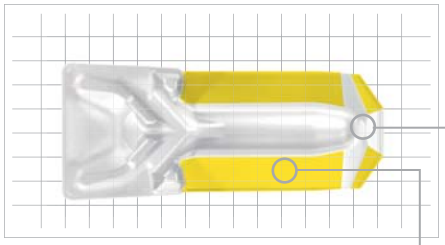
Tre superfici di contatto garantiscono una stabilità impareggiabile: In combinazione con i rompitruciolo GUP e CF, la sede tripla V offre una finitura superficiale eccellente.



Il controllo del truciolo e una tecnologia delle qualità di alto livello garantiscono una produttività fino al 30% superiore!

Risparmiare diventa **EASY**

La gamma Beyond™ Evolution™, con il controllo attivo del refrigerante, la sede tripla V e le qualità Beyond™ Drive™ con tecnologia di identificazione dell'usura, offre una maggiore durata dell'utensile, massima stabilità e un maggiore volume di truciolo asportato, per una produttività fino al 30% superiore.

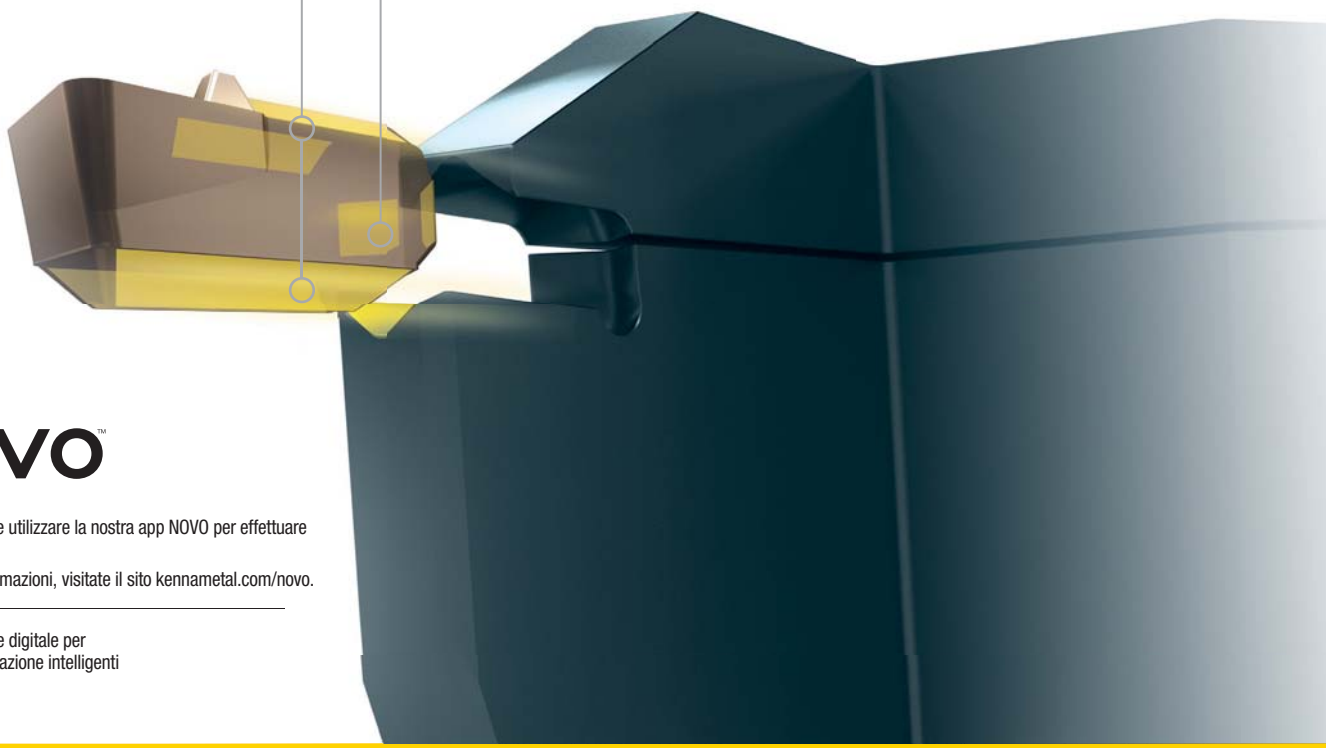


Forma posteriore a V

Stabilità del carico senza pari nelle applicazioni di scanalatura, troncatura e tornitura multidirezionale.

V superiore e inferiore

Posizionamento preciso e sicuro dell'inserto per una rigidità e una precisione dimensionale maggiori.



NOVO™

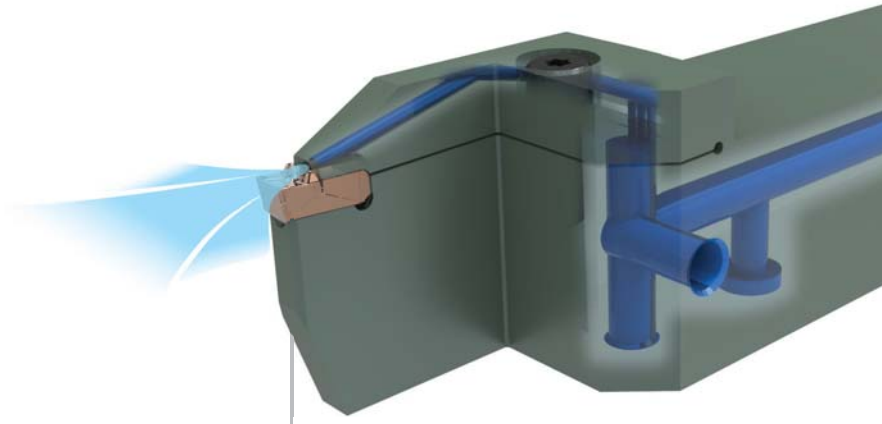
È anche possibile utilizzare la nostra app NOVO per effettuare la scelta giusta!

Per ulteriori informazioni, visitate il sito kennametal.com/novo.

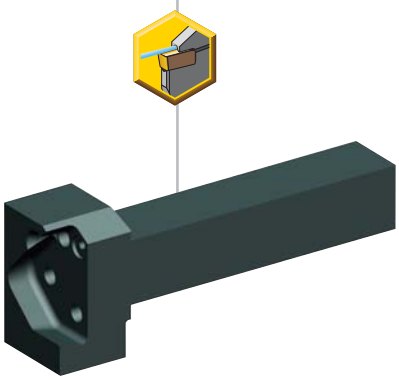
NOVO: Il fornitore digitale per soluzioni di lavorazione intelligenti

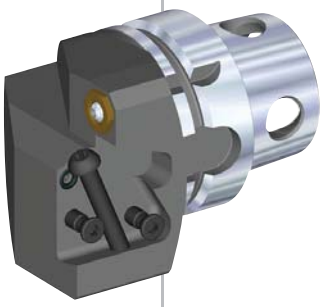
La vostra giornata diventa **EASY** —

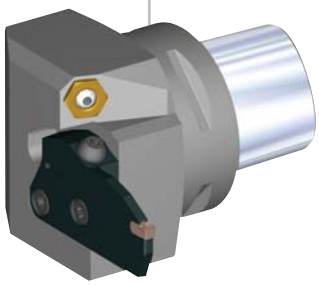
Adduzione del refrigerante efficiente. Disponibile nelle dimensioni sede 3 e superiori.

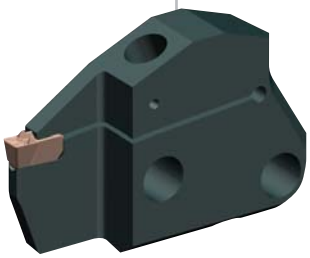


Modulare con adduzione interna di refrigerante



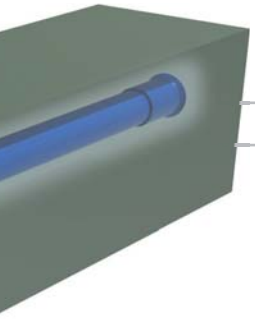






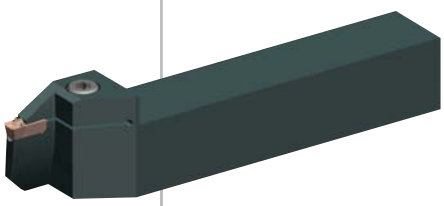
beyond™ EVOLUTION™

sistema ad alte prestazioni.

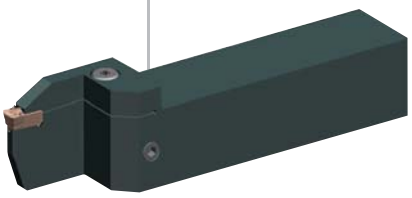


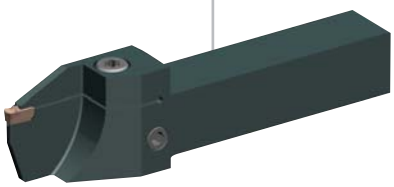
Scanalatura frontale
con adduzione
interna di refrigerante

Bareno per
diametro interno

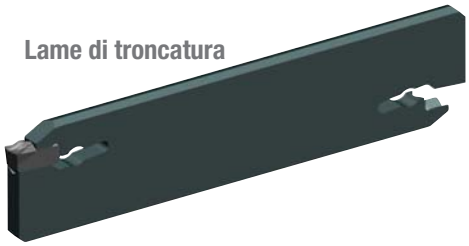


Codolo quadro
con adduzione interna di refrigerante





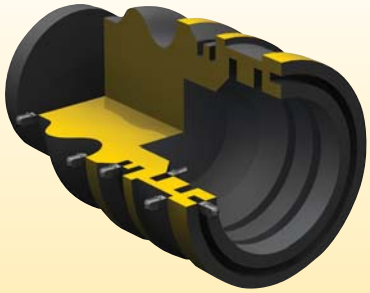
Lame di troncatura



Passo 1 • Identificare l'applicazione di scanalatura o troncatura

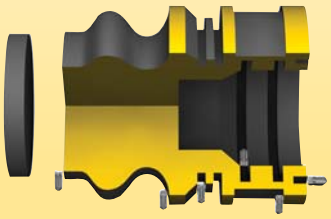
Da sapere:

- Profondità, larghezza e profilo di scanalatura.
- Materiale da lavorare.
- Applicazione da eseguire (scanalatura interna e esterna, tornitura, scanalatura frontale e troncatura).
- Requisiti dimensionali del codolo della macchina.



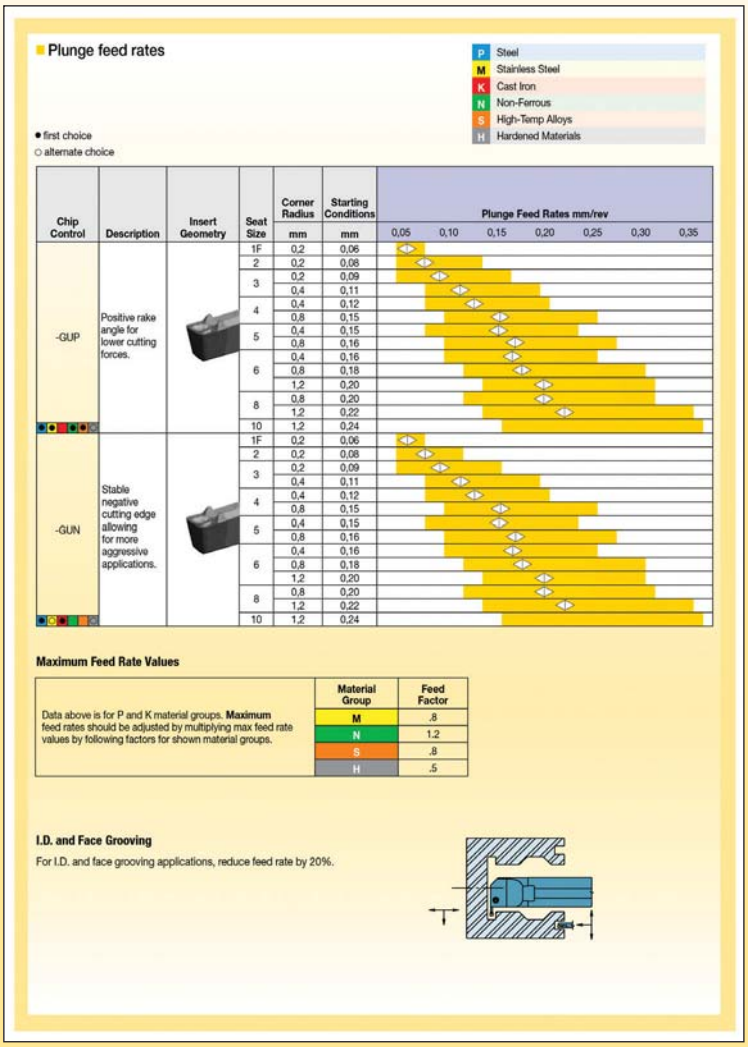
Consiglio generale per la selezione della dimensione dell'inserto

Diametro pezzo	Dimensione della sede dell'inserto
<25mm	3
25–50mm	4
>50mm	5–10



Passo 2 • Selezionare il tipo di rompitruciolo e la velocità di avanzamento

A seconda dell'applicazione e della dimensione della sede, determinare la geometria e la velocità di avanzamento consigliate.



Plunge feed rates

- P Steel
- M Stainless Steel
- K Cast Iron
- N Non-Ferrous
- S High-Temp Alloys
- H Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius mm	Starting Conditions mm
-GUP	Positive rake angle for lower cutting forces.		1F	0,2	0,06
			2	0,2	0,08
			3	0,2	0,09
				0,4	0,11
			4	0,4	0,12
				0,8	0,15
			5	0,4	0,15
				0,8	0,16
			6	0,4	0,16
				0,8	0,18
				1,2	0,20
			8	0,8	0,20
				1,2	0,22
			10	1,2	0,24
-GUN	Stable negative cutting edge allowing for more aggressive applications.		1F	0,2	0,06
			2	0,2	0,08
			3	0,2	0,09
				0,4	0,11
			4	0,4	0,12
				0,8	0,15
			5	0,4	0,15
				0,8	0,16
			6	0,4	0,16
				0,8	0,18
				1,2	0,20
			8	0,8	0,20
				1,2	0,22
			10	1,2	0,24

Plunge Feed Rates mm/rev: 0,05 0,10 0,15 0,20 0,25 0,30 0,35

Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	1.2
S	.8
H	.5

I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.

Passo 3 • Selezionare la qualità e la velocità iniziale

In base al materiale e alla qualità, identificare la velocità iniziale (vc). La prima scelta è in **grassetto**.

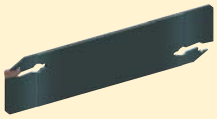
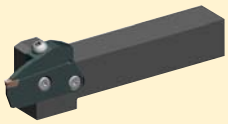
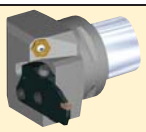
A In base al gruppo e alla qualità del materiale, identificare la velocità iniziale (Vc).
B La velocità iniziale della prima scelta è in **grassetto.**

Recommended Starting Speeds [m/min]

Material Group		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			A
P	0–1	–	–	–	140	**280**	350	110	**225**	270	90	**180**	213	185	**400**	450	145	**290**	365	
	2	–	–	–	140	**200**	300	110	**160**	260	90	**130**	155	185	**270**	350	145	**200**	305	
	3	–	–	–	140	**155**	245	110	**125**	235	90	**100**	155	170	**190**	260	140	**155**	245	
	4	–	–	–	75	**110**	170	60	**90**	160	50	**70**	110	90	**145**	200	75	**110**	180	
	5	–	–	–	120	**200**	260	100	**160**	210	80	**130**	165	150	**220**	305	120	**200**	270	
	6	–	–	–	110	**150**	230	85	**120**	185	70	**100**	145	120	**180**	275	110	**150**	230	
M	1	60	**90**	120	140	**210**	280	90	**170**	245	75	**120**	135	–	–	–	–	–	–	
	2	45	**75**	110	120	**200**	245	90	**150**	245	75	**110**	135	–	–	B –	–	–	–	
	3	35	**65**	100	120	**180**	245	90	**140**	210	75	**90**	135	–	–	–	–	–	–	
K	1	30	**75**	120	120	**180**	245	100	**145**	225	–	–	–	170	**245**	440	140	**200**	360	
	2	25	**70**	110	90	**150**	240	70	**120**	170	–	–	–	120	**195**	340	100	**160**	280	
	3	20	**60**	90	60	**110**	150	50	**85**	120	–	–	–	120	**170**	270	100	**140**	220	
	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	

Passo 4 • Selezionare il portautensili in base all'applicazione

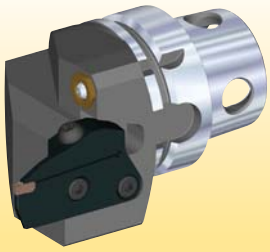
Scegliere il portautensili ad alte prestazioni a seconda dell'applicazione di scanalatura e troncatura specifica, con la dimensione della sede corrispondente.

Tipo		Applicazione
	Bareno	• Per le applicazioni di scanalatura interna.
	**Lama di troncatura**	• Permette all'operatore di variare la profondità di taglio.
	Portautensili — Integrale	• Offre la stabilità migliore rispetto ad altri tipi.
	**Portautensili — Lame**	• Lame intercambiabili per la massima versatilità.
	KM™ — KM4X™ modulare — Lame	• Migliore piattaforma a cambio rapido KM.
	**PSC — Lame**	• Il sistema modulare nella piattaforma a cambio rapido PSC.

Passo 5 • Selezionare l'inserto e il portautensili dalla pagina del catalogo

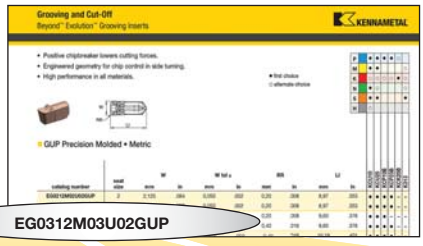
Congratulazioni!

È stato possibile massimizzare la produttività selezionando la geometria di inserto, la qualità e le specifiche di taglio migliori per l'applicazione!



Come utilizzare i codici del catalogo

Ciascun numero e carattere del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



EG0312M03U02GUP

E	G	0312	M	03	U	02	GUP
Nome gruppo di prodotti	Tipo di inserto	Larghezza di scanalatura	Unità	Dimensione della sede	Tolleranza	Raggio di punta	Condizione del rompitruciolo/tagliente
Beyond™ Evolution™	**G** = Quadro **R** = Raggio completo	**Sistema metrico** = centesimi di mm **Pollici** = 1/1000"	**M** = Sistema metrico **I** = Pollici		**U** = Stampato di precisione **P** = Rettificato di precisione		**GUP** = Positivo universale per scanalatura e tornitura **GUN** = Negativo universale per scanalatura e tornitura **FB** = Spoglia superiore piana grezza **PB** = Controllo del truciolo positivo grezzo

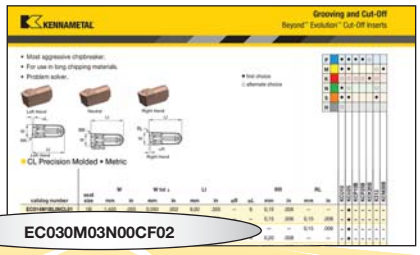
dimensioni sede	Larghezza di scanalatura mm	Larghezza di scanalatura Pollici
1B	1,40	.055
1F	1,60–1,99	0.063–0.078
02	2,00–2,99	0.079–0.117
03	3,00–3,99	0.118–0.156
04	4,00–4,99	0.157–0.196
05	5,00–5,99	0.197–0.235
06	6,00–7,99	0.236–0.314
08	8,00–8,99	0.315–0.353
10	9,00–10,12	0.354–0.398

*.312 = dimensione della sede 08

mm	
00	Raggio completo
01	0,1
02	0,2
04	0,4
08	0,8
12	1,2

Pollici	
00	Raggio completo
05	.008
1	.016
2	.032
3	.047

Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.



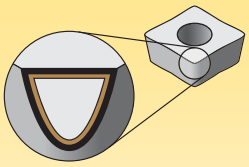
EC030M03N00CF02

E	C	030	M	03	N	00	CF	02
Nome gruppo di prodotti	Tipo di inserto	Larghezza del tagliente	Unità	Dimensione della sede	Lato dell'inserto	Angolo di attacco	Rompitruciolo	Raggio di punta
Beyond™ Evolution™	**C** = Troncatura		**M** = Sistema metrico **I** = Pollici		**N** = Neutro **L** = Sinistro **R** = Destro	**00** = Neutro **06** = 6°	**CL** = Troncatura ad avanzamento basso **CF** = Troncatura fine **CM** = Troncatura media **CR** = Troncatura di sgrossatura	

Larghezza del tagliente	mm	Pollici
014	1,4	.055
020	2,0	.079
030	3,0	.118
040	4,0	.157
050	5,0	.197
060	6,0	.236
070	7,0	.279
080	8,0	.315

dimen-sioni sede	mm	Pollici
1B	1,4	.055
1F	2,0	.079
02	3,0	.118
03	4,0	.157
04	5,0	.197
05	6,0	.236
06	7,0	.279
08	8,0	.315

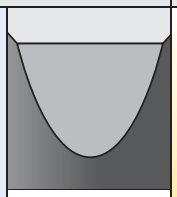
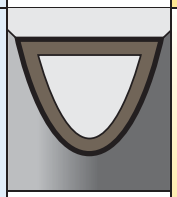
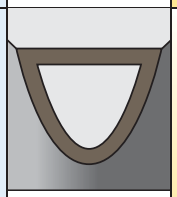
Raggio di punta	mm	Pollici
01	0,1	.004
02	0,2	.008
04	0,4	.016

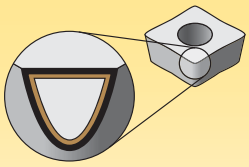


I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ tenacità

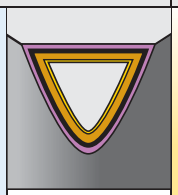
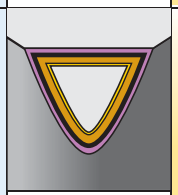
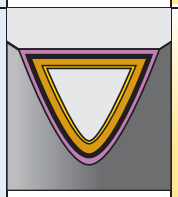
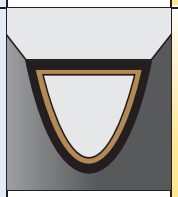
Qualità	Rivestimento	Descrizione delle qualità		05	10	15	20	25	30	35	40	45
K313	 —	**Composizione:** Qualità dura WC/Co a grana fine non legata a basso contenuto di legante. **Applicazione:** Eccezionale resistenza all'usura del tagliente con un'altissima resistenza per le lavorazioni di titanio, ghise, acciai inossidabili austenitici, metalli non ferrosi, non metalli e la maggior parte delle leghe resistenti al calore. Resistenza superiore alla deformazione termica e all'usura ad intaglio. La struttura con grani è ben controllata per ottenere un numero minimo di cavità e difetti, in modo da contribuire a un servizio lungo e affidabile.										
			M									
			K									
			N									
			S									
			beyond									
KCU10	 —	**Composizione:** Un rivestimento multistrato in PVD avanzato su un substrato in metallo duro non legato estremamente resistente alle deformazioni. Il nuovo rivestimento migliorato aumenta la stabilità del tagliente per ampie gamme di velocità e avanzamenti. **Applicazione:** La qualità KCU10™ è ideale per operazioni che vanno dalla finitura alla lavorazione generale della maggior parte dei materiali per una vasta gamma di velocità e avanzamenti. Perfetta per la lavorazione della maggior parte degli acciai, degli acciai inossidabili, delle ghise, dei materiali non ferrosi e delle superleghe con tenacità del tagliente migliorata e elevate velocità di taglio e avanzamenti.	P									
			M									
			K									
			N									
			S									
			H									
			beyond									
KCU25	 —	**Composizione:** Qualità PVD avanzata con rivestimento duro in AlTiN e substrato non legato a grana fine. Il nuovo rivestimento migliorato aumenta la stabilità del tagliente per ampie gamme di velocità e avanzamenti. **Applicazione:** La qualità KCU25™ è ideale per la lavorazione generale della maggior parte degli acciai, acciai inossidabili, leghe resistenti al calore, titanio, ghise e materiali non ferrosi, per un'ampia gamma di velocità e avanzamenti, con un miglioramento della tenacità del tagliente per tagli interrotti e elevate velocità di avanzamento.	P									
			M									
			K									
			N									
			S									
			beyond DRIVE™									



I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

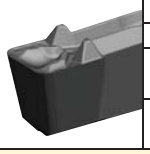
Qualità in metallo duro con rivestimento CVD

Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
				resistenza all'usura ←						→ tenacità		
KCP10B	 —	**Composizione:** Qualità in metallo duro progettata specificamente resistente all'usura in MTCVD-TiCN-Al_2O_3-TiOCN multistrato di nuova progettazione, con una perfetta adesione tra gli strati. **Applicazione:** Ottima qualità per applicazioni dalla finitura alla lavorazione media di una vasta gamma di materiali, compresi la maggior parte degli acciai, degli acciai inossidabili ferritici, martensitici e a indurimento per precipitazione (PH) e delle ghise. Il substrato arricchito al cobalto offre una combinazione bilanciata di resistenza alla deformazione e tenacità del tagliente, mentre lo spessore del rivestimento offre un'eccezionale resistenza alle abrasioni e all'usura a crateri durante le lavorazioni ad alta velocità. Il rivestimento liscio offre resistenza al tagliente di riporto e alle microscheggiature e produce eccellenti finiture superficiali.	P									
			K									
			beyond DRIVE									
KCP25B	 —	**Composizione:** Qualità in metallo duro arricchito al cobalto molto tenace con rivestimento in MTCVD-TiCN-Al_2O_3-TiOCN multistrato di nuova progettazione, con una perfetta adesione tra gli strati. **Applicazione:** Migliore qualità di tornitura per utilizzo generale per la lavorazione della maggior parte degli acciai e degli acciai inossidabili ferritici e martensitici. La struttura del substrato garantisce un'adeguata resistenza alla deformazione e un'eccellente resistenza del tagliente dell'inserto. Gli strati del rivestimento offrono una buona resistenza all'usura su una vasta gamma di condizioni di lavorazione, mentre il trattamento post-rivestimento riduce la microscheggiatura (migliorando al contempo l'adesione del substrato) per una maggiore durata dell'utensile e migliori risultati finali.	P									
			K									
			beyond DRIVE									
KCK20B	 —	**Composizione:** Rivestimento multistrato con spessi strati in MTCVD TiCn-Al_2O_3-TiOCN applicato su un substrato in metallo duro progettato specificamente per le ghise. **Applicazione:** Offre prestazioni costanti nella lavorazione ad alta velocità di ghise grigie e sferoidali. La struttura del substrato permette all'inserto lunghi tempi di contatto e ad alte velocità, minimizzando le deformazioni. Lo spesso rivestimento in CVD e il trattamento post-rivestimento aumentano la resistenza all'usura, garantendo una durata dell'utensile lunga e costante. Può essere utilizzato nei tagli continui e nei tagli lievemente interrotti.	P									
			K									
			beyond DRIVE									
KCM35B	 —	**Composizione:** Rivestimento TiN-MT-TiCN-Al_2O_3-TiOCN CVD multistrato su un substrato con elevate caratteristiche di durezza. **Applicazione:** KCM35B è un'ottima qualità per applicazioni di uso generico e sgrossatura, per la lavorazione di acciai inossidabili e per la sgrossatura di acciai nelle applicazioni di tornitura e troncatura. Il substrato offre una migliore tenacità, mentre lo spessore del rivestimento offre una maggiore resistenza alle abrasioni e una maggiore affidabilità a temperature di taglio elevate, oltre all'identificazione dell'usura. La lucidatura superficiale migliora la tenacità del tagliente e offre una superficie esterna liscia che permette di ridurre le forze e resistere alla formazione di taglienti di riporto anche a velocità di taglio basse. La qualità è disponibile in diverse dimensioni e geometrie adatte a velocità di avanzamento maggiori e a grandi profondità di taglio.	P									
			M									
			S									
			beyond DRIVE									

Selezionare la geometria

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

● prima scelta
○ scelta alternativa

Controllo del truciolo	descrizione	Geometria dell'inserto	dimen-sioni sede	Raggio di punta in (mm)	condizioni iniziali in (mm)	Velocità dell'avanzamento a tuffo mm/rev .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)
-GUP	Angolo di spoglia positivo per forze di taglio ridotte.		1F	.008 (0,2)	.0024 (0,06)						
			2	.008 (0,2)	.0031 (0,08)						
			3	.008 (0,2)	.0035 (0,09)						
				.016 (0,4)	.0043 (0,11)						
			4	.016 (0,4)	.0047 (0,12)						
				.031 (0,8)	.0059 (0,15)						

Velocità di avanzamento iniziale consigliata

Disegno dell'inserto

Raggio di punta

Velocità dell'avanzamento a tuffo

Dimensione della sede

Campo velocità di avanzamento consigliato

Principali Gruppi di materiali del pezzo

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

● prima scelta
○ scelta alternativa

Definizione geometria rompitruciolo

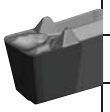
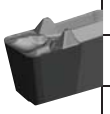
Valori massimi della velocità di avanzamento

	Gruppo materiali	coefficiente di correzione fz
I dati riportati sono per i gruppi di materiali P e K. Le velocità di avanzamento **massime** devono essere regolate moltiplicando i valori delle velocità di avanzamento massime per i seguenti fattori a seconda dei gruppi di materiali indicati.	M	.8
	N	1.2
	S	.8
	H	.5

Velocità dell'avanzamento a tuffo

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

● prima scelta
○ scelta alternativa

Controllo del truciolo	descrizione	Geometria dell'inserto	dimen-sioni sede	Raggio di punta mm	condizioni iniziali mm	Velocità dell'avanzamento a tuffo mm/giro (0,05 – 0,35)
-GUP	Angolo di spoglia positivo per forze di taglio ridotte.		1F	0,2	0,06	
			2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,8	0,20	
				1,2	0,22	
●●●●●○			10	1,2	0,24	
-GUN	Tagliente negativo stabile che permette applicazioni più impegnative.		1F	0,2	0,06	
			2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,8	0,20	
				1,2	0,22	
●○●●○○			10	1,2	0,24	

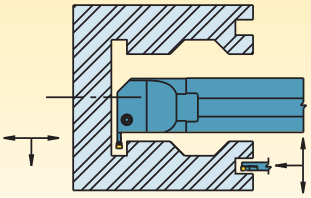
Valori massimi della velocità di avanzamento

I dati riportati sono per i gruppi di materiali P e K. Le velocità di avanzamento massime devono essere regolate moltiplicando i valori delle velocità di avanzamento massime per i seguenti fattori a seconda dei gruppi di materiali indicati.

Gruppo materiali	coefficiente di correzione fz
M	.8
N	1.2
S	.8
H	.5

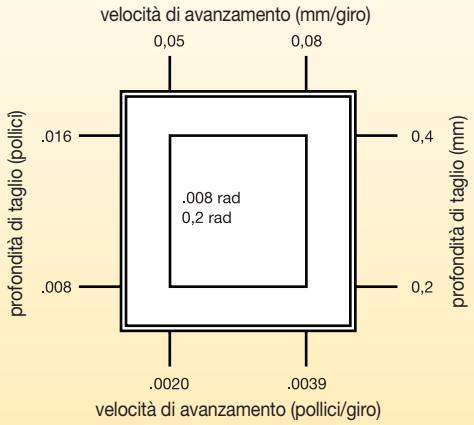
Scanalatura diam. int. e frontale

Per le applicazioni di scanalatura diam. int. e frontale, ridurre la velocità di avanzamento del 20%.

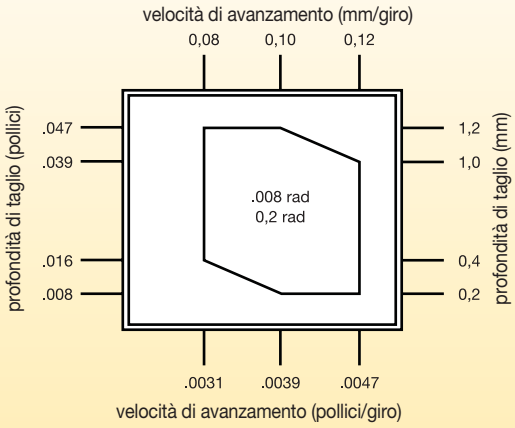


Velocità di avanzamento per tornitura e profilatura

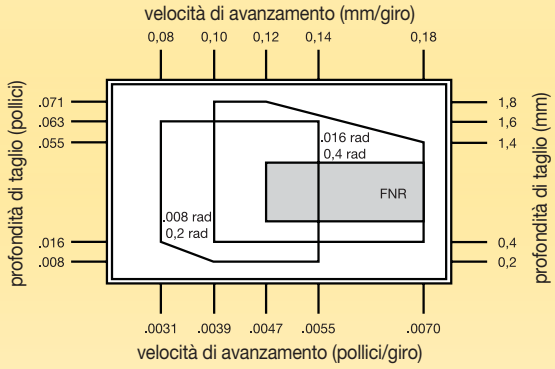
Dimensione della sede 1F



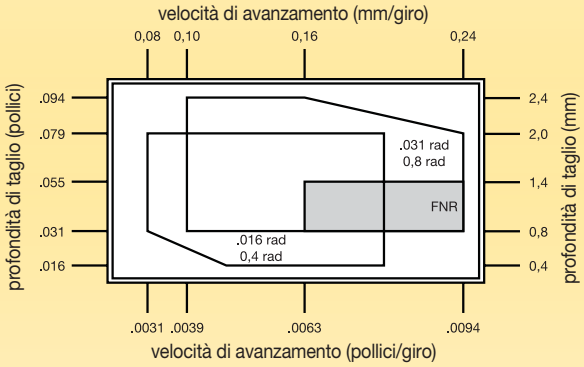
Dimensione della sede 2



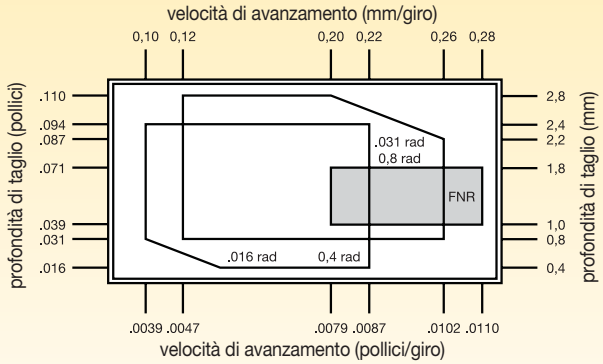
Dimensione della sede 3



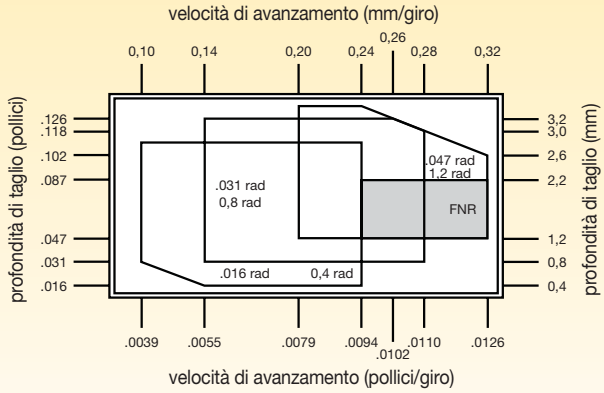
Dimensione della sede 4



Dimensione della sede 5



Dimensione della sede 6

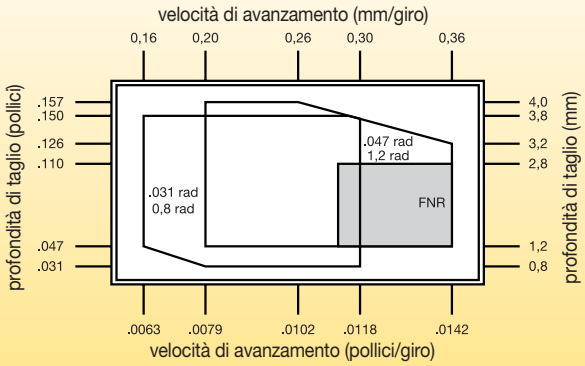


* FNR = raggio di punta

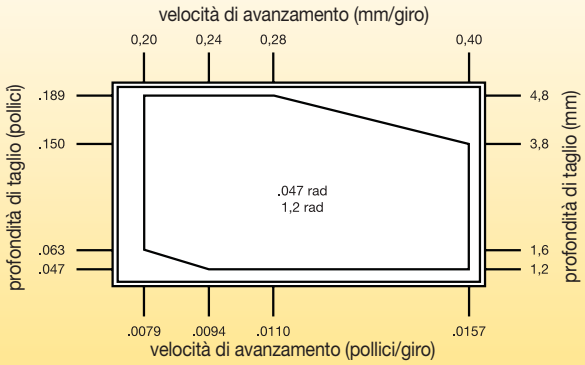
(continua)

(Velocità di avanzamento per tornitura e pro latura — continua)

Dimensione della sede 8



Dimensione della sede 10

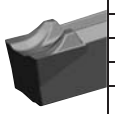
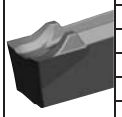
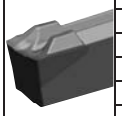
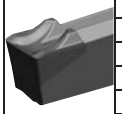


Velocità di avanzamento per troncatura

Velocità dell'avanzamento a tuffo

● prima scelta
○ scelta alternativa

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

Geometria	descrizione	Geometria dell'inserto	dimensioni sede	condizioni iniziali mm	Velocità di avanzamento per troncatura mm/giro (0,05 – 0,40)
-CL	Geometria impegnativa per trucioli difficili.		1B	0,06	
			2	0,07	
			3	0,08	
			4	0,09	
-CF	Geometria positiva per forze di taglio ridotte.		1B	0,06	
			2	0,07	
			3	0,09	
			4	0,11	
			5	0,13	
-CM	Tagliente stabile per velocità di avanzamento impegnative. Principalmente per la ghisa.		1B	0,06	
			2	0,07	
			3	0,09	
			4	0,11	
			5	0,14	
			6	0,16	
			8	0,14	
-CR	Tagliente più stabile per l'acciaio.		2	0,10	
			3	0,14	
			4	0,16	
			5	0,19	
			6	0,21	
			8	0,23	

NOTA: Per gli inserti di troncatura con angolo di registrazione, la velocità di avanzamento massima deve essere ridotta fino al 40%.

Valori massimi della velocità di avanzamento

I dati riportati sono per i gruppi di materiali P e K. Le velocità di avanzamento **massime** devono essere regolate moltiplicando i valori delle velocità di avanzamento massime per i seguenti fattori a seconda dei gruppi di materiali indicati.

Gruppo materiali	coefficiente di correzione fz
M	.8
N	1.2
S	.8
H	.5

Velocità iniziali consigliate [m/min]

Gruppo materiali		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			KCK20B		
P	0–1	–	–	–	140	**280**	350	110	**225**	270	90	**180**	213	185	**400**	450	145	**290**	365	200	**440**	490
	2	–	–	–	140	**200**	300	110	**160**	260	90	**130**	155	185	**270**	350	145	**200**	305	200	**300**	380
	3	–	–	–	140	**155**	245	110	**125**	235	90	**100**	155	170	**190**	260	140	**155**	245	600	**200**	280
	4	–	–	–	75	**110**	170	60	**90**	160	50	**70**	110	90	**145**	200	75	**110**	180	100	**160**	220
	5	–	–	–	120	**200**	260	100	**160**	210	80	**130**	165	150	**220**	305	120	**200**	270	165	**240**	330
	6	–	–	–	110	**150**	230	85	**120**	185	70	**100**	145	120	**180**	275	110	**150**	230	130	**190**	300
M	1	60	**90**	120	140	**210**	280	90	**170**	245	75	**120**	135	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	75	**110**	135	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	75	**90**	135	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	225	–	–	–	170	**245**	440	140	**200**	360	210	**305**	550
	2	25	**70**	110	90	**150**	240	70	**120**	170	–	–	–	120	**195**	340	100	**160**	280	150	**245**	430
	3	20	**60**	90	60	**110**	150	50	**85**	120	–	–	–	120	**170**	270	100	**140**	220	150	**210**	335
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	700	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	8	**35**	60	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	8	**30**	60	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	150	15	**40**	75	15	**35**	60	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	15	**45**	90	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

NOTA: Le velocità iniziali di PRIMA scelta sono in **grassetto**.
Quando lo spessore medio del truciolo aumenta, è necessario diminuire la velocità.

App Mobile

L'applicazione mobile di Kennametal fornisce un facile accesso alle informazioni sui prodotti e ai calcolatori, sia sui device iPhone® che Android™. Abbiamo elencato una serie di funzionalità chiave...

C'è un app per questo.

PARAMETRI DI TAGLIO

Visualizza le informazioni sulle velocità di taglio e gli avanzamenti dei prodotti per l'asportazione truciolo.

DISPONIBILITA' DEI PRODOTTI

Verifica la disponibilità globale dei prodotti. Visualizza le quantità disponibili utilizzando le credenziali dell'account Konnect.

CALCOLATORI

Utilizza i nostri calcolatori per le applicazioni di fresatura e foratura.

Scansionando semplicemente il codice a barre sulla confezione degli inserti è possibile trovare i parametri di taglio più produttivi per la miglior vita utensile, i tempi della lavorazione e le informazioni sul campo di controllo truciolo.

NOTA: l'applicazione è al momento disponibile solo nella versione in lingua inglese. Sono pianificati per il futuro il rilascio di successivi aggiornamenti per la versione tradotta in lingua locale.

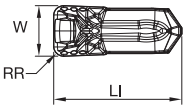
Google play

Available on the App Store

- Il rompitruciolo positivo riduce le forze di taglio.
- Geometria specializzata per il controllo del truciolo nella tornitura laterale.
- Prestazioni elevate su tutti i materiali.

● prima scelta
○ scelta alternativa

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



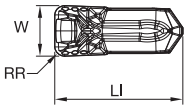
GUP Stampato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0212M02U02GUP	2	2,125	0,050	0,20	8,97	●	●	●	●	–	–	–
EG0251M02U02GUP	2	2,511	0,050	0,20	8,97	●	●	●	●	–	–	–
EG0312M03U02GUP	3	3,125	0,075	0,20	9,60	●	●	●	–	–	–	–
EG0312M03U04GUP	3	3,125	0,075	0,40	9,60	●	●	●	●	–	–	–
EG0412M04U04GUP	4	4,125	0,075	0,40	10,19	●	●	●	●	–	–	–
EG0412M04U08GUP	4	4,125	0,075	0,80	10,19	●	●	●	●	–	–	–
EG0512M05U04GUP	5	5,125	0,075	0,40	12,25	●	●	●	●	–	–	–
EG0512M05U08GUP	5	5,125	0,075	0,80	12,25	●	●	●	●	–	–	–
EG0612M06U04GUP	6	6,125	0,075	0,40	14,60	●	●	●	●	–	–	–
EG0612M06U08GUP	6	6,125	0,075	0,80	14,60	●	●	●	●	–	–	–
EG0712M06U08GUP	6	7,125	0,075	0,80	14,60	●	●	●	●	–	–	–
EG0812M08U08GUP	8	8,125	0,075	0,80	17,47	●	●	●	●	–	–	–
EG0812M08U12GUP	8	8,125	0,075	1,18	17,45	●	●	●	●	–	–	–
EG1012M10U12GUP	10	10,125	0,075	1,20	20,80	●	●	●	●	–	–	–

- Il rompitruciolo positivo riduce le forze di taglio.
- Geometria specializzata per il controllo del truciolo nella tornitura laterale.
- Prestazioni elevate su tutti i materiali.
- Dimensioni più precise e migliore ripetibilità.

● prima scelta
○ scelta alternativa

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



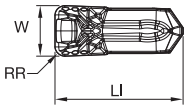
GUP Rettificato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0200M02P02GUP	2	2,000	0,025	0,20	8,80	●	●	–	–	–	–	●
EG0300M03P02GUP	3	3,000	0,025	0,20	9,40	●	●	–	–	–	–	●
EG0300M03P04GUP	3	3,000	0,025	0,40	9,60	●	●	–	–	–	–	●
EG0400M04P04GUP	4	4,000	0,025	0,40	10,10	●	●	–	–	–	–	●
EG0400M04P08GUP	4	4,000	0,025	0,80	10,10	●	●	–	–	–	–	●
EG0500M05P04GUP	5	5,000	0,025	0,40	12,20	●	●	–	–	–	–	●
EG0500M05P08GUP	5	5,000	0,025	0,80	12,20	●	●	–	–	–	–	●
EG0600M06P04GUP	6	6,000	0,025	0,40	14,50	●	●	–	–	–	–	●
EG0600M06P08GUP	6	6,000	0,025	0,80	14,50	●	●	–	–	–	–	●
EG0700M06P08GUP	6	7,000	0,025	0,80	14,50	●	●	–	–	–	–	●
EG0800M08P08GUP	8	8,000	0,025	0,80	17,40	●	●	–	–	–	–	●
EG0800M08P12GUP	8	8,000	0,025	1,20	17,40	●	●	–	–	–	–	●
EG1000M10P12GUP	10	10,000	0,025	1,20	20,70	●	●	–	–	–	–	●

- Il rompitruciolo positivo riduce le forze di taglio.
- Geometria specializzata per il controllo del truciolo nella tornitura laterale.
- Prestazioni elevate su tutti i materiali.

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P	●	●	●	●	○		
M	●	●				●	○
K	○	○	○	○	●		○
N	●	○					●
S	●	●					●
H	○						



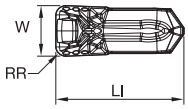
GUP Stampato di precisione • Pollici

codice catalogo	dimensione sede	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG130I03U05GUP	3	3,301	0,075	0,20	9,60	●	●	●	●	–	–	–
EG130I03U1GUP	3	3,301	0,075	0,40	9,60	●	●	●	●	–	–	–
EG192I04U1GUP	4	4,877	0,075	0,40	10,19	●	●	●	●	–	–	–
EG192I04U2GUP	4	4,877	0,075	0,79	10,19	●	●	●	●	–	–	–
EG255I06U1GUP	6	6,478	0,075	0,40	14,58	●	●	●	●	–	–	–
EG255I06U2GUP	6	6,478	0,075	0,80	14,58	●	●	●	●	–	–	–
EG317I08U3GUP	8	8,051	0,075	1,19	17,46	●	●	●	●	–	–	–
EG380I10U3GUP	10	9,651	0,075	1,19	20,80	●	●	●	●	–	–	–

- Il rompitruciolo positivo riduce le forze di taglio.
- Geometria specializzata per il controllo del truciolo nella tornitura laterale.
- Prestazioni elevate su tutti i materiali.
- Dimensioni più precise e migliore ripetibilità.

● prima scelta
○ scelta alternativa

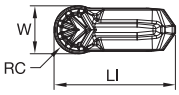
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Rettificato di precisione • Pollici

codice catalogo	dimensione sede	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG063I1FP05GUP	1F	1,600	0,025	0,20	9,00	●	●	–	–	–	–	●
EG094I02P05GUP	2	2,388	0,025	0,20	8,88	●	●	–	–	–	–	●
EG125I03P05GUP	3	3,175	0,025	0,20	9,40	●	●	–	–	–	–	●
EG125I03P1GUP	3	3,175	0,025	0,40	9,40	●	●	–	–	–	–	●
EG187I04P1GUP	4	4,760	0,025	0,40	10,10	●	●	–	–	–	–	●
EG187I04P2GUP	4	4,762	0,025	0,79	10,10	●	●	–	–	–	–	●
EG250I06P1GUP	6	6,350	0,025	0,40	14,50	●	●	–	–	–	–	●
EG250I06P2GUP	6	6,350	0,025	0,80	14,50	●	●	–	–	–	–	●
EG312I08P3GUP	8	7,920	0,025	1,20	17,40	●	●	–	–	–	–	●
EG375I10P3GUP	10	9,525	0,025	1,20	20,70	●	●	–	–	–	–	●

- Prima scelta nella profilatura.
- Tagliente >180°.
- Prestazioni elevate su tutti i materiali.



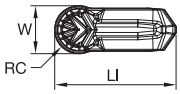
GUP Raggio completo Stampato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0312M03U00GUP	3	3,125	0,075	1,560	9,60	●	●	●	●	–	–	–
ER0412M04U00GUP	4	4,125	0,075	2,060	10,20	●	●	●	●	–	–	–
ER0512M05U00GUP	5	5,125	0,075	2,560	12,20	●	●	●	●	–	–	–
ER0612M06U00GUP	6	6,125	0,075	3,060	14,60	●	●	●	●	–	–	–
ER0812M08U00GUP	8	8,125	0,075	4,060	17,50	●	●	●	●	–	–	–

- Prima scelta nella profilatura.
- Tagliente >180°.
- Prestazioni elevate su tutti i materiali.
- Dimensioni più precise e migliore ripetibilità.

● prima scelta
○ scelta alternativa

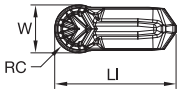
	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P	●	●	●	●	○		
M	●	●				●	○
K	○	○	○	○	●		○
N	●	○					●
S	●	●					●
H	○						



GUP Raggio completo Rettificato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0300M03P00GUP	3	3,000	0,025	1,500	9,50	●	●	–	–	–	–	●
ER0400M04P00GUP	4	4,000	0,025	2,000	10,10	●	●	–	–	–	–	●
ER0500M05P00GUP	5	5,000	0,025	2,500	12,20	●	●	–	–	–	–	●
ER0600M06P00GUP	6	6,000	0,025	3,000	14,50	●	●	–	–	–	–	●
ER0800M08P00GUP	8	8,000	0,025	4,000	17,40	●	●	–	–	–	–	●

- Prima scelta nella profilatura.
- Tagliente >180°.
- Prestazioni elevate su tutti i materiali.



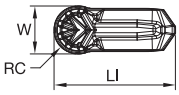
GUP Raggio completo Stampato di precisione • Pollici

codice catalogo	dimensione sede	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER130I03U00GUP	3	3,302	0,075	1,650	9,60	●	●	●	●	–	–	–
ER192I04U00GUP	4	4,878	0,075	2,440	10,20	●	●	●	●	–	–	–
ER255I06U00GUP	6	6,478	0,075	3,240	14,60	●	●	●	●	–	–	–
ER317I08U00GUP	8	8,052	0,075	4,030	17,50	●	●	●	●	–	–	–

- Prima scelta nella profilatura.
- Tagliente >180°.
- Prestazioni elevate su tutti i materiali.
- Dimensioni più precise e migliore ripetibilità.

● prima scelta
○ scelta alternativa

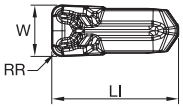
	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P	●	●	●	●	○		
M	●	●				●	○
K	○	○	○	○	●		○
N	●	○					●
S	●	●					●
H	○						



GUP Raggio completo Rettificato di precisione • Pollici

codice catalogo	dimensione sede	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER125I03P00GUP	3	3,175	0,025	1,590	9,50	●	●	–	–	–	–	●
ER187I04P00GUP	4	4,762	0,025	2,380	10,10	●	●	–	–	–	–	●
ER250I06P00GUP	6	6,350	0,025	3,170	14,50	●	●	–	–	–	–	●
ER312I08P00GUP	8	7,920	0,025	3,960	17,40	●	●	–	–	–	–	●

- Angolo di spoglia negativo per un tagliente più robusto.
- Applicazioni più impegnative.
- Vantaggi nelle applicazioni a basso avanzamento e profondità di taglio.



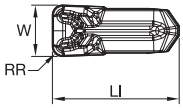
GUN Stampato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0212M02U02GUN	2	2,125	0,050	0,20	8,97	●	●	●	●	●	–	–
EG0251M02U02GUN	2	2,510	0,050	0,20	8,97	●	●	●	●	●	–	–
EG0312M03U02GUN	3	3,125	0,075	0,20	9,60	●	●	●	●	●	–	–
EG0312M03U04GUN	3	3,125	0,075	0,40	9,60	●	●	●	●	●	–	–
EG0412M04U04GUN	4	4,125	0,075	0,40	10,19	●	●	●	●	●	–	–
EG0412M04U08GUN	4	4,125	0,075	0,80	10,19	●	●	●	●	●	–	–
EG0512M05U04GUN	5	5,125	0,075	0,40	12,20	●	●	●	●	●	–	–
EG0512M05U08GUN	5	5,125	0,075	0,80	12,20	●	●	●	●	●	–	–
EG0612M06U04GUN	6	6,125	0,075	0,40	14,60	●	●	●	–	●	–	–
EG0612M06U08GUN	6	6,125	0,075	0,80	14,60	●	●	–	●	●	–	–
EG0812M08U08GUN	8	8,125	0,075	0,80	17,50	●	●	●	●	●	–	–
EG0812M08U12GUN	8	8,125	0,075	1,20	17,50	●	●	●	●	●	–	–
EG1012M10U12GUN	10	10,125	0,075	1,20	20,80	●	●	●	●	●	–	–

- Angolo di spoglia negativo per un tagliente più robusto.
- Applicazioni più impegnative.
- Vantaggi nelle applicazioni a basso avanzamento e profondità di taglio.

● prima scelta
○ scelta alternativa

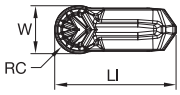
	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P	●	●	●	●	○		
M	●	●				●	○
K	○	○	○	○	●		○
N	●	○					●
S	●	●					●
H	○						



GUN Stampato di precisione • Pollici

codice catalogo	dimensione sede	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG063I1FU05GUN	1F	1,600	0,050	0,20	9,00	●	●	●	●	●	–	–
EG130I03U05GUN	3	3,302	0,075	0,20	9,60	●	●	●	●	●	–	–
EG130I03U1GUN	3	3,302	0,075	0,40	9,60	●	●	●	●	●	–	–
EG192I04U1GUN	4	4,877	0,075	0,40	10,19	●	●	●	●	●	–	–
EG192I04U2GUN	4	4,878	0,075	0,79	10,19	●	●	●	●	●	–	–
EG255I06U1GUN	6	6,477	0,075	0,40	14,58	●	●	●	●	●	–	–
EG255I06U2GUN	6	6,477	0,075	0,80	14,58	●	●	●	●	●	–	–
EG317I08U3GUN	8	8,052	0,075	1,19	17,46	●	●	●	●	●	–	–
EG380I10U3GUN	10	9,651	0,075	1,20	20,80	●	●	●	●	●	–	–

- Angolo di spoglia negativo per un tagliente più robusto.
- Prima scelta nella profilatura.
- Tagliente >180°.
- Prestazioni elevate su tutti i materiali.



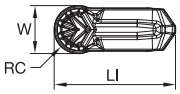
GUN Raggio completo Stampato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0312M03U00GUN	3	3,125	0,075	1,560	9,60	●	●	●	●	●	–	–
ER0412M04U00GUN	4	4,125	0,075	2,060	10,20	●	●	●	●	●	–	–
ER0512M05U00GUN	5	5,125	0,075	2,560	12,20	●	●	●	●	●	–	–
ER0612M06U00GUN	6	6,125	0,075	3,060	14,60	●	●	●	●	●	–	–
ER0812M08U00GUN	8	8,125	0,075	4,060	17,47	●	●	●	●	●	–	–

- Angolo di spoglia negativo per un tagliente più robusto.
- Prima scelta nella profilatura.
- Tagliente >180°.
- Prestazioni elevate su tutti i materiali.

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P	●	●	●	●	○		
M	●	●				●	○
K	○	○	○	○	●		○
N	●	○					●
S	●	●					●
H	○						



GUN Raggio completo Stampato di precisione • Pollici

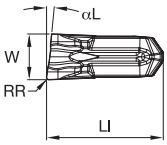
codice catalogo	dimensione sede	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER094I02U00GUN	2	2,387	0,050	1,190	8,97	●	●	●	●	●	–	–
ER125I03U00GUN	3	3,177	0,075	1,590	9,60	●	●	●	●	●	–	–
ER130I03U00GUN	3	3,300	0,075	1,650	9,60	●	●	●	●	●	–	–
ER187I04U00GUN	4	4,750	0,075	2,370	10,20	●	●	●	●	●	–	–
ER192I04U00GUN	4	4,873	0,075	2,440	10,20	●	●	●	●	●	–	–
ER250I06U00GUN	6	6,346	0,075	3,170	14,60	●	●	●	●	●	–	–
ER255I06U00GUN	6	6,473	0,075	3,240	14,60	●	●	●	●	●	–	–
ER312I08U00GUN	8	7,925	0,075	3,960	17,50	●	●	●	●	●	–	–
ER317I08U00GUN	8	8,052	0,075	4,030	17,50	●	●	●	●	●	–	–

- Il rompitruciolo positivo riduce le forze di taglio.
- Prima scelta per acciaio e acciaio inossidabile.
- Finitura superficiale eccellente.

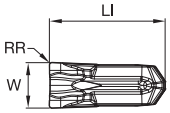
sinistro

Neutro

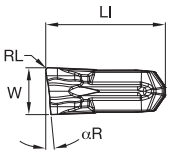
destro



sinistro



Neutro



destro

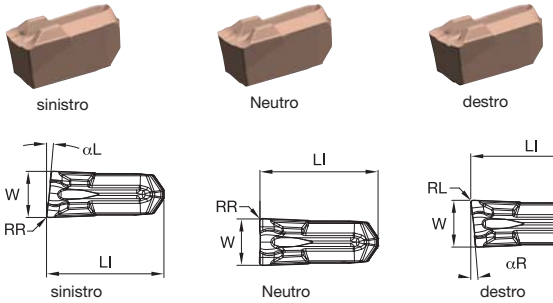
CF Stampato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	LI	αR	αL	RR	RL	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC014M1BL06CF01	1B	1,404	0,050	9,00	—	6	0,15	—	–	●	–	–	–	●	–
EC014M1BN00CF01	1B	1,400	0,050	9,00	—	—	0,15	0,15	–	●	–	–	–	●	–
EC014M1BR06CF01	1B	1,404	0,050	9,00	6	—	—	0,15	–	●	–	–	–	●	–
EC020M02L06CF02	2	2,000	0,050	8,97	—	6	0,20	—	–	●	–	–	–	●	–
EC020M02N00CF02	2	2,000	0,050	8,97	—	—	0,20	0,20	–	●	–	–	–	●	–
EC020M02R06CF02	2	2,000	0,050	8,97	6	—	—	0,20	–	●	–	–	–	●	–
EC030M03L06CF02	3	3,000	0,075	9,60	—	6	0,20	—	–	●	–	–	–	●	–
EC030M03N00CF02	3	3,000	0,075	9,60	—	—	0,20	0,20	–	●	–	–	–	●	–
EC030M03R06CF02	3	3,000	0,075	9,60	6	—	—	0,20	–	●	–	–	–	●	–
EC040M04L06CF02	4	4,000	0,075	10,19	—	6	0,20	—	–	●	–	–	–	●	–
EC040M04N00CF02	4	4,000	0,075	10,19	—	—	0,20	0,20	–	●	–	–	–	●	–
EC040M04R06CF02	4	4,000	0,075	10,19	6	—	—	0,20	–	●	–	–	–	●	–
EC050M05N00CF03	5	5,000	0,075	12,20	—	—	0,30	0,30	–	●	–	–	–	●	–

- Rompitruciolo più aggressivo.
- Per l'uso nei materiali a truciolo lungo.
- Soluzione ai problemi.

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P	●	●	●	●	○		
M	●	●				●	○
K	○	○	○	○	●		○
N	●	○					●
S	●	●					●
H	○						



CL Stampato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	LI	αR	αL	RR	RL	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC014M1BL06CL01	1B	1,400	0,050	9,00	–	6	0,15	–	–	●	–	–	–	●	–
EC014M1BN00CL01	1B	1,400	0,050	9,00	–	–	0,15	0,15	–	●	–	–	–	●	–
EC014M1BR06CL01	1B	1,400	0,050	9,00	6	–	–	0,15	–	●	–	–	–	●	–
EC020M02L06CL02	2	2,000	0,050	8,96	–	6	0,20	–	–	●	–	–	–	●	–
EC020M02N00CL02	2	2,000	0,050	8,97	–	–	0,20	0,20	–	●	–	–	–	●	–
EC020M02R06CL02	2	2,000	0,050	8,96	6	–	–	0,20	–	●	–	–	–	●	–
EC030M03L06CL02	3	3,000	0,075	9,59	–	6	0,20	–	–	●	–	–	–	●	–
EC030M03N00CL02	3	3,000	0,075	9,60	–	–	0,20	0,20	–	●	–	–	–	●	–
EC030M03R06CL02	3	3,000	0,075	9,59	6	–	–	0,20	–	●	–	–	–	●	–
EC040M04L06CL02	4	4,000	0,075	10,19	–	6	0,20	–	–	●	–	–	–	–	–
EC040M04N00CL02	4	4,000	0,075	10,20	–	–	0,20	0,20	–	●	–	–	–	●	–
EC040M04R06CL02	4	4,000	0,075	10,19	6	–	–	0,20	–	●	–	–	–	–	–

- Soluzione definitiva per la stabilità del tagliente.
- Ottimale per tagli interrotti o croste indurite.
- Prima scelta per ghisa.

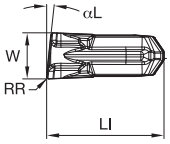
● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P	●	●	●	●	○		
M	●	●				●	○
K	○	○	○	○	●		○
N	●	○					●
S	●	●					●
H	○						

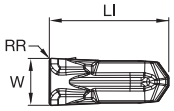
sinistro

Neutro

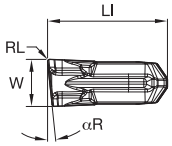
destro



sinistro



Neutro



destro

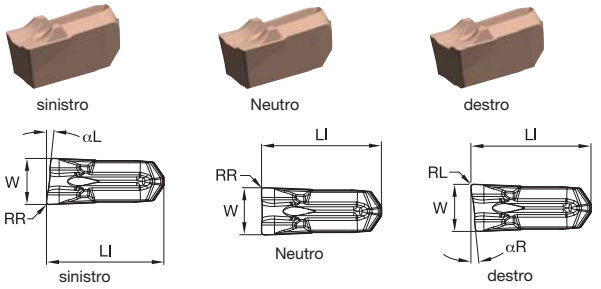
CM Stampato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	Ll	αR	αL	RR	RL	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC014M1BL06CM01	1B	1,400	0,050	9,00	–	6	0,20	–	–	●	–	–	–	–	–
EC014M1BN00CM01	1B	1,400	0,050	9,00	–	–	0,15	0,15	–	●	–	–	–	–	–
EC014M1BR06CM01	1B	1,400	0,050	9,00	6	–	–	0,20	–	●	–	–	–	–	–
EC020M02L06CM02	2	2,000	0,050	9,00	–	6	0,20	–	–	●	–	–	–	–	–
EC020M02N00CM02	2	2,000	0,050	8,98	–	–	0,20	0,20	–	●	–	–	–	–	–
EC020M02R06CM02	2	2,000	0,050	9,00	6	–	–	0,20	–	●	–	–	–	–	–
EC030M03L06CM02	3	3,000	0,075	9,60	–	6	0,20	–	–	●	–	–	–	–	–
EC030M03N00CM02	3	3,000	0,075	9,60	–	–	0,20	0,20	–	●	–	–	–	–	–
EC030M03R06CM02	3	3,000	0,075	9,60	6	–	–	0,20	–	●	–	–	–	–	–
EC040M04L06CM02	4	4,000	0,075	10,20	–	6	0,20	–	–	●	–	–	–	–	–
EC040M04N00CM02	4	4,000	0,075	10,20	–	–	0,20	0,20	–	●	–	–	–	–	–
EC040M04R06CM02	4	4,000	0,075	10,20	6	–	–	0,20	–	●	–	–	–	–	–
EC050M05N00CM03	5	5,000	0,075	12,20	–	–	0,30	0,30	–	●	–	–	–	–	–
EC060M06N00CM03	6	6,000	0,075	14,59	–	–	0,30	0,30	–	●	–	–	–	–	–
EC070M06N00CM04	6	7,000	0,075	14,60	–	–	0,40	0,40	–	●	–	–	–	–	–
EC080M08N00CM04	8	8,000	0,075	17,50	–	–	0,40	0,40	–	●	–	–	–	–	–

- Forte controllo del truciolo grazie al tagliente concavo.
- Prima scelta per acciaio nelle applicazioni che richiedono maggiore stabilità.
- Può applicare velocità più impegnative.

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P	●	●	●	●	○		
M	●	●				●	○
K	○	○	○	○	●		○
N	●	○					●
S	●	●					●
H	○						

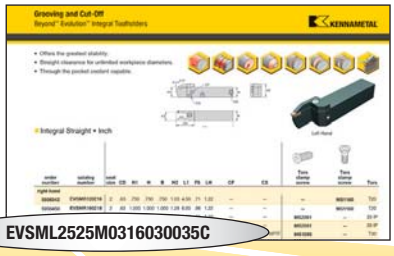


CR Stampato di precisione • Sistema metrico

codice catalogo	dimensione sede	W	W tol ±	LI	αR	αL	RR	RL	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC020M02L06CR02	2	2,000	0,050	9,00	–	6	0,20	–	–	●	–	–	–	–	–
EC020M02N00CR02	2	2,000	0,050	8,98	–	–	0,20	0,20	–	●	–	–	–	–	–
EC020M02R06CR02	2	2,000	0,050	9,00	6	–	–	0,20	–	●	–	–	–	–	–
EC030M03L06CR02	3	3,000	0,075	9,60	–	6	0,20	–	–	●	–	–	–	–	–
EC030M03N00CR02	3	3,000	0,075	9,60	–	–	0,20	0,20	–	●	–	–	–	–	–
EC030M03R06CR02	3	3,000	0,075	9,60	6	–	–	0,20	–	●	–	–	–	–	–
EC040M04L06CR02	4	4,000	0,075	10,20	–	6	0,20	–	–	●	–	–	–	–	–
EC040M04N00CR02	4	4,000	0,075	10,20	–	–	0,20	0,20	–	●	–	–	–	–	–
EC040M04R06CR02	4	4,000	0,075	10,20	6	–	–	0,20	–	●	–	–	–	–	–
EC050M05N00CR03	5	5,000	0,075	12,25	–	–	0,30	0,30	–	●	–	–	–	–	–
EC060M06L06CR04	6	6,000	0,075	14,59	–	6	0,40	–	–	●	–	–	–	–	–
EC060M06N00CR03	6	6,000	0,075	14,59	–	–	0,30	0,30	–	●	–	–	–	–	–
EC060M06R06CR04	6	6,000	0,075	14,59	6	–	–	0,40	–	●	–	–	–	–	–
EC070M06N00CR04	6	7,000	0,075	14,60	–	–	0,40	0,40	–	●	–	–	–	–	–
EC080M08L06CR04	8	8,000	0,075	17,50	–	6	0,40	–	–	●	–	–	–	–	–
EC080M08N00CR04	8	8,000	0,075	17,50	–	–	0,40	0,40	–	●	–	–	–	–	–
EC080M08R06CR04	8	8,000	0,075	17,50	6	–	–	0,40	–	●	–	–	–	–	–

Come utilizzare i codici del catalogo

Ciascun numero e carattere del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



EVSML2525M0316030035C

EV	S	M	L	2525M	03	16	030035	C
Nome gruppo di prodotti	Tipo di utensile	Tipo di supporto	Lato	Dimensione codolo	Dimen-sione della sede	Profondità di scana-latura max	Diametri per scanalatura frontale	Refrigerante
Beyond™ Evolution™	**S** = Montaggio assiale		**L** = Sinistro **R** = Destro		**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimetri	**030** = Diametro minimo in mm **035** = Diametro massimo in mm	**C** = Adduzione del refrigerante interna

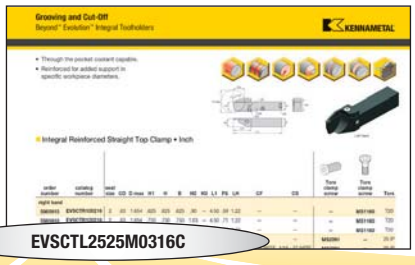
M = Supporto massimo per una larghezza di scanalatura specifica e scarico dritto per diametri illimitati dei pezzi

A = Scanalatura frontale a curvatura interna

B = Scanalatura frontale a curvatura esterna

Sistema metrico = Altezza x larghezza in mm, la lettera indica la lunghezza dell'utensile secondo lo standard ISO

Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.



EVSCTL2525M0316C

EV	S	C	T	L	2525M	03	16	C
Nome gruppo di prodotti	Tipo di utensile	Tipo di supporto	Posizione della vite di bloccaggio	Lato	Dimensione codolo	Dimen-sione della sede	Profondità di scanalatura max	Refrigerante
Beyond™ Evolution™	**S** = Montaggio assiale		**T** = Parte superiore **F** = Fronte	**L** = Sinistro **R** = Destro		**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimetri	**C** = Adduzione del refrigerante interna

C = Stelo rinforzato

Sistema metrico = Altezza x larghezza in mm, la lettera indica la lunghezza dell'utensile secondo lo standard ISO

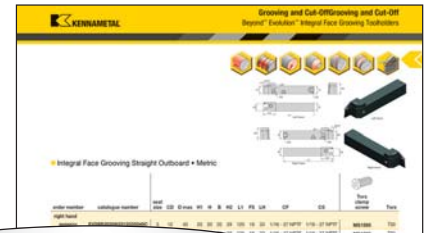
Come utilizzare i codici del catalogo

Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.

A16REVEMR0310M030035

A	16	R	EV	E	M	R	03	10	M	030035
Barra in acciaio con refrigerante	Diametro barra	Lunghezza barra	Piattaforma	Tipo di utensile	Tipo di supporto	Lato dell'utensile	Dimensione della sede dell'-inserto	Profondità di taglio max	Unità utensile	Diametri per scanalatura frontale
Bareno in acciaio con adduzione interna di refrigerante.	**Sistema metrico** = max. in mm **Pollici** = Diametro in incrementi di 1/16"		Beyond™ Evolution™	**E** = Montaggio radiale (90°) **S** = Montaggio assiale	**M** = Supporto massimo **A** = Scanalatura frontale a curvatura interna	**R** = Destro **L** = Sinistro	**1F** **02** **03** **04** **05** **06** **08** **10**	in millimetri	**M** = Sistema Metrico **I** = Pollici	**030** = Diametro minimo in mm **035** = Diametro massimo in mm

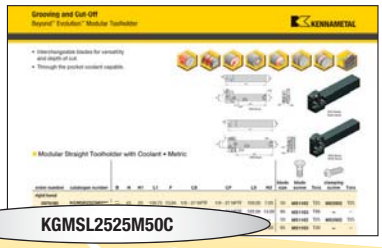
simbolo	mm	Pollici
K	125	5
M	150	6
Q	180	7
R	200	8
S	250	10
T	300	12



EVBSL32J0320

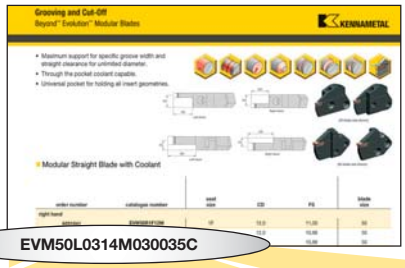
EV	B	S	L	32	J	03	20
Nome gruppo di prodotti	Tipo di utensile	Tipo di supporto	Lato	Altezza della lama	Lunghezza complessiva	Dimensione della sede	Profondità di taglio max
Beyond™ Evolution™	**B** = Lama a 2 taglienti	**S** = Standard **C** = Rinforzato	**N** = Neutro **L** = Sinistro **R** = Destro	in millimetri	Secondo lo standard ISO **G** = 90mm **J** = 110mm **M** = 150mm **X** = Speciale	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimetri

Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.



KGMSL2525M50C

KGM	S	L	2525M	50	C
Nome gruppo di prodotti	Tipo di utensile	Lato	Dimensione codolo	Dimensione della lama	Refrigerante
Sistema di scanalatura modulare	**S** = Montaggio assiale **E** = Montaggio radiale (90°)	**L** = Sinistro **R** = Destro	**Sistema metrico** = Altezza x larghezza in mm, la lettera indica la lunghezza dell'utensile secondo lo standard ISO	**50** **65**	**C** = Adduzione interna del refrigerante

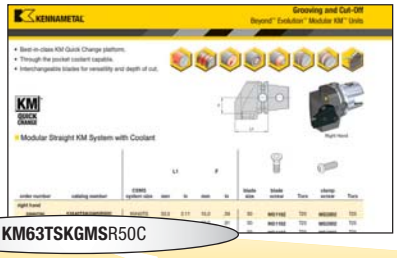


EVM50L0314M030035C

EVM	50	L	03	14	M	030035	C
Nome gruppo di prodotti	Dimensione della lama	Lato	Dimensione della sede	Profondità di scanalatura max	Tipo di supporto	Diametri per scanalatura frontale	Refrigerante
Lama modulare Beyond™ Evolution™	**50** **65**	**L** = Sinistro **R** = Destro	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimetri	**M** = Supporto massimo per una larghezza di scanalatura specifica e scarico dritto per diametri illimitati **A** = Scanalatura frontale a curvatura interna **B** = Scanalatura frontale a curvatura esterna	**030** = Diametro minimo in mm **035** = Diametro massimo in mm	**C** = Adduzione di refrigerante nella tasca

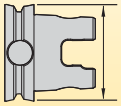
Come utilizzare i codici del catalogo

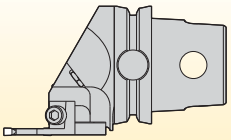
Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



KM63TSKGMSR50C

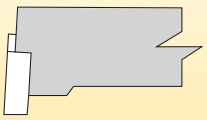
KM	63	TS	KGM	S
KM™ a cambio rapido	Dimensioni sistema	Caratteristiche	Sistema di fissaggio	Posizione dell'inserto
KM **KM4X™** **PSC**	40 = 40mm 50 = 50mm 63 = 63mm 80 = 80mm 100 = 100mm	**TS** **XMZ**	**KGM**	**E** = Montaggio radiale **S** = Montaggio laterale



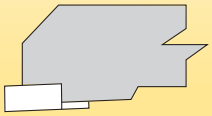


Scanalatura modulare

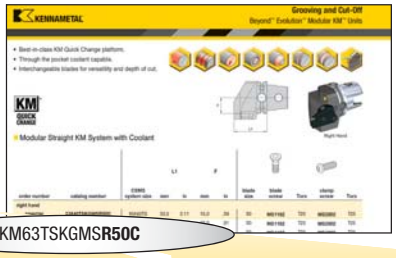
E



S



Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.

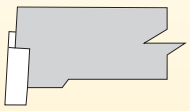


KM63TSKGMS**R50C**

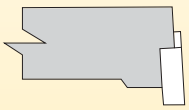
R	50	C	
Lato dell'utensile	Dimensione della lama	Refrigerante	Caratteristiche speciali
R = Destro **L** = Sinistro	**50** **60**	**C** = Adduzione del refrigerante interna	**Y** = Mazak® INTEGREX®

Montaggio radiale

R

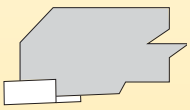


L

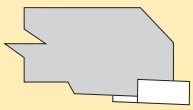


Montaggio laterale

R

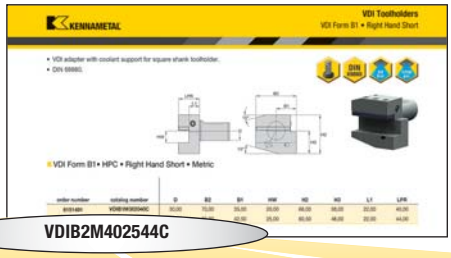


L



Come utilizzare i codici del catalogo

Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



VDIB2M402544C

VDI	B2	M	40	25	44	C
Attacco	Tipo	Sistema metrico	Diametro del codolo VDI	Dimensione codolo portautensili	Sporgenza	Adduzione interna del refrigerante

NOVO SA COME FARE: RICERCA

La ricerca di un utensile è stata migliorata dalle funzioni Consiglio e Selezione nell'applicazione NOVO™ — per risparmiare tempo e denaro.

CONSIGLIARE

Utilizza un approccio basato su regole per fornire consigli sull'utensile da taglio:

- Definire le caratteristiche di lavorazione (spianatura, scanalatura, lavorazione di fori ciechi, ecc.)
- Applicare le limitazioni richieste (limitazioni geometriche, di materiale, di tolleranza, ecc.)
- Impostare la sequenza di lavorazione (operazione singola o multistep, prima sgrossatura quindi finitura, ecc.)
- Ricevere risultati catalogati

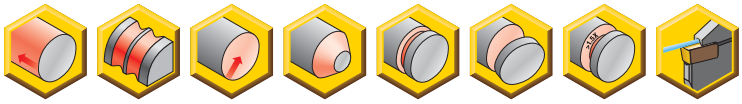
SELEZIONARE

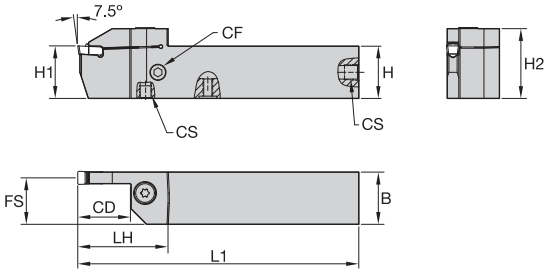
Un metodo per selezionare gli utensili da taglio da una struttura ramificata utilizzando una ricerca gerarchica o parametrica:

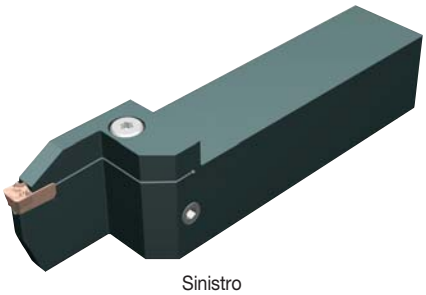
- Se si conosce quale prodotto si sta cercando, è possibile effettuare una ricerca rapida utilizzando il codice catalogo o la descrizione del prodotto.
- L'applicazione di filtri intelligenti riduce significativamente la quantità di soluzioni di utensili potenzialmente disponibili.
- Dopo aver scelto l'utensile, NOVO fornisce anche le opzioni di taglio e di adattamento specifiche per ogni soluzione.

L'applicazione NOVO garantisce di avere gli utensili giusti per ogni macchina, nella sequenza giusta. Questo permette un'esecuzione impeccabile che velocizza ogni lavoro e massimizza ogni turno. **kennametal.com/novo**

- Offre la massima stabilità.
- Scarico dritto per diametri illimitati dei pezzi.
- Adduzione interna del refrigerante.

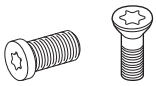






Sinistro

Dritto integrale • Sistema metrico



numero d'ordine	codice catalogo	dimen-sione sede	CD	H1	H	B	H2	L1	FS	LH	CF	CS	vite staffa Torx	vite staffa Torx	Torx
destro															
5953960	**EVSMR2020K0216**	2	16	20	20	20	27	125	19	31	—	—	**—**	**MS1160**	T20
5953958	**EVSMR2525M0216**	2	16	25	25	25	32	150	24	31	—	—	**—**	**MS1160**	T20
6401854	**EVSMR2020K0216C**	2	16	20	20	20	28	125	19	35	M8X1	M8X1	**MS2091**	**—**	25 IP
6401855	**EVSMR2525M0216C**	2	16	25	25	25	33	150	24	35	G1/8 - 28	G1/8 - 28	**MS2091**	**—**	25 IP
5953959	**EVSMR2020K0222**	2	22	20	20	20	29	125	19	38	—	—	**MS2091**	**—**	25 IP
6401857	**EVSMR2020K0222C**	2	22	20	20	20	29	125	19	41	M8X1	M8X1	**MS2091**	**—**	25 IP
5953957	**EVSMR2525M0226**	2	26	25	25	25	34	150	24	42	—	—	**MS2091**	**—**	25 IP
6401856	**EVSMR2525M0226C**	2	26	25	25	25	34	150	24	45	G1/8 - 28	G1/8 - 28	**MS2091**	**—**	25 IP
5939452	**EVSMR2020K0316C**	3	16	20	20	20	29	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5939448	**EVSMR2525M0316C**	3	16	25	25	25	34	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5939451	**EVSMR2020K0322C**	3	22	20	20	20	29	125	19	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5939447	**EVSMR2525M0326C**	3	26	25	25	25	34	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5939450	**EVSMR2020K0416C**	4	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5939446	**EVSMR2525M0416C**	4	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5939449	**EVSMR2020K0422C**	4	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5939445	**EVSMR2525M0426C**	4	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5939444	**EVSMR3232P0426C**	4	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
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5954258	**EVSMR2020K0516C**	5	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5954254	**EVSMR2525M0516C**	5	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5954257	**EVSMR2020K0522C**	5	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5954253	**EVSMR2525M0526C**	5	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
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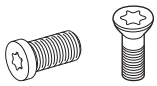
(Dritto integrale • Sistema metrico — continua)



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5954251	EVSMR2525M0626C	6	26	25	25	25	34	150	25	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
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5954246	EVSMR3232P0632C	6	32	32	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954242	EVSMR4040R0640C	6	40	40	40	40	51	200	37	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954250	EVSMR2525M0826C	8	26	25	25	25	35	150	21	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
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5954241	EVSMR4040R0840C	8	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954243	EVSMR3232P1032C	10	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954240	EVSMR4040R1040C	10	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
sinistro															
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5953954	EVSML2525M0216	2	16	25	25	25	32	150	24	31	—	—	—	MS1160	T20
6401881	EVSML2525M0216C	2	16	25	25	25	33	150	24	35	G1/8 - 28	G1/8 - 28	MS2091	—	25 IP
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5939437	EVSML2525M0326C	3	26	25	25	25	34	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
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5939432	EVSML3232P0432C	4	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954239	EVSML2020K0516C	5	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954235	EVSML2525M0516C	5	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
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5954234	EVSML2525M0526C	5	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954220	EVSML3232P0526C	5	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954219	EVSML3232P0532C	5	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954237	EVSML2020K0616C	6	16	20	20	20	29	125	17	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
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5954236	EVSML2020K0622C	6	22	20	20	20	29	125	17	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
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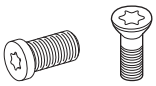
(continua)

(Dritto integrale • Sistema metrico — continua)



numero d'ordine	codice catalogo	dimen-sione sede	CD	H1	H	B	H2	L1	FS	LH	CF	CS	vite staffa Torx	vite staffa Torx	Torx
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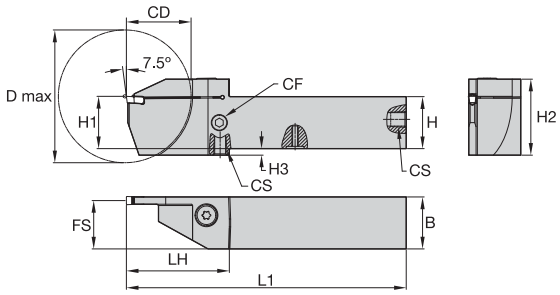
5954217	**EVSML3232P0632C**	6	32	32	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954213	**EVSML4040R0640C**	6	40	40	40	40	51	200	37	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954231	**EVSML2525M0826C**	8	26	25	25	25	35	150	21	49	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954216	**EVSML3232P0826C**	8	26	32	32	32	43	170	28	49	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954215	**EVSML3232P0832C**	8	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954212	**EVSML4040R0840C**	8	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954214	**EVSML3232P1032C**	10	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954211	**EVSML4040R1040C**	10	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45

vite codice catalogo	vite numero d'ordine	Coppia Mn	Coppia in. Lbs.	tipologia	Impronta	chiave codice catalogo	chiave numero d'ordine
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

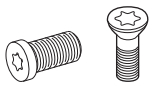
- Adduzione interna del refrigerante.
- Rinforzato per un maggiore supporto con diametri pezzo specifici.



CD = Massima profondità di taglio per le barre.
D max = Massimo diametro delle barre per scanalatura profonda o taglio tubi.

Sinistro

Utensile Integrale a lama rinforzata • Sistema metrico



numero d'ordine	codice catalogo	dimen-sione sede	CD	D max	H1	H	B	H2	H3	L1	FS	LH	CF	CS	vite staffa Torx	vite staffa Torx	Torx
destro																	
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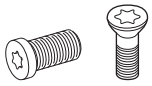
6179759	**EVSCTR1212K0216**	2	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
5980139	**EVSCTR1616K0216**	2	16	42	16	16	16	23	—	125	15	31	—	—	**—**	**MS1160**	T20
5980762	**EVSCTR2020K0216**	2	16	42	20	20	20	27	—	125	19	31	—	—	**—**	**MS1160**	T20
5980767	**EVSCTR2525M0216**	2	16	42	25	25	25	32	—	150	24	31	—	—	**—**	**MS1160**	T20
5980768	**EVSCTR2525M0226**	2	26	62	25	25	25	34	—	150	24	42	—	—	**MS2091**	**—**	25 IP
6179755	**EVSCTR1212K0316C**	3	16	52	12	12	12	23	4	125	11	34	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980140	**EVSCTR1616K0316C**	3	16	52	16	16	16	24	—	125	15	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980763	**EVSCTR2020K0316C**	3	16	52	20	20	20	29	—	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980138	**EVSCTR2525M0316C**	3	16	62	25	25	25	34	—	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980764	**EVSCTR2020K0326C**	3	26	62	20	20	20	33	4	125	19	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980769	**EVSCTR2525M0326C**	3	26	62	25	25	25	34	—	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980761	**EVSCTR1616K0416C**	4	16	52	16	16	16	24	—	125	14	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980765	**EVSCTR2020K0416C**	4	16	52	20	20	20	29	—	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980766	**EVSCTR2020K0426C**	4	26	62	20	20	20	33	—	125	18	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980770	**EVSCTR2525M0426C**	4	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980771	**EVSCTR2525M0432C**	4	32	64	25	25	25	38	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980774	**EVSCTR3232P0432C**	4	32	64	32	32	32	42	—	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980772	**EVSCTR2525M0526C**	5	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980773	**EVSCTR2525M0532C**	5	32	64	25	25	25	39	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980775	**EVSCTR3232P0540C**	5	40	82	32	32	32	47	4	170	30	63	G 1/8 - 28	G 1/8 - 28	**MS1490**	**—**	T45

(*continua*)

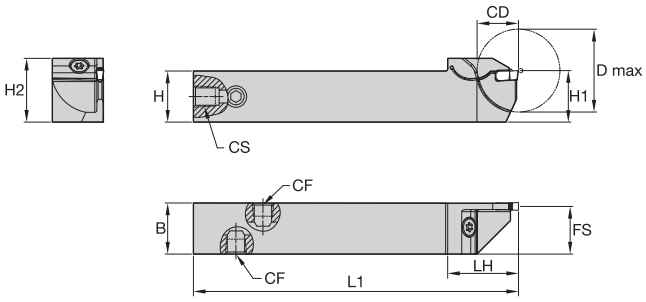
(Utensile Integrale a lama rinforzata • Sistema metrico — continua)



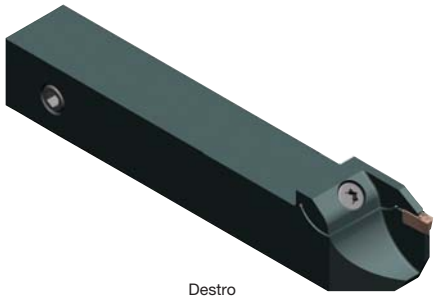
numero d'ordine	codice catalogo	dimen-sione sede	CD	D max	H1	H	B	H2	H3	L1	FS	LH	CF	CS	vite staffa Torx	vite staffa Torx	Torx
sinistro																	
6179760	**EVSCTL1212K1B16**	1B	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
6179761	**EVSCTL1212K1F16**	1F	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
6179762	**EVSCTL1212K0216**	2	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
5980777	**EVSCTL1616K0216**	2	16	42	16	16	16	23	—	125	15	31	—	—	**—**	**MS1160**	T20
5980780	**EVSCTL2020K0216**	2	16	42	20	20	20	27	—	125	19	31	—	—	**—**	**MS1160**	T20
5980805	**EVSCTL2525M0216**	2	16	42	25	25	25	32	—	150	24	31	—	—	**—**	**MS1160**	T20
5980806	**EVSCTL2525M0226**	2	26	62	25	25	25	34	—	150	24	42	—	—	**MS2091**	**—**	25 IP
6179756	**EVSCTL1212K0316C**	3	16	52	12	12	12	23	4	125	11	34	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980778	**EVSCTL1616K0316C**	3	16	52	16	16	16	24	—	125	15	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980801	**EVSCTL2020K0316C**	3	16	52	20	20	20	29	—	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980776	**EVSCTL2525M0316C**	3	16	62	25	25	25	34	—	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980802	**EVSCTL2020K0326C**	3	26	62	20	20	20	33	4	125	19	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980807	**EVSCTL2525M0326C**	3	26	62	25	25	25	34	—	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980779	**EVSCTL1616K0416C**	4	16	52	16	16	16	24	—	125	14	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980803	**EVSCTL2020K0416C**	4	16	52	20	20	20	29	—	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980804	**EVSCTL2020K0426C**	4	26	62	20	20	20	33	—	125	18	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980808	**EVSCTL2525M0426C**	4	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980809	**EVSCTL2525M0432C**	4	32	64	25	25	25	38	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980812	**EVSCTL3232P0432C**	4	32	64	32	32	32	42	—	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980810	**EVSCTL2525M0526C**	5	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980811	**EVSCTL2525M0532C**	5	32	64	25	25	25	39	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980813	**EVSCTL3232P0540C**	5	40	82	32	32	32	47	4	170	30	63	G 1/8 - 28	G 1/8 - 28	**MS1490**	**—**	T45

NOTA: Adduzione interna del refrigerante disponibile nelle dimensioni sede 3 e superiori.

vite codice catalogo	vite numero d'ordine	Coppia Mn	Coppia in. Lbs.	tipologia	Impronta	chiave codice catalogo	chiave numero d'ordine
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



CD = Massima profondità di taglio per le barre.
D max = Massimo diametro delle barre per scanalatura profonda o taglio tubi.



Utensile integrale con sistema di bloccaggio frontale • Sistema metrico

numero d'ordine	codice catalogo	dimen-sione sede	CD	D max	H1	H	B	H2	L1	FS	LH	CF	CS	vite staffa Torx	Torx
destro															
6179763	**EVSCFR1010K1B10**	1B	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179766	**EVSCFR1212K1B10**	1B	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179767	**EVSCFR1212K1B13**	1B	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179774	**EVSCFR1616K1B16**	1B	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179778	**EVSCFR2020K1B16**	1B	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179764	**EVSCFR1010K1F10**	1F	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179768	**EVSCFR1212K1F10**	1F	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179769	**EVSCFR1212K1F13**	1F	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179775	**EVSCFR1616K1F16**	1F	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179779	**EVSCFR2020K1F16**	1F	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179765	**EVSCFR1010K0210**	2	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179770	**EVSCFR1212K0210**	2	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179771	**EVSCFR1212K0216**	2	16	32	12	12	12	16	125	11	27	—	—	**191.916**	T15
6179776	**EVSCFR1616K0216**	2	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179780	**EVSCFR2020K0216**	2	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179772	**EVSCFR1212K0310C**	3	10	20	12	12	12	17	125	11	22	M8X1	M8X1	**191.916**	T15
6179773	**EVSCFR1212K0316C**	3	16	32	12	12	12	17	125	11	28	M8X1	M8X1	**191.916**	T15
6179777	**EVSCFR1616K0316C**	3	16	32	16	16	16	21	125	15	28	M8X1	M8X1	**MS1160**	T20
6179781	**EVSCFR2020K0316C**	3	16	32	20	20	20	25	125	19	28	M8X1	M8X1	**MS1160**	T20

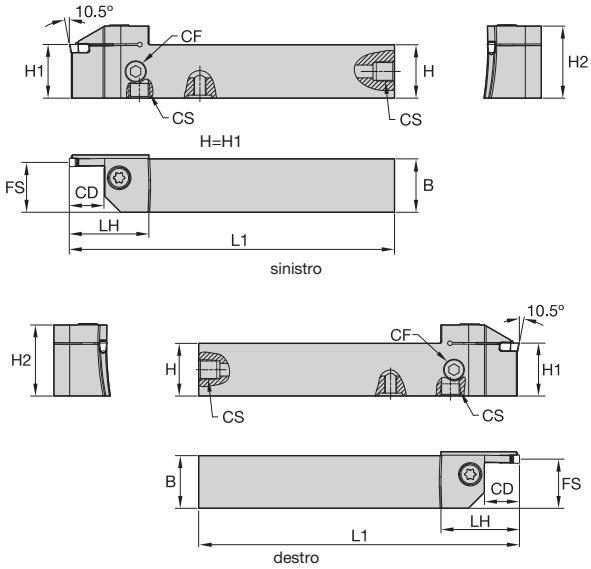
(continua)

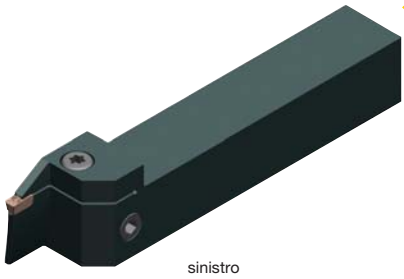
(Utensile integrale con sistema di bloccaggio frontale • Sistema metrico — continua)

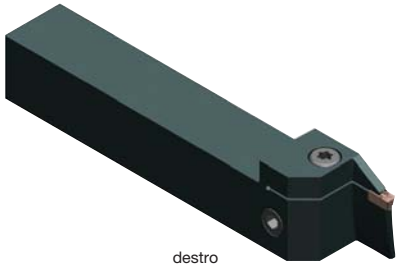
numero d'ordine	codice catalogo	dimen-sione sede	CD	D max	H1	H	B	H2	L1	FS	LH	CF	CS	vite staffa Torx	Torx
sinistro															
6179709	**EVSCFL1010K1B10**	1B	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179922	**EVSCFL1212K1B10**	1B	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179923	**EVSCFL1212K1B13**	1B	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179930	**EVSCFL1616K1B16**	1B	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179934	**EVSCFL2020K1B16**	1B	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179710	**EVSCFL1010K1F10**	1F	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179924	**EVSCFL1212K1F10**	1F	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179925	**EVSCFL1212K1F13**	1F	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179931	**EVSCFL1616K1F16**	1F	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179935	**EVSCFL2020K1F16**	1F	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179921	**EVSCFL1010K0210**	2	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179926	**EVSCFL1212K0210**	2	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179927	**EVSCFL1212K0216**	2	16	32	12	12	12	16	125	11	27	—	—	**191.916**	T15
6179932	**EVSCFL1616K0216**	2	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179936	**EVSCFL2020K0216**	2	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179928	**EVSCFL1212K0310C**	3	10	20	12	12	12	17	125	11	22	M8X1	M8X1	**191.916**	T15
6179929	**EVSCFL1212K0316C**	3	16	32	12	12	12	17	125	11	28	M8X1	M8X1	**191.916**	T15
6179933	**EVSCFL1616K0316C**	3	16	32	16	16	16	21	125	15	28	M8X1	M8X1	**MS1160**	T20
6179937	**EVSCFL2020K0316C**	3	16	32	20	20	20	25	125	19	28	M8X1	M8X1	**MS1160**	T20

NOTA: Adduzione interna del refrigerante disponibile nelle dimensioni sede 3 e superiori.

vite codice catalogo	vite numero d'ordine	Coppia Mn	Coppia in. Lbs.	tipologia	Impronta	chiave codice catalogo	chiave numero d'ordine
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**




sinistro


destro

Scanalatura frontale esterna, dritto, integrale • Sistema metrico

numero d'ordine	codice catalogo	dimensione sede	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	vite staffa Torx	Torx
destro															
6080031	EVSBR2020K0312035040C	3	12	40	35	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116561	EVSBR2020K0312040050C	3	12	50	40	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T20
6116563	EVSBR2020K0312050060C	3	12	60	50	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116567	EVSBR2020K0312060075C	3	12	75	60	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116569	EVSBR2020K0312075100C	3	12	100	75	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080067	EVSBR2525M0312100180C	3	12	180	100	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080069	EVSBR2525M0312180250C	3	12	250	180	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080053	EVSBR2525M0320060075C	3	20	75	60	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080055	EVSBR2525M0320075100C	3	20	100	75	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080057	EVSBR2525M0320100180C	3	20	180	100	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080060	EVSBR2525M0320180250C	3	20	250	180	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080033	EVSBR2020K0416040050C	4	16	50	40	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080040	EVSBR2020K0416050060C	4	16	60	50	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116571	EVSBR2020K0416060075C	4	16	75	60	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116573	EVSBR2020K0416075100C	4	16	100	75	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116587	EVSBR2525M0416100180C	4	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116589	EVSBR2525M0416180250C	4	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116575	EVSBR2525M0426060075C	4	26	75	60	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116577	EVSBR2525M0426075100C	4	26	100	75	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116579	EVSBR2525M0426100180C	4	26	180	100	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116581	EVSBR2525M0426180250C	4	26	250	180	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080035	EVSBR2525M0516050060C	5	16	60	50	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124200	EVSBR2525M0516060075C	5	16	60	60	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30

(continua)

(Scanalatura frontale esterna, dritto, integrale • Sistema metrico — continua)

numero d'ordine	codice catalogo	dimensione sede	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	vite staffa Torx	Torx
6124214	EVSBR2525M0516075100C	5	16	100	75	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124218	EVSBR2525M0516100180C	5	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124222	EVSBR2525M0516180250C	5	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124226	EVSBR2525M0516250350C	5	16	350	250	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124230	EVSBR2525M0516350999C	5	16	999	350	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124198	EVSBR2525M0526050060C	5	26	60	50	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124212	EVSBR2525M0526060075C	5	26	60	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124216	EVSBR2525M0526075100C	5	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124235	EVSBR3232P0532100180C	5	32	180	100	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124237	EVSBR3232P0532180250C	5	32	250	180	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124239	EVSBR3232P0532250350C	5	32	350	250	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124241	EVSBR3232P0532350999C	5	32	999	350	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124605	EVSBR2525M0616060075C	6	16	75	60	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124609	EVSBR2525M0616075100C	6	16	100	75	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124673	EVSBR2525M0616100180C	6	16	180	100	25	25	31	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124677	EVSBR2525M0616180250C	6	16	250	180	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124681	EVSBR2525M0616250350C	6	16	350	250	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124685	EVSBR2525M0616350999C	6	16	999	350	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124607	EVSBR2525M0626060075C	6	26	75	60	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124671	EVSBR2525M0626075100C	6	26	100	75	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124689	EVSBR3232P0632100180C	6	32	180	100	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124691	EVSBR3232P0632180250C	6	32	250	180	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124693	EVSBR3232P0632250350C	6	32	350	250	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124695	EVSBR3232P0632350999C	6	32	999	350	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
sinistro															
6080037	EVSBL2020K0312035040C	3	12	40	35	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116562	EVSBL2020K0312040050C	3	12	50	40	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116564	EVSBL2020K0312050060C	3	12	60	50	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116568	EVSBL2020K0312060075C	3	12	75	60	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116570	EVSBL2020K0312075100C	3	12	100	75	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080068	EVSBL2525M0312100180C	3	12	180	100	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080070	EVSBL2525M0312180250C	3	12	250	180	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080054	EVSBL2525M0320060075C	3	20	75	60	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080056	EVSBL2525M0320075100C	3	20	100	75	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080059	EVSBL2525M0320100180C	3	20	180	100	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080061	EVSBL2525M0320180250C	3	20	250	180	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080038	EVSBL2020K0416040050C	4	16	50	40	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080051	EVSBL2020K0416050060C	4	16	60	50	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116572	EVSBL2020K0416060075C	4	16	75	60	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116574	EVSBL2020K0416075100C	4	16	100	75	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116588	EVSBL2525M0416100180C	4	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116590	EVSBL2525M0416180250C	4	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116576	EVSBL2525M0426060075C	4	26	75	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116578	EVSBL2525M0426075100C	4	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30

(continua)

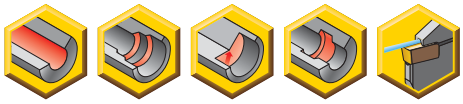
(Scanalatura frontale esterna, dritto, integrale • Sistema metrico — continua)

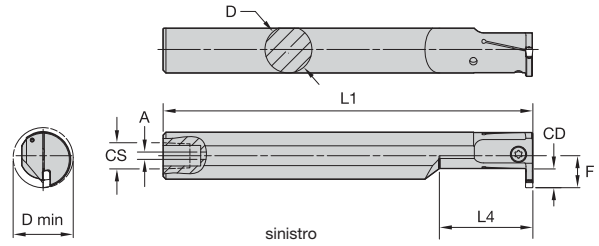
numero d'ordine	codice catalogo	dimensione sede	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	vite staffa Torx	Torx
6116580	EVSBL2525M0426100180C	4	26	180	100	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116582	EVSBL2525M0426180250C	4	26	250	180	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080039	EVSBL2525M0516050060C	5	16	60	50	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124211	EVSBL2525M0516060075C	5	16	60	60	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124215	EVSBL2525M0516075100C	5	16	100	75	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124219	EVSBL2525M0516100180C	5	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124223	EVSBL2525M0516180250C	5	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124227	EVSBL2525M0516250350C	5	16	350	250	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124232	EVSBL2525M0516350999C	5	16	999	350	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124199	EVSBL2525M0526050060C	5	26	60	50	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124213	EVSBL2525M0526060075C	5	26	60	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124217	EVSBL2525M0526075100C	5	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124236	EVSBL3232P0532100180C	5	32	180	100	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124238	EVSBL3232P0532180250C	5	32	250	180	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124240	EVSBL3232P0532250350C	5	32	350	250	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124242	EVSBL3232P0532350999C	5	32	999	350	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124606	EVSBL2525M0616060075C	6	16	75	60	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124610	EVSBL2525M0616075100C	6	16	100	75	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124674	EVSBL2525M0616100180C	6	16	180	100	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124678	EVSBL2525M0616180250C	6	16	250	180	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124682	EVSBL2525M0616250350C	6	16	350	250	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124686	EVSBL2525M0616350999C	6	16	999	350	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124608	EVSBL2525M0626060075C	6	26	75	60	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124672	EVSBL2525M0626075100C	6	26	100	75	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124690	EVSBL3232P0632100180C	6	32	180	100	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124692	EVSBL3232P0632180250C	6	32	250	180	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124694	EVSBL3232P0632250350C	6	32	350	250	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124696	EVSBL3232P0632350999C	6	32	999	350	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45

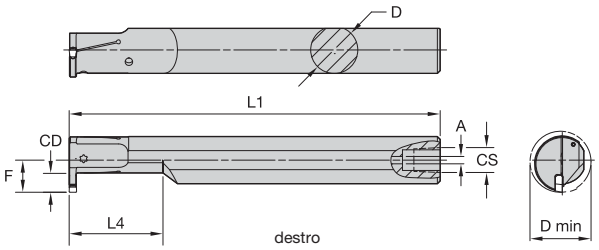
NOTA: Adduzione interna del refrigerante disponibile nelle dimensioni sede 3 e superiori.

vite codice catalogo	vite numero d'ordine	Coppia Mn	Coppia in. Lbs.	tipologia	Impronta	chiave codice catalogo	chiave numero d'ordine
MS1160	1099645	7	62	M5	T20	KT20	1022703
MS1162	1127019	9	80	M6	T25	KT25	1022725
MS1163	1124104	18	159	M8	T30	KT30L	1099676
MS1273	1020977	4	35.4	M4	T15	KT15	1022701
MS1490	2263299	17	151	M8	T45	KT45	1018227
MS1595	1094300	12	106	M6	T30	KT30	1099676
MS1970	1106668	12	106	M6	T30	KT30	1099676
MS2002	1621087	9	80	M6	T25	KT25	1022725
MS2091	1931147	9	80	M5	25IP	K25IP	2050113

- Per le applicazioni di scanalatura diam. int.
- Supporto massimo.
- Bareno in acciaio con adduzione interna del refrigerante.





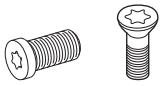


Bareno in acciaio • Sistema metrico

numero d'ordine	codice catalogo	dimensione sede	CD	D	D min	L1	F	L4	A	CS	vite staffa Torx	vite staffa Torx	Torx
destro													
5980518	**A12KEVEMR1F05M**	1F	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPT	–	**MS1285**	T15
5980520	**A16MEVEMR1F07M**	1F	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5980622	**A20QEVEMR1F07M**	1F	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980519	**A12KEVEMR0205M**	2	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	–	**MS1285**	T15
5980621	**A16MEVEMR0207M**	2	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	–	**MS1273**	T15
5980623	**A20QEVEMR0207M**	2	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980624	**A25REVEMR0210M**	2	10,00	25	32	200	18	50,0	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954259	**A16MEVEMR0307M**	3	7,00	16	20	150	11	40,3	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5954260	**A20QEVEMR0307M**	3	7,00	20	25	180	13	40,3	4,00	1/8 - 27 NPT	–	**MS1160**	T20
5954281	**A25REVEMR0310M**	3	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954283	**A32SEVEMR0312M**	3	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30
5954282	**A25REVEMR0410M**	4	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954284	**A32SEVEMR0412M**	4	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30

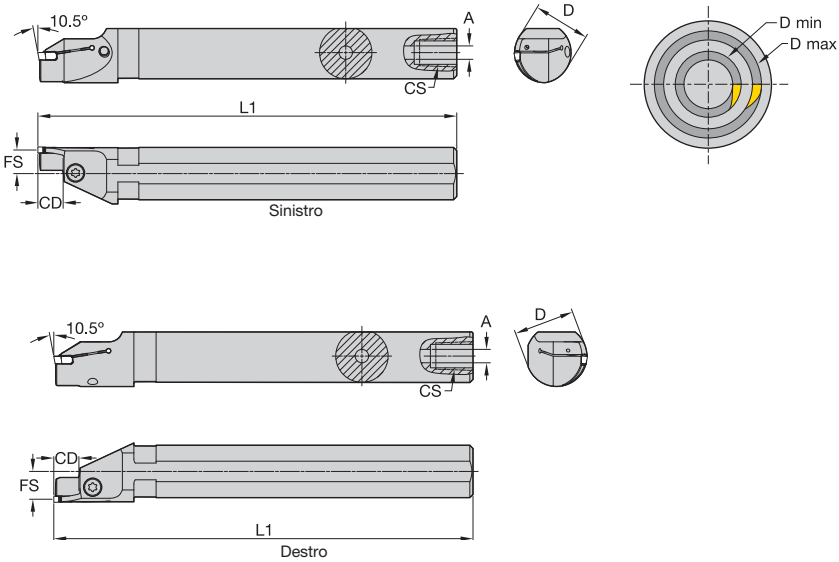
(continua)

(Bareno in acciaio • Sistema metrico — continua)



numero d'ordine	codice catalogo	dimensione sede	CD	D	D min	L1	F	L4	A	CS	vite staffa Torx	vite staffa Torx	Torx
sinistro													
5980625	**A12KEVEML1F05M**	1F	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	**—**	**MS1285**	T15
5980627	**A16MEVEML1F07M**	1F	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	**—**	**MS1273**	T15
5980629	**A20QEVEML1F07M**	1F	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	**—**	**MS1160**	T20
5980626	**A12KEVEML0205M**	2	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	**—**	**MS1285**	T15
5980628	**A16MEVEML0207M**	2	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	**—**	**MS1273**	T15
5980630	**A20QEVEML0207M**	2	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	**—**	**MS1160**	T20
5980631	**A25REVEML0210M**	2	10,00	25	32	200	18	50,0	6,40	1/4 - 18 NPT	**—**	**MS1162**	T25
5954285	**A16MEVEML0307M**	3	7,00	16	20	150	11	40,3	4,00	1/8 - 27 NPT	**—**	**MS1273**	T15
5954286	**A20QEVEML0307M**	3	7,00	20	25	180	13	40,3	4,00	1/8 - 27 NPT	**—**	**MS1160**	T20
5954287	**A25REVEML0310M**	3	10,00	25	32	200	17	50,3	6,40	1/4 - 27 NPT	**—**	**MS1162**	T25
5954289	**A32SEVEML0312M**	3	12,00	32	40	250	22	64,0	6,40	1/4 - 27 NPT	**MS1595**	**—**	T30
5954288	**A25REVEML0410M**	4	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	**—**	**MS1162**	T25
5954290	**A32SEVEML0412M**	4	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	**—**	T30

vite codice catalogo	vite numero d'ordine	Coppia Mn	Coppia in. Lbs.	tipologia	Impronta	chiave codice catalogo	chiave numero d'ordine
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



Sinistro

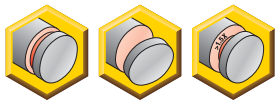
Destro

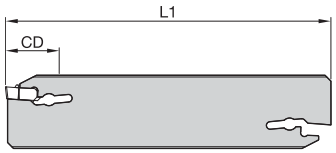
Bareno per scanalatura frontale in acciaio • Sistema metrico

numero d'ordine	codice catalogo	dimensione sede	CD	D	D min	D max	L1	F	CS	vite staffa Torx	Torx
destro											
6116521	**A25REVSAR0212M026030**	2	12,00	25	26	30	200	13	1/4-18 NPT	**MS1160**	T20
6116522	**A25REVSAR0312M030035**	3	12,00	25	30	35	200	13	—	**MS1162**	T25
6116297	**A32SEVSAR0312M033042**	3	12,00	32	33	42	250	16	1/4-18 NPT	**MS1162**	T25
6116299	**A40TEVSAR0312M041050**	3	12,00	40	41	50	300	20	1/4-18 NPT	**MS1162**	T25
sinistro											
6116527	**A25REVSAL0212M026030**	2	12,00	25	26	30	200	13	1/4-18 NPT	**MS1160**	T20
6116528	**A25REVSAL0312M030035**	3	12,00	25	30	35	200	13	1/4-18 NPT	**MS1162**	T25
6116298	**A32SEVSAL0312M033042**	3	12,00	32	33	42	250	16	1/4-18 NPT	**—**	T25
6116300	**A40TEVSAL0312M041050**	3	12,00	40	41	50	300	20	1/4-18 NPT	**MS1162**	T25

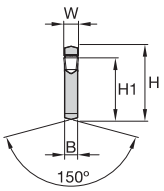
vite codice catalogo	vite numero d'ordine	Coppia Mn	Coppia in. Lbs.	tipologia	Impronta	chiave codice catalogo	chiave numero d'ordine
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

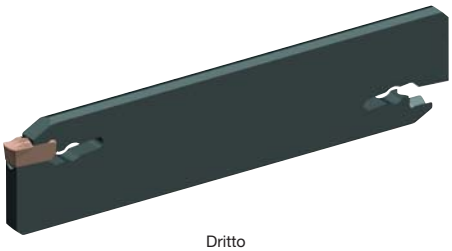
- Per applicazioni di scanalatura profonda e troncatura.
- Sede universale per tutte le geometrie d'inserto.



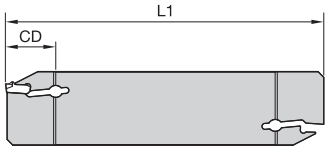


Dritto

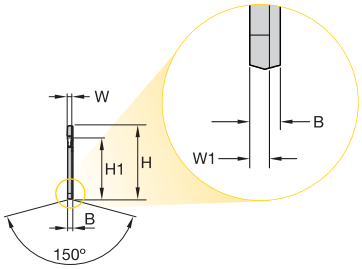


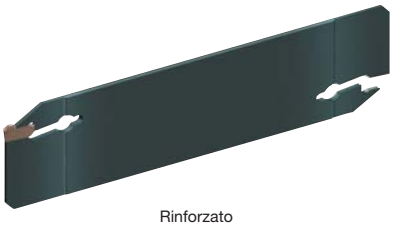


Dritto



Rinforzato





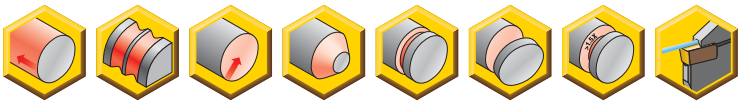
Rinforzato

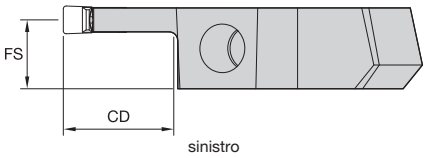
Lama di troncatura a due taglienti

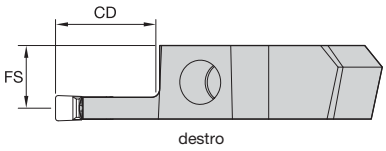
numero d'ordine	codice catalogo	dimensione sede	H	W	W1	H1	L1	B	CD	chiave di montaggio
sinistro										
5941706	**EVBSN19G1B14**	1B	19	1,4	1,15	15,5	90	1,80	14	**SCW5E**
5941708	**EVBSN26J1B15**	1B	26	1,4	1,15	21,5	110	1,80	15	**SCW5E**
5955391	**EVBSN19G1F16**	1F	19	1,6	1,30	15,5	90	1,80	16	**SCW5E**
5955392	**EVBSN26J1F17**	1F	26	1,6	1,30	21,5	110	1,80	17	**SCW5E**
5941707	**EVBSN19G0220**	2	19	2,0	–	15,5	90	1,65	–	**SCW5E**
5941709	**EVBSN26J0230**	2	26	2,0	–	21,5	110	1,65	–	**SCW5E**
5941710	**EVBSN26M0230**	2	26	2,0	–	21,5	150	1,65	–	**SCW5E**
5941724	**EVBSN32M0250**	2	32	2,0	–	25,1	150	1,65	–	**SCW5E**
5941721	**EVBSN26J0340**	3	26	3,0	–	21,5	110	2,40	–	**SCW5E**
5941722	**EVBSN26M0340**	3	26	3,0	–	21,5	150	2,40	–	**SCW5E**
5941725	**EVBSN32M0350**	3	32	3,0	–	25,1	150	2,40	–	**SCW5E**
5941723	**EVBSN26J0440**	4	26	4,0	–	21,5	110	3,40	–	**SCW5E**
5941726	**EVBSN32M0450**	4	32	4,0	–	25,1	150	3,40	–	**SCW5E**
5977635	**EVBSN26J0540**	5	26	5,0	–	21,5	110	4,40	–	**SCW5E**
5977637	**EVBSN32M0560**	5	32	5,0	–	25,1	150	4,40	–	**SCW5E**
5977636	**EVBSN26J0640**	6	26	6,0	–	21,5	110	5,40	–	**SCW8E**
5977638	**EVBSN32M0660**	6	32	6,0	–	25,1	150	5,40	–	**SCW8E**
5977640	**EVBSN52X06120**	6	53	6,0	–	45,3	260	5,40	–	**SCW8E**
5977639	**EVBSN32M0860**	8	32	8,0	–	25,1	150	7,00	–	**SCW8E**
5977721	**EVBSN52X08120**	8	53	8,0	–	45,3	260	7,00	–	**SCW8E**

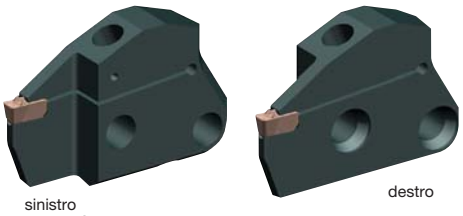
NOTA: Chiave del gruppo fornita con la lama.

- Supporto massimo per una larghezza di scanalatura specifica e scarico dritto per diametri illimitati.
- Adduzione interna del refrigerante.
- Sede universale per tutte le geometrie d'inserto.

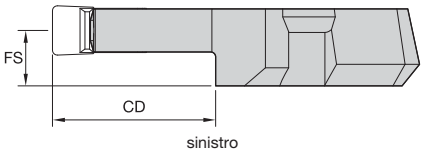


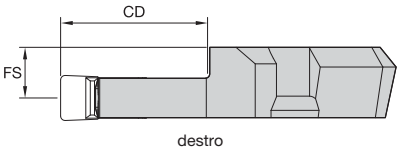


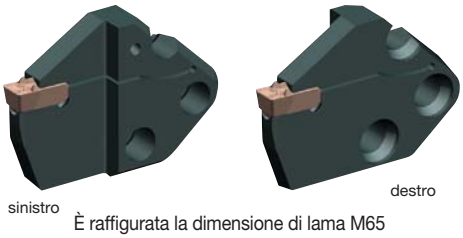




È raffigurata la dimensione di lama M50







È raffigurata la dimensione di lama M65

Lama dritta modulare con refrigerante

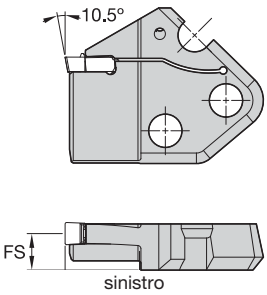
numero d'ordine	codice catalogo	dimensione sede	CD	FS	dimensioni della lama
destro					
6031041	**EVM50R1F12M**	1F	12,0	11,00	50
6030969	**EVM50R0212M**	2	12,0	10,88	50
5955423	**EVM50R0216M**	2	16,0	10,88	50
5979200	**EVM50R0312MC**	3	12,0	10,43	50
5979010	**EVM50R0316MC**	3	16,0	10,43	50
5979181	**EVM50R0322MC**	3	22,0	10,43	50
5979201	**EVM50R0412MC**	4	12,0	9,93	50
5979182	**EVM50R0416MC**	4	16,0	9,93	50
5979183	**EVM50R0422MC**	4	22,0	9,93	50
5979198	**EVM50R0426MC**	4	26,0	9,93	50
5979184	**EVM50R0432MC**	4	32,0	9,93	50
6031031	**EVM50R0512MC**	5	12,0	9,43	50
6031033	**EVM50R0516MC**	5	16,0	9,43	50
5955415	**EVM50R0526MC**	5	26,0	9,43	50
5955416	**EVM50R0532MC**	5	32,0	9,43	50
6031035	**EVM65R0616MC**	6	16,0	9,88	65
5955417	**EVM65R0626MC**	6	26,0	9,88	65
6031037	**EVM65R0632MC**	6	32,0	9,88	65
6031039	**EVM65R0816MC**	8	16,0	9,00	65
5955418	**EVM65R0826MC**	8	26,0	9,00	65

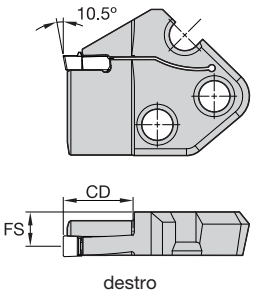
(continua)

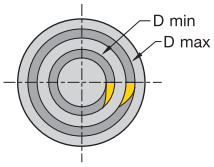
(Lama dritta modulare con refrigerante— continua)

numero d'ordine	codice catalogo	dimensione sede	CD	FS	dimensioni della lama
sinistro					
6031042	**EVM50L1F12M**	1F	12,0	11,00	50
6030970	**EVM50L0212M**	2	12,0	10,88	50
5955424	**EVM50L0216M**	2	16,0	10,88	50
5979202	**EVM50L0312MC**	3	12,0	10,43	50
5979185	**EVM50L0316MC**	3	16,0	10,43	50
5979186	**EVM50L0322MC**	3	22,0	10,43	50
5979203	**EVM50L0412MC**	4	12,0	9,93	50
5979187	**EVM50L0416MC**	4	16,0	9,93	50
5979188	**EVM50L0422MC**	4	22,0	9,93	50
5979199	**EVM50L0426MC**	4	26,0	9,93	50
5979189	**EVM50L0432MC**	4	32,0	9,93	50
6031032	**EVM50L0512MC**	5	12,0	9,93	50
6031034	**EVM50L0516MC**	5	16,0	9,43	50
5955419	**EVM50L0526MC**	5	26,0	9,43	50
5955420	**EVM50L0532MC**	5	32,0	9,43	50
6031036	**EVM65L0616MC**	6	16,0	9,88	65
5955421	**EVM65L0626MC**	6	26,0	9,88	65
6031038	**EVM65L0632MC**	6	32,0	9,88	65
6031040	**EVM65L0816MC**	8	16,0	9,00	65
5955422	**EVM65L0826MC**	8	26,0	9,00	65

NOTA: Adduzione interna del refrigerante disponibile nelle dimensioni sede 3 e superiori.



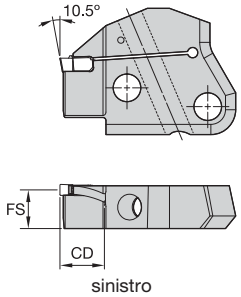


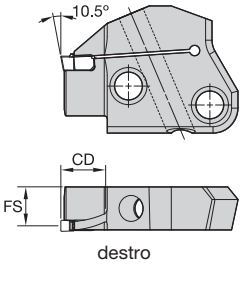


sinistro

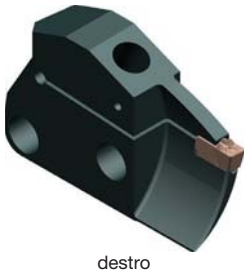
destro

È raffigurata la dimensione di lama M65





sinistro



destro

È raffigurata la dimensione di lama M50

Lama per scanalatura frontale interna modulare con refrigerante

numero d'ordine	codice catalogo	dimensione sede	D min	D max	CD	FS	dimensioni della lama
destro							
6097181	**EVM50R0312A035040C**	3	35	40	12,0	10,50	50
6097182	**EVM50R0312A040050C**	3	40	50	12,0	10,50	50
6097183	**EVM50R0312A050060C**	3	50	60	12,0	10,50	50
6097184	**EVM50R0312A060075C**	3	60	75	12,0	10,50	50
6116789	**EVM50R0312A075100C**	3	75	100	12,0	10,50	50
6117063	**EVM50R0312A100180C**	3	100	180	12,0	10,50	50
6117067	**EVM50R0312A180250C**	3	180	250	12,0	10,50	50
6117071	**EVM50R0312A250350C**	3	250	350	12,0	10,50	50
6117075	**EVM50R0312A350999C**	3	350	999	12,0	10,50	50
6097185	**EVM50R0320A075100C**	3	75	100	20,0	10,50	50
6097186	**EVM50R0320A100180C**	3	100	180	20,0	10,50	50
6097187	**EVM50R0320A180250C**	3	180	250	20,0	10,50	50
6097188	**EVM50R0320A250350C**	3	250	350	20,0	10,50	50
6097189	**EVM50R0320A350999C**	3	350	999	20,0	10,50	50
6079480	**EVM50R0416A040050C**	4	40	50	16,0	10,00	50
6079481	**EVM50R0416A050060C**	4	50	60	16,0	10,00	50
6079482	**EVM50R0416A060075C**	4	60	75	16,0	10,00	50
6079483	**EVM50R0416A075100C**	4	75	100	16,0	10,00	50
6117079	**EVM50R0416A100180C**	4	100	180	16,0	10,00	50
6117093	**EVM50R0416A180250C**	4	180	250	16,0	10,00	50
6117097	**EVM50R0416A250350C**	4	250	350	16,0	10,00	50
6117101	**EVM50R0416A350999C**	4	350	999	16,0	10,00	50
6079484	**EVM50R0426A100180C**	4	100	180	26,0	10,00	50

(continua)

(Lama per scanalatura frontale interna modulare con refrigerante — continua)

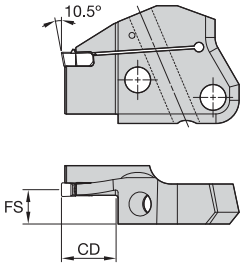
numero d'ordine	codice catalogo	dimensione sede	D min	D max	CD	FS	dimensioni della lama
6079485	EVM50R0426A180250C	4	180	250	26,0	10,00	50
6079486	EVM50R0426A250350C	4	250	350	26,0	10,00	50
6079487	EVM50R0426A350999C	4	350	999	26,0	10,00	50
6079488	EVM50R0520A050060C	5	50	60	20,0	9,50	50
6079489	EVM50R0520A060075C	5	60	75	20,0	9,50	50
6079490	EVM50R0520A075100C	5	75	100	20,0	9,50	50
6079491	EVM50R0520A100180C	5	100	180	20,0	9,50	50
6079492	EVM50R0520A180250C	5	180	250	20,0	9,50	50
6079493	EVM50R0520A250350C	5	250	350	20,0	9,50	50
6079494	EVM50R0520A350999C	5	350	999	20,0	9,50	50
6079223	EVM65R0620A060075C	6	60	75	20,0	9,88	65
6079224	EVM65R0620A075100C	6	75	100	20,0	9,88	65
6079225	EVM65R0620A100180C	6	100	180	20,0	9,88	65
6079226	EVM65R0620A180250C	6	180	250	20,0	9,88	65
6079227	EVM65R0620A250350C	6	250	350	20,0	9,88	65
6079228	EVM65R0620A350999C	6	350	999	20,0	9,88	65
6079229	EVM65R0820A080180C	8	80	180	20,0	9,00	65
6079230	EVM65R0820A180999C	8	180	999	20,0	9,00	65
sinistro							
6097190	EVM50L0312A035040C	3	35	40	12,0	10,50	50
6097191	EVM50L0312A040050C	3	40	50	12,0	10,50	50
6097192	EVM50L0312A050060C	3	50	60	12,0	10,50	50
6097193	EVM50L0312A060075C	3	60	75	12,0	10,50	50
6116790	EVM50L0312A075100C	3	75	100	12,0	10,50	50
6117064	EVM50L0312A100180C	3	100	180	12,0	10,50	50
6117068	EVM50L0312A180250C	3	180	250	12,0	10,50	50
6117072	EVM50L0312A250350C	3	250	350	12,0	10,50	50
6117076	EVM50L0312A350999C	3	350	999	12,0	10,50	50
6097194	EVM50L0320A075100C	3	75	100	20,0	10,50	50
6097195	EVM50L0320A100180C	3	100	180	20,0	10,50	50
6097196	EVM50L0320A180250C	3	180	250	20,0	10,50	50
6097197	EVM50L0320A250350C	3	250	350	20,0	10,50	50
6097198	EVM50L0320A350999C	3	350	999	20,0	10,50	50
6079495	EVM50L0416A040050C	4	40	50	16,0	10,00	50
6079496	EVM50L0416A050060C	4	50	60	16,0	10,00	50
6079497	EVM50L0416A060075C	4	60	75	16,0	10,00	50
6079498	EVM50L0416A075100C	4	75	100	16,0	10,00	50
6117080	EVM50L0416A100180C	4	100	180	16,0	10,00	50
6117094	EVM50L0416A180250C	4	180	250	16,0	10,00	50
6117098	EVM50L0416A250350C	4	250	350	16,0	10,00	50
6117102	EVM50L0416A350999C	4	350	999	16,0	10,00	50
6079499	EVM50L0426A100180C	4	100	180	26,0	10,00	50
6079500	EVM50L0426A180250C	4	180	250	26,0	10,00	50
6079501	EVM50L0426A250350C	4	250	350	26,0	10,00	50

(continua)

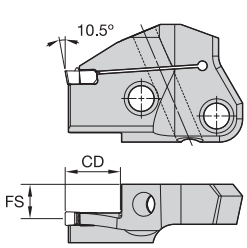
(Lama per scanalatura frontale interna modulare con refrigerante — continua)

numero d'ordine	codice catalogo	dimensione sede	D min	D max	CD	FS	dimensioni della lama
6079502	EVM50L0426A350999C	4	350	999	26,0	10,00	50
6079503	EVM50L0520A050060C	5	50	60	20,0	9,50	50
6079504	EVM50L0520A060075C	5	60	75	20,0	9,50	50
6079505	EVM50L0520A075100C	5	75	100	20,0	9,50	50
6079506	EVM50L0520A100180C	5	100	180	20,0	9,50	50
6079507	EVM50L0520A180250C	5	180	250	20,0	9,50	50
6079508	EVM50L0520A250350C	5	250	350	20,0	9,50	50
6079509	EVM50L0520A350999C	5	350	999	20,0	9,50	50
6079234	EVM65L0620A060075C	6	60	75	20,0	9,88	65
6079235	EVM65L0620A075100C	6	75	100	20,0	9,88	65
6079236	EVM65L0620A100180C	6	100	180	20,0	9,88	65
6079237	EVM65L0620A180250C	6	180	250	20,0	9,88	65
6079238	EVM65L0620A250350C	6	250	350	20,0	9,88	65
6079239	EVM65L0620A350999C	6	350	999	20,0	9,88	65
6079240	EVM65L0820A080180C	8	80	180	20,0	9,00	65
6079241	EVM65L0820A180999C	8	180	999	20,0	9,00	65

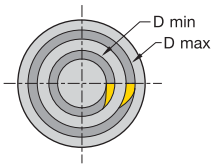
NOTA: Adduzione di refrigerante nella tasca disponibile nelle dimensioni sede 3 e superiori.

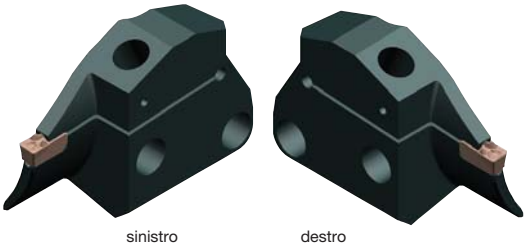


sinistro

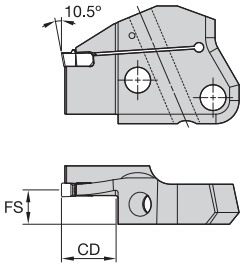


destro

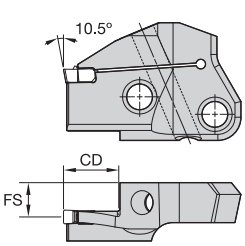



sinistro destro

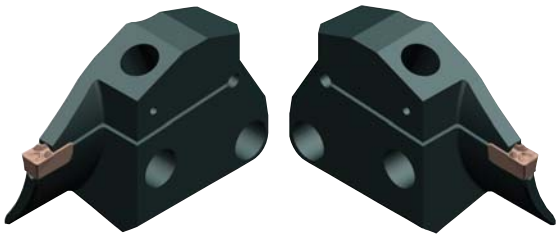
È raffigurata la dimensione di lama M65



sinistro



destro


sinistro destro

È raffigurata la dimensione di lama M50

Lama per scanalatura frontale esterna modulare con refrigerante

numero d'ordine	codice catalogo	dimensione sede	D min	D max	CD	FS	dimensioni della lama
destro							
6079340	**EVM50R0312B035040C**	3	35	40	12,0	10,50	50
6079411	**EVM50R0312B040050C**	3	40	50	12,0	10,50	50
6079412	**EVM50R0312B050060C**	3	50	60	12,0	10,50	50
6079413	**EVM50R0312B060075C**	3	60	75	12,0	10,50	50
6117061	**EVM50R0312B075100C**	3	75	100	12,0	10,50	50
6117065	**EVM50R0312B100180C**	3	100	180	12,0	10,50	50
6117069	**EVM50R0312B180250C**	3	180	250	12,0	10,50	50
6117073	**EVM50R0312B250350C**	3	250	350	12,0	10,50	50
6117077	**EVM50R0312B350999C**	3	350	999	12,0	10,50	50
6079414	**EVM50R0320B075100C**	3	75	100	20,0	10,50	50
6079415	**EVM50R0320B100180C**	3	100	180	20,0	10,50	50
6079416	**EVM50R0320B180250C**	3	180	250	20,0	10,50	50
6079417	**EVM50R0320B250350C**	3	250	350	20,0	10,50	50
6079418	**EVM50R0320B350999C**	3	350	999	20,0	10,50	50
6079429	**EVM50R0416B040050C**	4	40	50	16,0	10,00	50
6079430	**EVM50R0416B050060C**	4	50	60	16,0	10,00	50
6079451	**EVM50R0416B060075C**	4	60	75	16,0	10,00	50
6079452	**EVM50R0416B075100C**	4	75	100	16,0	10,00	50
6117091	**EVM50R0416B100180C**	4	100	180	16,0	10,00	50
6117095	**EVM50R0416B180250C**	4	180	250	16,0	10,00	50
6117099	**EVM50R0416B250350C**	4	250	350	16,0	10,00	50
6117103	**EVM50R0416B350999C**	4	350	999	16,0	10,00	50
6079453	**EVM50R0426B100180C**	4	100	180	26,0	10,00	50

(continua)

(Lama per scanalatura frontale esterna modulare con refrigerante — continua)

numero d'ordine	codice catalogo	dimensione sede	D min	D max	CD	FS	dimensioni della lama
6079454	EVM50R0426B180250C	4	180	250	26,0	10,00	50
6079455	EVM50R0426B250350C	4	250	350	26,0	10,00	50
6079456	EVM50R0426B350999C	4	350	999	26,0	10,00	50
6079457	EVM50R0520B050060C	5	50	60	20,0	9,50	50
6079458	EVM50R0520B060075C	5	60	75	20,0	9,50	50
6079459	EVM50R0520B075100C	5	75	100	20,0	9,50	50
6079460	EVM50R0520B100180C	5	100	180	20,0	9,50	50
6079461	EVM50R0520B180250C	5	180	250	20,0	9,50	50
6079462	EVM50R0520B250350C	5	250	350	20,0	9,50	50
6079463	EVM50R0520B350999C	5	350	999	20,0	9,50	50
6079246	EVM65R0620B060075C	6	60	75	20,0	9,88	65
6079247	EVM65R0620B075100C	6	75	100	20,0	9,88	65
6079248	EVM65R0620B100180C	6	100	180	20,0	9,88	65
6079249	EVM65R0620B180250C	6	180	250	20,0	9,88	65
6079250	EVM65R0620B250350C	6	250	350	20,0	9,88	65
6079261	EVM65R0620B350999C	6	350	999	20,0	9,88	65
6079262	EVM65R0820B080180C	8	80	180	20,0	9,00	65
6079263	EVM65R0820B180999C	8	180	999	20,0	9,00	65
sinistro							
6079420	EVM50L0312B035040C	3	35	40	12,0	10,50	50
6079421	EVM50L0312B040050C	3	40	50	12,0	10,50	50
6079422	EVM50L0312B050060C	3	50	60	12,0	10,50	50
6079423	EVM50L0312B060075C	3	60	75	12,0	10,50	50
6117062	EVM50L0312B075100C	3	75	100	12,0	10,50	50
6117066	EVM50L0312B100180C	3	100	180	12,0	10,50	50
6117070	EVM50L0312B180250C	3	180	250	12,0	10,50	50
6117074	EVM50L0312B250350C	3	250	350	12,0	10,50	50
6117078	EVM50L0312B350999C	3	350	999	12,0	10,50	50
6079424	EVM50L0320B075100C	3	75	100	20,0	10,50	50
6079425	EVM50L0320B100180C	3	100	180	20,0	10,50	50
6079426	EVM50L0320B180250C	3	180	250	20,0	10,50	50
6079427	EVM50L0320B250350C	3	250	350	20,0	10,50	50
6079428	EVM50L0320B350999C	3	350	999	20,0	10,50	50
6079464	EVM50L0416B040050C	4	40	50	16,0	10,00	50
6079465	EVM50L0416B050060C	4	50	60	16,0	10,00	50
6079466	EVM50L0416B060075C	4	60	75	16,0	10,00	50
6079467	EVM50L0416B075100C	4	75	100	16,0	10,00	50
6117092	EVM50L0416B100180C	4	100	180	16,0	10,00	50
6117096	EVM50L0416B180250C	4	180	250	16,0	10,00	50
6117100	EVM50L0416B250350C	4	250	350	16,0	10,00	50
6117104	EVM50L0416B350999C	4	350	999	16,0	10,00	50
6079468	EVM50L0426B100180C	4	100	180	26,0	10,00	50
6079469	EVM50L0426B180250C	4	180	250	26,0	10,00	50
6079470	EVM50L0426B250350C	4	250	350	26,0	10,00	50

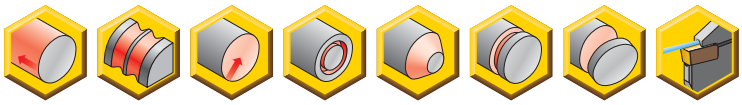
(continua)

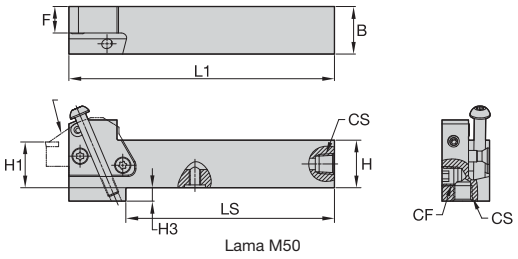
(Lama per scanalatura frontale esterna modulare con refrigerante — continua)

numero d'ordine	codice catalogo	dimensione sede	D min	D max	CD	FS	dimensioni della lama
6079471	EVM50L0426B350999C	4	350	999	26,0	10,00	50
6079472	EVM50L0520B050060C	5	50	60	20,0	9,50	50
6079473	EVM50L0520B060075C	5	60	75	20,0	9,50	50
6079474	EVM50L0520B075100C	5	75	100	20,0	9,50	50
6079475	EVM50L0520B100180C	5	100	180	20,0	9,50	50
6079476	EVM50L0520B180250C	5	180	250	20,0	9,50	50
6079477	EVM50L0520B250350C	5	250	350	20,0	9,50	50
6079478	EVM50L0520B350999C	5	350	999	20,0	9,50	50
6079266	EVM65L0620B060075C	6	60	75	20,0	9,88	65
6079267	EVM65L0620B075100C	6	75	100	20,0	9,88	65
6079268	EVM65L0620B100180C	6	100	180	20,0	9,88	65
6079269	EVM65L0620B180250C	6	180	250	20,0	9,88	65
6079270	EVM65L0620B250350C	6	250	350	20,0	9,87	65
6079271	EVM65L0620B350999C	6	350	999	20,0	9,88	65
6079272	EVM65L0820B080180C	8	80	180	20,0	9,00	65
6079273	EVM65L0820B180999C	8	180	999	20,0	9,00	65

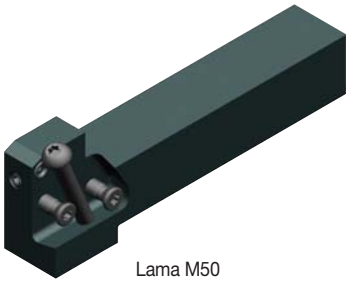
NOTA: Adduzione interna del refrigerante disponibile nelle dimensioni sede 3 e superiori.

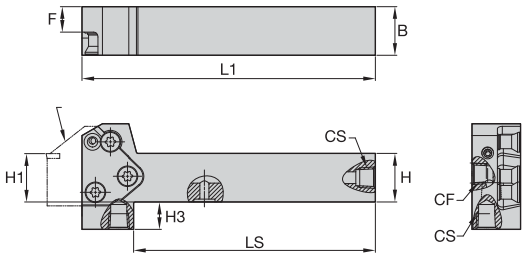
- Lame intercambiabili per versatilità e profondità di taglio.
- Adduzione interna del refrigerante.



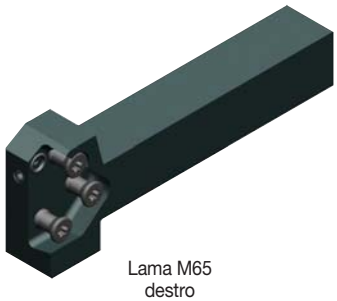


Lama M50


Lama M50
destro



Lama M65


Lama M65
destro

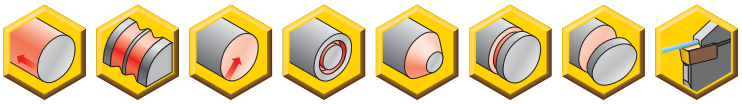
Portautensili assiale modulare con refrigerante • Sistema metrico

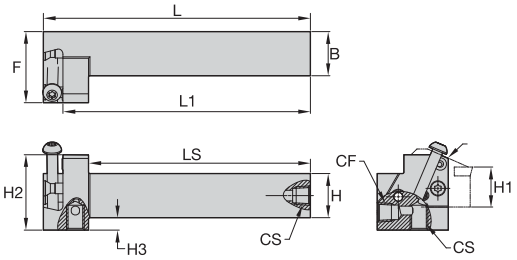
numero d'ordine	codice catalogo	B	H	H1	L1	F	CS	CF	LS	H3	dimen-sioni della lama	vite lama	Torx	vite di serraggio	Torx
destro															
5979190	**KGMSR2525M50C**	25	25	25	138,75	13,84	G 1/8	G 1/8	109,00	7,00	50	**MS1162**	T25	**MS2002**	T25
5979745	**KGMSR2525M65C**	25	25	25	150,00	13,00	G 1/8	G 1/8	122,00	14,00	65	**MS1163**	T30	**–**	–
5979746	**KGMSR3232P50C**	32	32	32	158,75	20,81	G 1/8	G 1/8	133,62	–	50	**MS1162**	T25	**MS2002**	T25
5979747	**KGMSR3232P65C**	32	32	32	170,00	20,00	G 1/8	G 1/8	138,50	7,00	65	**MS1163**	T30	**–**	–
sinistro															
5979191	**KGMSL2525M50C**	25	25	25	138,75	13,84	G 1/8	G 1/8	109,00	7,00	50	**MS1162**	T25	**MS2002**	T25
5979748	**KGMSL2525M65C**	25	25	25	150,00	13,00	G 1/8	G 1/8	122,00	14,00	65	**MS1163**	T30	**–**	–
5979749	**KGMSL3232P50C**	32	32	32	158,75	20,80	G 1/8	G 1/8	133,62	–	50	**MS1162**	T25	**MS2002**	T25
5979750	**KGMSL3232P65C**	32	32	32	170,00	20,00	G 1/8	G 1/8	142,00	7,00	65	**MS1163**	T30	**–**	–

NOTA: KGMS..: Il portautensile destro utilizza lame destre.
KGME..: Il portautensile destro utilizza lame sinistre.
La coppia della vite lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71–88 pollici/libbre).
La coppia della vite lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).

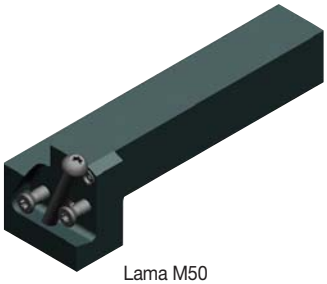
vite	vite	Coppia				chiave	chiave
codice catalogo	numero d'ordine	Mn	in. Lbs.	tipologia	Impronta	codice catalogo	numero d'ordine
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- Lame intercambiabili per versatilità e profondità di taglio.
- Adduzione interna del refrigerante.

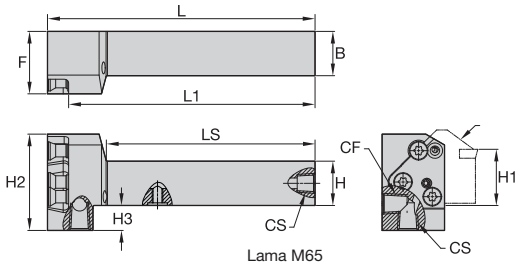




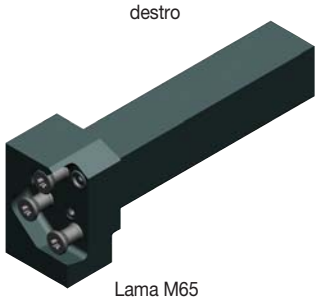
Lama M50



Lama M50 destro



Lama M65



Lama M65 destro

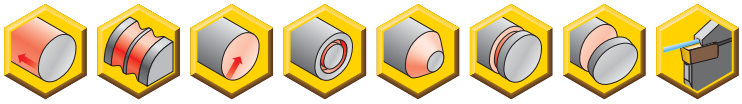
Portautensili a montaggio radiale modulare con refrigerante • Sistema metrico

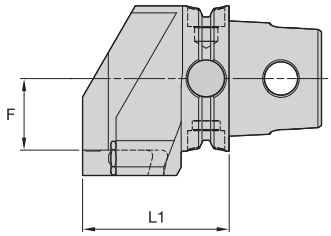
numero d'ordine	codice catalogo	B	H	H1	L1	F	CS	CF	LS	H3	dimen-sioni della lama	vite lama	Torx	vite di serraggio	Torx
destro															
5979765	**KGMER2525M65C**	25	25	25	138,15	35,00	G 1/8	G 1/8	117,00	14,00	65	**MS1163**	T30	**–**	–
5979192	**KGMER2525M50C**	25	25	25	139,25	40,00	G 1/8	G 1/8	124,85	7,00	50	**MS1162**	T25	**MS2002**	T25
5979767	**KGMER3232P65C**	32	32	32	158,15	35,00	G 1/8	G 1/8	137,00	7,00	65	**MS1163**	T30	**–**	–
5979766	**KGMER3232P50C**	32	32	32	159,25	40,00	G 1/8	G 1/8	145,25	–	50	**MS1162**	T25	**MS2002**	T25
sinistro															
5979768	**KGMEL2525M65C**	25	25	25	138,15	35,00	G 1/8	G 1/8	117,00	14,00	65	**MS1163**	T30	**–**	–
5979193	**KGMEL2525M50C**	25	25	25	139,25	40,00	G 1/8	G 1/8	124,85	7,00	50	**MS1162**	T25	**MS2002**	T25
5979770	**KGMEL3232P65C**	32	32	32	158,15	35,00	G 1/8	G 1/8	137,00	7,00	65	**MS1163**	T30	**–**	–
5979769	**KGMEL3232P50C**	32	32	32	159,25	40,00	G 1/8	G 1/8	145,25	–	50	**MS1162**	T25	**MS2002**	T25

NOTA: KGMS..: Il portautensile destro utilizza lame destre.
KGME..: Il portautensile destro utilizza lame sinistre.
La coppia della vite lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71–88 pollici/libbre).
La coppia della vite lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).

vite codice catalogo	vite numero d'ordine	Coppia Mn	Coppia in. Lbs.	tipologia	Impronta	chiave codice catalogo	chiave numero d'ordine
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- Migliore piattaforma a cambio rapido KM.
- Adduzione di refrigerante nella sede.
- Lame intercambiabili per versatilità e profondità di taglio.





destro

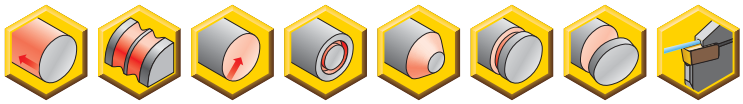
KM™ QUICK CHANGE

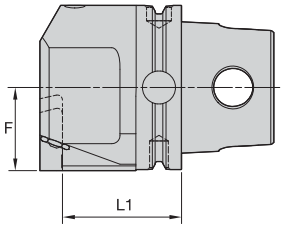
Sistema KM montaggio assiale modulare con refrigerante

numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
5999790	**KM40TSKGMSR50C**	KM40TS	53,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000422	**KM50TSKGMSR65C**	KM50TS	53,5	22,0	65	**MS1163**	T30	**–**	–
5999864	**KM50TSKGMSR50C**	KM50TS	58,5	23,0	50	**MS1162**	T25	**MS2002**	T25
6000431	**KM63TSKGMSR65C**	KM63TS	58,5	30,0	65	**MS1163**	T30	**–**	–
5999948	**KM63TSKGMSR50C**	KM63TS	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
5999972	**KM63XMZKGMSR50CY**	KM63XMZ	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
6017695	**KM80TSKGMSR65C**	KM80TS	63,5	40,0	65	**MS1163**	T30	**–**	–
6000018	**KM80ATCKGMSR50C**	KM80ATC	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
6000014	**KM80TSKGMSR50C**	KM80TS	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
sinistro									
5999861	**KM40TSKGMSL50C**	KM40TS	53,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000424	**KM50TSKGMSL65C**	KM50TS	53,5	22,0	65	**MS1163**	T30	**–**	–
5999865	**KM50TSKGMSL50C**	KM50TS	58,5	23,0	50	**MS1162**	T25	**MS2002**	T25
6000433	**KM63TSKGMSL65C**	KM63TS	58,5	30,0	65	**MS1163**	T30	**–**	–
5999949	**KM63TSKGMSL50C**	KM63TS	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
5999973	**KM63XMZKGMSLF50CY**	KM63XMZ	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
6017696	**KM80TSKGMSL65C**	KM80TS	63,5	40,0	65	**MS1163**	T30	**–**	–
6000019	**KM80ATCKGMSL50C**	KM80ATC	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
6000015	**KM80TSKGMSL50C**	KM80TS	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25

NOTA: KGMS..: Il portautensile destro utilizza lame destre.
KGME..: Il portautensile destro utilizza lame sinistre.
La coppia della vite lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71–88 pollici/libbre).
La coppia della vite lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).

- Migliore piattaforma a cambio rapido KM.
- Adduzione di refrigerante nella sede.
- Lame intercambiabili per versatilità e profondità di taglio.





destro

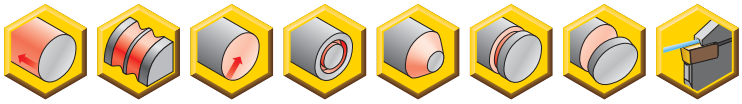
KM™ QUICK CHANGE

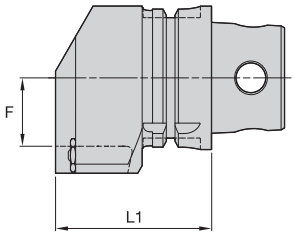
Sistema KM montaggio radiale modulare con refrigerante • Sistema metrico

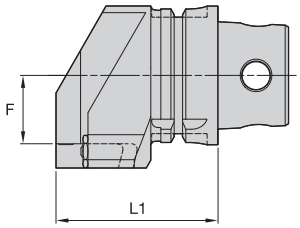
numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
5999788	**KM40TSKGMER50C**	KM40TS	28,0	20,50	50	**MS1162**	T25	**MS2002**	T25
5999862	**KM50TSKGMER50C**	KM50TS	38,0	25,50	50	**MS1162**	T25	**MS2002**	T25
6000410	**KM50TSKGMER65C**	KM50TS	47,0	25,50	65	**MS1163**	T30	**–**	–
6000425	**KM63TSKGMER65C**	KM63TS	47,0	32,52	65	**MS1163**	T30	**–**	–
5999946	**KM63TSKGMER50C**	KM63TS	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6000434	**KM63XMZKGMER65CY**	KM63XMZ	47,0	32,50	65	**MS1163**	T30	**–**	–
5999950	**KM63XMZKGMER50CY**	KM63XMZ	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6017697	**KM80ATCKGMER65C**	KM80ATC	57,0	40,50	65	**MS1163**	T30	**–**	–
6000016	**KM80ATCKGMER50C**	KM80ATC	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
6017693	**KM80TSKGMER65C**	KM80TS	57,0	40,50	65	**MS1163**	T30	**–**	–
6000012	**KM80TSKGMER50C**	KM80TS	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
sinistro									
5999789	**KM40TSKGMEL50C**	KM40TS	28,0	20,50	50	**MS1162**	T25	**MS2002**	T25
5999863	**KM50TSKGMEL50C**	KM50TS	38,0	25,50	50	**MS1162**	T25	**MS2002**	T25
6000421	**KM50TSKGMEL65C**	KM50TS	47,0	25,50	65	**MS1163**	T30	**–**	–
6000430	**KM63TSKGMEL65C**	KM63TS	47,0	32,52	65	**MS1163**	T30	**–**	–
5999947	**KM63TSKGMEL50C**	KM63TS	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6000436	**KM63XMZKGMELF65CY**	KM63XMZ	47,0	32,50	65	**MS1163**	T30	**–**	–
5999971	**KM63XMZKGMELF50CY**	KM63XMZ	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6017698	**KM80ATCKGMEL65C**	KM80ATC	57,0	40,50	65	**MS1163**	T30	**–**	–
6000017	**KM80ATCKGMEL50C**	KM80ATC	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
6017694	**KM80TSKGMEL65C**	KM80TS	57,0	40,50	65	**MS1163**	T30	**–**	–
6000013	**KM80TSKGMEL50C**	KM80TS	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25

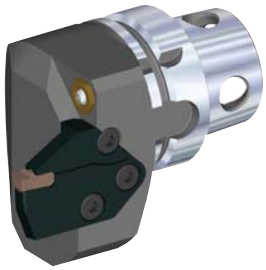
NOTA: KGMS..: Il portautensile destro utilizza lame destre.
KGME..: Il portautensile destro utilizza lame sinistre.
La coppia della vite lama M50 e della vite di bloccaggio deve essere di 8–10 nm (71–88 pollici/libbre).
La coppia della vite lama M65 e della vite di bloccaggio deve essere di 18–20 nm (159–177 pollici/libbre).

- Adduzione interna del refrigerante.
- Lame intercambiabili per versatilità e profondità di taglio.







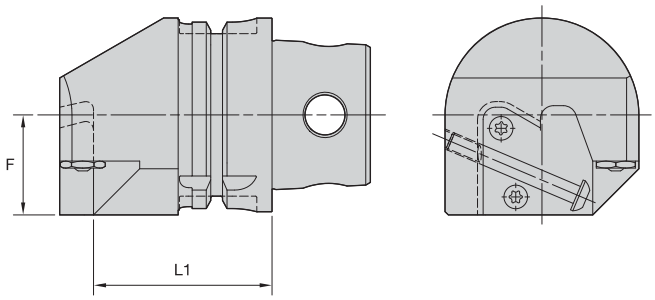


destro

Sistema modulare KM4X™ assiale con refrigerante

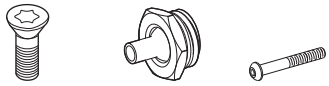
numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
5543560	**KM4X63KGMSR65C**	KM4X63	68,5	30,0	65	**MS1163**	T30	**–**	–
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	31,0	50	**MS1162**	T25	**MS2002**	T25
sinistro									
5543558	**KM4X63KGMSL65C**	KM4X63	68,5	30,0	65	**MS1163**	T30	**–**	–
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	31,0	50	**MS1162**	T25	**MS2002**	T25

NOTA: KGMS..: Il portautensile destro utilizza lame destre.
KGME..: Il portautensile destro utilizza lame sinistre.
La coppia della vite lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71-88 pollici/libbre).
La coppia della vite lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).



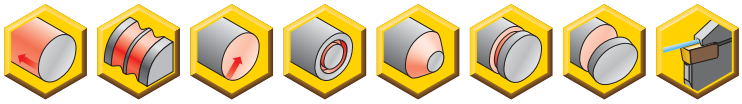
destro

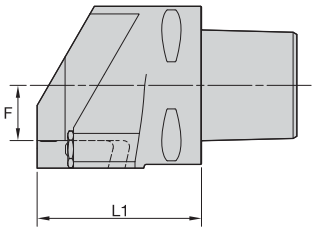
Sistema KM4X™ montaggio radiale modulare con refrigerante

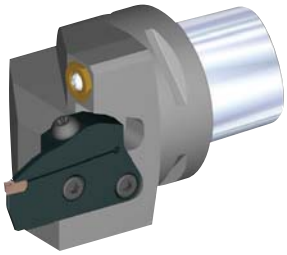


numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensione cartuccia	vite lama	ugello	vite staffa	kg	lbs
destro										
5543555	**KM4X63KGMER65C**	KM4X63	57,0	32,5	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000404	**KM4X63KGMER50C**	KM4X63	58,0	32,5	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	31,0	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11
sinistro										
5543553	**KM4X63KGMEL65C**	KM4X63	57,0	32,5	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000405	**KM4X63KGMEL50C**	KM4X63	58,0	32,5	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	31,0	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11

- Piattaforma a cambio rapido PSC standard.
- Adduzione interna del refrigerante.
- Lame intercambiabili per versatilità e profondità di taglio.





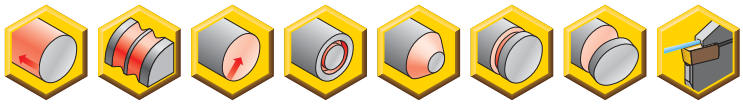


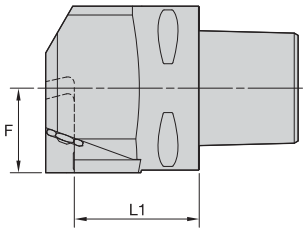
destro

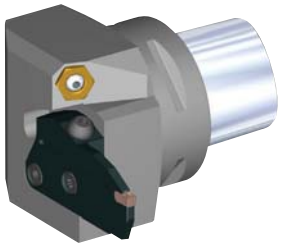
Sistema modulare assiale con refrigerante

numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
6000028	**PSC40KGMSR50C**	PSC40	63,5	10,0	50	**MS1162**	T25	**MS2002**	T25
5405654	**PSC50KGMSR65C**	PSC50	49,0	25,5	65	**MS1163**	T30	**–**	–
6000152	**PSC50KGMSR50C**	PSC50	63,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000464	**PSC63KGMSR65C**	PSC63	60,5	21,0	65	**MS1163**	T30	**–**	–
6000211	**PSC63KGMSR50C**	PSC63	65,5	22,0	50	**MS1162**	T25	**MS2002**	T25
6000468	**PSC80KGMSR65C**	PSC80	68,5	29,0	65	**MS1163**	T30	**–**	–
6000216	**PSC80KGMSR50C**	PSC80	73,5	30,0	50	**MS1162**	T25	**MS2002**	T25
sinistro									
6000029	**PSC40KGMSL50C**	PSC40	63,5	10,0	50	**MS1162**	T25	**MS2002**	T25
5405655	**PSC50KGMSL65C**	PSC50	49,0	25,5	65	**MS1163**	T30	**–**	–
6000153	**PSC50KGMSL50C**	PSC50	63,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000465	**PSC63KGMSL65C**	PSC63	60,5	21,0	65	**MS1163**	T30	**–**	–
6000213	**PSC63KGMSL50C**	PSC63	65,5	22,0	50	**MS1162**	T25	**MS2002**	T25
6000469	**PSC80KGMSL65C**	PSC80	68,5	29,0	65	**MS1163**	T30	**–**	–
6000217	**PSC80KGMSL50C**	PSC80	73,5	30,0	50	**MS1162**	T25	**MS2002**	T25

- Piattaforma a cambio rapido PSC standard.
- Adduzione interna del refrigerante.
- Lame intercambiabili per versatilità e profondità di taglio.







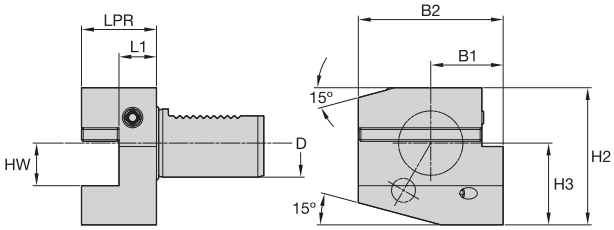
destro

Sistema modulare PSC radiale con refrigerante

numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
6000026	**PSC40KGMER50C**	PSC40	33,0	20,5	50	**MS1162**	T25	**MS2002**	T25
6000030	**PSC50KGMER50C**	PSC50	43,0	25,5	50	**MS1162**	T25	**MS2002**	T25
5405652	**PSC50KGMER65C**	PSC50	55,5	22,0	65	**MS1163**	T30	**–**	–
6000159	**PSC63KGMER50C**	PSC63	48,0	32,5	50	**MS1162**	T25	**MS2002**	T25
6000462	**PSC63KGMER65C**	PSC63	49,0	32,5	65	**MS1163**	T30	**–**	–
6000466	**PSC80KGMER65C**	PSC80	57,0	40,5	65	**MS1163**	T30	**–**	–
6000214	**PSC80KGMER50C**	PSC80	58,0	40,5	50	**MS1162**	T25	**MS2002**	T25
sinistro									
6000027	**PSC40KGMEL50C**	PSC40	33,0	20,5	50	**MS1162**	T25	**MS2002**	T25
6000151	**PSC50KGMEL50C**	PSC50	43,0	25,5	50	**MS1162**	T25	**MS2002**	T25
5405653	**PSC50KGMEL65C**	PSC50	55,5	22,0	65	**MS1163**	T30	**–**	–
6000160	**PSC63KGMEL50C**	PSC63	48,0	32,5	50	**MS1162**	T25	**MS2002**	T25
6000463	**PSC63KGMEL65C**	PSC63	49,0	32,5	65	**MS1163**	T30	**–**	–
6000467	**PSC80KGMEL65C**	PSC80	57,0	40,5	65	**MS1163**	T30	**–**	–
6000215	**PSC80KGMEL50C**	PSC80	58,0	40,5	50	**MS1162**	T25	**MS2002**	T25

Portautensili VDI

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.

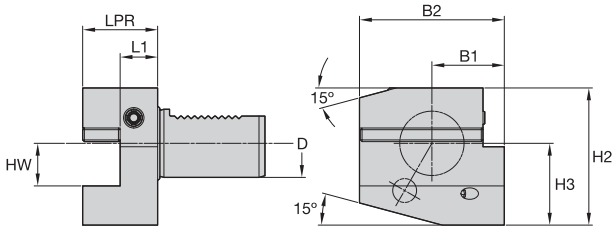


VDI Forma B1• HPC • Corto destro • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	HW	H2	H3	L1	LPR
6151491	**VDIB1M302040C**	30,00	70,00	35,00	20,00	66,00	38,00	22,00	40,00
6151492	**VDIB1M402544C**	40,00	85,00	42,50	25,00	80,50	48,00	22,00	44,00

VDI Forma B2 • Corto sinistro

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.

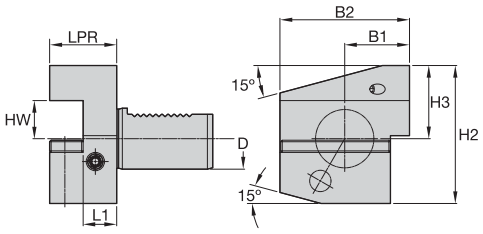


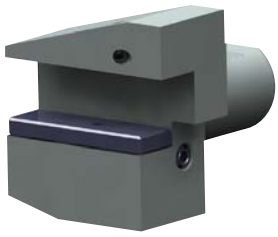
Il disegno mostra l'utensile destro.
Utensile sinistro speculare.

VDI Forma B2 • HPC • Corto sinistro • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	HW	H2	H3	L1	LPR
6151493	**VDIB2M302040C**	30,00	70,00	35,00	20,00	66,00	38,00	22,00	40,00
6151494	**VDIB2M402544C**	40,00	85,00	42,50	25,00	80,50	48,00	22,00	44,00

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.



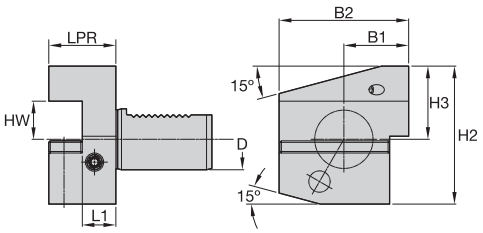


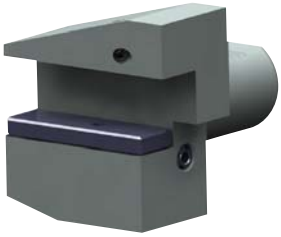
VDI Forma B3 • HPC • Corto destro invertito • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	HW	H2	H3	L1	LPR
6151495	**VDIB3M302040C**	30,00	70,00	35,00	20,00	73,00	38,00	22,00	40,00
6151497	**VDIB3M402544C**	40,00	85,00	42,50	25,00	90,50	48,00	22,00	44,00

VDI Forma B4 • Corto sinistro invertito

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.



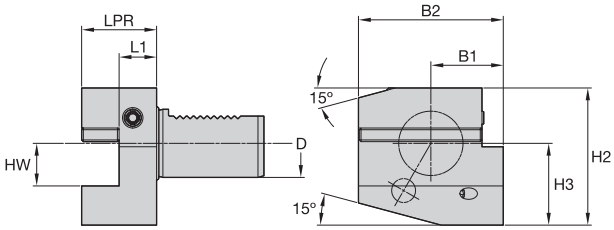


Il disegno mostra l'utensile destro.
Utensile sinistro speculare.

VDI Forma B4 • HPC • Corto sinistro invertito • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	HW	H2	H3	L1	LPR
6151498	**VDIB4M302040C**	30,00	70,00	35,00	20,00	73,00	38,00	22,00	40,00
6151499	**VDIB4M402544C**	40,00	85,00	42,50	25,00	90,50	48,00	22,00	44,00

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.

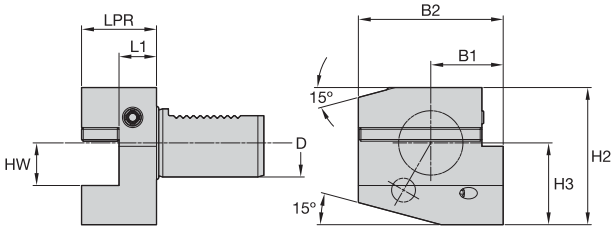


VDI Forma B5 • HPC • Lungo destro • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	HW	H2	H3	L1	LPR
6151500	**VDIB5M302040C**	30,00	100,00	65,00	20,00	66,00	38,00	22,00	40,00
6151511	**VDIB5M402544C**	40,00	118,00	75,50	25,00	80,50	48,00	22,00	44,00

VDI Forma B6 • Lungo sinistro

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.

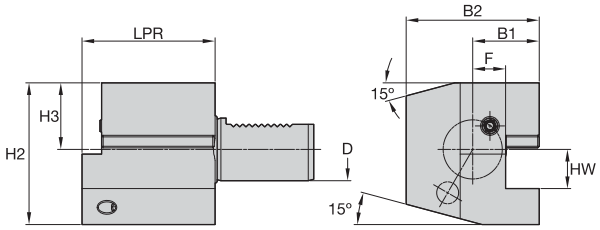


Il disegno mostra l'utensile destro.
Utensile sinistro speculare.

VDI Forma B6 • HPC • Lungo sinistro • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	HW	H2	H3	L1	LPR
6151512	**VDIB6M302040C**	30,00	100,00	65,00	20,00	66,00	38,00	22,00	40,00
6151513	**VDIB6M402544C**	40,00	118,00	75,50	25,00	80,50	48,00	22,00	44,00

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.

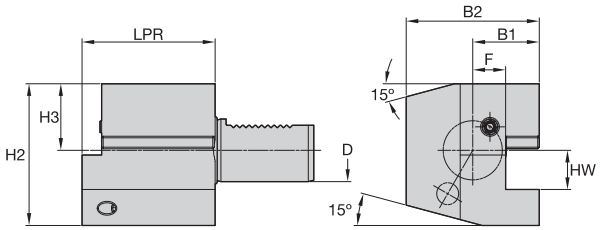


VDI Forma C1 • HPC • Destro • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	F	HW	H2	H3	LPR
6151514	**VDIC1M302070C**	30,00	70,00	35,00	17,00	20,00	66,00	38,00	70,00
6151515	**VDIC1M402585C**	40,00	85,00	42,50	21,00	25,00	80,50	48,00	85,00

VDI Forma C2 • Sinistro

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.

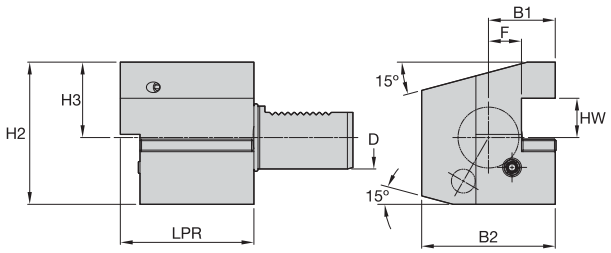


Il disegno mostra l'utensile destro.
Utensile sinistro speculare.

VDI Forma C2 • HPC • Sinistro • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	F	HW	H2	H3	LPR
6151516	**VDIC2M302070C**	30,00	76,00	41,00	23,00	20,00	66,00	38,00	70,00
6151517	**VDIC2M402585C**	40,00	90,00	47,50	25,50	25,00	80,50	48,00	85,00

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.

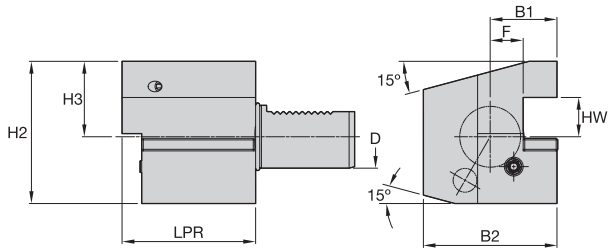


VDI Forma C3 • HPC • Destro invertito • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	F	HW	H2	H3	LPR
6151518	**VDIC3M302070C**	30,00	70,00	35,00	17,00	20,00	73,00	38,00	70,00
6151519	**VDIC3M402585C**	40,00	85,00	42,50	21,00	25,00	90,50	48,00	85,00

VDI Forma C4 • Sinistro invertito

- Adattatore VDI con supporto refrigerante per portautensili con codolo quadro.
- ISO 10889.



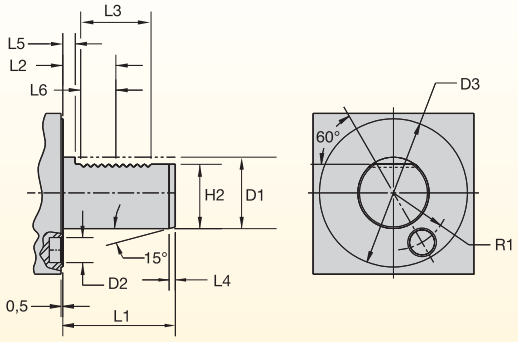
Il disegno mostra l'utensile destro.
Utensile sinistro speculare.

VDI Forma C4 • HPC • Sinistro invertito • Sistema metrico

numero d'ordine	codice catalogo	D	B2	B1	F	HW	H2	H3	LPR
6151520	**VDIC4M302070C**	30,00	70,00	35,00	17,00	20,00	73,00	38,00	70,00
6151521	**VDIC4M402585C**	40,00	85,00	42,50	21,00	25,00	90,50	48,00	85,00

Specifiche del codolo

ISO 10889



	D1	D2	D3	L1	L2	L3	L4	L5	L6	H2	R1
30	30,00	14,00	68,00	55,00	29,70	40,00	2,00	7,00	20,00	27,00	25,00
	1.181	0.551	2.677	2.165	1.169	1.575	0.087	0.276	0.787	1.063	0.984
40	40,00	14,00	83,00	63,00	29,70	40,00	3,00	7,00	20,00	36,00	32,00
	1.575	0.551	3.268	2.480	1.169	1.575	0.118	0.276	0.787	1.417	1.260
50	50,00	16,00	98,00	78,00	35,70	48,00	3,00	8,00	24,00	45,00	37,00
	1.969	0.630	3.858	3.071	1.406	1.890	0.118	0.315	0.945	1.772	1.457
60	60,00	16,00	123,00	94,00	43,70	56,00	4,00	10,00	28,00	55,00	48,00
	2.362	0.630	4.843	3.701	1.720	2.205	0.157	0.394	1.102	2.165	1.890

Utensili A4™ e inserti Beyond™

Gli inserti A4 consentono lavorazioni di tornitura, spianatura, scanalatura, scanalatura frontale e troncatura per una vasta gamma di materiali da lavorare. Il sistema di bloccaggio unico e la versatilità delle geometrie inserto permettono un alto tasso di rimozione di truciolo.

CARATTERISTICHE E VANTAGGI

Scanalatura A4 e sistema di tornitura

- Si tratta di un utensile per lavorazioni di tornitura, spianatura, scanalatura, scanalatura frontale e troncatura, per applicazioni interne ed esterne; tutto questo si traduce in tempi ciclo eccezionalmente veloci, senza indexaggio della torretta!
- L'area di bloccaggio estremamente lunga, la sede inferiore prismatica a 120° rettificata e l'esclusiva guida superiore si combinano per offrire una stabilità senza confronti nelle operazioni di scanalatura e tornitura laterale!
- L'accurato posizionamento dell'inserto garantisce tagli della massima precisione!
- Il bloccaggio rigido blocca saldamente l'inserto per facilitare i tagli più difficili.
- Il design versatile consente a un singolo sistema di gestire le operazioni di scanalatura sia del diametro interno che di quello esterno, di scanalatura frontale, di tornitura posteriore, di sottotaglio e persino quelle di filettatura.
- Gli inserti consentono un'eccellente evacuazione del truciolo nella scanalatura ed offrono un migliore controllo nella tornitura multidirezionale.

Scoprite i vantaggi presso il partner di distribuzione autorizzato Kennametal o visitate il sito **kennametal.com**.

KENNAMETAL®

kennametal.com

beyond™ EVOLUTION™

Collegare l'utensile alla macchina è facile. Basta scegliere uno dei due pacchetti di tubi disponibili e il controllo attivo del refrigerante vi garantirà tutto il raffreddamento di cui avete bisogno in un attimo!

Non sapete esattamente che cosa vi serve?

Per collegare gli utensili Beyond™ Evolution™ alle macchine più comuni dell'industria, i pacchetti refrigeranti universali Kennametal sono l'ideale! Ogni pacchetto contiene le dimensioni di filettatura tipiche con svariati tipi di adattatori, per la massima flessibilità.

Pacchetto refrigerante universale da 200mm

numero d'ordine	codice catalogo	quantità	descrizione
6145372	COOL-KIT-101	1	Adattatore maschio 1/16 NPTF - maschio 7/16 JIC
		1	Adattatore maschio 1/8 NPTF - maschio 7/16 JIC
		1	Adattatore maschio G1/8 - maschio 7/16 JIC
		1	Adattatore maschio M10 1,5 - maschio 7/16 JIC
		2	Gomito maschio JIC - femmina girevole JIC
		1	Tubo flessibile femmina JIC da 200mm - femmina JIC

Pacchetto refrigerante universale da 300mm

numero d'ordine	codice catalogo	quantità	descrizione
6145373	COOL-KIT-201	1	Adattatore maschio 1/16 NPTF - maschio 7/16 JIC
		1	Adattatore maschio 1/8 NPTF - maschio 7/16 JIC
		1	Adattatore maschio G1/8 - maschio 7/16 JIC
		1	Adattatore maschio M10 1,5 - maschio 7/16 JIC
		2	Gomito maschio JIC - femmina girevole JIC
		1	Tubo flessibile femmina JIC da 300mm - femmina JIC

Sapete che cosa vi serve?

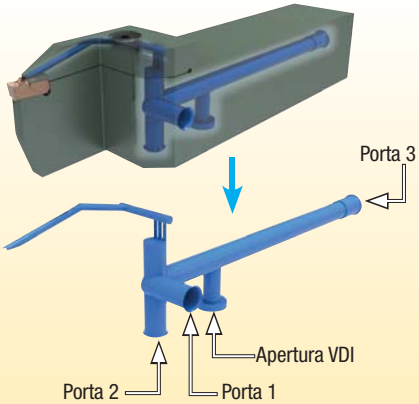
Ogni componente è disponibile individualmente, compresi gli adattatori meno comuni.
Se sapete con precisione quali componenti vi servono, potete scegliere solo gli adattatori effettivamente necessari!

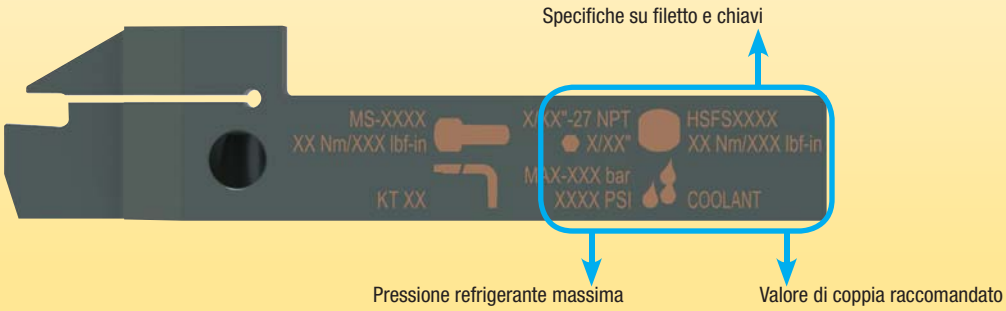
Accessori tubi refrigerante

numero d'ordine	codice catalogo	descrizione
6145374	1-16NPTF-JIC	Adattatore maschio 1/16 NPTF — maschio 7/16 JIC
6145375	1-8NPTF-JIC	Adattatore maschio 1/8 NPTF — maschio 7/16 JIC
6145376	G18-JIC	Adattatore maschio G1/8 — maschio 7/16 JIC
6145377	M10-JIC	Adattatore maschio M10 x 1,0 — maschio 7/16 JIC
6145379	JICM-JICF-ELB	Gomito maschio JIC — femmina girevole JIC
6145380	COOL-HOSE-200	Femmina JIC da 200mm — femmina JIC
6145381	COOL-HOSE-300	Femmina JIC da 300mm — femmina JIC
6145382	M6-JIC	Adattatore maschio M6 x 1,0 — maschio 7/16 JIC
6145378	M8-JIC	Adattatore maschio M8 x 1,25 — maschio 7/16 JIC
6145383	JICM-JICM-STR	Adattatore maschio 7/16 JIC — maschio 7/16 JIC
6145386	G14-G18-RED	Riduttore maschio G1/4 — femmina G1/8
6432549	COOL-HOSE-200-FLEX	Tubo flessibile del liquido refrigerante universale 200mm
6432550	COOL-HOSE-300-FLEX	Tubo flessibile del liquido refrigerante universale 300mm

Linee guida sul controllo attivo del refrigerante

1. Sistema Beyond™ Evolution™ in grado di arrivare a 350 bar (5076 psi).
2. Portautensili fornito con quattro fori di ingresso.
3. Un sistema di filtraggio di qualità è necessario per impedire l'ostruzione del portautensili, il che si ripercuoterebbe sia sul flusso di refrigerante che sulle prestazioni.
4. Le macchine che non sono dotate di un sistema di filtraggio adeguato possono richiedere modifiche o un filtro di linea.
   - Per pressioni >70 bar [1015 psi], utilizzare filtri da 10–20 µm.
   - Per pressioni <70 bar [1015 psi], 50–100 µm.
   - L'utilizzo di filtri fini nelle applicazioni a bassa pressione può influire sulla portata.





Linee guida generali sulla sicurezza

1. Tutte le porte e i meccanismi di sicurezza devono essere attivi prima di provare l'adduzione interna di refrigerante, onde evitare qualsiasi rischio per l'operatore in caso di guasto.
2. Utilizzare i raccordi giusti per collegare i portautensili al sistema. Assicurarsi che la pressione massima raccomandata per i raccordi non sia superata.
3. Nell'applicare una pressione >80 bar [1160 psi], aumentare la pressione gradualmente per assicurare il funzionamento corretto del bloccaggio dell'inserto e l'assenza di perdite sui giunti.
4. Nel fissare gli inserti, controllare che la sede sia libera da trucioli e/o sporcizia. Ispezionare inoltre l'inserto e assicurarsi che la canalina del refrigerante non sia ostruita.
5. Verificare periodicamente che nessun tubo flessibile o raccordo sia danneggiato o usurato, onde assicurare un corretto funzionamento del sistema. Questo controllo deve comprendere anche i filtri.

Prestazioni del controllo attivo del refrigerante

L'adduzione interna di refrigerante offre un chiaro vantaggio in termini di durata dell'utensile e di formazione/evacuazione del truciolo rispetto all'adduzione esterna di refrigerante in condizioni difficili e con refrigerante ad alta pressione.
Esempio: Rottura del truciolo nella fresatura a tuffo dell'acciaio.

Refrigerante fluido

Adduzione interna di refrigerante

75 bar
(1,087 psi)

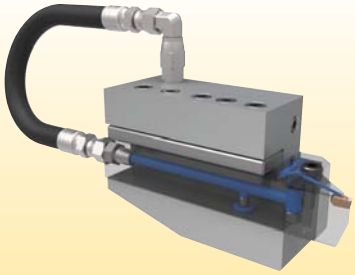
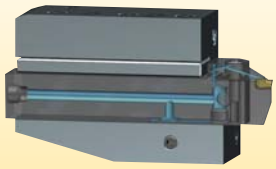
200 bar
(2,900 psi)

Materiale: acciaio ST52;
Dimensione dell'inserto: 6mm;
f = 0,25 mm/U

Bassa pressione — Se le prestazioni sono a rischio perché la pressione del refrigerante è bassa, applicare l'adduzione interna di refrigerante in combinazione con l'adduzione esterna dello stesso per aumentare il volume.

Consiglio per migliorare la durata dell'utensile e/o la produttività: Applicare refrigerante ad alta pressione: 80–350 bar raccomandati.

Gruppi VDI
Il controllo attivo del refrigerante Beyond™ Evolution™ può essere fornito mediante i sistemi di supporto VDI con entrambi i raccordi (refrigerante tradizionale e a cambio rapido).

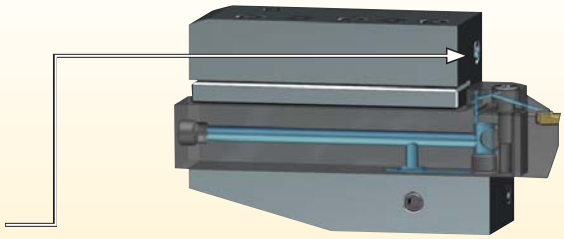



Trasferimento del flusso di refrigerante dall'adattatore VDI al portautensili

Il contrassegno sul portautensili deve rimanere entro il campo del refrigerante indicato sul sistema VDI per assicurare un trasferimento ininterrotto del refrigerante.

Dettagli tecnici

Limite di pressione 80 bar.



Il set di ugelli viene fornito preassemblato.
Per l'applicazione del portautensili solo con adduzione interna di refrigerante è possibile tappare l'ugello con una vite M5 (inclusa). Utilizzare Loctite a bassa o media tenuta o un sigillante per filettature.

Portautensili	Area di scorrimento	Max. Pressione	Coppia (viti di regolazione della pressione)
VDI 30	22mm	80 bar	20 Nm
VDI 40	30mm	80 bar	35 Nm

Set di ricambio	
Ugello	PKGNLAL 1205M
Vite di regolazione della pressione, piastra di pressione, molla	Esaminare separatamente ogni tipo nella distinta base dei prodotti

Utensili A4™ e inserti Beyond™

Per tutte le applicazioni esterne e interne

Applicazione principale

Gli inserti A4 consentono lavorazioni di tornitura, spianatura, scanalatura, scanalatura frontale e troncatura per una vasta gamma di materiali da lavorare. Il sistema di bloccaggio unico e la versatilità delle geometrie inserto permettono un alto tasso di rimozione di truciolo.

Caratteristiche e vantaggi

Scanalatura A4 e sistema di tornitura

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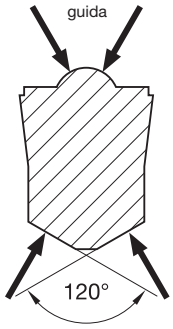
- L'area di bloccaggio estremamente lunga, la sede inferiore prismatica a 120° rettificata e l'esclusiva guida superiore si combinano per offrire una stabilità senza confronti nelle operazioni di scanalatura e tornitura laterale!
- L'accurato posizionamento dell'inserto garantisce tagli della massima precisione!
- Il bloccaggio rigido blocca saldamente l'inserto per facilitare i tagli più difficili.
- Il design versatile consente a un singolo sistema di gestire le operazioni di scanalatura sia del diametro interno che di quello esterno, di scanalatura frontale, di tornitura posteriore, di sottotaglio e persino quelle di filettatura.
- Gli inserti consentono un'eccellente evacuazione del truciolo nella scanalatura ed offrono un migliore controllo nella tornitura multidirezionale.



Rompitruciolo A4

Rompitruciolo GMN

Rompitruciolo GMP

Rompitruciolo GMN

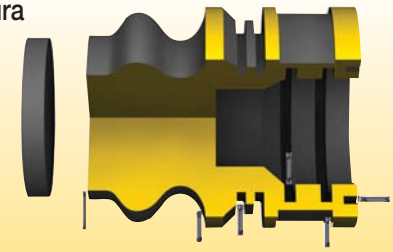
Rompitruciolo GMP

Rompitruciolo GUP

Il sistema A4™ incrementa la produttività

- Copre una vasta gamma di applicazioni.
- Riduce i costi per per utensile.
- Riduce i tempi di lavorazione.

Passo 1 • Selezionare il formato A4 per l'applicazione di scanalatura e tornitura



Da sapere:

- Profondità, larghezza e profilo di scanalatura.
- Materiale da lavorare.
- Applicazione da eseguire (scanalatura diam. int. e diam. est., tornitura, scanalatura frontale e troncatura).

Consiglio generale per la selezione della dimensione dell'inserto

Diametro pezzo	Dimensione della sede dell'inserto
<25mm	3
25–50mm	4
>50mm	5–10

Passo 2 • Selezionare il tipo di rompitruciolo e la velocità di avanzamento

A seconda dell'applicazione e della dimensione della sede, determinare la geometria e la velocità di avanzamento consigliate.

Plunge Feed Rates

● first choice
○ alternate choice

P Steel
M Stainless Steel
K Cast Iron
N Non-Ferrous
S High-Temp Alloys
H Hardened Materials

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius mm	Starting Condi-tions mm	Plunge Feed Rates mm/rev (0,05 0,10 0,15 0,20 0,25 0,30 0,35)
-GUP	• Groove and turn inserts in new Beyond™ grades. • Available in moulded and precision-ground styles. • Positive rake angle with enhanced chip control. • Available in metric widths only.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1,2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1,2	0,24	
-GMP	• Groove and turn inserts. • Available in moulded and precision-ground styles. • Positive rake angle. • Available in metric widths only.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1,2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1,2	0,24	
-GMN	• Groove and turn moulded and precision ground inserts. • Stable cutting edge. • Available in metric and inch widths.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1,2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1,2	0,24	

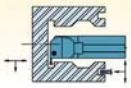
Maximum Feed Rate Values

Data is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying feed rates by following factors for other material groups.

Material Group	Feed Factor
M	.8
N	.8
S	.5
H	1.2

I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.



Passo 3 • Selezionare la velocità iniziale

In base al materiale e alla qualità, identificare la velocità iniziale (vc). La prima scelta è in **grassetto**.

A In base al gruppo e alla qualità del materiale, identificare la velocità iniziale (Vc).
B La velocità iniziale della prima scelta è in **grassetto**.

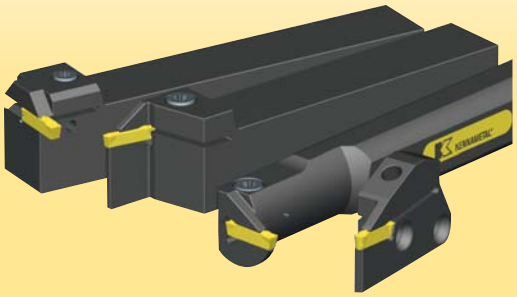
Recommended Starting Speeds [m/min]

Material Group		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0-1	–	–	–	140	**280**	335	110	**225**	270	185	**400**	450	145	**290**	365	200	**440**	490	–	–	–
	2	–	–	–	140	**200**	245	110	**160**	195	185	**270**	350	145	**200**	305	200	**300**	380	–	–	–
	3	–	–	–	140	**155**	245	110	**125**	195	170	**190**	260	140	**155**	245	600	**200**	280	–	–	–
	4	–	–	–	75	**110**	170	60	**90**	135	90	**145**	200	75	**110**	180	100	**160**	220	–	–	–
	5	–	–	–	120	**200**	260	100	**160**	210	150	**220**	305	120	**200**	270	165	**240**	330	–	–	–
	6	–	–	–	110	**150**	230	85	**120**	185	120	**180**	275	110	**150**	230	130	**190**	300	–	–	–
M	1	60	**90**	120	140	**210**	260	90	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	–	–	–	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	–	–	–	–	–	–	–	–	–	– A	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	195	170	**245**	440	140	**200**	360	210	**305**	550	180	**760**	1040
	2	25	**70**	110	90	**150**	210	70	**120**	170	120	**195**	340	100	**160**	280	150	**245**	430	275	**365**	500
	3	20	**60**	90	60	**110**	150	50	**85**	120	120	**170**	270	100	**140**	220	150	**210**	335	–	–	–
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	B –	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	610	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	–	–	–	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	–	–	–	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	135	15	**40**	75	–	–	–	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Passo 4 • Selezionare il portautensili in base all'applicazione

Scegliere il portautensili ad alte prestazioni a seconda dell'applicazione di scanalatura e troncatura specifica, unitamente alla dimensione della sede corrispondente.

	portautensili convenzionali	lame modulari
Scanalatura diam. est., troncatura e tornitura	Prima scelta	2ª scelta
Scanalatura frontale	Prima scelta	2ª scelta
Scanalatura diam. int., troncatura e tornitura	Prima scelta	—



NOTA: La dimensione della sede dell'inserto deve coincidere con la dimensione della sede del portautensili.

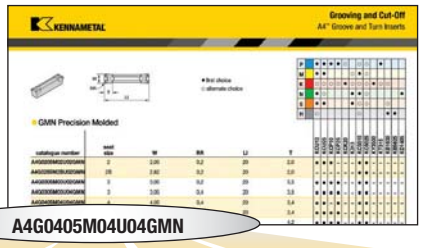
Passo 5 • Selezionare l'inserto e il portautensili dalla pagina del catalogo

Congratulazioni!

È stato possibile massimizzare la produttività selezionando la geometria di inserto, la qualità e le specifiche di taglio migliori per l'applicazione!

Come utilizzare i codici del catalogo

Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure ad esse corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



A4G0405M04U04GMN

Inserti di scanalatura e tornitura

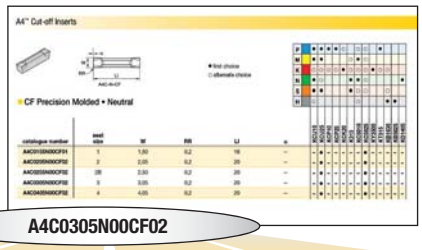
A4	G	0405	M	04	U	04	GMN
Sistema di utensili	Tipo di inserto	Larghezza di scanalatura	Unità di misura per la larghezza di scanalatura	Dimensione della sede	Tolleranza dell'inserto	Raggi di punta	Tipo di Rompitruciolo/Prep tagliente
A4 = scanalatura e tornitura	**G** = Quadro **R** = Raggio completo **C** = Troncatura	In centesimi di mm o di pollice"	**M** = Sistema metrico **N** = Pollici				**GMN** = Scanalatura e tornitura per lavorazione media con tagliente stabile **GMP** = Scanalatura e tornitura per lavorazione media con angolo di spoglia positivo **GUP** = Scanalatura e tornitura con geometria altamente positiva. In particolare per acciai inossidabili e leghe resistenti al calore **B** = Estremità piatta per forme e applicazioni speciali **E** = Estremità piatta, tagliente leggermente onato **S** = Profilo negativo con onatura **ST** = Punta singola

dimensione della sede a tasca	larghezza di taglio (mm)
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05
2S	2,00–2,62
3S	3,00–3,05
4S	4,00–4,05
5S	5,00–5,05

P = Tolleranza della larghezza di scanalatura di precisione: ± .001" (0,025mm)

U = Tolleranza della larghezza di scanalatura dell'utilitario stampato:
3,05–4,05: +0,15mm / -0
5,05–10,05: +0,25mm / -0

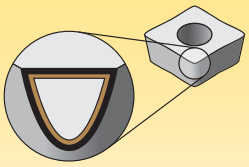
metric
01 = 0,1
02 = 0,2
04 = 0,4
08 = 0,8
12 = 1,2
raggio completo = 00



A4C0305N00CF02

Scanalatura e troncatura

A4	C	0305	N	00	CF	02
Sistema di utensili	Tipo di inserto	Larghezza di taglio	Lato dell'inserto	Angolo di registrazione principale del tagliente	Geometria rompitruciolo	Raggio di punta
A4 = scanalatura e tornitura	**C** = troncatura	In centesimi di mm	**R** = Destra **L** = Sinistra **N** = Neutrale	**00** = Neutrale **06** = 6° **10** = 10°	**CF** = Troncatura fine, spoglia positiva	metric 02 = 0,2

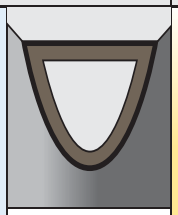
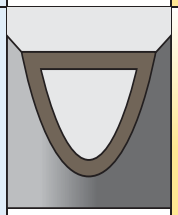
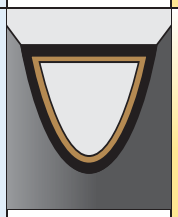
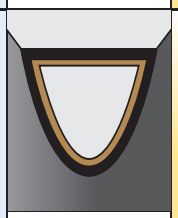
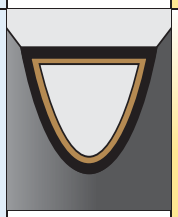


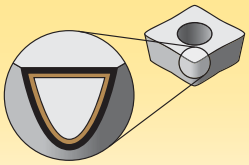
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ tenacità

Qualità

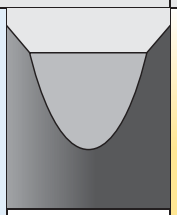
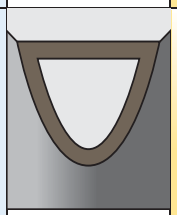
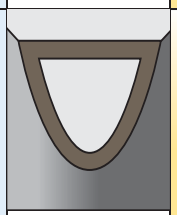
Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KCU10		**Composizione:** Un rivestimento multistrato in PVD avanzato su un substrato in metallo duro non legato estremamente resistente alle deformazioni. Il nuovo rivestimento ottimizzato aumenta la stabilità del tagliente per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. **Applicazione:** La qualità KCU10™ è ideale per operazioni che vanno dalla finitura alla lavorazione generale della maggior parte dei materiali per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. Perfetta per la lavorazione della maggior parte degli acciai, degli acciai inossidabili, delle ghise, dei materiali non ferrosi e delle leghe resistenti al calore, nonché dotata di tenacità potenziata del tagliente, di resistenza all'intaglio e di elevate velocità di taglio e avanzamento.	P								
			M								
			K								
			N								
			S								
			H								
	–										
KCU25		**Composizione:** Qualità PVD avanzata con rivestimento duro in AlTiN e substrato non legato a grana fine. Il nuovo rivestimento ottimizzato aumenta la stabilità del tagliente per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. **Applicazione:** La qualità KCU25™ è ideale per la lavorazione generale della maggior parte degli acciai, acciai inossidabili, leghe resistenti al calore, titanio, ghise e materiali non ferrosi, per un'ampia gamma di velocità e avanzamenti, con un miglioramento della tenacità del tagliente per tagli interrotti ed elevate velocità di avanzamento.	P								
			M								
			K								
			N								
			S								
	–										
KCP10		**Composizione:** Qualità in metallo duro arricchito al cobalto, progettata specificamente, con uno spesso rivestimento in MTCVD TiCN-Al_2O_3 per la massima resistenza all'usura. **Applicazione:** Ottima qualità per applicazioni dalla finitura alla lavorazione media di una vasta gamma di materiali, compresa la maggior parte degli acciai, degli acciai inossidabili ferritici, martensitici e a indurimento per precipitazione (PH) e delle ghise. Il substrato arricchito al cobalto offre una combinazione bilanciata di resistenza alla deformazione e di tenacità del tagliente, mentre lo spessore del rivestimento offre un'eccezionale resistenza alle abrasioni e all'usura a crateri durante le lavorazioni ad alta velocità. Il rivestimento liscio offre resistenza al tagliente di riporto e alle microscheggiature e produce eccellenti finiture superficiali.	P								
			K								
	–										
KCP25		**Composizione:** Una qualità solida in metallo duro e arricchita al cobalto con un rivestimento MTCVD TiCN-Al_2O_3 multistrato con adesione superiore tra gli strati. **Applicazione:** Migliore qualità di tornitura per utilizzo generale per la lavorazione della maggior parte degli acciai e degli acciai inossidabili ferritici e martensitici. La struttura del substrato garantisce un'adeguata resistenza alla deformazione e un'eccellente resistenza del tagliente dell'inserto. Gli strati del rivestimento offrono una buona resistenza all'usura su una vasta gamma di condizioni di lavorazione, mentre il trattamento post-rivestimento riduce la microscheggiatura (migliorando al contempo l'adesione del substrato), per una maggiore durata dell'utensile e migliori risultati finali.	P								
			K								
	–										
KCK20		**Composizione:** Rivestimento in MTCVD TiCN-Al_2O_3 particolarmente tenace su un substrato resistente all'usura. **Applicazione:** Progettata specificamente per ottimizzare l'adesione del rivestimento e la resistenza del tagliente. Ideale nei tagli interrotti a umido di ghise grigie e duttili. Si può utilizzare in un'ampia gamma di applicazioni, dalla finitura alla sgrossatura, per ottimizzare la produttività quando occorrono resistenza e affidabilità.	P								
			K								
	–										

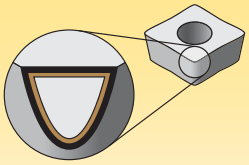


I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ **tenacità**

Qualità	Rivestimento	Descrizione delle qualità		05	10	15	20	25	30	35	40	45
K313		**Composizione:** Qualità dura WC/Co a grana fine non legata a basso contenuto di legante. **Applicazione:** Eccezionale resistenza all'usura del tagliente con un'altissima resistenza per le lavorazioni di titanio, ghise, acciai inossidabili austenitici, metalli non ferrosi, non metalli e la maggior parte delle leghe resistenti al calore. Resistenza superiore alla deformazione termica e all'usura ad intaglio. La struttura con grani è ben controllata per ottenere un numero minimo di cavità e difetti, in modo da contribuire a un servizio lungo e affidabile.										
	—		M									
			K									
			N									
			S									
KC5010		**Composizione:** Rivestimento in PVD AlTiN avanzato su un substrato in metallo duro non legato estremamente resistente alle deformazioni. **Applicazione:** La qualità KC5010™ è ideale per operazioni che vanno dalla finitura alla lavorazione generale della maggior parte dei materiali a velocità più elevate. Perfetta per la lavorazione della maggior parte di acciai, acciai inossidabili, ghise, materiali non ferrosi e leghe resistenti al calore in condizioni stabili. Ottime prestazioni anche nella lavorazione di materiali temprati e a truciolo corto.	P									
	—		M									
			K									
			N									
			S									
			H									
KC5025		**Composizione:** Qualità con rivestimento PVD AlTiN avanzato con un substrato duro non legato a grana ultra fine. **Applicazione:** Per la lavorazione generale della maggior parte degli acciai, acciai inossidabili, leghe resistenti al calore, titanio, ferro e materiali non ferrosi. La velocità può variare da ridotta a media ed è in grado di gestire tagli interrotti ed elevate velocità di avanzamento.	P									
	—		M									
			K									
			N									
			S									

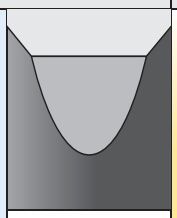
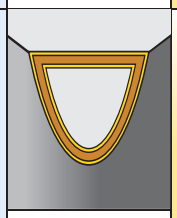
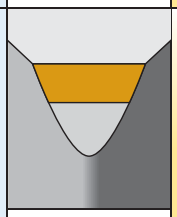
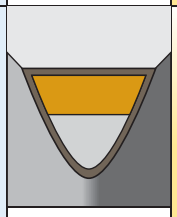
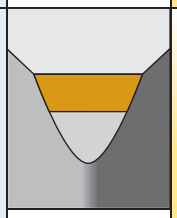


I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ← → tenacità

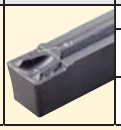
Qualità

Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KY3500		**Composizione:** Qualità pura in nitruro di silicio. **Applicazione:** Tenacità massima. Utilizzata a velocità di avanzamento elevate per la sgrossatura di ghisa grigia, inclusa la sgrossatura su tagli interrotti.	K									
KT315		**Composizione:** Qualità di tornitura in cermet rivestito multistrato, in PVD TiN/TiCN/TiN. **Applicazione:** Ideale per finitura e lavorazioni medie della maggior parte degli acciai al carbonio, legati e inossidabili. Si comporta molto bene anche nelle lavorazioni di ghisa e ghisa duttile. Fornisce una durata dell'utensile lunga e costante e produce eccellenti finiture dei pezzi.	P K									
KB1630		**Composizione:** Una qualità PcBN ad alto contenuto non rivestita. Le punte PcBN sono brasate su un inserto in metallo duro. **Applicazione:** Progettata per sgrossatura e finitura in tagli interrotti di acciai temprati (>45 HRC). Può essere inoltre applicata su ghise grigie, ghise temprate, acciai legati ad alto contenuto di cromo, leghe resistenti al calore e metalli sinterizzati. Gli inserti PcBN con riporto sono disponibili in un'ampia gamma di tipi di inserti, comprese le geometrie Top Notch™ e screw-on.	K S H									
KB5625		**Composizione:** A contenuto medio di PcBN con rivestimento PVD-TiN/AlTiN per una maggiore resistenza all'usura. **Applicazione:** Ideale per la sgrossatura e la finitura di acciai temprati (> 45 HRC). Da usare su acciai per cuscinetti, acciai per lavorazione a caldo e a freddo, acciai per stampi, acciai cementati, acciai carbonitrurati e alcuni rivestimenti duri.	H									
KD1405		**Composizione:** Utensile con diamante puro, brasato direttamente su substrato in metallo duro. **Applicazione:** La qualità KD1405™ è il materiale per utensili di Kennametal più resistente alle abrasioni per materiali non ferrosi e non metallici. Ideale quando è richiesta resistenza all'abrasione.	N S									

Selezionare la geometria

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

● prima scelta
○ scelta alternativa

Control-lo del truciolo	descrizione	Geometria dell'inserto	dimen-sioni sede	Raggio di punta mm	condizioni iniziali mm	Velocità dell'avanzamento a tuffo mm/giro 0,05 – 0,10 – 0,15 – 0,20 – 0,25 – 0,30 – 0,35
-GUP	Inserti per scanalatura e tornitura nelle nuove qualità Beyond™.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	

Velocità di avanzamento iniziale consigliata

Disegno dell'inserto

Raggio di punta

Velocità dell'avanzamento a tuffo

Dimensione della sede

Campo velocità di avanzamento consigliato

Principali Gruppi di materiali del pezzo

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

● prima scelta
○ scelta alternativa

Definizione geometria rompitruciolo

Valori massimi della velocità di avanzamento

	Gruppo materiali	coefficiente di correzione fz
I dati riportati sono per i gruppi di materiali P e K. Le velocità di avanzamento **massime** devono essere regolate moltiplicando i valori delle velocità di avanzamento massime per i seguenti fattori a seconda dei gruppi di materiali indicati.	M	.8
	N	1.2
	S	.8
	H	.5

Velocità dell'avanzamento a tuffo

● prima scelta
○ scelta alternativa

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

Controllo del truciolo	descrizione	Geometria dell'inserto	dimensioni sede	Raggio di punta mm	condizioni iniziali mm	Velocità dell'avanzamento a tuffo mm/giro (0,05 – 0,35)
-GUP	• Inserti per scanalatura e tornitura nelle nuove qualità Beyond™. • Disponibili nelle versioni stampata e rettificata di precisione. • Angolo di spoglia positivo con migliore controllo del truciolo. • Disponibile esclusivamente in larghezze metriche.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1.2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1.2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1.2	0,24	
-GMP	• Inserti di scanalatura e tornitura. • Disponibili nelle versioni stampata e rettificata di precisione. • Angolo di spoglia positivo. • Disponibile esclusivamente in larghezze metriche.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1,2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1,2	0,24	
-GMN	• Inserti rettificati di precisione e stampati per scanalatura e tornitura. • Tagliente stabile • Disponibile con larghezze in mm e pollici.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1,2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1,2	0,24	

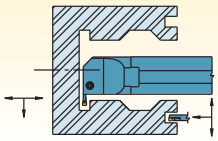
Valori massimi della velocità di avanzamento

I dati riportati sono per i gruppi di materiali P e K. Le velocità di avanzamento **massime** devono essere regolate moltiplicando i valori delle velocità di avanzamento massime per i seguenti fattori a seconda dei gruppi di materiali indicati.

Gruppo materiali	coefficiente di correzione fz
M	.8
N	.8
S	.5
H	1.2

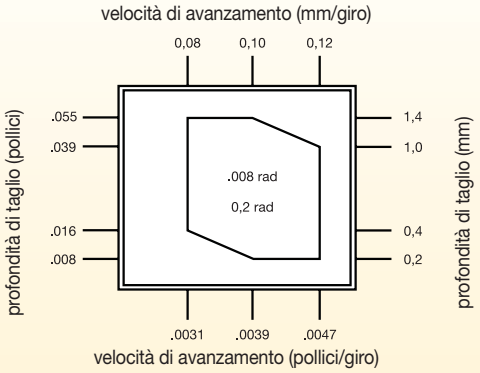
Scanalatura diam. int. e frontale

Per le applicazioni di scanalatura diam. int. e frontale, ridurre la velocità di avanzamento del 20%.

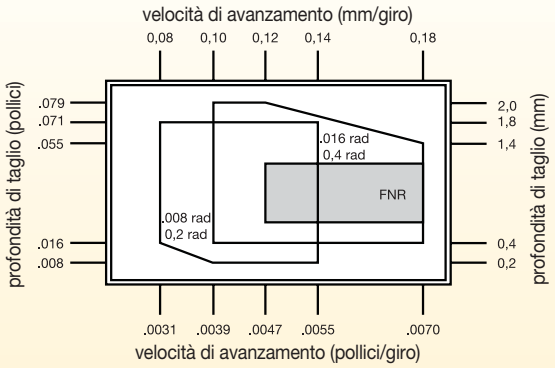


Velocità di avanzamento per tornitura e profilatura • Geometrie GUP/GMP

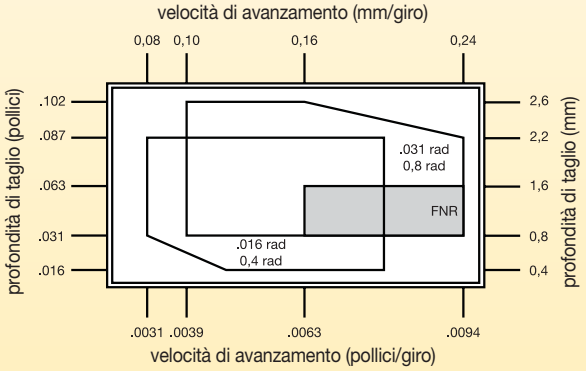
Dimensione della sede 2



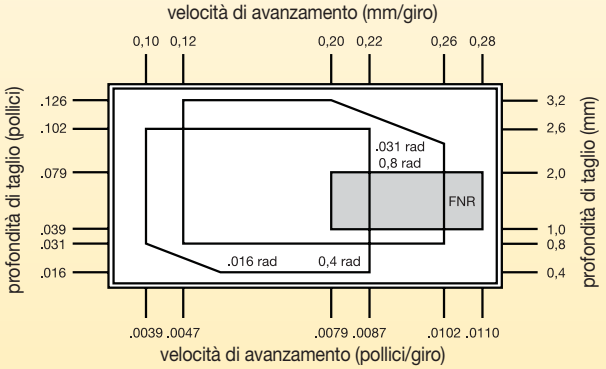
Dimensione della sede 3



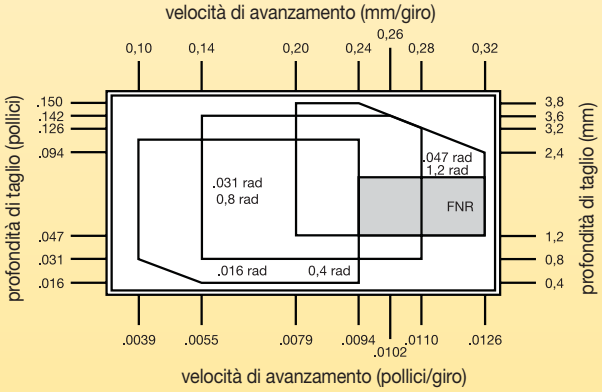
Dimensione della sede 4



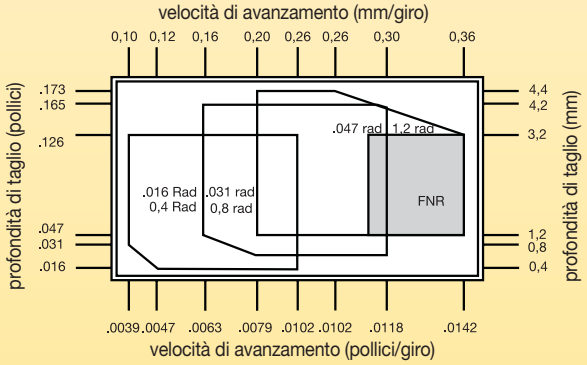
Dimensione della sede 5



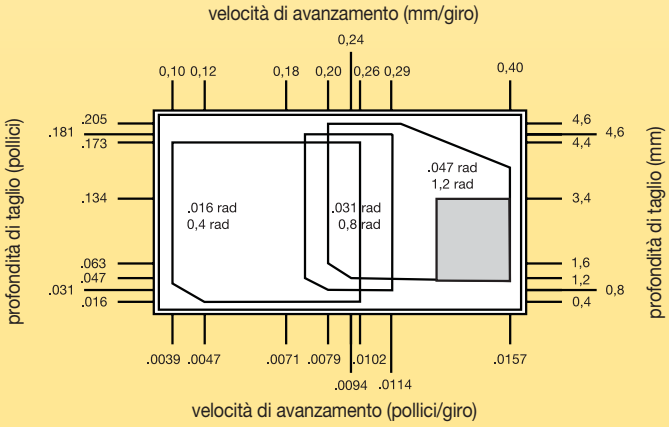
Dimensione della sede 6



Dimensione della sede 8

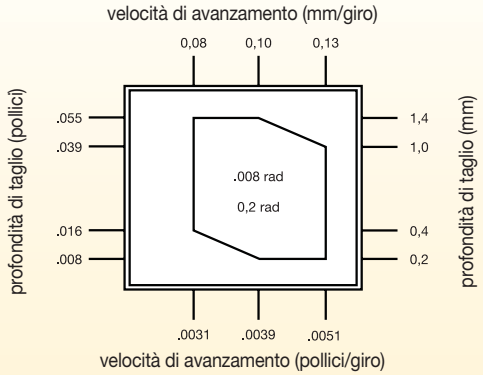


Dimensione della sede 10

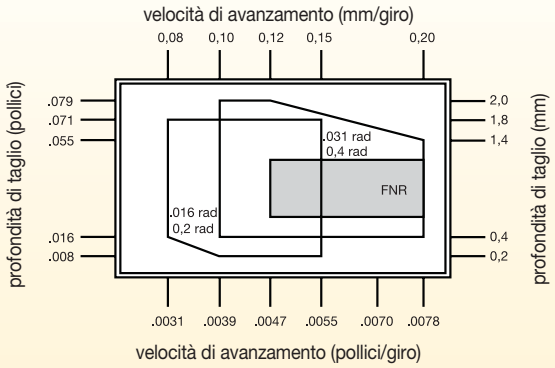


Velocità di avanzamento per tornitura e profilatura • Geometrie GMN

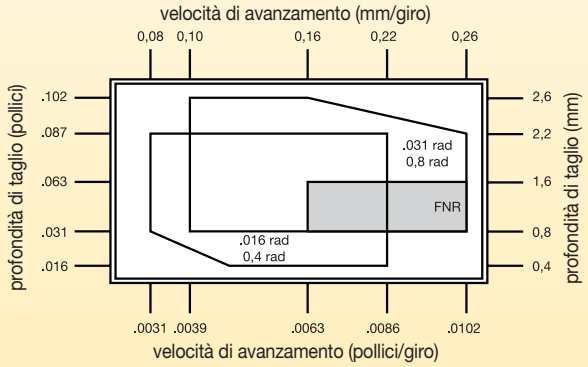
Dimensione della sede 2



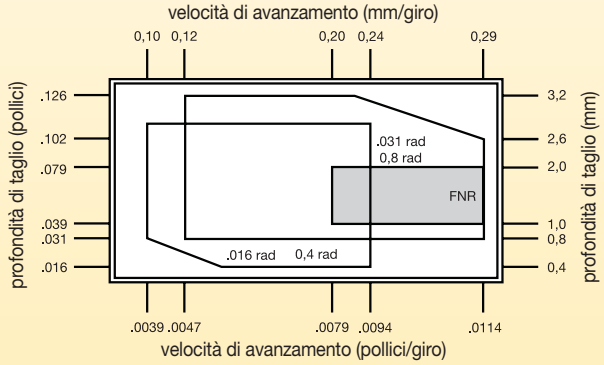
Dimensione della sede 3



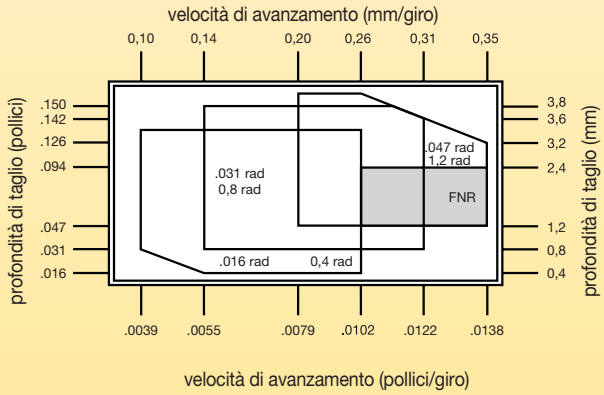
Dimensione della sede 4



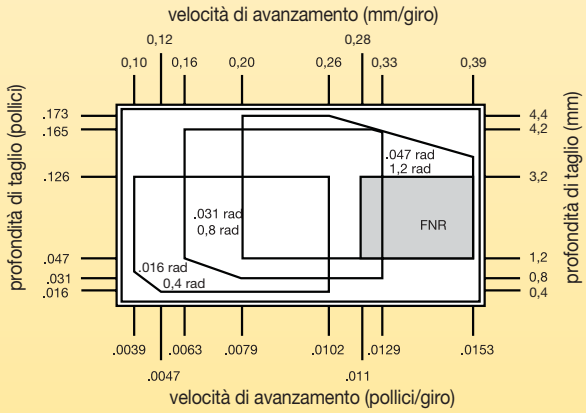
Dimensione della sede 5



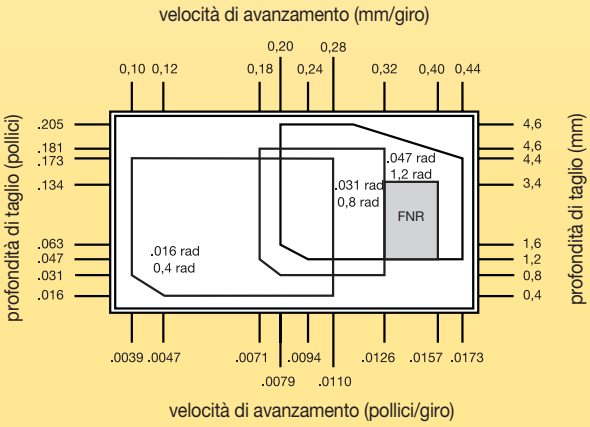
Dimensione della sede 6



Dimensione della sede 8



Dimensione della sede 10



Velocità di avanzamento per troncatura

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

● prima scelta
○ scelta alternativa

Controllo del truciolo	descrizione	Geometria dell'inserto	dimen-sioni sede	condizioni iniziali mm	Velocità di avanzamento per troncatura mm/giro 0,05 0,10 0,15 0,20
-A4C-CF	• Angolo di spoglia altamente positivo. • Tagliente affilato. • Disponibile con angolo di registrazione neutro e tipi destro e sinistro a 6° e 10°.		1	0,06	
			2/2B	0,07	
			3	0,09	
			4	0,11	

Valori massimi della velocità di avanzamento

I dati riportati sono per i gruppi di materiali P e K. Le velocità di avanzamento massime devono essere regolate moltiplicando i valori delle velocità di avanzamento per i seguenti fattori per gli altri gruppi di materiali.

Gruppo materiali	coefficiente di correzione fz
M	.8
N	.8
S	.5
H	1.2

App Mobile

L'applicazione mobile di Kennametal fornisce un facile accesso alle informazioni sui prodotti e ai calcolatori, sia sui device iPhone® che Android™. Abbiamo elencato una serie di funzionalità chiave...

C'è un app per questo.

PARAMETRI DI TAGLIO

Visualizza le informazioni sulle velocità di taglio e gli avanzamenti dei prodotti per l'asportazione truciolo.

DISPONIBILITA' DEI PRODOTTI

Verifica la disponibilità globale dei prodotti. Visualizza le quantità disponibili utilizzando le credenziali dell'account Konnect.

CALCOLATORI

Utilizza i nostri calcolatori per le applicazioni di fresatura e foratura.

Scansionando semplicemente il codice a barre sulla confezione degli inserti è possibile trovare i parametri di taglio più produttivi per la miglior vita utensile, i tempi della lavorazione e le informazioni sul campo di controllo truciolo.

NOTA: l'applicazione è al momento disponibile solo nella versione in lingua inglese. Sono pianificati per il futuro il rilascio di successivi aggiornamenti per la versione tradotta in lingua locale.

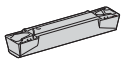
Google play
Available on the App Store

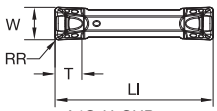
Velocità iniziali consigliate [m/min]

Gruppo materiali		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0–1	–	–	–	140	**280**	335	110	**225**	270	185	**400**	450	145	**290**	365	200	**440**	490	–	–	–
	2	–	–	–	140	**200**	245	110	**160**	195	185	**270**	350	145	**200**	305	200	**300**	380	–	–	–
	3	–	–	–	140	**155**	245	110	**125**	195	170	**190**	260	140	**155**	245	600	**200**	280	–	–	–
	4	–	–	–	75	**110**	170	60	**90**	135	90	**145**	200	75	**110**	180	100	**160**	220	–	–	–
	5	–	–	–	120	**200**	260	100	**160**	210	150	**220**	305	120	**200**	270	165	**240**	330	–	–	–
	6	–	–	–	110	**150**	230	85	**120**	185	120	**180**	275	110	**150**	230	130	**190**	300	–	–	–
M	1	60	**90**	120	140	**210**	260	90	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	–	–	–	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	–	–	–	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	195	170	**245**	440	140	**200**	360	210	**305**	550	180	**760**	1040
	2	25	**70**	110	90	**150**	210	70	**120**	170	120	**195**	340	100	**160**	280	150	**245**	430	275	**365**	500
	3	20	**60**	90	60	**110**	150	50	**85**	120	120	**170**	270	100	**140**	220	150	**210**	335	–	–	–
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	610	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	–	–	–	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	–	–	–	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	135	15	**40**	75	–	–	–	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Gruppo materiali		KT315			KB5625			KB1630			KD1405		
P	0–1	180	**440**	475	–	–	–	–	–	–	–	–	–
	2	195	**270**	400	–	–	–	–	–	–	–	–	–
	3	180	**210**	275	–	–	–	–	–	–	–	–	–
	4	75	**160**	210	–	–	–	–	–	–	–	–	–
	5	150	**250**	310	–	–	–	–	–	–	–	–	–
	6	140	**200**	300	–	–	–	–	–	–	–	–	–
M	1	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
K	1	60	**275**	550	–	–	–	180	**760**	1040	–	–	–
	2	135	**275**	360	–	–	–	–	–	–	–	–	–
	3	180	**230**	360	–	–	–	–	–	–	–	–	–
N	1–2	–	–	–	–	–	–	–	–	–	365	**610**	1040
	3	–	–	–	–	–	–	–	–	–	275	**480**	800
	4	–	–	–	–	–	–	–	–	–	300	**550**	920
	5	–	–	–	–	–	–	–	–	–	275	**610**	1070
	6	–	–	–	–	–	–	–	–	–	150	**460**	760
S	1	–	–	–	–	–	–	120	**200**	275	–	–	–
	2	–	–	–	–	–	–	120	**215**	275	–	–	–
	3	–	–	–	–	–	–	120	**250**	275	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	45	**150**	230	45	**120**	170	–	–	–
	2	–	–	–	45	**140**	230	45	**110**	170	–	–	–
	3	–	–	–	45	**130**	230	45	**100**	170	–	–	–
	4	–	–	–	45	**120**	230	45	**90**	170	–	–	–

NOTA: Le velocità iniziali di PRIMA scelta sono in **grassetto**.
Quando lo spessore medio del truciolo aumenta, è necessario diminuire la velocità.





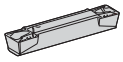
A4G-U-GUP

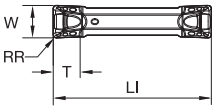
● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

GUP Stampato di precisione

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GUP	2	2,05	0,2	20	2,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0305M03U02GUP	3	3,05	0,2	20	3,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0305M03U04GUP	3	3,05	0,4	20	3,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0405M04U04GUP	4	4,05	0,4	20	3,4	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0405M04U08GUP	4	4,05	0,8	20	3,4	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0405M04U00GUP	4	4,05	—	20	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M05U04GUP	5	5,05	0,4	25	4,2	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0505M05U08GUP	5	5,05	0,8	25	4,2	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U04GUP	6	6,05	0,4	30	4,5	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U08GUP	6	6,05	0,8	30	4,5	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U12GUP	6	6,05	1,2	30	4,5	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0605M06U00GUP	6	6,05	—	30	4,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0805M08U08GUP	8	8,05	0,8	30	6,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0805M08U12GUP	8	8,05	1,2	30	6,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0805M08U00GUP	8	8,05	—	30	6,5	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G1005M10U08GUP	10	10,05	0,8	30	6,0	●	●	●	–	–	–	–	–	–	–	–	–	–
A4G1005M10U12GUP	10	10,05	1,2	30	6,1	–	●	–	●	–	–	–	–	–	–	–	–	–





A4G-P-GUP

● prima scelta
○ scelta alternativa

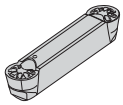
	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

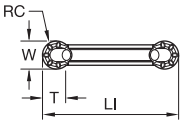
GUP Rettificato di precisione

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M02P02GUP	2	2,00	0,2	20	1,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G094I2BP05GUP	2B	2,38	0,2	20	1,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M03P02GUP	3	3,00	0,2	20	2,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M03P04GUP	3	3,00	0,4	20	2,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G125I03P05GUP	3	3,18	0,2	20	2,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G125I03P1GUP	3	3,18	0,4	20	2,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P02GUP	4	4,00	0,2	20	3,3	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P04GUP	4	4,00	0,4	20	3,3	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P08GUP	4	4,00	0,8	20	3,3	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G187I04P1GUP	4	4,76	0,4	20	3,3	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M05P04GUP	5	5,00	0,4	25	4,1	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M05P08GUP	5	5,00	0,8	25	4,1	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0600M06P04GUP	6	6,00	0,4	30	4,5	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0600M06P08GUP	6	6,00	0,8	30	4,5	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G250I06P1GUP	6	6,35	0,4	30	4,4	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G250I06P2GUP	6	6,35	0,8	30	4,4	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G312I08P1GUP	8	7,94	0,4	30	5,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0800M08P08GUP	8	8,00	0,8	30	6,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0800M08P12GUP	8	8,00	1,2	30	6,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G375I10P1GUP	10	9,53	0,4	30	5,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G1000M10P08GUP	10	10,00	0,8	30	6,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G1000M10P12GUP	10	10,00	1,2	30	6,0	●	●	–	–	–	–	–	–	–	–	–	–	–

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

● prima scelta
○ scelta alternativa

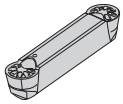


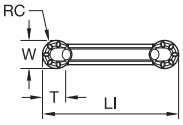


A4R-P-GUP

GUP Raggio completo Stampato di precisione

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0305M03U00GUP	3	3,05	1,5	20	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R0505M05U00GUP	5	5,05	2,5	25	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R1005M10U00GUP	10	10,05	5,0	30	—	●	●	–	–	–	–	–	–	–	–	–	–	–





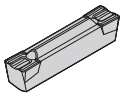
A4R-P-GUP

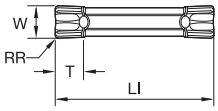
GUP a Raggio completo con Rettificato di precisione

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00GUP	3	3,00	1,5	20	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R125I03P00GUP	3	3,18	1,6	20	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R0400M04P00GUP	4	4,00	2,0	20	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R187I04P00GUP	4	4,76	2,4	20	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0500M05P00GUP	5	5,00	2,5	25	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0600M06P00GUP	6	6,00	3,0	30	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R250I06P00GUP	6	6,35	3,2	30	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R312I08P00GUP	8	7,94	4,0	30	—	●	–	–	–	–	–	–	–	–	–	–	–	–
A4R0800M08P00GUP	8	8,00	4,0	30	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R1000M10P00GUP	10	10,00	5,0	30	—	●	●	–	–	–	–	–	–	–	–	–	–	–

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

● prima scelta
○ scelta alternativa

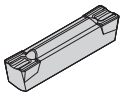


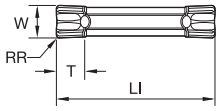


A4G-U-GMP

GMP Stampato di precisione

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GMP	2	2,05	0,2	20	2,0	–	●	–	–	–	–	●	●	–	–	–	–	–
A4G0255M2BU02GMP	2B	2,62	0,2	20	2,0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4G0305M03U02GMP	3	3,05	0,2	20	3,5	●	●	–	–	–	–	●	●	–	●	–	–	–
A4G0305M03U04GMP	3	3,05	0,4	20	3,5	●	●	–	–	–	–	●	●	–	●	–	–	–
A4G0405M04U04GMP	4	4,05	0,4	20	3,4	●	●	●	●	–	–	●	●	–	●	–	–	–
A4G0405M04U08GMP	4	4,05	0,8	20	3,4	–	●	–	–	–	–	●	●	–	●	–	–	–
A4G0505M05U04GMP	5	5,05	0,4	25	4,2	●	●	●	–	–	–	●	●	–	–	–	–	–
A4G0505M05U08GMP	5	5,05	0,8	25	4,2	–	●	●	–	–	–	●	●	–	–	–	–	–
A4G0605M06U04GMP	6	6,05	0,4	30	4,9	–	–	–	●	–	–	●	●	–	–	–	–	–
A4G0605M06U08GMP	6	6,05	0,8	30	4,9	–	–	–	–	–	–	●	●	–	–	–	–	–
A4G0805M08U08GMP	8	8,05	0,8	30	6,1	–	●	–	–	–	–	–	●	–	–	–	–	–
A4G1005M10U08GMP	10	10,05	0,8	30	8,1	●	●	–	–	–	–	–	–	–	–	–	–	–

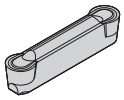


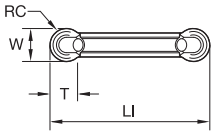


A4G-P-GMP

GMP Rettificato di precisione

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M02P02GMP	2	2,00	0,2	20	2,0	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0250M2BP02GMP	2B	2,50	0,2	20	2,0	●	–	–	–	–	–	●	–	–	–	–	–	–
A4G0300M03P02GMP	3	3,00	0,2	20	3,5	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0300M03P04GMP	3	3,00	0,4	20	3,5	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P02GMP	4	4,00	0,2	20	—	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P04GMP	4	4,00	0,4	20	3,5	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P08GMP	4	4,00	0,8	20	3,5	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0500M05P04GMP	5	5,00	0,4	25	—	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0500M05P08GMP	5	5,00	0,8	25	—	●	–	–	–	–	●	●	●	–	–	–	–	–
A4G0600M06P04GMP	6	6,00	0,4	30	4,9	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G0600M06P08GMP	6	6,00	0,8	30	4,9	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0800M08P08GMP	8	8,00	0,8	30	6,4	–	●	–	–	–	–	●	–	–	–	–	–	–
A4G0800M08P12GMP	8	8,00	1,2	30	6,4	●	–	–	–	–	–	–	–	–	–	–	–	–





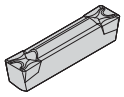
A4R-P-GMP

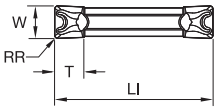
● prima scelta
○ scelta alternativa

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GMP Raggio completo; Rettificato di precisione

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0200M02P00GMP	2	2,00	1,0	20	1,7	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R0300M03P00GMP	3	3,00	1,5	20	2,5	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0400M04P00GMP	4	4,00	2,0	20	—	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0500M05P00GMP	5	5,00	2,5	25	4,1	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0600M06P00GMP	6	6,00	3,0	30	4,8	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R0800M08P00GMP	8	8,00	4,0	30	6,4	●	●	–	–	–	–	●	–	–	–	–	–	–

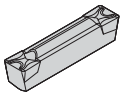


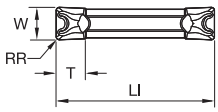


A4G-U-GMN

GMN Stampato di precisione

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GMN	2	2,05	0,2	20	2,0	●	●	●	–	–	–	●	●	–	–	–	–	–
A4G0255M2BU02GMN	2B	2,62	0,2	20	2,0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4G0305M03U02GMN	3	3,05	0,2	20	3,5	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0305M03U04GMN	3	3,05	0,4	20	3,5	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0405M04U04GMN	4	4,05	0,4	20	3,4	●	●	–	●	–	–	●	●	–	–	–	–	–
A4G0405M04U08GMN	4	4,05	0,8	20	3,4	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0505M05U04GMN	5	5,05	0,4	25	4,2	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0505M05U08GMN	5	5,05	0,8	25	4,2	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0605M06U04GMN	6	6,05	0,4	30	4,9	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0605M06U08GMN	6	6,05	0,8	30	4,9	●	●	●	●	–	–	●	●	–	●	–	–	–
A4G0605M06U12GMN	6	6,05	1,2	30	4,9	–	–	–	●	–	–	●	●	–	–	–	–	–
A4G0805M08U08GMN	8	8,05	0,8	30	6,4	●	●	●	●	–	–	●	–	–	–	–	–	–
A4G0805M08U12GMN	8	8,05	1,2	30	6,4	–	●	●	●	–	–	●	–	–	–	–	–	–
A4G1005M10U08GMN	10	10,05	0,8	30	8,1	–	●	●	●	–	–	–	●	–	–	–	–	–
A4G1005M10U12GMN	10	10,05	1,2	30	8,1	–	–	–	●	–	–	–	●	–	–	–	–	–





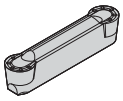
A4G-P-GMN

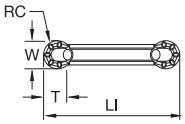
● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

GMN Rettificato di precisione

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G094I2BP05GMN	2B	2,39	0,2	20	1,9	●	–	–	–	–	–	●	–	–	–	–	–	–
A4G125I03P05GMN	3	3,18	0,2	20	3,4	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G125I03P1GMN	3	3,18	0,4	20	3,4	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G187I04P1GMN	4	4,76	0,4	20	3,5	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G187I04P2GMN	4	4,76	0,8	20	3,5	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G250I06P1GMN	6	6,35	0,4	30	4,7	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G250I06P2GMN	6	6,35	0,8	30	4,7	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G312I08P1GMN	8	7,94	0,4	30	6,2	–	●	–	–	–	–	●	–	–	–	–	–	–
A4G375I10P1GMN	10	9,53	0,4	30	7,9	–	–	–	–	–	–	●	–	–	–	–	–	–
A4G375I10P2GMN	10	9,53	0,8	30	7,9	●	–	–	–	–	–	●	–	–	–	–	–	–

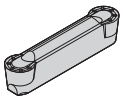


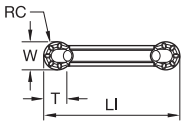


A4R-U-GMN

GMN Raggio completo Stampato di precisione

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0205M02U00GMN	2	2,05	1,1	20	1,8	–	●	●	–	–	–	●	●	–	–	–	–	–
A4R0305M03U00GMN	3	3,05	1,5	20	2,6	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0405M04U00GMN	4	4,05	2,0	20	3,5	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0505M05U00GMN	5	5,05	2,5	25	4,2	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0605M06U00GMN	6	6,05	3,0	30	4,9	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0805M08U00GMN	8	8,05	4,0	30	6,5	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R1005M10U00GMN	10	10,05	5,0	30	8,2	●	●	–	●	–	–	–	–	–	–	–	–	–

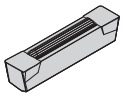


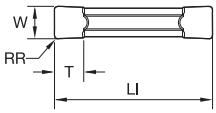


A4R-P-GMN

GMN Raggio completo Rettificato di precisione

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R125I03P00GMN	3	3,18	1,6	20	2,7	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R187I04P00GMN	4	4,76	2,4	20	3,8	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R250I06P00GMN	6	6,35	3,2	30	5,3	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R312I08P00GMN	8	7,94	4,0	30	6,4	●	–	–	–	–	–	–	–	–	–	–	–	–
A4R375I10P00GMN	10	9,53	4,8	30	7,3	–	–	–	–	–	–	–	●	–	–	–	–	–





A4G-U-B

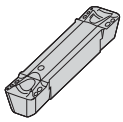
● prima scelta
○ scelta alternativa

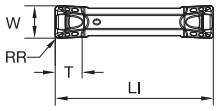
Stampato di precisione con spoglia superiore piana

	P	M	K	N	S	H
KCU10	●	●	○	●	●	○
KCU25	●	●	○	○	●	
KCP10	●		○			
KCP25	●		○			
KCK20	○		○			
K313		○	●	●	●	
KC5010	○	●	○	●	○	○
KC5025	○	○	○	○	○	
KY3500			●			
KT315	●		○			
KB1630			○		○	●
KB5625						●
KD1405				●		

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0305M03U02B	3	3,05	0,2	20	3,5	–	●	–	–	●	–	–	●	–	–	–	–	–
A4G0405M04U04B	4	4,05	0,4	20	3,4	–	–	–	–	●	–	–	●	–	–	–	–	–
A4G0505M05U04B	5	5,05	0,4	25	4,2	–	●	–	–	●	–	–	–	–	–	–	–	–
A4G0605M06U04B	6	6,05	0,4	30	4,9	–	●	–	–	●	–	–	–	–	–	–	–	–
A4G0805M08U08B	8	8,05	0,8	30	6,4	–	–	–	–	●	–	–	–	–	–	–	–	–
A4G1005M10U08B	10	10,05	0,8	30	8,1	–	–	–	–	●	–	–	–	–	–	–	–	–

Inserti per scanalatura e tornitura A4™ • Scanalatura frontale di piccoli diametri





A4G-SP-GUP

● prima scelta
○ scelta alternativa

GUP Stampato di precisione • Scanalatura frontale di piccoli diametri

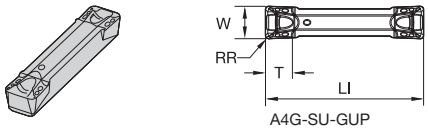
	P	M	K	N	S	H
KCU10	●	●	○	●	●	○
KCU25	●	●	○	○	●	
KCP10	●		○			
KCP25	●		○			
KCK20	○		○			
K313		○	●	●	●	
KC5010	○	●	○	●	○	○
KC5025	○	○	○	○	○	
KY3500			●			
KT315	●		○			
KB1630			○		○	●
KB5625						●
KD1405				●		

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M2SP02GUP	2S	2,00	0,2	20	1,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M3SP02GUP	3S	3,00	0,2	20	2,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M3SP04GUP	3S	3,00	0,4	20	2,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M4SP04GUP	4S	4,00	0,4	20	3,4	●	–	–	–	–	–	–	–	–	–	–	–	–
A4G0400M4SP08GUP	4S	4,00	0,8	20	3,4	●	–	–	–	–	–	–	–	–	–	–	–	–
A4G0500M5SP04GUP	5S	5,00	0,4	25	4,1	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M5SP08GUP	5S	5,00	0,8	25	4,1	●	–	–	–	–	–	–	–	–	–	–	–	–

NOTA: Gli inserti A4-S sono inserti A4 di altezza ridotta. Ad esempio, un supporto con sede di formato 2S non è compatibile con un inserto con sede di formato 2.

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

● prima scelta
○ scelta alternativa

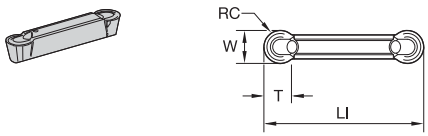


A4G-SU-GUP

GUP Rettificato di precisione • Scanalatura frontale di piccoli diametri

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M2SU02GUP	2S	2,05	0,2	20	2,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU02GUP	3S	3,05	0,2	20	3,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU04GUP	3S	3,05	0,4	20	3,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU04GUP	4S	4,05	0,4	20	3,4	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU04GUP	5S	5,05	0,4	25	4,2	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU08GUP	5S	5,05	0,8	25	4,2	–	●	–	–	–	–	–	–	–	–	–	–	–

NOTA: Gli inserti A4-S sono inserti A4 di altezza ridotta. Ad esempio, un supporto con sede di formato 2S non è compatibile con un inserto con sede di formato 2.

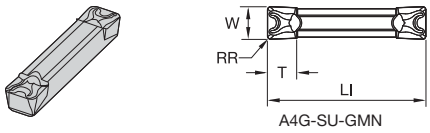


A4R-SP-GMP

GMP Raggio completo; Rettificato di precisione • Scanalatura frontale di piccoli diametri

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0200M2SP00GMP	2S	2,00	1,0	20	1,6	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0300M3SP00GMP	3S	3,00	1,5	20	2,5	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0500M5SP00GMP	5S	5,00	2,5	25	4,1	–	●	–	–	–	–	–	–	–	–	–	–	–

NOTA: Gli inserti A4-S sono inserti A4 di altezza ridotta. Ad esempio, un supporto con sede di formato 2S non è compatibile con un inserto con sede di formato 2.

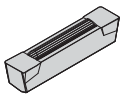


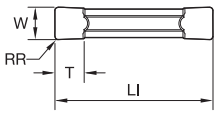
A4G-SU-GMN

GMN Stampato di precisione • Scanalatura frontale di piccoli diametri

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M2SU02GMN	2S	2,05	0,2	20	2,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU02GMN	3S	3,05	0,2	20	3,5	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU04GMN	3S	3,05	0,4	20	3,5	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU04GMN	4S	4,05	0,4	20	3,6	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU08GMN	4S	4,05	0,8	20	3,6	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU04GMN	5S	5,05	0,4	25	4,2	●	●	–	–	–	–	–	–	–	–	–	–	–

NOTA: Gli inserti A4-S sono inserti A4 di altezza ridotta. Ad esempio, un supporto con sede di formato 2S non è compatibile con un inserto con sede di formato 2.





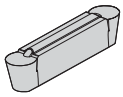
A4G-P-T

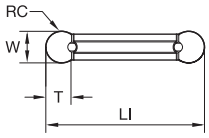
● prima scelta
○ scelta alternativa

P	
M	
K	●
N	
S	
H	

Rettificato di precisione con spoglia superiore piana • Ceramica

codice catalogo ISO	dimensione sede	W	RR	LI	T	KY3500
A4G0300M03P04T01025	3	3,00	0,4	20	3,4	●
A4G125I03P1T0425	3	3,18	0,4	20	3,4	●
A4G0400M04P04T01025	4	4,00	0,4	20	3,4	●
A4G0500M05P08T01025	5	5,00	0,8	25	4,2	●
A4G0600M06P08T01025	6	6,00	0,8	30	4,8	●
A4G250I06P2T0425	6	6,35	0,8	30	4,9	●
A4G0800M08P08T01025	8	8,00	0,8	30	6,4	●

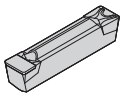


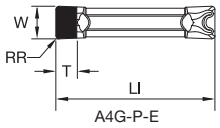


A4R-P-T

Spoglia superiore piana Raggio completo Rettificato di precisione • Ceramica

codice catalogo ISO	dimensione sede	W	RC	LI	T	KY3500
A4R0300M03P00T01025	3	3,00	1,5	20	2,4	●
A4R0500M05P00T01025	5	5,00	2,5	25	4,1	●
A4R0600M06P00T01025	6	6,00	3,0	30	4,3	●
A4R250I06P00T0425	6	6,35	3,2	30	4,8	●
A4R0800M08P00T01025	8	8,00	4,0	30	6,4	●





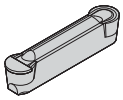
A4G-P-E

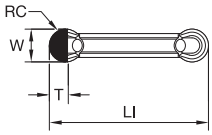
● prima scelta
○ scelta alternativa

P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

Dotato di Rettificato di precisione con spoglia superiore piana • PCD

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04E	3	3,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0400M04P04E	4	4,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0500M05P08E	5	5,00	0,8	25	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●





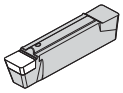
A4R-P-E

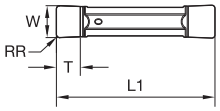
● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

Spoglia superiore piana; Raggio completo; Rettificato di precisione • PCD

codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0500M05P00E	5	5,00	2,5	25	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●

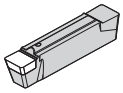


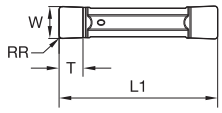


A4G-P-E-ST

Dotato di Rettificato di precisione con spoglia superiore piana • PcBN

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04EST	3	3,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	●	–	–
A4G0500M05P08EST	5	5,00	0,8	25	3,5	–	–	–	–	–	–	–	–	–	–	●	–	–
A4G0600M06P08EST	6	6,00	0,8	30	4,0	–	–	–	–	–	–	–	–	–	–	●	–	–





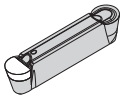
A4G-P-S-ST

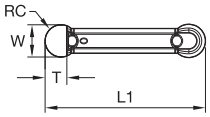
Dotato di Rettificato di precisione con spoglia superiore piana • T-land • PcBN

codice catalogo	dimensione sede	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04S02025ST	3	3,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	●	●	–
A4G0400M04P04S02025ST	4	4,00	0,4	20	3,3	–	–	–	–	–	–	–	–	–	–	●	●	–
A4G0500M05P08S02025ST	5	5,00	0,8	25	3,5	–	–	–	–	–	–	–	–	–	–	–	●	–
A4G0600M06P08S02025ST	6	6,00	0,8	30	4,0	–	–	–	–	–	–	–	–	–	–	–	●	–

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	





A4R-P-E-ST

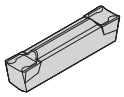
Spoglia superiore piana; Raggio completo; Rettifica di precisione • PcBN

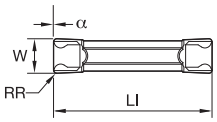
codice catalogo	dimensione sede	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00EST	3	3,00	1,5	20	2,2	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0400M04P00EST	4	4,00	2,0	20	2,9	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0500M05P00EST	5	5,00	2,5	25	3,7	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0600M06P00EST	6	6,00	3,0	30	4,4	–	–	–	–	–	–	–	–	–	–	●	–	–

Inserti di troncatura A4™

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	





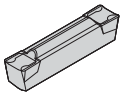
A4C-N-CF

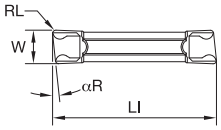
CF Stampato di precisione • Neutrale

codice catalogo	dimensione sede	W	RR	LI	α	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155N00CF01	1	1,50	0,2	16	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0205N00CF02	2	2,05	0,2	20	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0255N00CF02	2B	2,50	0,2	20	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305N00CF02	3	3,05	0,2	20	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0405N00CF02	4	4,05	0,2	20	–	–	●	–	–	–	–	–	●	–	–	–	–	–

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P	●	●	●	●	○		○	○		●			
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	●	○	○		
N	●	○				●	●	○					●
S	●	●				●	○	○			○		
H	○						○				●	●	

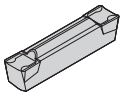


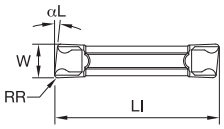


A4C-R-CF

CF Stampato di precisione • Destra

codice catalogo	dimensione sede	W	RL	LI	αR	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155R06CF01	1	1,50	0,2	16	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0155R10CF01	1	1,50	0,2	16	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0155R16CF01	1	1,50	0,2	16	16.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0205R06CF02	2	1,99	0,2	20	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0205R10CF02	2	1,99	0,2	20	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0255R06CF02	2B	2,49	0,2	20	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0305R06CF02	3	3,05	0,2	20	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305R10CF02	3	3,05	0,2	20	10.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0405R06CF02	4	4,05	0,2	20	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405R10CF02	4	4,05	0,2	20	10.0	–	●	–	–	–	–	–	●	–	–	–	–	–





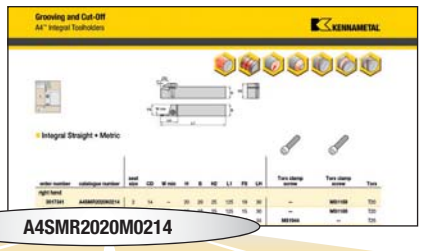
A4C-L-CF

CF Stampato di precisione • Sinistra

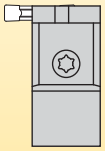
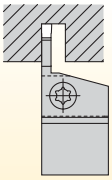
codice catalogo	dimensione sede	W	RR	LI	αL	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155L06CF01	1	1,50	0,2	16	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0205L06CF02	2	1,99	0,2	20	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0205L10CF02	2	1,99	0,2	20	10.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0305L06CF02	3	3,05	0,2	20	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305L10CF02	3	3,05	0,2	20	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405L06CF02	4	4,05	0,2	20	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405L10CF02	4	4,05	0,2	20	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–

Come utilizzare i codici del catalogo

Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



A4SMR2020M0214

A4	S	M	R	2020M	02	14
Sistema di utensili	Tipo di utensile	Tipo di supporto	Lato dell'utensile	Dimensioni codolo	Dimensione della sede	Profondità max. di scanalatura
A4 = Scanalatura e tornitura	**S** = Dritto  **E** = Montaggio radiale 90º		 **R** = Destro **L** = Sinistro **N** = Neutrale		**02** **03** **04** **05** **06** **08** **10**	in millimetri

M =
Supporto massimo per larghezze di scanalatura specifiche e scarico dritto per diametri illimitati dei pezzi

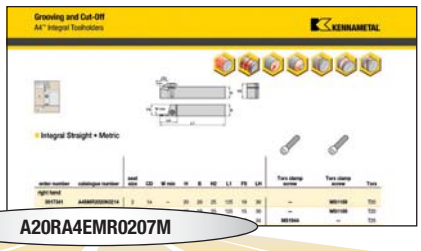
E =
Nessun supporto in acciaio per la scanalatura frontale

C =
Supporto rinforzato

sistema metrico:
Altezza x larghezza in mm, la lettera indica la lunghezza dell'utensile secondo lo standard ISO

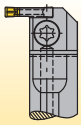
lunghezze metriche (mm)
K = 125
M = 150
P = 170

Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.

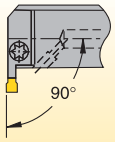


A20RA4EMR0207M

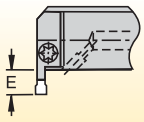
A	20	R	A4	E	M	R	02	07	M
Barra in acciaio con refrigerante	Diametro barra	Lunghezza barra	Sistema di scanalatura e tornitura A4™	Tipo di utensile	Tipo di supporto	Lato dell'utensile	Dimensione della sede dell'inserto	Profondità di scanalatura in mm	Unità utensile



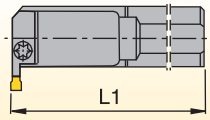
M = Sistema metrico



E = Montaggio radiale (90º)



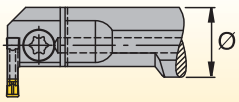
mm
7mm
10mm
12mm
16mm



barre in versione metrica:

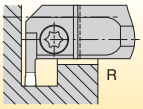
R = 200mm
S = 150mm
T = 300mm

dimensione della sede a tasca	larghezza di taglio (mm)
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05

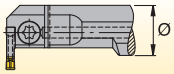


barre in versione metrica:

Diametro barra in millimetri



R = Destro

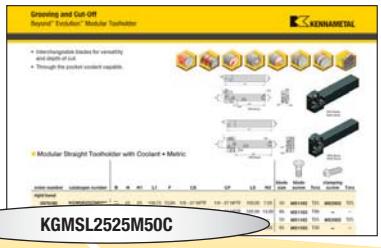


L = Sinistro

M = Supporto massimo

Come utilizzare i codici del catalogo

Ciascun numero e carattere del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



KGMSL2525M50C

KGM	S	L	2525M	50	C
Nome gruppo di prodotti	Tipo di utensile	Lato	Dimensione codolo	Dimensione della lama	Refrigerante
Sistema di scanalatura modulare	**S** = Montaggio assiale **E** = Montaggio radiale (90°)	**L** = Sinistro **R** = Destro	**Sistema metrico** = Altezza x larghezza in mm, la lettera indica la lunghezza dell'utensile secondo lo standard ISO	**50** **65**	**C** = Adduzione interna del refrigerante

Utensili di scanalatura e inserti **Beyond**™ per operazioni di scanalatura poco profonda e tornitura

Top Notch™

La scanalatura Top Notch è la migliore soluzione per aumentare la produttività. Il sistema Top Notch fornisce prestazioni costanti, un indexaggio preciso e un maggiore fissaggio per offrire un'eccellente finitura superficiale e una maggiore durata dell'utensile.

CARATTERISTICHE E VANTAGGI

- Le qualità Beyond rivestite in PVD sono state progettate per le lavorazioni di una vasta gamma di materiali.
- Il bloccaggio rigido fissa saldamente l'inserto in posizione per i tagli più difficili.
- Il design versatile consente a un sistema di gestire le operazioni di scanalatura diametro interno ed esterno, scanalatura frontale, tornitura posteriore, sottosquadra e persino le operazioni di filettatura.
- Gli inserti con rompitruciolo consentono un'eccellente evacuazione nella scanalatura ed offrono un migliore controllo nella tornitura multidirezionale.

Scoprite i vantaggi presso il partner di distribuzione autorizzato Kennametal o visitate il sito **kennametal.com.**

KENNAMETAL®

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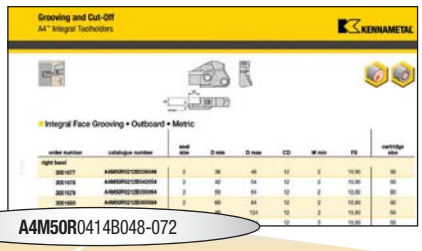
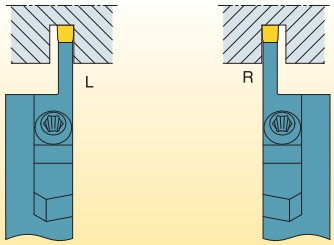
Come utilizzare i codici del catalogo

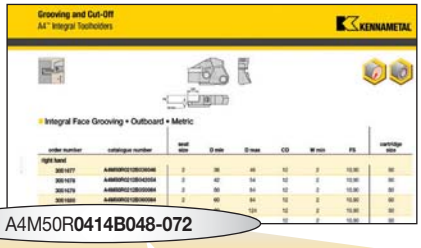
Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



A4M50R0414B048-072

A4M	50	R
Nome gruppo di prodotti	Dimensioni del sistema modulare	Lato dell'utensile
Lama modulare A4	50 65	

Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.



A4M50R**0414B048-072**

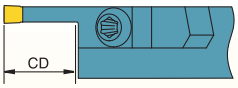
04

Dimensione della sede

dimensione della sede a tasca	larghezza di taglio mm
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05

14

Profondità massima di scanalatura



mm

14mm

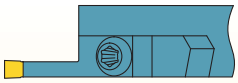
19mm

20mm

26mm

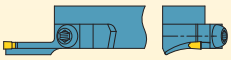
B

Tipo di utensile



M = Supporto massimo per larghezze di scanalatura specifiche e scarico dritto per diametri illimitati dei pezzi

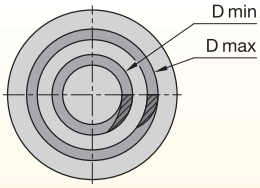
A = Portautensili per scanalatura frontale a curvatura interna



B = Portautensili per scanalatura frontale a curvatura esterna

048–072

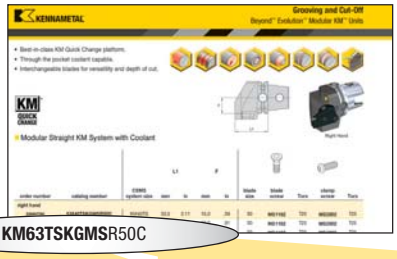
Gamma dei diametri per scanalatura frontale



i diametri sono min e max per diam. esterno di scanalatura frontale 999 = D max illimitato

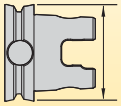
Come utilizzare i codici del catalogo

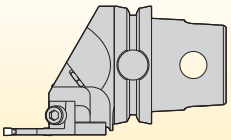
Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



KM63TSKGMSR50C

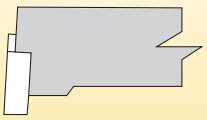
KM	63	TS	KGM	S
KM™ a cambio rapido	Dimensioni sistema	Caratteristiche	Sistema di fissaggio	Posizione dell'inserto
KM **KM4X™** **PSC**	40 = 40mm 50 = 50mm 63 = 63mm 80 = 80mm 100 = 100mm	**TS** **XMZ**	**KGM**	**E** = Montaggio radiale **S** = Montaggio laterale



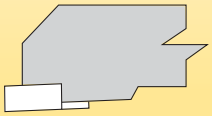


Scanalatura modulare

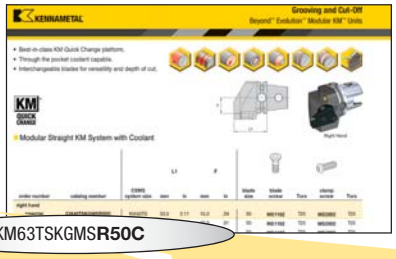
E



S



Utilizzando questi semplici riferimenti, è possibile identificare il prodotto più adatto alle proprie esigenze.

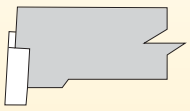


KM63TSKGMS**R50C**

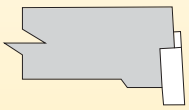
R	50	C	
Lato dell'utensile	Dimensione della lama	Refrigerante	Caratteristiche speciali
R = Destro **L** = Sinistro	**50** **60**	**C** = Adduzione del refrigerante interna	**Y** = Mazak® INTEGREX®

Montaggio radiale

R

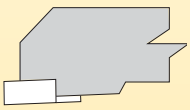


L

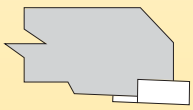


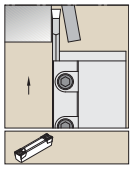
Montaggio laterale

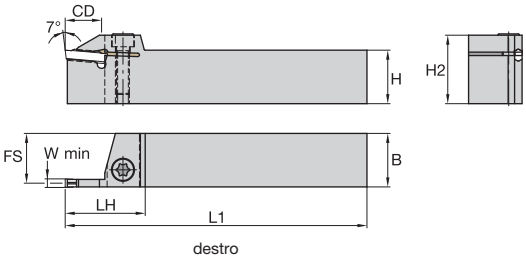
R



L







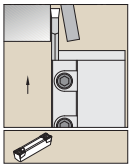
Dritto integrale • Sistema metrico

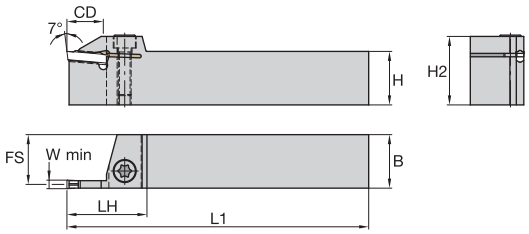
numero d'ordine	codice catalogo	dimen-sione sede	CD	W min	H	B	H2	L1	FS	LH	vite staffa	vite staffa	Torx
destro													
3017341	**A4SMR2020K0214**	2	14	–	20	20	25	125	19	30	**–**	**MS1160**	T20
3017342	**A4SMR1616K0214**	2	14	2	16	16	25	125	15	30	**–**	**MS1160**	T20
2974425	**A4SMR2020K0217**	2	17	2	20	20	31	125	19	34	**MS1944**	**–**	T25
3017340	**A4SMR2525M0214**	2	14	2	25	25	30	150	24	30	**–**	**MS1160**	T20
3017339	**A4SMR2525M0217**	2	17	2	25	25	31	150	24	34	**MS1944**	**–**	T25
1949633	**A4SMR1616K0314**	3	14	3	16	16	27	125	15	35	**MS2091**	**–**	T25
2503557	**A4SMR2016K0317**	3	17	3	20	16	32	125	15	37	**MS1970**	**–**	T30
1949635	**A4SMR2020K0314**	3	14	3	20	20	27	125	19	35	**MS1595**	**–**	T30
2503551	**A4SMR2020K0317**	3	17	3	20	20	32	125	19	37	**MS1970**	**–**	T30
1949637	**A4SMR2525M0317**	3	17	3	25	25	32	150	24	37	**MS1970**	**–**	T30
2503559	**A4SMR2016K0417**	4	17	4	20	16	32	125	14	37	**MS1970**	**–**	T30
1949639	**A4SMR2020K0414**	4	14	4	20	20	27	125	18	35	**MS1595**	**–**	T30
2503553	**A4SMR2020K0417**	4	17	4	20	20	32	125	18	37	**MS1970**	**–**	T30
1949641	**A4SMR2525M0417**	4	17	4	25	25	32	150	23	37	**MS1970**	**–**	T30
1949643	**A4SMR3225P0417**	4	17	4	32	25	40	170	23	37	**MS1970**	**–**	T30
1949645	**A4SMR2020K0519**	5	19	5	20	20	28	125	18	40	**MS1595**	**–**	T30
1949647	**A4SMR2525M0520**	5	20	5	25	25	33	150	23	40	**MS1970**	**–**	T30
1949649	**A4SMR3225P0522**	5	22	5	32	25	40	170	23	42	**MS1970**	**–**	T30
2503555	**A4SMR2020K0620**	6	20	6	20	20	33	125	17	40	**MS1970**	**–**	T30
2245484	**A4SMR2525M0620**	6	20	6	25	25	33	150	22	40	**MS1970**	**–**	T30
2263089	**A4SMR3225P0626**	6	26	6	32	25	40	170	22	45	**MS1970**	**–**	T30
2245485	**A4SMR2525M0820**	8	20	8	25	25	34	150	21	43	**MS1490**	**–**	T45
2263091	**A4SMR3225P0826**	8	26	8	32	25	41	170	21	47	**MS1490**	**–**	T45
2263173	**A4SMR3225P1026**	10	26	10	32	25	41	170	21	47	**MS1490**	**–**	T45

(continua)

(Dritto integrale • Sistema metrico — continua)

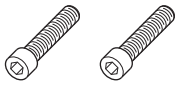
numero d'ordine	codice catalogo	dimen-sione sede	CD	W min	H	B	H2	L1	FS	LH	vite staffa	vite staffa	Torx
sinistro													
3017336	**A4SML2020K0214**	2	14	—	20	20	25	125	19	30	**—**	**MS1160**	T20
3017338	**A4SML1616K0214**	2	14	2	16	16	25	125	15	30	**—**	**MS1160**	T20
3017337	**A4SML2020K0217**	2	17	2	20	20	31	125	19	34	**MS1944**	**—**	T25
3017335	**A4SML2525M0214**	2	14	2	25	25	30	150	24	30	**—**	**MS1160**	T20
3017334	**A4SML2525M0217**	2	17	2	25	25	31	150	24	34	**MS1944**	**—**	T25
1949634	**A4SML1616K0314**	3	14	3	16	16	27	125	15	35	**MS2091**	**—**	T25
2503556	**A4SML2016K0317**	3	17	3	20	16	32	125	15	37	**MS1970**	**—**	T30
1949636	**A4SML2020K0314**	3	14	3	20	20	27	125	19	35	**MS1595**	**—**	T30
2503550	**A4SML2020K0317**	3	17	3	20	20	32	125	19	37	**MS1970**	**—**	T30
1949638	**A4SML2525M0317**	3	17	3	25	25	32	150	24	37	**MS1970**	**—**	T30
1949640	**A4SML2020K0414**	4	14	4	20	20	27	125	18	35	**MS1595**	**—**	T30
2503552	**A4SML2020K0417**	4	17	4	20	20	32	125	18	37	**MS1970**	**—**	T30
1949642	**A4SML2525M0417**	4	17	4	25	25	32	150	23	37	**MS1970**	**—**	T30
1949644	**A4SML3225P0417**	4	17	4	32	25	40	170	23	37	**MS1970**	**—**	T30
1949646	**A4SML2020K0519**	5	19	5	20	20	28	125	18	40	**MS1595**	**—**	T30
1949648	**A4SML2525M0520**	5	20	5	25	25	33	150	23	40	**MS1970**	**—**	T30
1949650	**A4SML3225P0522**	5	22	5	32	25	40	170	23	42	**MS1970**	**—**	T30
2503554	**A4SML2020K0620**	6	20	6	20	20	33	125	17	40	**MS1970**	**—**	T30
2245486	**A4SML2525M0620**	6	20	6	25	25	33	150	22	40	**MS1970**	**—**	T30
2263090	**A4SML3225P0626**	6	26	6	32	25	40	170	22	45	**MS1970**	**—**	T30
2245487	**A4SML2525M0820**	8	20	8	25	25	34	150	21	43	**MS1490**	**—**	T45
2263092	**A4SML3225P0826**	8	26	8	32	25	41	170	21	47	**MS1490**	**—**	T45
2263174	**A4SML3225P1026**	10	26	10	32	25	41	170	21	47	**MS1490**	**—**	T45



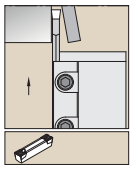


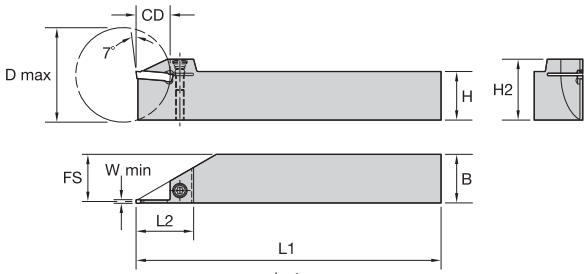
destro

Integrale dritto • Portautensili a sporgenza ridotta • Sistema metrico

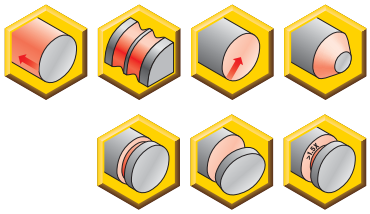


numero d'ordine	codice catalogo	dimen-sione sede	CD	W min	H	B	H2	L1	FS	LH	vite staffa	vite staffa	Torx
destro													
3854265	A4SMR2020K0208	2	8	2	20	20	24	125	19	26	–	MS1160	T20
3854267	A4SMR2020K0308	3	8	3	20	20	27	125	19	28	MS1595	–	T30
3854269	A4SMR2020K0408	4	8	4	20	20	27	125	18	28	MS1595	–	T30
3854271	A4SMR2525M0510	5	10	5	25	25	33	150	23	32	MS1970	–	T30
3854273	A4SMR2525M0610	6	10	6	25	25	33	150	22	37	MS1970	–	T30
sinistro													
3854266	A4SML2020K0208	2	8	2	20	20	24	125	19	26	–	MS1160	T20
3854268	A4SML2020K0308	3	8	3	20	20	27	125	19	28	MS1595	–	T30
3854270	A4SML2020K0408	4	8	4	20	20	27	125	18	28	MS1595	–	T30
3854272	A4SML2525M0510	5	10	5	25	25	33	150	23	32	MS1970	–	T30
3854274	A4SML2525M0610	6	10	6	25	25	33	150	22	37	MS1970	–	T30

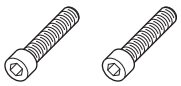




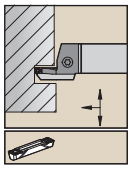
destro

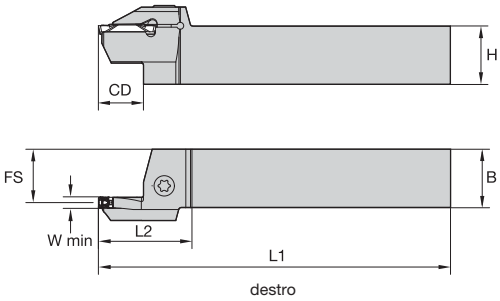


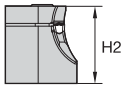
Bloccaggio superiore dritto integrale • Sistema metrico

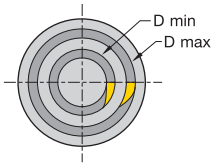


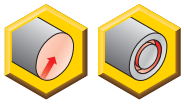
numero d'ordine	codice catalogo	dimen-sione sede	D max	CD	W min	H	B	H2	L1	FS	LH	vite staffa	vite staffa	dimensione chiave vite di bloccaggio
destro														
2982224	A4SCR1010K0113	1	27	13,500	1,50	10	10	21	125	9,40	25	MS1156	–	T15
2978378	A4SCR1212K0113	1	27	13,500	1,50	12	12	21	125	11,40	25	MS1156	–	T15
2982223	A4SCR1616K0113	1	27	13,500	1,50	16	16	21	125	15,40	25	MS1156	–	T15
2982172	A4SCR2020K0113	1	27	13,500	1,50	20	20	25	125	19,40	25	MS1156	–	T15
4169745	A4SCR1212K0214	2	28	14,000	2,00	12	12	21	125	11,17	28	MS1160	–	T20
4169746	A4SCR1616K0217	2	34	17,000	2,00	16	16	26	125	15,20	31	–	MS1944	T25
4169747	A4SCR1212K0314	3	28	14,000	3,00	12	12	23	125	10,72	30	–	MS2091	25 IP
4169748	A4SCR1616K0317	3	34	17,000	3,00	16	16	27	125	14,72	33	–	MS2091	25 IP
sinistro														
2982170	A4SCL1212K0113	1	27	13,500	1,50	12	12	21	125	11,40	25	MS1156	–	T15
2982169	A4SCL1616K0113	1	27	13,500	1,50	16	16	21	125	15,40	25	MS1156	–	T15
2982168	A4SCL2020K0113	1	27	13,500	1,50	20	20	25	125	19,40	25	MS1156	–	T15
4169749	A4SCL1212K0214	2	28	14,000	2,00	12	12	21	125	11,17	28	MS1160	–	T20
4169750	A4SCL1616K0217	2	34	17,000	2,00	16	16	26	125	15,20	31	–	MS1944	T25
4169752	A4SCL1616K0317	3	34	17,000	3,00	16	16	27	125	14,72	33	–	MS2091	25 IP


Destro raffigurata.









Scanalatura frontale integrale • Esterno • Sistema metrico

numero d'ordine	codice catalogo	dimen-sione sede	CD	D min	D max	W min	H	B	H2	L1	FS	LH	vite staffa	Torx
destro														
3865920	**A4SBR2020K2S12016020**	2S	12	16	20	2,00	20	20	25	125	19,20	28	–	T20
3865921	**A4SBR2020K2S12020025**	2S	12	20	25	2,00	20	20	25	125	19,20	28	–	T20
3865922	**A4SBR2020K2S12025036**	2S	12	25	36	2,00	20	20	25	125	19,20	28	–	T20
3865923	**A4SBR2020K3S14020025**	3S	14	20	25	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865924	**A4SBR2020K3S14025036**	3S	14	25	36	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865926	**A4SBR2020K4S14035048**	4S	14	35	48	4,00	20	20	28	125	18,20	35	**MS1595**	T30
3865927	**A4SBR2525M5S19028038**	5S	19	28	38	5,00	25	25	33	150	22,70	40	**MS1970**	T30
3865928	**A4SBR2525M5S19038058**	5S	19	38	58	5,00	25	25	33	150	22,70	40	**MS1970**	T30
sinistro														
3865929	**A4SBL2020K2S12016020**	2S	12	16	20	2,00	20	20	25	125	19,20	28	–	T20
3865931	**A4SBL2020K2S12025036**	2S	12	25	36	2,00	20	20	25	125	19,20	28	–	T20
3865932	**A4SBL2020K3S14020025**	3S	14	20	25	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865934	**A4SBL2020K4S14025035**	4S	14	25	35	4,00	20	20	28	125	18,20	35	**MS1595**	T30
3865937	**A4SBL2525M5S19038058**	5S	19	38	58	5,00	25	25	33	150	22,70	40	**MS1970**	T30

NOVO SA COME FARE
DALLA TECNICA, AL COMPONENTE, AL PROFITTO

L'obiettivo fondamentale è ottenere il massimo della produttività e del guadagno. L'obiettivo può essere raggiunto aggiungendo l'applicazione NOVO™ alla squadra. NOVO è dotato di potenti strumenti digitali che integrano la pianificazione dei processi, le disponibilità delle scorte e l'acquisto, la gestione dei costi per parte e i miglioramenti di produttività.

L'applicazione NOVO garantisce di avere gli utensili giusti per ogni macchina, nella sequenza giusta. Questo permette un'esecuzione impeccabile che velocizza ogni lavoro e massimizza ogni turno.

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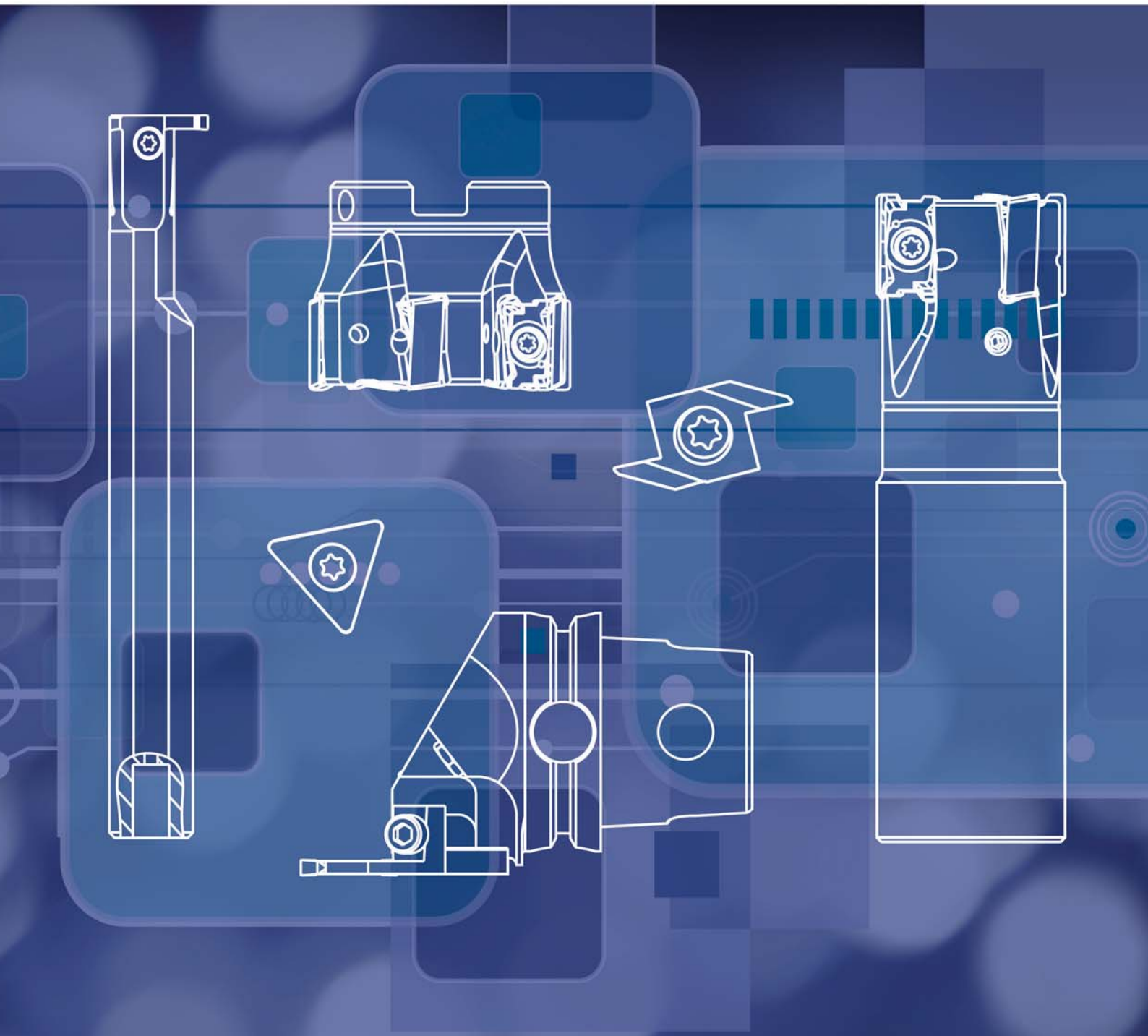

01

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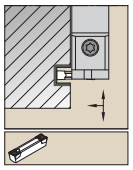
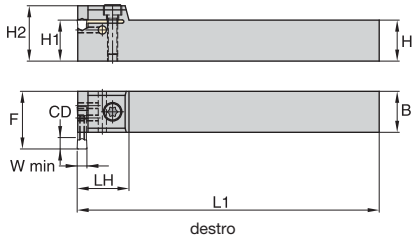
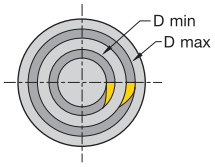
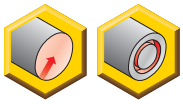






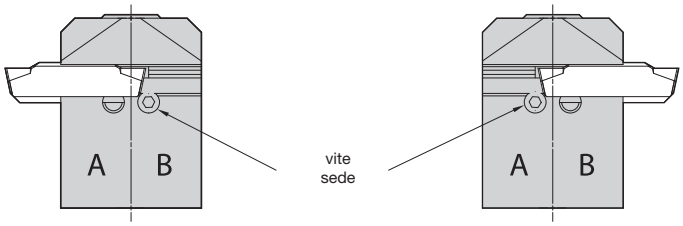


Scanalatura frontale integrale • Montaggio radiale • Bitagliente • Sistema metrico

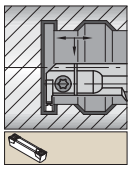
numero d'ordine	codice catalogo	dimensione sede	CD	W min	D min	H1	B	H2	L1	F	LH	vite staffa	Torx	vite a sede esagonale	hex (mm)
2414136	**A4ENN2020K0305**	3	5	3,00	70	20	20	27	125,0	25,4	25	**MS2091**	T25	**MS2090**	1.5 mm
2414137	**A4ENN2525M0305**	3	5	3,00	70	25	25	32	150,0	30,4	25	**MS2091**	T25	**MS2090**	1.5 mm
1949651	**A4ENN2020K0407**	4	7	4,00	90	20	20	27	125,0	27,9	25	**MS2091**	T25	**MS2090**	1.5 mm
1949652	**A4ENN2525M0407**	4	7	4,00	90	25	25	32	150,0	33,1	25	**MS2091**	T25	**MS2090**	1.5 mm
1949654	**A4ENN2525M0509**	5	9	5,00	120	25	25	33	150,0	35,1	34	**MS1970**	T30	**193.297**	1.5 mm
2503543	**A4ENN2020K0611**	6	11	6,00	120	20	20	28	125,0	35,4	34	**MS1595**	T30	**193.297**	2 mm
2503544	**A4ENN2525M0611**	6	11	6,00	120	25	25	33	150,0	38,9	34	**MS1970**	T30	**193.297**	2 mm
2503545	**A4ENN3232P0611**	6	11	6,00	120	32	32	40	170,0	43,4	34	**MS1970**	T30	**193.297**	2 mm

NOTA: D min per applicazioni di scanalatura frontale.
I portautensili di tipo A4EN sono progettati senza supporto in acciaio per incrementarne la capacità di scanalatura frontale. I consigli sull'avanzamento per il taglio devono essere ridotti del 25–30%.
Coppia consigliata per la vite di bloccaggio: 50-70 pollici/libbre. (6–8 Nm).
Larghezza di taglio minima indicata solo come riferimento; per la larghezza effettiva, consultare l'elenco degli inserti. Far corrispondere sempre la dimensione della sede dell'inserto alla dimensione della sede del portautensili.

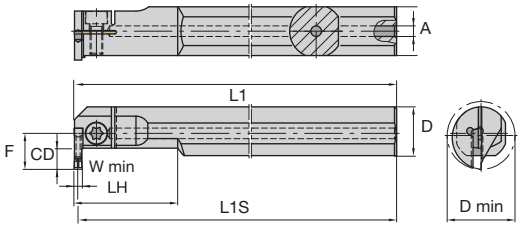
Montaggio degli inserti A4EN



I portautensili di tipo A4EN possono essere utilizzati sia per applicazioni destre che per applicazioni sinistre. La vite della sede deve essere usata in posizione B per il taglio sinistro e in posizione A per il taglio destro.



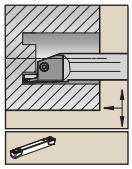
Codolo in acciaio con adduzione interna del refrigerante

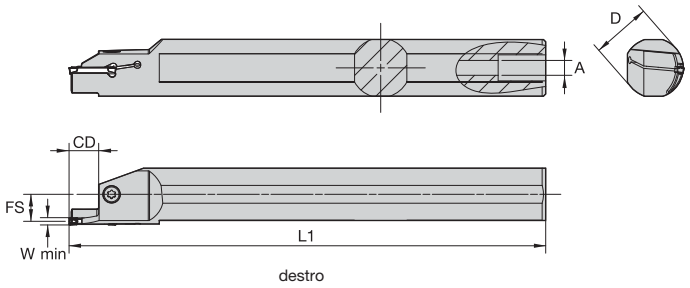


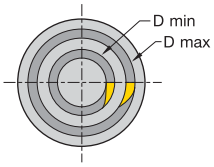
destro

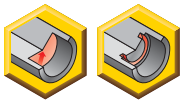
Bareno in acciaio • Sistema metrico

numero d'ordine	codice catalogo	dimen-sione sede	CD	W min	D	D min	L1	F	L1S	A	vite staffa	dimensione chiave vite di bloccaggio
destro												
2979223	**A20RA4EMR0207M**	2	7,00	2,00	20	25	200	13	199,0	4,00	**MS2089**	25 IP
2979225	**A25RA4EMR0210M**	2	10,00	2,00	25	32	200	17	199,0	5,00	**MS2089**	25 IP
1949655	**A20RA4EMR0307M**	3	7,00	3,00	20	25	200	13	198,5	4,00	**MS2089**	25 IP
1949657	**A25RA4EMR0310M**	3	10,00	3,00	25	32	200	17	198,5	5,00	**MS1595**	T30
1949659	**A32SA4EMR0312M**	3	12,00	3,00	32	40	250	22	248,5	6,00	**MS1595**	T30
1949661	**A20RA4EMR0407M**	4	7,00	4,00	20	25	200	13	198,0	4,00	**MS2089**	25 IP
1949663	**A25RA4EMR0410M**	4	10,00	4,00	25	32	200	17	198,0	5,00	**MS1595**	T30
1949665	**A32SA4EMR0412M**	4	12,00	4,00	32	40	250	22	248,0	6,00	**MS1595**	T30
1949667	**A40TA4EMR0416M**	4	16,00	4,00	40	52	300	30	298,0	6,00	**MS1970**	T30
1949669	**A32SA4EMR0516M**	5	16,00	5,00	32	44	250	26	247,5	6,00	**MS1595**	T30
1949671	**A40TA4EMR0516M**	5	16,00	5,00	40	52	300	30	297,5	6,00	**MS1970**	T30
2263197	**A40TA4EMR0616M**	6	16,00	6,00	40	52	300	30	297,0	6,00	**MS1970**	T30
sinistro												
2979192	**A20RA4EML0207M**	2	7,00	2,00	20	25	200	13	199,0	4,00	**MS2089**	25 IP
2979224	**A25RA4EML0210M**	2	10,00	2,00	25	32	200	17	199,0	5,00	**MS2089**	25 IP
1949656	**A20RA4EML0307M**	3	7,00	3,00	20	25	200	13	198,5	4,00	**MS2089**	25 IP
1949658	**A25RA4EML0310M**	3	10,00	3,00	25	32	200	17	198,5	5,00	**MS1595**	T30
1949660	**A32SA4EML0312M**	3	12,00	3,00	32	40	250	22	248,5	6,00	**MS1595**	T30
1949662	**A20RA4EML0407M**	4	7,00	4,00	20	25	200	13	198,0	4,00	**MS2089**	25 IP
1949664	**A25RA4EML0410M**	4	10,00	4,00	25	32	200	17	198,0	5,00	**MS1595**	T30
1949666	**A32SA4EML0412M**	4	12,00	4,00	32	40	250	22	248,0	6,00	**MS1595**	T30
1949668	**A40TA4EML0416M**	4	16,00	4,00	40	52	300	30	298,0	6,00	**MS1970**	T30
1949670	**A32SA4EML0516M**	5	16,00	5,00	32	44	250	26	247,5	6,00	**MS1595**	T30
1949672	**A40TA4EML0516M**	5	16,00	5,00	40	52	300	30	297,5	6,00	**MS1970**	T30
2263198	**A40TA4EML0616M**	6	16,00	6,00	40	52	300	30	297,0	6,00	**MS1970**	T30







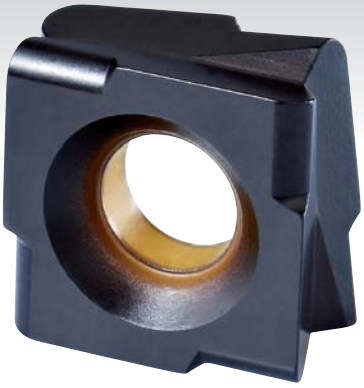


Bareno per scanalatura frontale in acciaio • Sistema metrico

numero d'ordine	codice catalogo	dimensione sede	CD	D min	D max	W min	D	L1	FS	A	vite staffa	dimensione chiave vite di bloccaggio
destro												
3871038	**A16RA4SAR2S12M017021**	2S	12,00	17	21	2,00	16	201	7	4,00	**MS1160**	T20
3871039	**A20RA4SAR2S12M021026**	2S	12,00	21	23	2,00	20	201	9	4,00	**MS1160**	T20
3871040	**A25RA4SAR2S12M026036**	2S	12,00	26	36	2,00	25	201	12	6,35	**MS1160**	T20
3871041	**A20RA4SAR3S14M021026**	3S	14,00	21	26	3,00	20	201	9	4,00	**MS1160**	T20
3871042	**A25RA4SAR3S14M026036**	3S	14,00	26	36	3,00	25	201	11	6,35	**MS1160**	T20
sinistro												
3871033	**A16RA4SAL2S12M017021**	2S	12,00	17	21	2,00	16	201	7	4,00	**MS1160**	T20
3871034	**A20RA4SAL2S12M021026**	2S	12,00	21	26	2,00	20	201	9	4,00	**MS1160**	T20
3871035	**A25RA4SAL2S12M026036**	2S	12,00	26	36	2,00	25	201	12	6,35	**MS1160**	T20
3871037	**A25RA4SAL3S14M026036**	3S	14,00	26	36	3,00	25	201	11	6,35	**MS1160**	T20

Il programma di inserti rettificati di precisione Fix-Perfect™ supera Beyond!

Fix-Perfect™



Le straordinarie prestazioni di questi inserti rettificati di precisione consentono un'eccezionale accuratezza di indexaggio e un'eccellente evacuazione del truciolo nella lavorazione di acciaio, ghisa e acciaio inossidabile.

Gli inserti Fix-Perfect Beyond sono la soluzione ideale per le lavorazioni in un'ampia gamma di settori industriali, come quello dell'oleodinamica, dell'energia, automobilistico, delle attrezzature pesanti e della meccanica generale.

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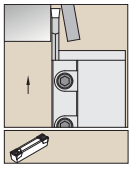
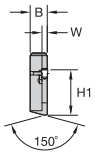
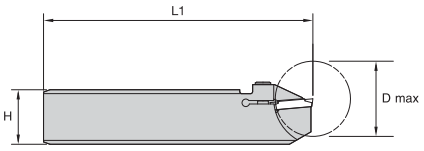
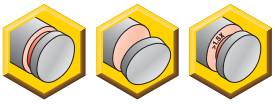






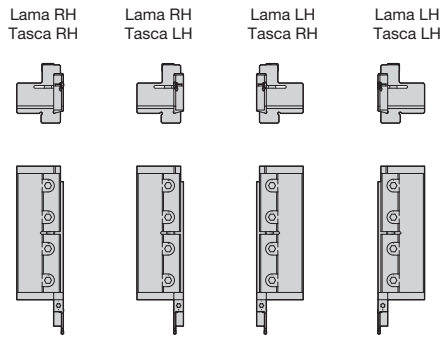
destro

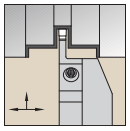


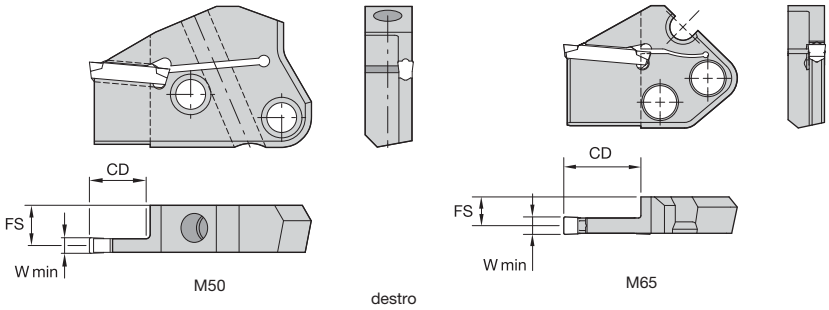
Lama per troncatura monotagliente • Sistema metrico

numero d'ordine	codice catalogo	dimen-sione sede	H	W	H1	L1	B	D max	vite staffa	Torx
destro										
3967127	**A4BHCL26K0317R**	3	26	3,0	21,4	125	7,95	35	**MS1571**	T20
3967124	**A4BHCL32K0317R**	3	32	3,0	25,0	125	7,95	35	**MS1571**	T20
3967117	**A4BHCR32K0217R**	2	32	2,0	25,0	125	7,95	35	**MS1571**	T20
sinistro										
3967136	**A4BHCL32K0217L**	2	32	2,0	25,0	125	7,95	35	**MS1571**	T20
3967137	**A4BHCL32K0317L**	3	32	3,0	25,0	125	7,95	35	**MS1571**	T20
3967134	**A4BHCR26K0317L**	3	26	3,0	21,4	125	7,95	35	**MS1571**	T20

NOTA: Solo lame con sede di dimensione 1.
Le chiavi di montaggio 170.137 e 170.130 devono essere ordinate separatamente.

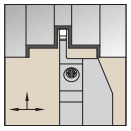



Destro raffigurata.

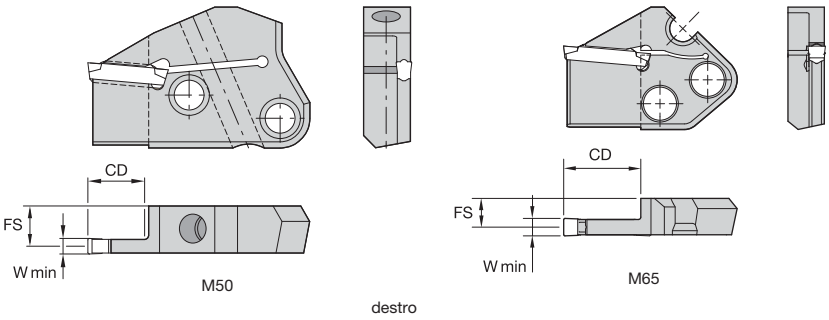


Lama dritta modulare con liquido refrigerante

numero d'ordine	codice catalogo	dimen-sione sede	CD	FS	dimensioni della lama
destro					
6401815	A4M50R0314MC	3	14,0	10,42	50
6401817	A4M50R0414MC	4	14,0	9,92	50
6401819	A4M50R0519MC	5	19,0	9,42	50
6401834	A4M65R0620MC	6	20,0	9,88	65
6401838	A4M65R0820MC	8	20,0	9,00	65
6401852	A4M65R1020MC	10	20,0	8,35	65
6401831	A4M65R0522MC	5	22,0	10,28	65
6401835	A4M65R0626MC	6	26,0	9,88	65
6401839	A4M65R0826MC	8	26,0	9,00	65
6401853	A4M65R1026MC	10	26,0	8,35	65
sinistro					
6401814	A4M50L0314MC	3	14,0	10,42	50
6401816	A4M50L0414MC	4	14,0	9,92	50
6401818	A4M50L0519MC	5	19,0	9,43	50
6401832	A4M65L0620MC	6	20,0	9,88	65
6401836	A4M65L0820MC	8	20,0	9,00	65
6401840	A4M65L1020MC	10	20,0	8,35	65
6401820	A4M65L0522MC	5	22,0	10,28	65
6401833	A4M65L0626MC	6	26,0	9,88	65
6401837	A4M65L0826MC	8	26,0	9,00	65
6401851	A4M65L1026MC	10	26,0	8,35	65



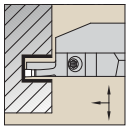
Destro raffigurata.



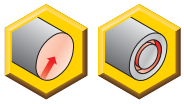
Lama dritta modulare

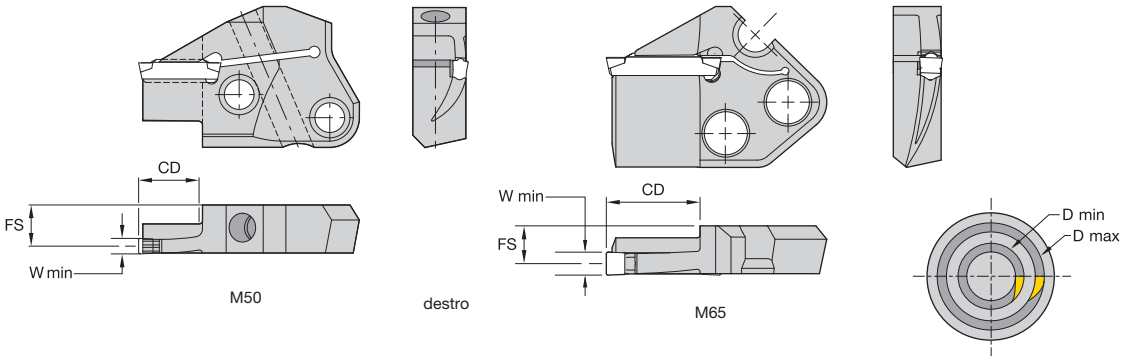
numero d'ordine	codice catalogo	dimensione sede	W min	CD	FS	dimensioni della lama
destro						
3051624	**A4M50R0214M**	2	2,00	14,0	10,87	50
1989348	**A4M50R0314M**	3	3,00	14,0	10,43	50
1989350	**A4M50R0414M**	4	4,00	14,0	9,93	50
1989352	**A4M50R0519M**	5	5,00	19,0	9,43	50
3557114	**A4M65R0620M**	6	6,00	20,0	9,88	65
3557116	**A4M65R0626M**	6	6,00	26,0	9,88	65
3557120	**A4M65R0826M**	8	8,00	26,0	9,00	65
3557124	**A4M65R1026M**	10	10,00	26,0	8,35	65
sinistro						
3022625	**A4M50L0214M**	2	2,00	14,0	10,87	50
1989347	**A4M50L0314M**	3	3,00	14,0	10,43	50
1989349	**A4M50L0414M**	4	4,00	14,0	9,93	50
3051623	**A4M50L2B14M**	2B	2,50	14,0	10,70	50
1989351	**A4M50L0519M**	5	5,00	19,0	9,43	50
3557115	**A4M65L0620M**	6	6,00	20,0	9,88	65
3557119	**A4M65L0820M**	8	8,00	20,0	9,00	65
3557123	**A4M65L1020M**	10	10,00	20,0	8,35	65
3557117	**A4M65L0626M**	6	6,00	26,0	9,88	65
3557121	**A4M65L0826M**	8	8,00	26,0	9,00	65
3557125	**A4M65L1026M**	10	10,00	26,0	8,35	65

NOTA: La dimensione della sede 2B accetta soltanto inserti 2B. La dimensione della sede 2 accetta inserti con dimensione 2 o 2B.



Destro raffigurata.





Lama per scanalatura frontale modulare • Interno

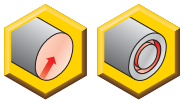
numero d'ordine	codice catalogo	dimensione sede	D min	D max	dimensione cartuccia
destro					
3051670	A4M50R0212A036046	2	36	46	50
3051671	A4M50R0212A042054	2	42	54	50
3051672	A4M50R0212A050064	2	50	64	50
3051673	A4M50R0212A060084	2	60	84	50
3051674	A4M50R0212A080124	2	80	124	50
3051675	A4M50R0212A120254	2	120	254	50
3051676	A4M50R0212A250999	2	250	—	50
2542517	A4M50R0314A036048	3	36	48	50
2542518	A4M50R0314A042058	3	42	58	50
2542519	A4M50R0314A052074	3	52	74	50
2542520	A4M50R0314A068100	3	68	100	50
2542521	A4M50R0314A090160	3	90	160	50
2542522	A4M50R0314A130300	3	130	300	50
2542523	A4M50R0314A290999	3	290	—	50
2542531	A4M50R0414A048072	4	48	72	50
2542532	A4M50R0414A064100	4	64	100	50
2542533	A4M50R0414A092150	4	92	150	50
2542534	A4M50R0414A132300	4	132	300	50
2542535	A4M50R0414A290999	4	290	—	50
2542541	A4M50R0519A058094	5	58	94	50
2542542	A4M50R0519A080136	5	80	136	50
2542543	A4M50R0519A120300	5	120	300	50
2542544	A4M50R0519A250999	5	250	—	50
3557131	A4M65R0624A070-112	6	70	112	65
3557163	A4M65R0624A100-212	6	100	212	65
3557165	A4M65R0624A200-999	6	200	999	65
3557167	A4M65R0824A090-200	8	90	200	65
3557169	A4M65R0824A184-999	8	184	999	65
3557173	A4M65R1024A200-999	10	200	999	65

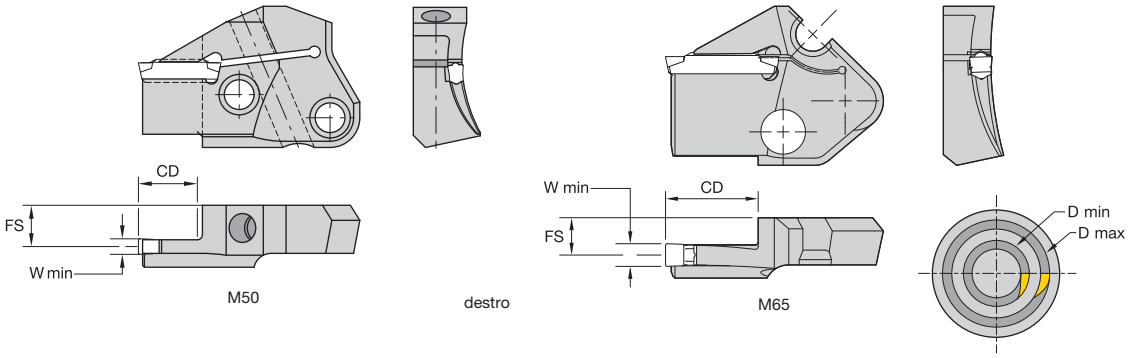
(continua)

(Lama per scanalatura frontale modulare • Interno — continua)

numero d'ordine	codice catalogo	dimensione sede	D min	D max	dimensione cartuccia
sinistro					
3051629	**A4M50L0212A060084**	2	60	84	50
3051631	**A4M50L0212A120254**	2	120	254	50
3051632	**A4M50L0212A250999**	2	250	—	50
2542524	**A4M50L0314A036048**	3	36	48	50
2542527	**A4M50L0314A068100**	3	68	100	50
2542528	**A4M50L0314A090160**	3	90	160	50
2542529	**A4M50L0314A130300**	3	130	300	50
2542530	**A4M50L0314A290999**	3	290	—	50
2542537	**A4M50L0414A064100**	4	64	100	50
2542538	**A4M50L0414A092150**	4	92	150	50
2542539	**A4M50L0414A132300**	4	132	300	50
2542540	**A4M50L0414A290999**	4	290	—	50
2542545	**A4M50L0519A058094**	5	58	94	50
2542546	**A4M50L0519A080136**	5	80	136	50
2542547	**A4M50L0519A120300**	5	120	300	50
2542548	**A4M50L0519A250999**	5	250	—	50
3557132	**A4M65L0624A070-112**	6	70	112	65
3557164	**A4M65L0624A100-212**	6	100	212	65
3557166	**A4M65L0624A200-999**	6	200	999	65
3557174	**A4M65L1024A200-999**	10	200	999	65

Destro raffigurata.





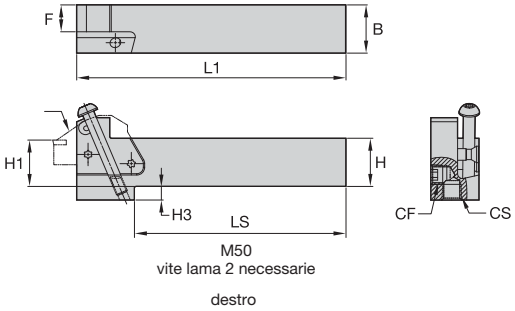
Lama per scanalatura frontale modulare • Esterno

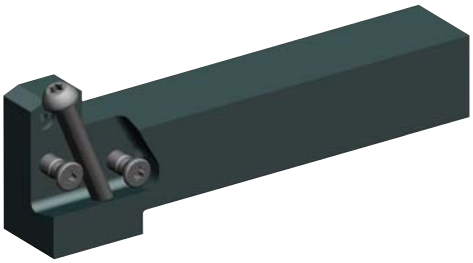
numero d'ordine	codice catalogo	dimensione sede	D min	D max	CD	FS	dimensione cartuccia
destro							
3051677	A4M50R0212B036046	2	36	46	12,00	10,900	50
3051678	A4M50R0212B042054	2	42	54	12,00	10,900	50
3051679	A4M50R0212B050064	2	50	64	12,00	10,900	50
3051680	A4M50R0212B060084	2	60	84	12,00	10,900	50
3051681	A4M50R0212B080124	2	80	124	12,00	10,900	50
3051682	A4M50R0212B120254	2	120	254	12,00	10,900	50
3051683	A4M50R0212B250999	2	250	—	12,00	10,900	50
3867457	A4M50R2S12B016020	2S	16	20	12,00	10,900	50
3867458	A4M50R2S12B020025	2S	20	25	12,00	10,900	50
3867459	A4M50R2S12B025036	2S	25	36	12,00	10,900	50
2398751	A4M50R0314B036048	3	36	48	14,00	10,500	50
2398752	A4M50R0314B042058	3	42	58	14,00	10,500	50
2398763	A4M50R0314B052074	3	52	74	14,00	10,500	50
2398764	A4M50R0314B068100	3	68	100	14,00	10,500	50
2398765	A4M50R0314B090160	3	90	160	14,00	10,500	50
2398766	A4M50R0314B130300	3	130	300	14,00	10,500	50
2398767	A4M50R0314B290999	3	290	—	14,00	10,500	50
2398775	A4M50R0414B048072	4	48	72	14,00	10,000	50
2398776	A4M50R0414B064100	4	64	100	14,00	10,000	50
2398777	A4M50R0414B092150	4	92	150	14,00	10,000	50
2398778	A4M50R0414B132300	4	132	300	14,00	10,000	50
2398779	A4M50R0414B290999	4	290	—	14,00	10,000	50
3867460	A4M50R3S14B020025	3S	20	25	14,00	10,490	50
3867461	A4M50R3S14B025036	3S	25	36	14,00	10,490	50
3867462	A4M50R4S14B025035	4S	25	35	14,00	10,000	50
3867464	A4M50R5S17B028038	5S	28	38	17,00	9,500	50
2398785	A4M50R0519B058094	5	58	94	19,00	9,500	50
2398786	A4M50R0519B080136	5	80	136	19,00	9,500	50
2398787	A4M50R0519B120300	5	120	300	19,00	9,500	50
2398788	A4M50R0519B250999	5	250	—	19,00	9,500	50
3557175	A4M65R0624B070-112	6	70	112	24,00	9,870	65
3557177	A4M65R0624B100-212	6	100	212	24,00	9,870	65
3557179	A4M65R0624B200-999	6	200	999	24,00	9,870	65
3557181	A4M65R0824B090-200	8	90	200	24,00	9,000	65
3557193	A4M65R0824B184-999	8	184	999	24,00	9,000	65
3557195	A4M65R1024B100-220	10	100	220	24,00	8,350	65
3557197	A4M65R1024B200-999	10	200	999	24,00	8,350	65

(*continua*)

(Lama per scanalatura frontale modulare • Esterno — continua)

numero d'ordine	codice catalogo	dimensione sede	D min	D max	CD	FS	dimensione cartuccia
sinistro							
3051663	A4M50L0212B036046	2	36	46	12,00	10,900	50
3051664	A4M50L0212B042054	2	42	54	12,00	10,900	50
3051665	A4M50L0212B050064	2	50	64	12,00	10,900	50
3051666	A4M50L0212B060084	2	60	84	12,00	10,900	50
3051667	A4M50L0212B080124	2	80	124	12,00	10,900	50
3051668	A4M50L0212B120254	2	120	254	12,00	10,900	50
3867466	A4M50L2S12B016020	2S	16	20	12,00	10,900	50
3867467	A4M50L2S12B020025	2S	20	25	12,00	10,900	50
3867468	A4M50L2S12B025036	2S	25	36	12,00	10,900	50
2398768	A4M50L0314B036048	3	36	48	14,00	10,500	50
2398769	A4M50L0314B042058	3	42	58	14,00	10,500	50
2398770	A4M50L0314B052074	3	52	74	14,00	10,500	50
2398771	A4M50L0314B068100	3	68	100	14,00	10,500	50
2398772	A4M50L0314B090160	3	90	160	14,00	10,500	50
2398773	A4M50L0314B130300	3	130	300	14,00	10,500	50
2398774	A4M50L0314B290999	3	290	—	14,00	10,500	50
2398780	A4M50L0414B048072	4	48	72	14,00	10,000	50
2398781	A4M50L0414B064100	4	64	100	14,00	10,000	50
2398782	A4M50L0414B092150	4	92	150	14,00	10,000	50
2398783	A4M50L0414B132300	4	132	300	14,00	10,000	50
2398784	A4M50L0414B290999	4	290	—	14,00	10,000	50
3867469	A4M50L3S14B020025	3S	20	25	14,00	10,490	50
3867470	A4M50L3S14B025036	3S	25	36	14,00	10,490	50
3867472	A4M50L4S14B035048	4S	35	48	14,00	10,000	50
3867484	A4M50L5S17B028038	5S	28	38	17,00	9,500	50
2398789	A4M50L0519B058094	5	58	94	19,00	9,500	50
2398790	A4M50L0519B080136	5	80	136	19,00	9,500	50
2398791	A4M50L0519B120300	5	120	300	19,00	9,500	50
2398792	A4M50L0519B250999	5	250	—	19,00	9,500	50
3557176	A4M65L0624B070-112	6	70	112	24,00	9,870	65
3557178	A4M65L0624B100-212	6	100	212	24,00	9,870	65
3557180	A4M65L0624B200-999	6	200	999	24,00	9,870	65
3557182	A4M65L0824B090-200	8	90	200	24,00	9,000	65
3557194	A4M65L0824B184-999	8	184	999	24,00	9,000	65
3557198	A4M65L1024B200-999	10	200	999	24,00	8,350	65



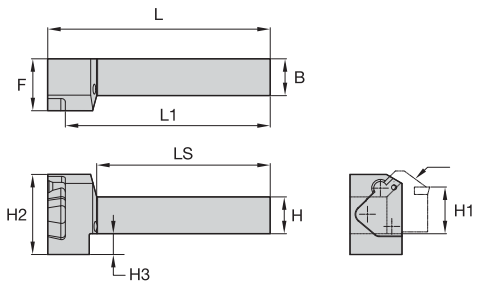


Portautensili a montaggio assiale modulare • Sistema metrico

NOTA: Per il portautensile assiale modulare con refrigerante, vedere pag. C58.

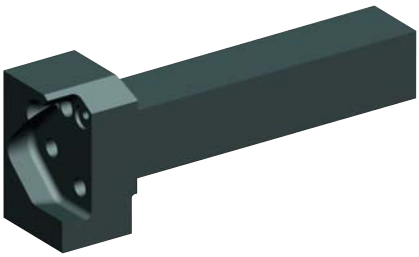
numero d'ordine	codice catalogo	B	H	L1	F	LS	H3	vite lama	Torx	vite staffa	Torx
destro											
1600249	**KGMSR2525M50**	25	25	138,75	13,84	109,00	7,00	**MS1162**	T25	**MS2002**	T25
3553429	**KGMSR2525M65**	25	25	150,00	13,00	120,00	14,00	**MS1163**	T30	**–**	–
1621083	**KGMSR3232P50**	32	32	158,75	20,81	–	–	**MS1162**	T25	**MS2002**	T25
3553431	**KGMSR3232P65**	32	32	170,00	20,79	158,00	7,00	**MS1163**	T30	**–**	–
sinistro											
1600250	**KGMSL2525M50**	25	25	138,75	13,84	109,00	7,00	**MS1162**	T25	**MS2002**	T25
3553430	**KGMSL2525M65**	25	25	150,00	13,00	120,00	14,00	**MS1163**	T30	**–**	–
1621084	**KGMSL3232P50**	32	32	158,75	20,81	–	–	**MS1162**	T25	**MS2002**	T25
3553432	**KGMSL3232P65**	32	32	170,00	20,79	158,00	7,00	**MS1163**	T30	**–**	–

NOTA: KGMS..: Il portautensili destro utilizza lame destre.
KGME..: Il portautensili destro utilizza lame sinistre.
La coppia della vite a lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71–88 pollici/libbre).
La coppia della vite a lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).



M65
vite lama 2 necessarie

destro



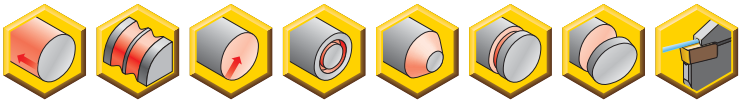
Portautensili a montaggio radiale modulari • Sistema metrico

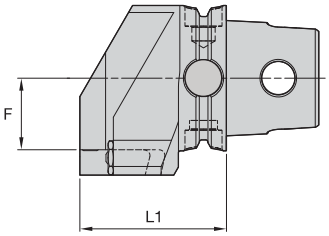
NOTA: Per il portautensile a montaggio radiale modulare con refrigerante, vedere pag. C59.

numero d'ordine	codice catalogo	B	H	L1	F	LS	H3	L	vite lama (2 necessarie)	Torx	vite staffa	Torx
destro												
1600270	**KGMER2525M50**	25	25	139,25	42,75	125,25	6,84	150,25	**MS1162**	T25	**MS2002**	T25
3553453	**KGMER2525M65**	25	25	138,15	35,00	129,00	14,00	150,00	**MS1163**	T30	**–**	–
1621085	**KGMER3232P50**	32	32	159,25	42,75	145,25	–	170,25	**MS1162**	T25	**MS2002**	T25
3553455	**KGMER3232P65**	32	32	158,15	35,00	153,00	7,00	170,00	**MS1163**	T30	**–**	–
sinistro												
1600271	**KGMEL2525M50**	25	25	139,25	42,75	125,25	6,84	150,25	**MS1162**	T25	**MS2002**	T25
3553454	**KGMEL2525M65**	25	25	138,15	35,00	129,00	14,00	150,00	**MS1163**	T30	**–**	–
1621086	**KGMEL3232P50**	32	32	159,25	42,75	145,25	–	170,25	**MS1162**	T25	**MS2002**	T25
3553456	**KGMEL3232P65**	32	32	158,15	35,00	153,00	7,00	170,00	**MS1163**	T30	**–**	–

NOTA: KGMS..: Il portautensili destro utilizza lame destre.
KGME..: Il portautensili destro utilizza lame sinistre.
La coppia della vite a lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71–88 pollici/libbre).
La coppia della vite a lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).

- Migliore piattaforma a cambio rapido KM.
- Adduzione di refrigerante nella sede.
- Lame intercambiabili per versatilità e profondità di taglio.





destro

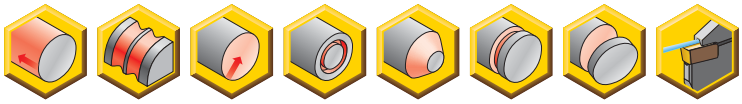
KM™ QUICK CHANGE

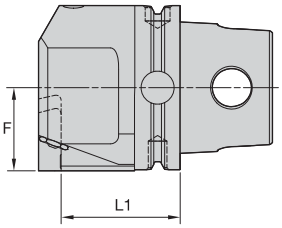
Sistema KM montaggio assiale modulare con refrigerante

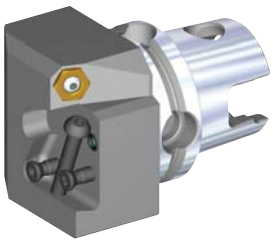
numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
5999790	**KM40TSKGMSR50C**	KM40TS	53,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000422	**KM50TSKGMSR65C**	KM50TS	53,5	22,0	65	**MS1163**	T30	**–**	–
5999864	**KM50TSKGMSR50C**	KM50TS	58,5	23,0	50	**MS1162**	T25	**MS2002**	T25
6000431	**KM63TSKGMSR65C**	KM63TS	58,5	30,0	65	**MS1163**	T30	**–**	–
5999948	**KM63TSKGMSR50C**	KM63TS	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
5999972	**KM63XMZKGMSR50CY**	KM63XMZ	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
6017695	**KM80TSKGMSR65C**	KM80TS	63,5	40,0	65	**MS1163**	T30	**–**	–
6000018	**KM80ATCKGMSR50C**	KM80ATC	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
6000014	**KM80TSKGMSR50C**	KM80TS	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
sinistro									
5999861	**KM40TSKGMSL50C**	KM40TS	53,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000424	**KM50TSKGMSL65C**	KM50TS	53,5	22,0	65	**MS1163**	T30	**–**	–
5999865	**KM50TSKGMSL50C**	KM50TS	58,5	23,0	50	**MS1162**	T25	**MS2002**	T25
6000433	**KM63TSKGMSL65C**	KM63TS	58,5	30,0	65	**MS1163**	T30	**–**	–
5999949	**KM63TSKGMSL50C**	KM63TS	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
5999973	**KM63XMZKGMSLF50CY**	KM63XMZ	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
6017696	**KM80TSKGMSL65C**	KM80TS	63,5	40,0	65	**MS1163**	T30	**–**	–
6000019	**KM80ATCKGMSL50C**	KM80ATC	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
6000015	**KM80TSKGMSL50C**	KM80TS	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25

NOTA: KGMS..: Il portautensile destro utilizza lame destre.
KGME..: Il portautensile destro utilizza lame sinistre.
La coppia della vite lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71–88 pollici/libbre).
La coppia della vite lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).

- Migliore piattaforma a cambio rapido KM.
- Adduzione di refrigerante nella sede.
- Lame intercambiabili per versatilità e profondità di taglio.







destro

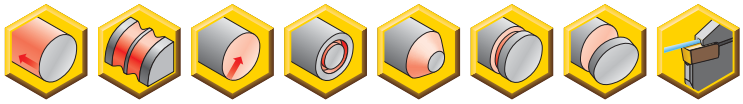
KM™ QUICK CHANGE

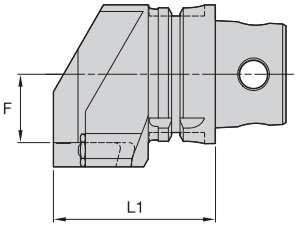
Sistema KM montaggio radiale modulare con refrigerante • Sistema metrico

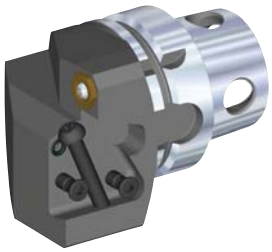
numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
5999788	**KM40TSKGMER50C**	KM40TS	28,0	20,50	50	**MS1162**	T25	**MS2002**	T25
5999862	**KM50TSKGMER50C**	KM50TS	38,0	25,50	50	**MS1162**	T25	**MS2002**	T25
6000410	**KM50TSKGMER65C**	KM50TS	47,0	25,50	65	**MS1163**	T30	**–**	–
6000425	**KM63TSKGMER65C**	KM63TS	47,0	32,52	65	**MS1163**	T30	**–**	–
5999946	**KM63TSKGMER50C**	KM63TS	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6000434	**KM63XMZKGMER65CY**	KM63XMZ	47,0	32,50	65	**MS1163**	T30	**–**	–
5999950	**KM63XMZKGMER50CY**	KM63XMZ	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6017697	**KM80ATCKGMER65C**	KM80ATC	57,0	40,50	65	**MS1163**	T30	**–**	–
6000016	**KM80ATCKGMER50C**	KM80ATC	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
6017693	**KM80TSKGMER65C**	KM80TS	57,0	40,50	65	**MS1163**	T30	**–**	–
6000012	**KM80TSKGMER50C**	KM80TS	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
sinistro									
5999789	**KM40TSKGMEL50C**	KM40TS	28,0	20,50	50	**MS1162**	T25	**MS2002**	T25
5999863	**KM50TSKGMEL50C**	KM50TS	38,0	25,50	50	**MS1162**	T25	**MS2002**	T25
6000421	**KM50TSKGMEL65C**	KM50TS	47,0	25,50	65	**MS1163**	T30	**–**	–
6000430	**KM63TSKGMEL65C**	KM63TS	47,0	32,52	65	**MS1163**	T30	**–**	–
5999947	**KM63TSKGMEL50C**	KM63TS	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6000436	**KM63XMZKGMELF65CY**	KM63XMZ	47,0	32,50	65	**MS1163**	T30	**–**	–
5999971	**KM63XMZKGMELF50CY**	KM63XMZ	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6017698	**KM80ATCKGMEL65C**	KM80ATC	57,0	40,50	65	**MS1163**	T30	**–**	–
6000017	**KM80ATCKGMEL50C**	KM80ATC	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
6017694	**KM80TSKGMEL65C**	KM80TS	57,0	40,50	65	**MS1163**	T30	**–**	–
6000013	**KM80TSKGMEL50C**	KM80TS	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25

NOTA: KGMS..: Il portautensile destro utilizza lame destre.
KGME..: Il portautensile destro utilizza lame sinistre.
La coppia della vite lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71-88 pollici/libbre).
La coppia della vite lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).

- Adduzione interna del refrigerante.
- Lame intercambiabili per versatilità e profondità di taglio.





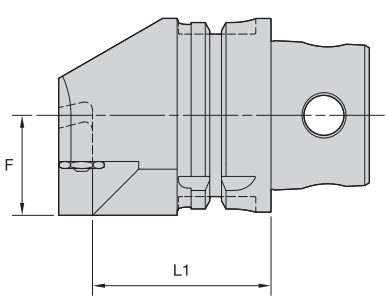


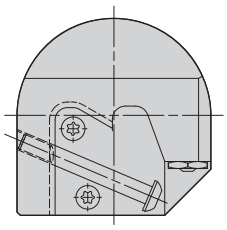
destro

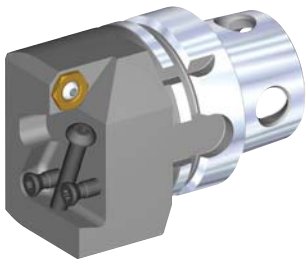
Sistema modulare KM4X™ assiale con refrigerante

numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
5543560	**KM4X63KGMSR65C**	KM4X63	68,5	30,0	65	**MS1163**	T30	**–**	–
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	31,0	50	**MS1162**	T25	**MS2002**	T25
sinistro									
5543558	**KM4X63KGMSL65C**	KM4X63	68,5	30,0	65	**MS1163**	T30	**–**	–
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	31,0	50	**MS1162**	T25	**MS2002**	T25

NOTA: KGMS..: Il portautensile destro utilizza lame destre.
KGME..: Il portautensile destro utilizza lame sinistre.
La coppia della vite lama M50 e della vite di bloccaggio deve essere di 8–10 Nm (71-88 pollici/libbre).
La coppia della vite lama M65 e della vite di bloccaggio deve essere di 18–20 Nm (159–177 pollici/libbre).

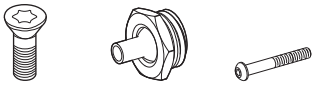






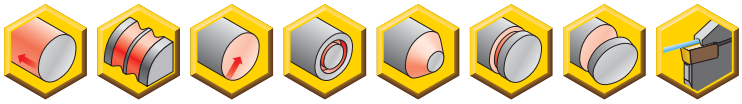
destro

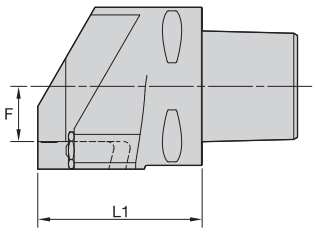
Sistema KM4X™ montaggio radiale modulare con refrigerante

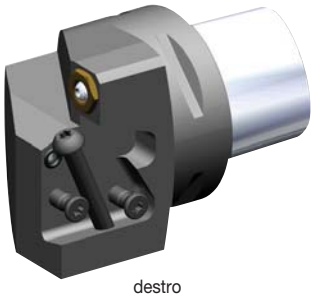


numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensione cartuccia	vite lama	ugello	vite staffa	kg	lbs
destro										
5543555	**KM4X63KGMER65C**	KM4X63	57,0	32,5	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000404	**KM4X63KGMER50C**	KM4X63	58,0	32,5	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	31,0	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11
sinistro										
5543553	**KM4X63KGMEL65C**	KM4X63	57,0	32,5	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000405	**KM4X63KGMEL50C**	KM4X63	58,0	32,5	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	31,0	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11

- Piattaforma a cambio rapido PSC standard.
- Adduzione interna del refrigerante.
- Lame intercambiabili per versatilità e profondità di taglio.





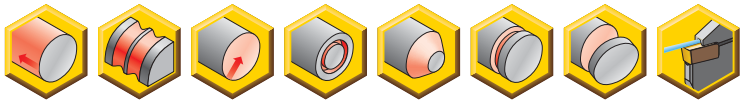


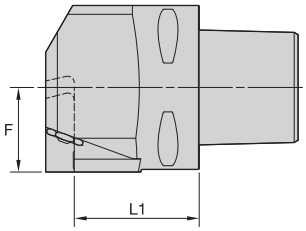
destro

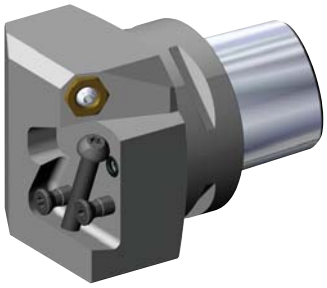
Sistema modulare assiale con refrigerante

numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
6000028	**PSC40KGMSR50C**	PSC40	63,5	10,0	50	**MS1162**	T25	**MS2002**	T25
5405654	**PSC50KGMSR65C**	PSC50	49,0	25,5	65	**MS1163**	T30	**–**	–
6000152	**PSC50KGMSR50C**	PSC50	63,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000464	**PSC63KGMSR65C**	PSC63	60,5	21,0	65	**MS1163**	T30	**–**	–
6000211	**PSC63KGMSR50C**	PSC63	65,5	22,0	50	**MS1162**	T25	**MS2002**	T25
6000468	**PSC80KGMSR65C**	PSC80	68,5	29,0	65	**MS1163**	T30	**–**	–
6000216	**PSC80KGMSR50C**	PSC80	73,5	30,0	50	**MS1162**	T25	**MS2002**	T25
sinistro									
6000029	**PSC40KGMSL50C**	PSC40	63,5	10,0	50	**MS1162**	T25	**MS2002**	T25
5405655	**PSC50KGMSL65C**	PSC50	49,0	25,5	65	**MS1163**	T30	**–**	–
6000153	**PSC50KGMSL50C**	PSC50	63,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000465	**PSC63KGMSL65C**	PSC63	60,5	21,0	65	**MS1163**	T30	**–**	–
6000213	**PSC63KGMSL50C**	PSC63	65,5	22,0	50	**MS1162**	T25	**MS2002**	T25
6000469	**PSC80KGMSL65C**	PSC80	68,5	29,0	65	**MS1163**	T30	**–**	–
6000217	**PSC80KGMSL50C**	PSC80	73,5	30,0	50	**MS1162**	T25	**MS2002**	T25

- Piattaforma a cambio rapido PSC standard.
- Adduzione interna del refrigerante.
- Lame intercambiabili per versatilità e profondità di taglio.







destro

Sistema modulare PSC radiale con refrigerante

numero d'ordine	codice catalogo	CSMS dimensioni sistema	L1	F	dimensioni della lama	vite lama	Torx	vite staffa	Torx
destro									
6000026	**PSC40KGMER50C**	PSC40	33,0	20,5	50	**MS1162**	T25	**MS2002**	T25
6000030	**PSC50KGMER50C**	PSC50	43,0	25,5	50	**MS1162**	T25	**MS2002**	T25
5405652	**PSC50KGMER65C**	PSC50	55,5	22,0	65	**MS1163**	T30	**–**	–
6000159	**PSC63KGMER50C**	PSC63	48,0	32,5	50	**MS1162**	T25	**MS2002**	T25
6000462	**PSC63KGMER65C**	PSC63	49,0	32,5	65	**MS1163**	T30	**–**	–
6000466	**PSC80KGMER65C**	PSC80	57,0	40,5	65	**MS1163**	T30	**–**	–
6000214	**PSC80KGMER50C**	PSC80	58,0	40,5	50	**MS1162**	T25	**MS2002**	T25
sinistro									
6000027	**PSC40KGMEL50C**	PSC40	33,0	20,5	50	**MS1162**	T25	**MS2002**	T25
6000151	**PSC50KGMEL50C**	PSC50	43,0	25,5	50	**MS1162**	T25	**MS2002**	T25
5405653	**PSC50KGMEL65C**	PSC50	55,5	22,0	65	**MS1163**	T30	**–**	–
6000160	**PSC63KGMEL50C**	PSC63	48,0	32,5	50	**MS1162**	T25	**MS2002**	T25
6000463	**PSC63KGMEL65C**	PSC63	49,0	32,5	65	**MS1163**	T30	**–**	–
6000467	**PSC80KGMEL65C**	PSC80	57,0	40,5	65	**MS1163**	T30	**–**	–
6000215	**PSC80KGMEL50C**	PSC80	58,0	40,5	50	**MS1162**	T25	**MS2002**	T25

Top Notch™

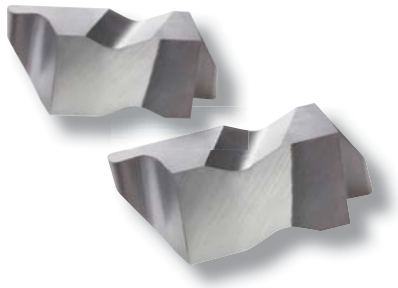
Utensili di scanalatura e inserti Beyond™ per operazioni di scanalatura poco profonda e tornitura

Applicazione principale

La scanalatura Top Notch è la migliore soluzione per aumentare la produttività. Il sistema Top Notch fornisce prestazioni costanti, un indexaggio preciso e un maggiore fissaggio per offrire un'eccellente finitura superficiale e una maggiore durata dell'utensile.

Caratteristiche e vantaggi

- Le qualità Beyond rivestite in PVD sono state progettate per le lavorazioni di una vasta gamma di materiali.
- Il bloccaggio rigido fissa saldamente l'inserto in posizione per i tagli più difficili.
- Il design versatile consente a un sistema di gestire le operazioni di scanalatura diametro interno ed esterno, scanalatura frontale, tornitura posteriore, sottosquadra e persino le operazioni di filettatura.
- Gli inserti con rompitruciolo consentono un'eccellente evacuazione nella scanalatura ed offrono un migliore controllo nella tornitura multidirezionale.



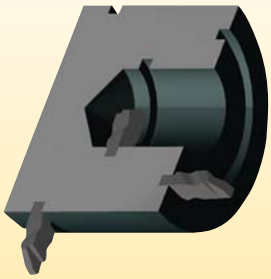
Il design del bloccaggio rigido previene spostamenti dell'inserto durante le operazioni ad elevata velocità di avanzamento. Questo vantaggio assicura un'eccellente finitura superficiale, una migliore produttività e una maggiore durata dell'utensile, oltre a favorire una concentricità perfetta. Il robusto sistema di bloccaggio a ponte genera forze in tre direzioni per consentire una maggiore resistenza alla spinta laterale e alle forze tangenziali.

Passo 1 • Selezionare il sistema in base alla profondità di scanalatura richiesta

Da sapere

- Profondità, larghezza e profilo di scanalatura.
- Materiale da lavorare.
- Applicazione da eseguire (scanalatura frontale, diam. int. o diam. est.).
- Requisiti portautensili (es., KM™, codolo quadro, destro/sinistro).

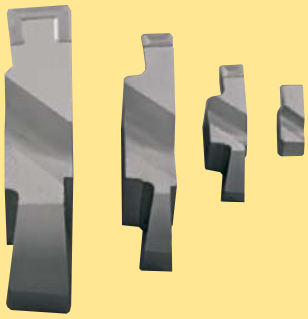
Top Notch™



Scanalatura
Per una profondità di scanalatura ≤1,5x della larghezza di scanalatura, esaminare il grafico della capacità del sistema e procedere al passo 2.

Scanalatura Top Notch per applicazioni di scanalatura interne, esterne e frontali

funzionalità del sistema		minimo pollici (mm)	massimo pollici (mm)
Scanalatura diam. int./diam. est.	larghezza	0.31 (0,79)	.375 (9,53)
	profondità	.050 (1,27)	.375 (9,53)
scanalatura frontale	larghezza	.125 (3,18)	.375 (9,53)
	profondità	.150 (3,81)	.250 (6,35)
scanalatura interna	diametro	.440 (11,2)	—
diametro di scanalatura frontale	standard	.940 (23,9)	—
	profondità	1.875 (47,6)	—
scanalatura profonda diam. est./ diam. int.	larghezza	.062 (1,57)	.250 (6,35)
	profondità	.125 (3,18)	.500 (12,70)
scanalatura frontale profonda	larghezza	.125 (3,18)	.250 (6,35)
	profondità	.250 (6,35)	.500 (12,70)

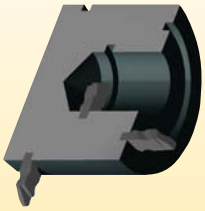


Passo 2 • Selezionare il portautensili in base all'applicazione

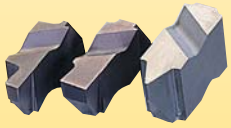
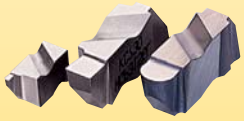
NOTA: I portautensili sono disponibili nelle versioni a codolo quadro convenzionali e nelle versioni a cambio rapido.
La dimensione dell'inserto deve coincidere con l'inserto di riferimento del portautensili scelto:

Passo 3 • Selezionare il tipo di rompitruciolo e la velocità di avanzamento

Rompitruciolo e velocità di avanzamento • pollici/giro (mm/giro)



materiale del pezzo e applicazione	P	M	K	N	S	H
prima scelta	NG-K .003–.011 (0,08–0,28)	NG-K .0025–.008 (0,07–0,20)	NG .004–.012 (0,01–0,30)	NGP .004–.012 (0,01–0,30)	NG-K .0025–.008 (0,07–0,20)	NG-ST CBN a punta riportata .002–.004 (0,05–0,10)
scelta alternativa	NG .004–.012 (0,10–0,30)	NGP .004–.009 (0,10–0,23)	NG-K .003–.011 (0,08–0,28)	NG-K .003–.012 (0,08–0,30)	NGP .004–.008 (0,10–0,20)	–

Inserti rompitruciolo -K	inserti a spoglia superiore piana	inserti ad angolo di spoglia positivo
		

Passo 4 • Selezionare qualità e velocità

Consigli sulla selezione delle qualità

La tabella delle velocità di rotazione iniziali è disponibile nella “Guida per le applicazioni”

	materiale del pezzo					
condizioni di lavorazione	P	M	K	N	S	H
alte prestazioni per condizioni ottimali (tagli puliti, buona condizione di lavorazione, capacità di velocità più elevata)	KCP10B 120–450	KCU10 120–260	KCK20B 150–550	KD1425 150–1500	KCU10 15–170	KB5625 45–230
uso generico (prima scelta per lavorazioni generali)	KCP25B 110–365	KCU25 120–245	KCU10 60–245	KCU10 120–975	KCU10 15–135	KB5625 80–150
condizioni sfavorevoli (sgrossatura, condizioni di lavorazione inefficienti, tagli interrotti, velocità bassa, scanalatura interna)	KCU25 85–270	KCU25 90–210	KCU25 50–195	K313 40–610	KCU25 8–110	KB1630 45–120

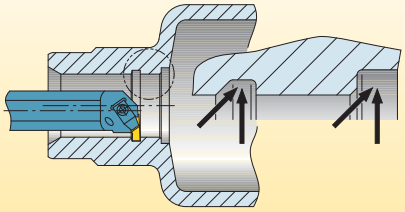
Passo 5 • Selezionare l’inserto e il portautensili dalle pagine del catalogo

NOTA: La dimensione dell’inserto deve coincidere con la dimensione dell’inserto di riferimento del portautensili scelto.

Esempio per Top Notch • Scanalatura
Materiale ..... acciaio basso legato
Profondità di scanalatura ..... 2mm (.079")
Larghezza di scanalatura ..... 3mm (.118")
Operazione ..... Taglio diam. int., capacità a velocità limitata, scanalatura a tuffo e smusso

Consiglio
Inserto NG2M300RK
Qualità KC5025
Larghezza dell’inserto ..... 3mm (.118")
Dimensione dell’inserto 2

Portautensili.... A20QNNTOL2 (sistema metrico)
A12NEL2 (pollici)
Inserto di riferimento N.2R



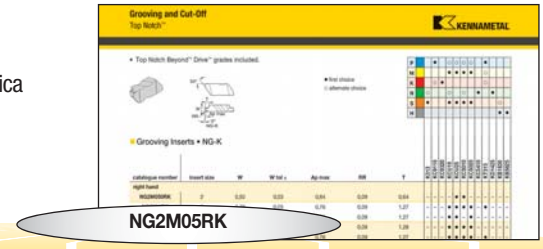
Velocità: 400 SFM (120 m/min)
Avanzamento: 0,006 pollici/giro (0,15 mm/giro)

Congratulazioni!

È stato possibile massimizzare la produttività selezionando la geometria di inserto, la qualità e le specifiche di taglio Top Notch migliori per l’applicazione!

Come utilizzare i codici del catalogo

Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



NG2M05RK

N	G		2	M	05	R		K	
Tipo di inserto	Stile inserto	Informazioni aggiuntive	Dimensione inserto	Identificazione dimensione	Dimensione scanalatura**	Lato dell'inserto	Profondità di taglio	Design rompitruciolo	Definizione degli inserti
N = Top Notch	**B** = Semilavorato (per forme speciali) **F** = Scanalatura frontale **G** = Scanalatura **P** = posteriore **R** = Raggio completo **U** = Sottosquadra (o scarico) **V** = Poly vee	**D** = Scanalatura profonda **P** = Positivo **C** = Scanalatura e smusso		**M** = Larghezza di scanalatura dell'inserto in sistema metrico **C** = La larghezza dell'inserto per scanalatura di anelli elastici è quella nominale dell'anello elastico □= La casella vuota indica la larghezza dell'inserto in pollici		**L** = Sinistro **R** = Destro	Indicata per inserti per scanalatura e smussati a incrementi di 0,01mm.	**E** = Solo onatura **K** = Controllo del truciolo standard **S** = Profilo T e onatura **ST** = Punta in STD (PcBN)	La dimensione di scanalatura "J" o "L" per inserti Poly-Vee "I" indica la scanalatura frontale interna

numero di inserto	W1 mm
1	2,54
2	3,81
3	4,95
4	6,98
5	9,65
6	9,73

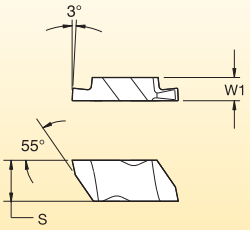
La posizione riguarda la larghezza di scanalatura per gli inserti di tipo F, G e U, i raggi per gli inserti di scanalatura tipo R, e la dimensione dell'anello elastico per gli inserti di scanalatura e smusso. Dimensione in 0,01mm.

Esempio di versione metrica: Larghezza di scanalatura di 3,25mm o raggio uguale a "325" dalla posizione nel catalogo.

Tolleranza di larghezza: ±0,025mm salvo diversamente specificato.

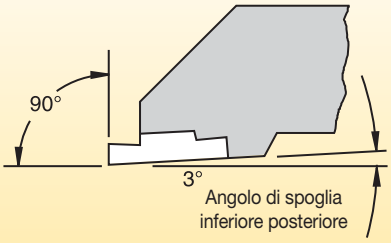
*Sistema di identificazione brevettato Kennametal.
**Omettere la posizione per i semilavorati di tipo NB Top Notch.

Dimensioni dell'inserto per filettatura e scanalatura Top Notch



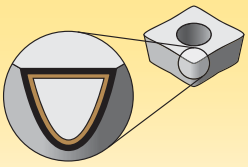
dimensione inserto	S mm	W1 mm
1	2,54	2,54
2	5,56	3,81
3	8,74	4,95
4	11,51	6,48
5	17,48	9,65
6	11,51	9,73
8	7,93	11,13

Design del portautensili Top Notch



NOTA: I portautensili sono progettati per collocare gli inserti con un'inclinazione di 3°, al fine di creare un angolo di spoglia inferiore posteriore lungo il lato aperto.

Kennametal e la tecnologia per utensili Top Notch si uniscono per offrire il miglior sistema di filettatura e scanalatura attualmente disponibile sul mercato.

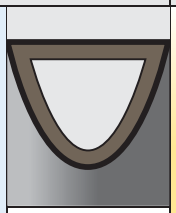
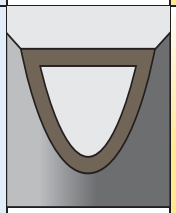
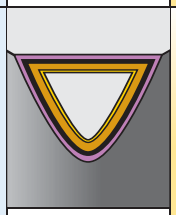
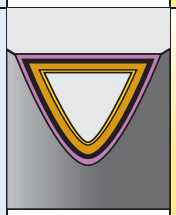
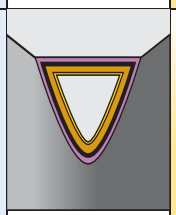


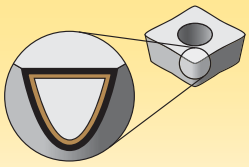
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ tenacità

Qualità

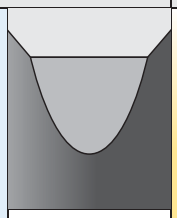
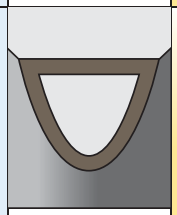
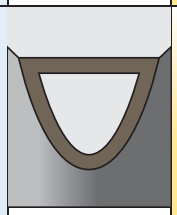
Rivestimento	Descrizione delle qualità	05	10	15	20	25	30	35	40	45
KCU10 	**Composizione:** Un rivestimento multistrato in PVD avanzato su un substrato in metallo duro non legato estremamente resistente alle deformazioni. Il nuovo rivestimento ottimizzato aumenta la stabilità del tagliente per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. **Applicazione:** La qualità KCU10™ è ideale per operazioni che vanno dalla finitura alla lavorazione generale della maggior parte dei materiali per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. Perfetta per la lavorazione della maggior parte degli acciai, degli acciai inossidabili, delle ghise, dei materiali non ferrosi e delle leghe resistenti al calore, nonché dotata di tenacità potenziata del tagliente, di resistenza all'intaglio e di elevate velocità di taglio e avanzamento.									
	P									
	M									
	K									
	N									
	S									
	H									
	beyond™									
KCU25 	**Composizione:** Qualità PVD avanzata con rivestimento duro in AlTiN e substrato non legato a grana fine. Il nuovo rivestimento ottimizzato aumenta la stabilità del tagliente per consentire un'ampia gamma di velocità e maggiori capacità di avanzamento. **Applicazione:** La qualità KCU25™ è ideale per la lavorazione generale della maggior parte degli acciai, acciai inossidabili, leghe resistenti al calore, titanio, ghise e materiali non ferrosi, per un'ampia gamma di velocità e avanzamenti, con un miglioramento della tenacità del tagliente per tagli interrotti ed elevate velocità di avanzamento.									
	P									
	M									
	K									
	N									
	S									
	beyond™									
KCP10B 	**Composizione:** Qualità in metallo duro arricchito al cobalto, progettata specificamente, con uno spesso rivestimento in MTCVD TiCN-Al_2O_3-TiOCN per la massima resistenza all'usura. **Applicazione:** Ottima qualità per applicazioni dalla finitura alla lavorazione media di una vasta gamma di materiali, compresa la maggior parte degli acciai, degli acciai inossidabili ferritici, martensitici e a indurimento per precipitazione (PH) e delle ghise. Il substrato arricchito al cobalto offre una combinazione bilanciata di resistenza alla deformazione e di tenacità del tagliente, mentre lo spessore del rivestimento offre un'eccezionale resistenza alle abrasioni e all'usura a crateri durante le lavorazioni ad alta velocità. Il rivestimento liscio offre resistenza al tagliente di riporto e alle microscheggiature e produce eccellenti finiture superficiali.									
	P									
	K									
	beyond™ DRIVE™									
KCP25B 	**Composizione:** Una qualità solida in metallo duro e arricchita al cobalto con un rivestimento MTCVD TiCN-Al_2O_3-TiOCN multistrato con adesione superiore tra gli strati. **Applicazione:** Migliore qualità di tornitura per utilizzo generale per la lavorazione della maggior parte degli acciai e degli acciai inossidabili ferritici e martensitici. La struttura del substrato garantisce un'adeguata resistenza alla deformazione e un'eccellente resistenza del tagliente dell'inserto. Gli strati del rivestimento offrono una buona resistenza all'usura su una vasta gamma di condizioni di lavorazione, mentre il trattamento post-rivestimento riduce la microscheggiatura (migliorando al contempo l'adesione del substrato) per una maggiore durata dell'utensile e migliori risultati finali.									
	P									
	K									
	beyond™ DRIVE™									
KCK20B 	**Composizione:** Rivestimento in MTCVD TICN-Al_2O_3-TiOCN particolarmente tenace su un substrato resistente all'usura. **Applicazione:** Progettata specificamente per ottimizzare l'adesione del rivestimento e la resistenza del tagliente. Ideale nei tagli interrotti a umido di ghise grigie e duttili. Si può utilizzare in un'ampia gamma di applicazioni, dalla finitura alla sgrossatura, per ottimizzare la produttività quando occorrono resistenza e affidabilità.									
	P									
	K									
	beyond™ DRIVE™									

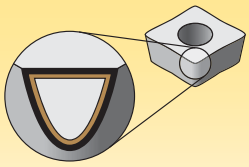


I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ⟷ **tenacità**

Qualità	Rivestimento	Descrizione delle qualità		05	10	15	20	25	30	35	40	45
K313	 –	**Composizione:** Qualità dura WC/Co a grana fine non legata a basso contenuto di legante. **Applicazione:** Eccezionale resistenza all'usura del tagliente con un'altissima resistenza per le lavorazioni di titanio, ghise, acciai inossidabili austenitici, metalli non ferrosi, non metalli e la maggior parte delle leghe resistenti al calore. Resistenza superiore alla deformazione termica e all'usura ad intaglio. La struttura con grani è ben controllata per ottenere un numero minimo di cavità e difetti, in modo da contribuire a un servizio lungo e affidabile.										
			M									
			K									
			N									
			S									
KC5010	 –	**Composizione:** Rivestimento in PVD AlTiN avanzato su un substrato in metallo duro non legato estremamente resistente alle deformazioni. **Applicazione:** La qualità KC5010 è ideale per operazioni che vanno dalla finitura alla lavorazione generale della maggior parte dei materiali a velocità più elevate. Perfetta per la lavorazione della maggior parte di acciai, acciai inossidabili, ghise, materiali non ferrosi e leghe resistenti al calore in condizioni stabili. Ottime prestazioni anche nella lavorazione di materiali temprati e a truciolo corto.	P									
			M									
			K									
			N									
			S									
			H									
KC5025	 –	**Composizione:** Qualità con rivestimento PVD AlTiN avanzato con un substrato duro non legato a grana ultra fine. **Applicazione:** Per la lavorazione generale della maggior parte degli acciai, acciai inossidabili, leghe resistenti al calore, titanio, ferro e materiali non ferrosi. La velocità può variare da ridotta a media ed è in grado di gestire tagli interrotti ed elevate velocità di avanzamento.	P									
			M									
			K									
			N									
			S									

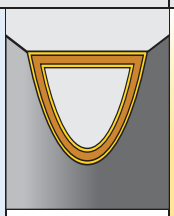
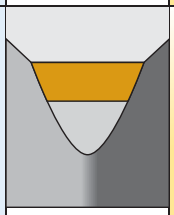
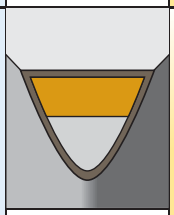
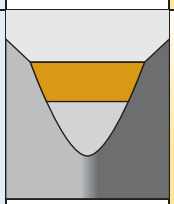


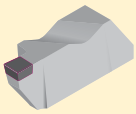
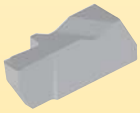
I rivestimenti permettono di affrontare elevate velocità e sono progettati per finiture e sgrossature leggere.

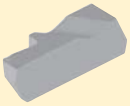
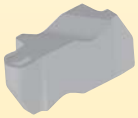
P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

resistenza all'usura ← → tenacità

Qualità

Rivestimento		Descrizione delle qualità		05	10	15	20	25	30	35	40	45
KT315		**Composizione:** Qualità di tornitura in cermet rivestito multistrato, in PVD TiN/TiCN/TiN. **Applicazione:** Ideale per finitura e lavorazioni medie della maggior parte degli acciai al carbonio, legati e inossidabili. Si comporta molto bene anche nelle lavorazioni di ghisa e ghisa duttile. Fornisce una durata dell'utensile lunga e costante e produce eccellenti finiture dei pezzi.	P									
			K									
	–											
KB1630		**Composizione:** Una qualità PcBN ad alto contenuto non rivestita. Le punte PcBN sono brasate su un inserto in metallo duro. **Applicazione:** Progettata per sgrossatura e finitura in tagli interrotti di acciai temprati (>45 HRC). Può essere inoltre applicata su ghise grigie, ghise temprate, acciai legati ad alto contenuto di cromo, leghe resistenti al calore e metalli sinterizzati. Gli inserti PcBN con riporto sono disponibili in un'ampia gamma di tipi di inserti, comprese le geometrie Top Notch™ e screw-on.										
			K									
			S									
	–		H									
KB5625		**Composizione:** A contenuto medio di PcBN con rivestimento PVD-TiN/AlTiN per una maggiore resistenza all'usura. **Applicazione:** Ideale per la sgrossatura e la finitura di acciai temprati(> 45 HRC). Da usare su acciai per cuscinetti, acciai per lavorazione a caldo e a freddo, acciai per stampi, acciai cementati, acciai carbonitrurati e alcuni rivestimenti duri.										
	–		H									
KD1425		**Composizione:** Qualità PCD multimodale, con diverse dimensioni della grana, brasata su un substrato in metallo duro. **Applicazione:** Progettata per un'estrema resistenza all'abrasione e una buona resistenza del tagliente in applicazioni difficili. Scelta ideale per leghe di alluminio ad alto contenuto di silicio, materiali bimetallici (AL/GCI), MMC, plastiche rinforzate con fibra di carbonio e altri materiali non metallici abrasivi.										
			N									
	–											

stile inserto	applicazione	angolo di spoglia	pagina/e
NG	• Scanalatura generica. • Scanalatura O-ring. • Scanalatura di anelli elastici.	neutro	C154
NG-K	• Geometria rompitruciolo. • Scanalatura generica. • Scanalatura O-ring. • Scanalatura di anelli elastici. • Tornitura leggera.	10° positivo	C146
NG-ST 	• Tornitura dura.	neutro	C163
NGC-K	• L'inserto con tagliente a scanalatura e smusso combinati taglia in un unico tuffo positivo con rompitruciolo. • Progettato per scanalature di anelli elastici di arresto conformi alla specifica DIN 471/472.	10° positivo	C152
NGD	• Scanalatura profonda.	neutro	C157
NGD-K 	• Geometria rompitruciolo. • Scanalatura profonda. • Tornitura leggera.	10° positivo	C149
NGP	• Scanalatura generica. • Scanalatura O-ring. • Scanalatura di anelli elastici.	5° positivo	C152
NF	• Scanalatura frontale. • Spazio laterale aggiuntivo.	neutro	C161
NF-K	• Scanalatura frontale con rompitruciolo. • Spazio laterale aggiuntivo.	10° positivo	C159
NFD-K	• Scanalatura frontale profonda con rompitruciolo. • Spazio laterale aggiuntivo.	10° positivo	C160

stile inserto	applicazione	angolo di spoglia	pagina/e
NFD-KI 	• Scanalatura frontale profonda interna con rompitruciolo. • Da utilizzare con i bareni per scanalature frontali interne.	10° positivo	C160
NP-K NPD-K	• Tornitura. • Tornitura posteriore positiva. • Profilatura con rompitruciolo.	10° positivo	C151
NR	• Scanalatura a raggio completo. • Tornitura e profilatura.	neutro	C158
NR-K 	• Geometria rompitruciolo. • Scanalatura, tornitura e profilatura a raggio completo.	10° positivo	C150
NRD	• Scanalatura profonda. • Forma finale a raggio completo.	neutro	C159
NRP	• Scanalatura a raggio completo. • Profilatura per tornitura leggera.	5° positivo	C153
NU	• Sottosquadra.	neutro	C161
NV	• Scanalatura poly vee.	neutro	C162
NB/NBD	• Semilavorati. • Semilavorati per scanalatura profonda. • Disponibile solo in qualità non rivestite.	–	C162–C163

Kennametal sul Web

kennametal.com

TROVARE LE PIÙ RECENTI INFORMAZIONI DI PRODOTTO

Che si tratti di tornitura, fresatura o foratura, i marchi Kennametal rappresentano l'utensileria ad elevate prestazioni di cui avete bisogno. Offriamo soluzioni standard e personalizzate per un'ampia gamma di applicazioni.

Trovare informazioni aggiornate sulle campagne e sui cataloghi.

Registrarsi su Konnect per avere la funzionalità completa del sito web di Kennametal per l'ordinazione online.

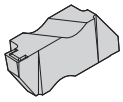
CONTATTATECI

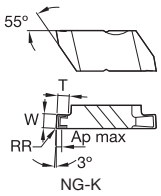
I nostri clienti sono importanti per noi. Desideriamo offrirvi il miglior servizio clienti del settore. Inviateci i vostri commenti o le vostre domande. Cercheremo di rispondere a tutte le richieste entro 24 ore.

TROVARE IL PARTNER DI DISTRIBUZIONE AUTORIZZATO PIÙ VICINO

Kennametal offre prodotti e servizi di prim'ordine in tutto il mondo. I nostri distributori ci conoscono bene e, ciò che più importa, conoscono bene anche voi. Sanno meglio di chiunque altro in questo settore come mettere le potenzialità di Kennametal al servizio del vostro settore, nella vostra area e per la vostra azienda.

- Qualità Top Notch Beyond™ Drive™ incluse.





● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

Scanalatura e tornitura • con rompitruciolo

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NG2M050RK	2	0,50	0,03	0,64	0,09	0,64	●	●	–	●	–	–	●	–	–	–	–	–
NG2031RK	2	0,79	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	●	–	–	–
NG2M080RK	2	0,80	0,03	0,76	0,09	1,27	●	●	●	●	–	–	–	●	–	–	–	–
NG2M100RK	2	1,00	0,03	0,76	0,09	1,28	●	●	●	●	–	–	●	●	–	–	–	–
NG2047RK	2	1,19	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	●	–	–	–
NG2M120RK	2	1,20	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2M140RK	2	1,40	0,03	0,76	0,09	1,28	●	●	●	●	–	–	●	●	–	–	–	–
NG2M150RK	2	1,50	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2062RK	2	1,56	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	●	–	–	–
NG2M170RK	2	1,70	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M175RK	2	1,75	0,03	1,09	0,19	2,81	–	●	–	●	–	–	–	–	–	–	–	–
NG2M195RK	2	1,95	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M200RK	2	2,00	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	●	–	–	–
NG2M220RK	2	2,20	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2M225RK	2	2,25	0,03	1,09	0,19	2,81	●	●	●	●	–	–	–	●	–	–	–	–
NG2094RK	2	2,39	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	●	–	–	–
NG2M250RK	2	2,50	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2M275RK	2	2,75	0,03	1,09	0,19	2,79	●	●	●	●	–	–	–	●	–	–	–	–
NG2M300RK	2	3,00	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2125RK	2	3,18	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	●	–	–	–
NG2M320RK	2	3,20	0,03	1,09	0,19	2,79	–	–	–	●	–	–	–	–	–	–	–	–
NG2M325RK	2	3,25	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG3M100RK	3	1,00	0,03	0,76	0,20	1,91	–	●	–	●	–	–	–	●	–	–	–	–
NG3047RK	3	1,19	0,03	0,76	0,19	1,91	●	●	●	●	–	–	●	●	–	–	–	–
NG3M120RK	3	1,20	0,03	0,76	0,19	1,91	●	●	●	●	–	–	–	●	–	–	–	–
NG3M150RK	3	1,50	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3062RK	3	1,58	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	●	–	–	–
NG3M175RK	3	1,75	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3072RK	3	1,83	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3078RK	3	1,98	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3M200RK	3	2,00	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	●	–	–	–
NG3M220RK	3	2,20	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3M225RK	3	2,24	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3094RK	3	2,39	0,03	1,02	0,19	3,81	●	●	●	–	–	–	●	●	●	–	–	–
NG3M250RK	3	2,50	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–

(continua)

(Scanalatura e tornitura • con rompitruciolo — continua)

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG3M275RK	3	2,75	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M300RK	3	3,00	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3125RK	3	3,18	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	●	–	–	–
NG3M320RK	3	3,20	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M325RK	3	3,25	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M350RK	3	3,50	0,03	2,92	0,32	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3156RK	3	3,96	0,03	2,92	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M400RK	3	4,00	0,03	2,92	0,32	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M425RK	3	4,25	0,03	2,92	0,32	3,81	●	●	●	●	–	–	–	●	–	–	–	–
NG3M450RK	3	4,50	0,03	2,92	0,32	3,81	–	●	–	●	–	–	–	–	–	–	–	–
NG3189RK	3	4,80	0,03	2,92	0,57	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG4M300RK	4	3,00	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	–	–	–	–	–
NG4125RK	4	3,18	0,03	1,06	0,19	3,81	●	●	●	●	–	–	●	–	–	–	–	–
NG4M350RK	4	3,50	0,03	2,92	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4M400RK	4	4,00	0,03	2,92	0,57	6,35	–	●	●	●	–	–	●	●	–	–	–	–
NG4M450RK	4	4,50	0,03	2,92	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4189RK	4	4,80	0,03	2,92	0,57	6,35	●	●	●	●	–	–	●	●	–	–	–	–
NG4M500RK	4	5,00	0,03	2,92	0,32	6,35	●	●	●	●	–	–	–	–	–	–	–	–
NG4M550RK	4	5,50	0,03	3,81	0,57	6,35	–	–	–	●	–	–	–	–	–	–	–	–
NG4M600RK	4	6,00	0,03	3,81	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4250RK	4	6,35	0,03	3,81	0,57	6,35	–	●	●	●	–	–	●	●	–	–	–	–
sinistro																		
NG2M050LK	2	0,50	0,03	0,64	0,09	0,64	●	●	–	●	–	–	●	–	–	–	–	–
NG2031LK	2	0,79	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2M080LK	2	0,80	0,03	0,76	0,09	1,27	●	●	●	●	–	–	–	●	–	–	–	–
NG2M100LK	2	1,00	0,03	0,76	0,08	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2047LK	2	1,19	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2M120LK	2	1,20	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2M140LK	2	1,40	0,03	0,76	0,09	1,27	●	●	●	●	–	–	–	●	–	–	–	–
NG2M150LK	2	1,50	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2062LK	2	1,58	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M170LK	2	1,70	0,03	1,09	0,19	2,79	–	●	●	●	–	–	●	●	–	–	–	–
NG2M175LK	2	1,75	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2M195LK	2	1,95	0,03	1,09	0,19	2,79	–	●	●	●	–	–	●	–	–	–	–	–
NG2M200LK	2	2,00	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M220LK	2	2,20	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	–	–	–	–	–
NG2M225LK	2	2,25	0,03	1,09	0,19	2,79	●	●	●	●	–	–	–	●	–	–	–	–
NG2094LK	2	2,39	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M250LK	2	2,50	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2M275LK	2	2,75	0,03	1,09	0,19	2,79	●	●	–	●	–	–	●	–	–	–	–	–

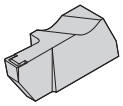
(continua)

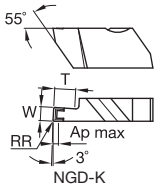
(Scanalatura e tornitura • con rompitruciolo — continua)

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG2M300LK	2	3,00	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2125LK	2	3,18	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M325LK	2	3,25	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	–	–	–	–	–
NG3M100LK	3	1,00	0,03	0,76	0,20	1,91	–	●	–	●	–	–	–	●	–	–	–	–
NG3047LK	3	1,19	0,03	0,76	0,19	1,90	●	●	●	●	–	–	●	●	–	–	–	–
NG3M120LK	3	1,20	0,03	0,76	0,19	1,91	●	●	●	●	–	–	–	●	–	–	–	–
NG3M150LK	3	1,50	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3062LK	3	1,58	0,03	1,02	0,19	2,39	●	●	–	–	–	–	●	●	–	–	–	–
NG3M175LK	3	1,75	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3072LK	3	1,83	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3078LK	3	1,98	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3M200LK	3	2,00	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3M220LK	3	2,20	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3M225LK	3	2,25	0,03	1,02	0,19	2,39	●	●	●	●	–	–	–	–	–	–	–	–
NG3094LK	3	2,39	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	●	–	–	–
NG3M250LK	3	2,50	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M275LK	3	2,75	0,03	1,02	0,19	3,81	●	●	●	●	–	–	–	●	–	–	–	–
NG3M300LK	3	3,00	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3125LK	3	3,18	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M320LK	3	3,20	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M325LK	3	3,25	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M350LK	3	3,50	0,03	2,92	0,32	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3156LK	3	3,96	0,03	2,92	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M400LK	3	4,00	0,03	2,92	0,32	3,81	●	●	●	●	–	–	–	●	–	–	–	–
NG3M425LK	3	4,25	0,03	2,92	0,32	3,81	●	●	●	●	–	–	–	–	–	–	–	–
NG3M450LK	3	4,50	0,03	2,92	0,32	3,81	–	●	–	●	–	–	–	–	–	–	–	–
NG3189LK	3	4,80	0,03	2,92	0,57	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG4M300LK	4	3,00	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	–	–	–	–	–
NG4125LK	4	3,18	0,03	1,06	0,19	3,81	●	●	●	●	–	–	–	–	–	–	–	–
NG4M320LK	4	3,20	0,03	1,02	0,19	3,81	–	–	–	●	–	–	–	–	–	–	–	–
NG4M350LK	4	3,50	0,03	2,92	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4M400LK	4	4,00	0,03	2,92	0,57	6,35	●	●	●	●	–	–	–	–	–	–	–	–
NG4M450LK	4	4,50	0,03	2,92	0,57	6,35	–	●	–	●	–	–	–	●	–	–	–	–
NG4189LK	4	4,80	0,03	2,92	0,57	6,35	●	●	●	●	–	–	●	●	–	–	–	–
NG4M500LK	4	5,00	0,03	2,92	0,32	6,35	●	●	●	●	–	–	●	–	–	–	–	–
NG4M550LK	4	5,50	0,03	3,81	0,57	6,35	–	–	–	●	–	–	–	–	–	–	–	–
NG4M600LK	4	6,00	0,03	3,81	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4250LK	4	6,35	0,03	3,81	0,57	6,35	●	●	●	●	–	–	●	●	–	–	–	–





● prima scelta
○ scelta alternativa

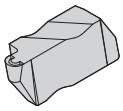
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

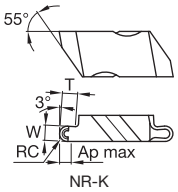
Scanalatura e tornitura • Scanalatura profonda • con rompitruciolo

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NGD2M150RK	2	1,50	0,03	1,09	0,19	4,06	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M200RK	2	2,00	0,03	1,09	0,19	5,08	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M250RK	2	2,50	0,03	1,09	0,19	5,08	●	●	–	–	–	–	–	●	–	–	–	–
NGD3062RK	3	1,58	0,03	1,02	0,19	3,18	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M200RK	3	2,00	0,03	1,02	0,19	4,06	●	●	–	–	–	–	●	●	–	–	–	–
NGD3094RK	3	2,39	0,03	1,02	0,19	6,35	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M250RK	3	2,50	0,03	1,02	0,19	6,35	–	●	–	–	–	–	●	●	–	–	–	–
NGD3M300RK	3	3,00	0,03	1,02	0,19	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD3125RK	3	3,18	0,03	1,02	0,19	6,35	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M400RK	3	4,00	0,03	2,92	0,32	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD3189RK	3	4,80	0,03	2,92	0,58	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD4125RK	4	3,18	0,03	1,02	0,19	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD4189RK	4	4,80	0,03	2,92	0,57	9,53	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M550RK	4	5,50	0,03	3,81	0,57	12,70	–	●	–	–	–	–	–	–	–	–	–	–
NGD4250RK	4	6,35	0,03	3,81	0,57	12,70	●	●	–	–	–	–	●	●	–	–	–	–
sinistro																		
NGD2M150LK	2	1,50	0,03	1,09	0,19	4,06	●	●	–	–	–	–	–	●	–	–	–	–
NGD2M200LK	2	2,00	0,03	1,09	0,19	5,08	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M250LK	2	2,50	0,03	1,09	0,19	5,08	●	●	–	–	–	–	●	●	–	–	–	–
NGD3062LK	3	1,57	0,03	1,02	0,19	3,18	●	●	–	–	–	–	●	●	–	–	–	–
NGD3M200LK	3	2,00	0,03	1,02	0,19	4,06	–	●	–	–	–	–	–	●	–	–	–	–
NGD3094LK	3	2,39	0,03	1,02	0,19	6,34	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M250LK	3	2,50	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NGD3M300LK	3	3,00	0,03	1,02	0,19	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD3125LK	3	3,18	0,03	1,02	0,19	6,35	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M350LK	3	3,50	0,03	2,92	0,32	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NGD3M400LK	3	4,00	0,03	2,92	0,32	6,35	●	●	–	–	–	–	–	●	–	–	–	–
NGD3189LK	3	4,80	0,03	2,92	0,57	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD4125LK	4	3,18	0,03	1,02	0,19	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M400LK	4	4,00	0,03	2,92	0,57	9,53	–	●	–	–	–	–	–	–	–	–	–	–
NGD4189LK	4	4,80	0,03	2,92	0,57	9,53	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M500LK	4	5,00	0,03	2,92	0,57	12,70	–	●	–	–	–	–	–	–	–	–	–	–
NGD4250LK	4	6,35	0,03	3,80	0,57	12,70	●	●	–	–	–	–	–	●	–	–	–	–

NOTA: Gli inserti hanno un tagliente. Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.
I seguenti inserti sono bilaterali: NGD3062RK, NGD4125RK, NGD3062LK e NGD4125LK.

- Inserti a raggio completo con controllo del truciolo.





● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

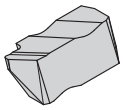
Scanalatura e tornitura • Raggio completo • con rompitruciolo

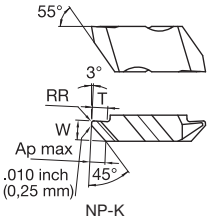
codice catalogo	dimensione inserto	W	Ap max	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																	
NR3031RK	3	1,57	1,97	0,79	2,39	●	●	–	–	–	–	●	●	–	–	–	–
NR3047RK	3	2,39	1,91	1,19	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR3062RK	3	3,18	2,92	1,59	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR3078RK	3	3,97	2,54	1,98	3,81	●	●	–	–	–	–	●	–	–	–	–	–
NR4062RK	4	3,18	2,92	1,59	3,81	●	●	–	–	–	–	●	–	–	–	–	–
NR4094RK	4	4,79	3,81	2,39	6,35	●	●	–	–	–	–	●	–	–	–	–	–
NR4125RK	4	6,35	3,81	3,18	6,35	●	●	–	–	–	–	●	●	–	–	–	–
sinistro																	
NR3031LK	3	1,58	1,98	0,79	2,39	●	●	–	–	–	–	●	●	–	–	–	–
NR3047LK	3	2,39	1,91	1,19	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR3062LK	3	3,18	2,92	1,59	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR3078LK	3	3,96	2,54	1,98	3,81	–	●	–	–	–	–	●	●	–	–	–	–
NR4062LK	4	3,18	2,92	1,59	3,81	●	●	–	–	–	–	●	–	–	–	–	–
NR4094LK	4	4,79	3,81	2,39	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NR4125LK	4	6,36	3,81	3,18	6,35	●	●	–	–	–	–	●	–	–	–	–	–

NOTA: Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

● prima scelta
○ scelta alternativa



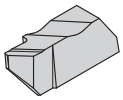


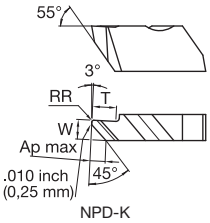
Scanalatura e profilatura • con rompitruciolo

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NP2002RK	2	3,82	0,03	—	0,25	2,81	●	●	–	–	–	–	●	●	–	–	–	–
NP2012RK	2	3,82	0,03	—	0,25	2,81	–	●	–	–	–	–	–	–	–	–	–	–
NP3002RK	3	4,95	0,03	—	0,25	5,08	●	●	–	–	–	–	●	–	–	–	–	–
NP3012RK	3	4,95	0,03	—	0,25	5,08	–	●	–	–	–	–	–	●	–	–	–	–

NOTA: Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.
Tolleranza su W ±0,13mm (±.005").

- Inserti positivi di profilatura profonda.





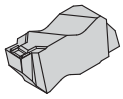
Scanalatura e profilatura • Scanalatura profonda • con rompitruciolo

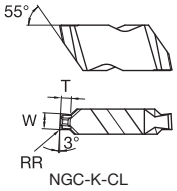
codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NPD2002RK	2	3,68	0,13	—	0,09	5,08	–	●	–	–	–	–	●	–	–	–	–	–
NPD3002RK	3	4,83	0,13	—	0,09	6,35	–	●	–	–	–	–	–	–	–	–	–	–
NPD3012RK	3	4,95	0,03	—	0,25	6,35	●	●	–	–	–	–	●	–	–	–	–	–

NOTA: Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.
Tolleranza su W ±0,13mm (±.005").

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

● prima scelta
○ scelta alternativa

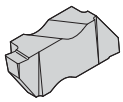


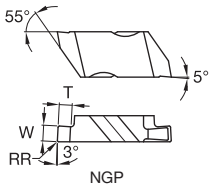


Scanalatura e smusso • con rompitruciolo

codice catalogo	dimensione sede	cerchio inscritto	W	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																	
NGC2C130R055K	2	1,30	1,39	0,08	0,6	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C215R150K	2	2,15	2,24	0,08	1,5	–	●	–	–	–	–	–	–	–	–	–	–
sinistro																	
NGC2C130L055K	2	1,30	1,39	0,08	0,6	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C185L125K	2	1,85	1,94	0,08	1,3	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C215L150K	2	2,15	2,24	0,08	1,5	–	●	–	–	–	–	–	–	–	–	–	–

NOTA: Inserti di scanalatura e di smusso per scanalature di anelli elastici di arresto conformi alla specifica DIN 471/472.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.



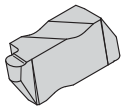


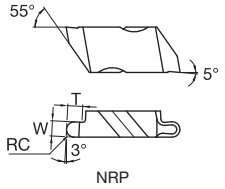
Scanalatura e tornitura • Positivo

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NGP2031R	2	0,79	0,03	—	0,09	1,27	●	–	–	–	–	–	●	–	–	–	–	–
NGP2062R	2	1,58	0,03	—	0,19	2,79	●	–	–	–	–	–	●	–	–	–	–	–
NGP2125R	2	3,18	0,03	—	0,19	2,79	●	–	–	–	–	–	–	–	–	–	–	–
NGP3088R	3	2,24	0,03	—	0,19	2,39	●	–	–	–	–	–	–	–	–	–	–	●
NGP3125R	3	3,18	0,03	—	0,19	3,81	●	–	–	–	–	–	●	–	–	–	–	●
NGP3156R	3	3,96	0,03	—	0,19	3,81	●	–	–	–	–	–	–	–	–	–	–	–
NGP4189R	4	4,80	0,03	—	0,57	6,35	●	–	–	–	–	–	–	–	–	–	–	–
NGP4250R	4	6,35	0,03	—	0,57	6,35	–	–	–	–	–	–	●	–	–	–	–	–
sinistro																		
NGP2031L	2	0,79	0,03	—	0,09	1,27	●	–	–	–	–	–	–	–	–	–	–	–
NGP2062L	2	1,57	0,03	—	0,19	2,79	●	–	–	–	–	–	–	–	–	–	–	–
NGP2125L	2	3,18	0,03	—	0,19	2,79	●	–	–	–	–	–	–	–	–	–	–	–
NGP3088L	3	2,24	0,03	—	0,19	2,39	●	–	–	–	–	–	–	–	–	–	–	–
NGP3125L	3	3,18	0,03	—	0,19	3,81	–	–	–	–	–	–	●	–	–	–	–	–
NGP4250L	4	6,35	0,03	—	0,57	6,35	●	–	–	–	–	–	–	–	–	–	–	–

NOTA: Tutte le qualità KD e KB sono inserti monotaglienti con riporto.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

- Inserti con spoglia positiva a raggio completo.





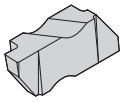
● prima scelta
○ scelta alternativa

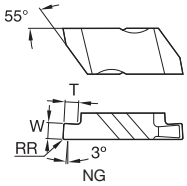
	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

Scanalatura e tornitura • Raggio completo • Positivo

codice catalogo	dimensione inserto	W	Ap max	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																	
NRP3031R	3	1,58	—	0,79	2,39	●	–	–	–	–	–	●	–	–	–	–	–
NRP3047R	3	2,39	—	1,19	3,81	●	–	–	–	–	●	●	–	–	–	–	–
NRP3062R	3	3,18	—	1,59	3,81	●	–	–	–	–	–	●	–	–	–	–	–
NRP3094R	3	4,78	—	2,39	3,81	●	–	–	–	–	–	●	–	–	–	–	–
sinistro																	
NRP3031L	3	1,58	—	0,79	2,39	●	–	–	–	–	–	●	–	–	–	–	–
NRP3047L	3	2,39	—	1,19	3,81	●	–	–	–	–	–	●	–	–	–	–	–
NRP3062L	3	3,18	—	1,59	3,81	–	–	–	–	–	–	●	–	–	–	–	–
NRP3094L	3	4,78	—	2,39	3,81	●	–	–	–	–	–	●	–	–	–	–	–

NOTA: Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.





● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

Scanalatura e tornitura • Spoglia superiore piana

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NG2031R	2	0,79	0,03	—	0,09	1,27	●	●	–	–	●	●	●	●	–	–	–	–
NG2041R	2	1,04	0,03	—	0,09	1,27	●	●	–	–	●	●	●	●	–	–	–	–
NG2047R	2	1,19	0,03	—	0,09	1,27	●	●	–	–	●	–	●	–	–	–	–	–
NG2058R	2	1,47	0,03	—	0,19	1,27	–	●	–	–	–	–	–	●	–	–	–	–
NG2062R	2	1,58	0,03	—	0,19	2,79	●	●	–	–	●	●	●	●	–	–	–	–
NG2094R	2	2,39	0,03	—	0,19	2,79	●	●	–	–	●	●	●	–	–	–	–	–
NG2125R	2	3,18	0,03	—	0,19	2,79	●	●	–	–	–	–	●	–	–	–	–	–
NG3047R	3	1,19	0,03	—	0,19	1,91	●	●	–	–	●	●	●	●	–	–	–	–
NG3062R	3	1,58	0,03	—	0,19	2,39	●	●	–	–	●	●	●	●	–	–	–	–
NG3072R	3	1,83	0,03	—	0,19	2,39	●	–	–	–	●	–	●	–	–	–	–	–
NG3078R	3	1,98	0,03	—	0,19	2,39	●	–	–	–	●	–	●	–	–	–	–	–
NG3088R	3	2,24	0,03	—	0,19	2,39	●	●	–	–	●	–	●	–	–	–	–	–
NG3094R	3	2,39	0,03	—	0,19	3,81	●	●	–	–	●	●	●	●	–	–	–	–
NG3097R	3	2,46	0,03	—	0,32	3,81	●	●	–	–	●	–	●	–	–	–	–	–
NG3105R	3	2,67	0,03	—	0,19	3,81	●	●	–	–	●	–	●	●	–	–	–	–
NG3110R	3	2,79	0,03	—	0,32	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NG3122R	3	3,10	0,03	—	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–
NG3125R	3	3,18	0,03	—	0,19	3,81	●	●	–	–	●	●	●	●	–	–	–	–
NG3142R	3	3,61	0,03	—	0,32	3,81	–	●	–	–	–	–	●	–	–	–	–	–
NG3156R	3	3,96	0,03	—	0,19	3,81	●	●	–	–	●	–	●	●	–	–	–	–
NG3178R	3	4,52	0,03	—	0,19	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NG3185R	3	4,70	0,03	—	0,57	3,81	–	●	–	–	–	–	–	–	–	–	–	–
NG3189R	3	4,80	0,03	—	0,57	3,81	●	●	–	–	●	●	●	●	–	–	–	–
NG4125R	4	3,18	0,03	—	0,19	3,81	●	●	–	–	●	●	–	–	–	–	–	–
NG4189R	4	4,80	0,03	—	0,57	6,35	●	●	–	–	●	●	●	–	–	–	–	–
NG4213R	4	5,41	0,03	—	0,19	6,35	–	●	–	–	–	–	–	–	–	–	–	–
NG4250R	4	6,35	0,03	—	0,57	6,35	●	●	–	–	●	–	●	●	–	–	–	–
NG5312R	5	7,93	0,03	—	0,83	9,52	–	●	–	–	–	–	–	–	–	–	–	–
NG6375R	6	9,53	0,03	—	0,83	6,35	–	●	–	–	–	–	–	–	–	–	–	–

(continua)

(Scanalatura e tornitura • Spoglia superiore piana – continua)

● prima scelta
○ scelta alternativa

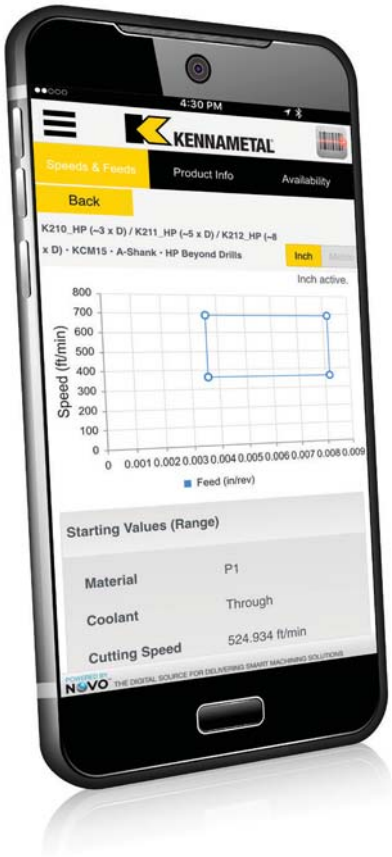
	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
sinistro																		
NG1031L	1	0,79	0,08	—	0,19	1,27	–	●	–	–	–	–	–	–	–	–	–	–
NG1047L	1	1,19	0,08	—	0,19	1,91	–	●	–	–	–	–	–	●	–	–	–	–
NG1062L	1	1,58	0,08	—	0,19	1,91	–	●	–	–	–	–	–	●	–	–	–	–
NG1094L	1	2,39	0,08	—	0,19	1,91	–	●	–	–	–	–	–	●	–	–	–	–
NG2031L	2	0,79	0,03	—	0,09	1,27	●	●	–	–	●	●	●	–	–	–	–	–
NG2041L	2	1,04	0,03	—	0,09	1,27	–	●	–	–	●	–	●	●	–	–	–	–
NG2047L	2	1,19	0,03	—	0,09	1,27	●	●	–	–	–	–	●	–	–	–	–	–
NG2058L	2	1,47	0,03	—	0,19	1,27	–	●	–	–	–	–	–	–	–	–	–	–
NG2062L	2	1,58	0,03	—	0,19	2,79	●	●	–	–	●	●	●	●	–	–	–	–
NG2094L	2	2,39	0,03	—	0,19	2,79	●	●	–	–	●	●	●	–	–	–	–	–
NG2125L	2	3,18	0,03	—	0,19	2,79	●	●	–	–	●	–	●	–	–	–	–	–
NG3047L	3	1,19	0,03	—	0,19	1,91	●	●	–	–	●	●	●	–	–	–	–	–
NG3062L	3	1,57	0,03	—	0,19	2,38	●	●	–	–	●	●	●	●	–	–	–	–
NG3072L	3	1,83	0,03	—	0,19	2,39	●	–	–	–	–	–	●	–	–	–	–	–
NG3078L	3	1,98	0,03	—	0,19	2,39	●	–	–	–	–	–	–	–	–	–	–	–
NG3088L	3	2,24	0,03	—	0,19	2,39	●	●	–	–	–	–	●	–	–	–	–	–
NG3094L	3	2,39	0,03	—	0,19	3,81	●	●	–	–	●	●	●	●	–	–	–	–
NG3097L	3	2,46	0,03	—	0,32	3,81	●	●	–	–	–	–	–	–	–	–	–	–
NG3105L	3	2,67	0,03	—	0,19	3,81	●	●	–	–	–	–	●	–	–	–	–	–
NG3110L	3	2,79	0,03	—	0,32	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NG3122L	3	3,10	0,03	—	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–
NG3125L	3	3,18	0,03	—	0,19	3,81	●	●	–	–	●	●	●	●	–	–	–	–
NG3142L	3	3,61	0,03	—	0,32	3,81	●	●	–	–	–	–	–	–	–	–	–	–
NG3156L	3	3,96	0,03	—	0,19	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NG3178L	3	4,52	—	—	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–
NG3185L	3	4,70	0,03	—	0,57	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NG3189L	3	4,80	0,03	—	0,57	3,81	●	●	–	–	●	–	●	●	–	–	–	–
NG4125L	4	3,18	0,03	—	0,19	3,81	●	●	–	–	–	●	–	–	–	–	–	–
NG4189L	4	4,80	0,03	—	0,57	6,35	●	●	–	–	●	–	●	–	–	–	–	–
NG4189LEST	4	4,80	0,03	—	0,57	6,35	–	–	–	–	–	–	–	–	–	●	–	–
NG4250L	4	6,35	0,03	—	0,57	6,35	●	●	–	–	●	–	●	●	–	–	–	–

NOTA: Tutte le qualità KD e KB sono inserti monotaglienti con riporto.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

App mobile

L'app mobile Kennametal rende facile l'accesso a informazioni sul prodotto, a calcolatori e molto altro da iPhone® e dispositivi Android™.



CARATTERISTICHE

Leggere il codice a barre di una confezione di utensili Kennametal o ricercare il numero di catalogo di un prodotto per accedere a tutte le informazioni sul prodotto.

Le informazioni sul prodotto comprendono l'immagine dell'utensile, dimensioni, qualità e novità sui prodotti.

Visualizzare la disponibilità dei prodotti in tutte le sedi nel mondo.

Ottenere le informazioni sulle velocità di rotazione e avanzamento con valori in pollici e metrici per tutti i prodotti per il taglio di metalli.

Visualizzare i suggerimenti tecnici per trovare risposte utili a domande frequenti sulle lavorazioni.

Contattare l'Assistenza clienti direttamente dall'app.

CALCOLATORI DI LAVORAZIONE

Guardare i dati per le applicazioni di fresatura e foratura.

Valori calcolati in pollici e metrici.

ORDINAZIONE

Accedere utilizzando le credenziali Konnect per completare un acquisto.

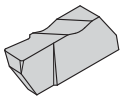
DOVE SI TROVA

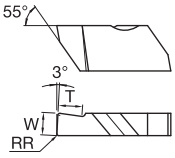
Scaricare subito l'app gratuita da iTunes® o da Google Play™ store.

ANDROID APP ON Google play

Available on the App Store

● prima scelta
○ scelta alternativa



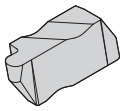


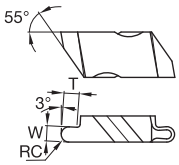
NGD

Scanalatura e tornitura • Scanalatura profonda • Spoglia superiore piana

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P							●	●	●	●	○		○	○	●			
M							●	●				○	●	○				
K							○	○	○	○	●	○	○	○	○	○		
N							●	○				○	●	○				●
S							●	●				●	○	○		○		
H							○						○			●	●	
destro																		
NGD3189R	3	4,80	0,03	—	0,57	6,35	●	–	–	–	–	●	–	–	–	–	–	–
NGD4250R	4	6,35	0,03	—	0,57	12,70	●	–	–	–	–	●	–	–	–	–	–	–
sinistro																		
NGD3189L	3	4,80	0,03	—	0,57	6,35	●	–	–	–	–	●	●	–	–	–	–	–
NGD4250L	4	6,35	0,03	—	0,57	12,70	●	–	–	–	–	●	●	–	–	–	–	–

NOTA: Gli inserti hanno un tagliente.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.





NR

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

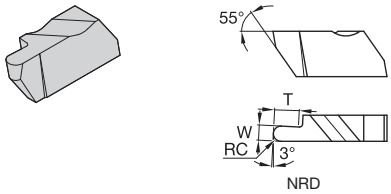
Scanalatura e tornitura • Raggio completo • Spoglia superiore piana

codice catalogo	dimensione inserto	W	Ap max	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																	
NR2M050R	2	1,00	—	0,50	1,27	●	●	–	–	–	–	●	●	–	–	–	–
NR2M075R	2	1,50	—	0,75	2,79	●	–	–	–	–	–	●	–	–	–	–	–
NR2031R	2	1,58	—	0,79	2,79	●	●	–	–	–	–	●	●	–	–	–	–
NR2M100R	2	2,00	—	1,00	2,79	●	–	–	–	–	–	●	●	–	–	–	–
NR2047R	2	2,39	—	1,19	2,79	–	●	–	–	–	–	–	–	–	–	–	–
NR2M125R	2	2,50	—	1,25	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR2M150R	2	3,00	—	1,50	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR2062R	2	3,18	—	1,59	2,79	●	●	–	–	–	–	●	–	–	–	–	–
NR2M175R	2	3,50	—	1,75	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR3031R	3	1,58	—	0,79	2,39	●	●	–	–	–	●	●	●	–	–	–	–
NR3M100R	3	2,00	—	1,00	2,39	–	–	–	–	–	–	–	●	–	–	–	–
NR3047R	3	2,39	—	1,19	3,81	●	●	–	–	–	●	●	–	–	–	–	–
NR3M150R	3	3,00	—	1,50	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NR3062R	3	3,18	—	1,59	3,81	●	●	–	–	–	●	●	●	–	–	–	–
NR3078R	3	3,96	—	1,98	3,81	–	–	–	–	–	●	–	–	–	–	–	–
NR3M200R	3	4,00	—	2,00	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NR3094R	3	4,78	—	2,39	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR4094R	4	4,78	—	2,39	6,35	–	–	–	–	–	●	–	–	–	–	–	–
NR4125R	4	6,35	—	3,18	6,35	●	●	–	–	–	–	●	–	–	–	–	–
sinistro																	
NR2M050L	2	1,00	—	0,50	1,27	●	●	–	–	–	–	●	–	–	–	–	–
NR2031L	2	1,58	—	0,79	2,79	●	●	–	–	–	–	●	●	–	–	–	–
NR2M100L	2	2,00	—	1,00	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR2047L	2	2,39	—	1,19	2,79	–	●	–	–	–	–	–	–	–	–	–	–
NR2M150L	2	3,00	—	1,50	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR2062L	2	3,18	—	1,59	2,79	●	●	–	–	–	–	●	–	–	–	–	–
NR3031L	3	1,58	—	0,79	2,39	●	●	–	–	–	●	●	●	–	–	–	–
NR3M100L	3	2,00	—	1,00	2,39	–	–	–	–	–	–	–	●	–	–	–	–
NR3047L	3	2,39	—	1,19	3,81	●	●	–	–	–	●	●	–	–	–	–	–
NR3M150L	3	3,00	—	1,50	3,81	●	–	–	–	–	–	●	●	–	–	–	–
NR3062L	3	3,18	—	1,59	3,81	●	●	–	–	–	●	●	●	–	–	–	–
NR3M200L	3	4,00	—	2,00	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NR3094L	3	4,78	—	2,39	3,81	–	●	–	–	–	●	●	●	–	–	–	–
NR4125L	4	6,35	—	3,18	6,35	–	●	–	–	–	–	●	–	–	–	–	–

NOTA: Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

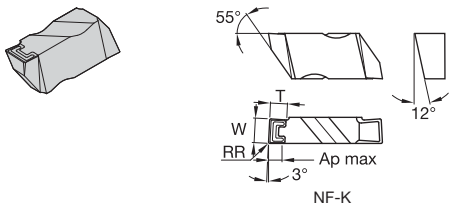
● prima scelta
○ scelta alternativa



Scanalatura e tornitura • Scanalatura profonda • Raggio completo • Spoglia superiore piana

codice catalogo	dimensione inserto	W	Ap max	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																	
NRD3031R	3	1,58	—	0,79	3,18	●	●	–	–	–	–	●	●	–	–	–	–
NRD3062R	3	3,17	—	1,59	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NRD4062R	4	3,18	—	1,59	6,35	●	●	–	–	–	–	●	–	–	–	–	–
NRD4094R	4	4,78	—	2,39	12,70	●	–	–	–	–	–	●	–	–	–	–	–
NRD4125R	4	6,35	—	3,18	12,70	–	●	–	–	–	–	●	–	–	–	–	–
sinistro																	
NRD3031L	3	1,58	—	0,79	3,18	●	●	–	–	–	–	●	●	–	–	–	–
NRD3062L	3	3,17	—	1,59	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NRD4062L	4	3,18	—	1,59	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NRD4094L	4	4,78	—	2,39	12,70	●	●	–	–	–	–	●	–	–	–	–	–
NRD4125L	4	6,35	—	3,18	12,70	●	●	–	–	–	–	●	●	–	–	–	–

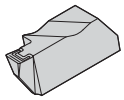
NOTA: Gli inserti hanno un tagliente.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

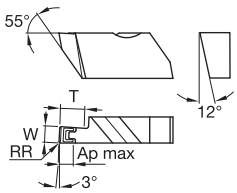


Scanalatura frontale • con rompitruciolo

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NF3M200RK	3	2,00	0,03	1,02	0,19	1,78	–	–	–	–	–	–	–	●	–	–	–	–
NF3M300RK	3	3,00	0,03	1,02	0,19	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NF3125RK	3	3,18	0,03	1,02	0,19	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NF3156RK	3	3,96	0,03	2,92	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–
sinistro																		
NF3M200LK	3	2,00	0,03	1,02	0,19	1,78	–	–	–	–	–	–	–	●	–	–	–	–
NF3M300LK	3	3,00	0,03	1,02	0,19	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NF3125LK	3	3,18	0,03	1,02	0,19	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NF3156LK	3	3,96	0,03	2,92	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–

NOTA: Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.





NFD-K

● prima scelta
○ scelta alternativa

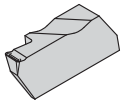
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

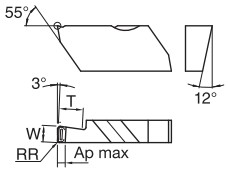
Scanalatura frontale • Scanalatura profonda • con rompitruciolo

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NFD3M300RK	3	3,00	0,03	1,02	0,19	6,35	–	–	–	–	–	–	–	●	–	–	–	–
NFD3125RK	3	3,18	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NFD4189RK	4	4,80	0,03	2,92	0,57	9,53	–	●	–	–	–	–	–	–	–	–	–	–
NFD4250RK	4	6,35	0,03	3,81	0,57	12,70	–	●	–	–	–	–	–	–	–	–	–	–
sinistro																		
NFD3M300LK	3	3,00	0,03	1,02	0,19	6,35	–	–	–	–	–	–	–	●	–	–	–	–
NFD3125LK	3	3,18	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NFD4189LK	4	4,80	0,03	2,92	0,57	9,53	–	●	–	–	–	–	–	●	–	–	–	–
NFD4250LK	4	6,35	0,03	3,81	0,57	12,70	–	●	–	–	–	–	–	–	–	–	–	–

NOTA: Gli inserti hanno un tagliente.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

- Inserti per scanalatura profonda e scanalatura frontale.





NFD-KI

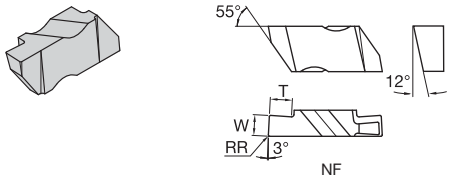
Scanalatura frontale • Scanalatura profonda interna • con rompitruciolo

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NFD3125RKI	3	3,18	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NFD3189RKI	3	4,80	0,03	2,92	0,57	6,35	–	●	–	–	–	–	–	–	–	–	–	–
sinistro																		
NFD3125LKI	3	3,18	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	–	–	–	–	–
NFD3189LKI	3	4,80	0,03	2,92	0,57	6,35	–	●	–	–	–	–	–	–	–	–	–	–

NOTA: Gli inserti hanno un tagliente.
Gli inserti NFD-KI sono compatibili solo con i bareni del tipo NS.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

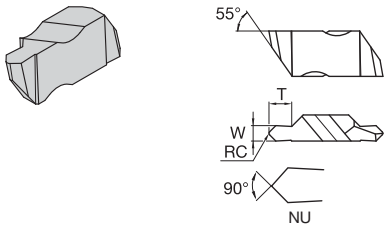
● prima scelta
○ scelta alternativa



Scanalatura frontale • Spoglia superiore piana

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NF3125R	3	3,18	0,03	—	0,19	3,81	–	–	–	–	–	●	–	–	–	–	–	–
NF3188R	3	4,78	0,03	—	0,57	3,81	–	●	–	–	–	–	–	–	–	–	–	–
sinistro																		
NF3125L	3	3,18	0,03	—	0,19	3,81	–	–	–	–	–	●	–	–	–	–	–	–
NF3188L	3	4,78	0,03	—	0,57	3,81	–	●	–	–	–	–	–	–	–	–	–	–

NOTA: Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.



Scanalatura e tornitura • Spoglia superiore piana • 90°

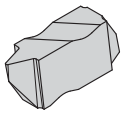
codice catalogo	dimensione inserto	W	Ap max	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																	
NU3094R	3	2,39	—	0,51	3,18	–	–	–	–	–	–	–	●	–	–	–	–
NU3125R	3	3,18	—	1,19	4,78	–	●	–	–	–	–	–	–	–	–	–	–
sinistro																	
NU3094L	3	2,39	—	0,51	3,18	–	●	–	–	–	–	–	●	–	–	–	–
NU3125L	3	3,18	—	1,19	4,78	–	–	–	–	–	–	–	●	–	–	–	–
NU3156L	3	3,96	—	1,19	4,78	–	–	–	–	–	–	–	●	–	–	–	–

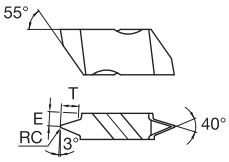
NOTA: Tolleranza su W ±0,13mm (±.005").
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.
Inserti NU compatibili con inserti NR.

- Inserti scanalatura poly vee.

● prima scelta
○ scelta alternativa

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	



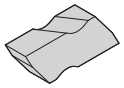


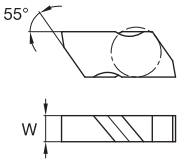
NV

Scanalatura e tornitura • Spoglia superiore piana • Poly vee

codice catalogo	dimensione inserto	E	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																
NV3RJ	3	3,18	0,32	2,21	–	●	–	–	–	–	–	–	–	–	–	–
NV4RL	4	3,00	0,32	5,11	–	●	–	–	–	–	–	–	–	–	–	–
sinistro																
NV4LL	4	3,00	0,32	5,11	–	●	–	–	–	–	–	–	–	–	–	–

NOTA: Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.





NB

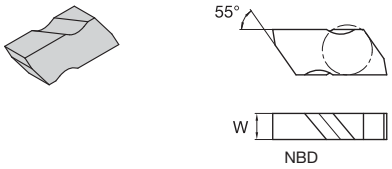
Scanalatura e tornitura • Semilavorato

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NB2R	2	3,84	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB3R	3	4,95	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB4R	4	6,48	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
sinistro																		
NB2L	2	3,84	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB3L	3	4,95	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB4L	4	6,48	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–

NOTA: I semilavorati NB e NBD sono progettati per consentire la modifica della dimensione W e della forma finale.
La dimensione W è indicata per fornire la larghezza possibile massima. Disponibile soltanto in qualità non rivestite.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P	●	●	●	●	○		○	○	●			
M	●	●				○	●	○				
K	○	○	○	○	●	○	○	○	○	○		
N	●	○				○	●	○				●
S	●	●				●	○	○		○		
H	○						○			●	●	

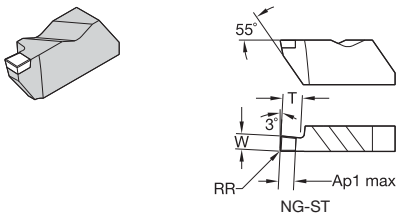
● prima scelta
○ scelta alternativa



Scanalatura e tornitura • Scanalatura profonda • Semilavorato

codice catalogo	dimensione inserto	W	W tol ±	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																		
NBD2R	2	3,81	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NBD3R	3	4,95	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
sinistro																		
NBD3L	3	4,95	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–

NOTA: I semilavorati NB e NBD sono progettati per consentire la modifica della dimensione W e della forma finale.
La dimensione W è indicata per fornire la larghezza possibile massima. Disponibile soltanto in qualità non rivestite.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.



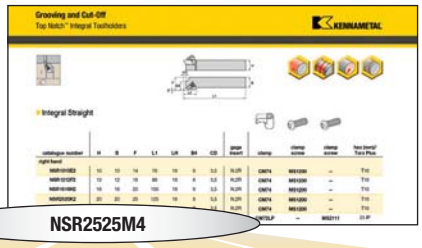
Scanalatura e tornitura • Spoglia superiore piana • PcBN

codice catalogo	dimensione inserto	W	Ap max	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
destro																	
NG3062REST	3	1,58	—	0,19	2,39	–	–	–	–	–	–	–	–	–	●	–	●
NG3M200RS02020ST	3	2,00	2,00	0,20	2,39	–	–	–	–	–	–	–	–	–	●	●	–
NG3094REST	3	2,39	—	0,19	3,81	–	–	–	–	–	–	–	–	–	●	–	●
NG3M300RS02020ST	3	3,00	3,00	0,20	3,81	–	–	–	–	–	–	–	–	–	●	●	–
NG3125REST	3	3,18	—	0,19	3,81	–	–	–	–	–	–	–	–	–	●	–	●
NG3125RS0820ST	3	3,18	3,00	0,25	3,81	–	–	–	–	–	–	–	–	–	●	●	–
NG3M400RS02020ST	3	4,00	3,00	0,20	3,81	–	–	–	–	–	–	–	–	–	–	●	–
NG3189REST	3	4,80	—	0,57	3,81	–	–	–	–	–	–	–	–	–	–	–	●
NG4189REST	4	4,80	—	0,57	6,35	–	–	–	–	–	–	–	–	–	●	–	–
sinistro																	
NG3062LEST	3	1,58	—	0,19	2,39	–	–	–	–	–	–	–	–	–	●	–	●
NG3M200LS02020ST	3	2,00	2,00	0,20	2,39	–	–	–	–	–	–	–	–	–	–	●	–
NG3094LEST	3	2,39	—	0,19	3,81	–	–	–	–	–	–	–	–	–	●	–	●
NG3125LEST	3	3,18	—	0,19	3,81	–	–	–	–	–	–	–	–	–	●	–	–
NG3125LS0820ST	3	3,18	3,00	0,25	3,81	–	–	–	–	–	–	–	–	–	●	–	–
NG4189LEST	4	4,80	—	0,57	6,35	–	–	–	–	–	–	–	–	–	●	–	–

NOTA: Tutte le qualità KB sono inserti monotaglienti con riporto.
Inserto destro mostrato in figura; l'immagine dell'inserto sinistro è speculare.

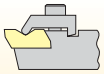
Come utilizzare i codici del catalogo

Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.

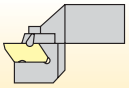


NSR2525M4

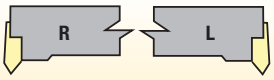
N	S	R		2525	M	4	
Sistema di fissaggio	Posizione di montaggio degli inserti	Lato dell'utensile	Testina di caduta	Dimensioni codolo	Lunghezza dell'utensile	Dimensione dell'inserto	Superficie e lunghezza qualificate



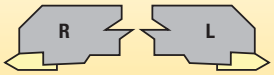
N = Top Notch



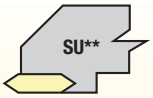
DH = Testina di caduta



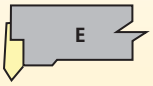
Montaggio radiale



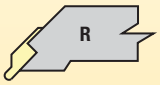
Montaggio laterale



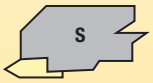
SU = Supporto a montaggio laterale



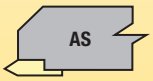
E = Estremità



R = Sottosquadro



S = Montaggio laterale offset

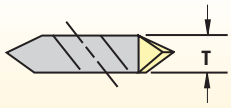


AS = Montaggio laterale senza offset

Sistema metrico:
Altezza e larghezza del codolo in millimetri e lunghezza portautensili secondo lo standard ISO.

L1	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	Y
Lung-hezza speciale	X

Q = Supporto in sistema metrico qualificato

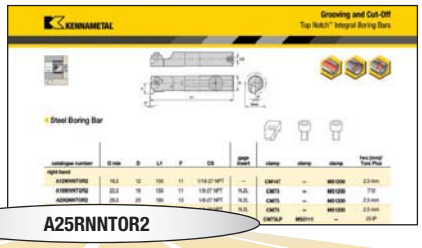


dimensione inserto	T mm
2	3,81
3	4,95
4	6,98
5	9,65
6	9,73
8	11,13

* Solo standard esclusivo Kennametal.
** Il supporto di servizio a montaggio laterale può utilizzare solo inserti NTU.

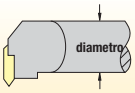
Come utilizzare i codici del catalogo

Ciascuna cifra e lettera del codice nel nostro catalogo indica una specifica caratteristica del relativo prodotto. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.

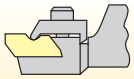


A25RNNTOR2

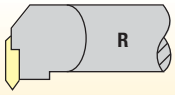
A	25	R	N	N	T	0	R	2
Tipo di barra	Diametro barra	Lunghezza barra	Sistema di fissaggio	Forma inserto	Posizione dell'inserto	Angolo di spoglia	Lato della barra	Dimensione dell'inserto



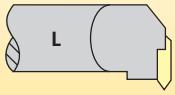
Diametro barra in millimetri



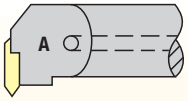
N* = Top Notch



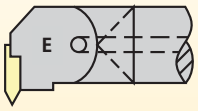
R = Destro



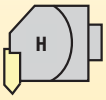
L = Sinistro



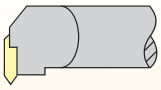
A = Acciaio con refrigerante



E = Metallo duro con refrigerante

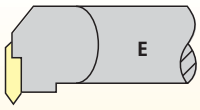


H = Testa intercambiabile

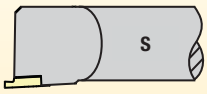


barre in versione metrica:

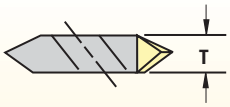
K	=	125mm
M	=	150mm
Q	=	180mm
R	=	200mm
S	=	250mm
T	=	300mm
U	=	350mm



Montaggio radiale

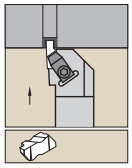


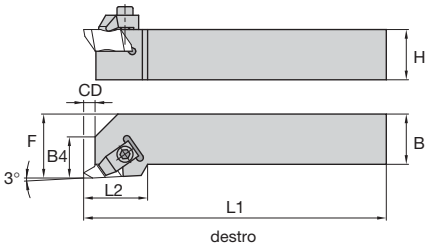
Montaggio assiale

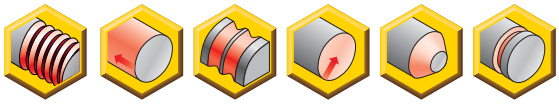


dimensione inserto	T mm
1	3,54
2	3,81
3	5,35
4	6,40
5	9,65
6	9,73
8	11,13

*Solo standard Kennametal.



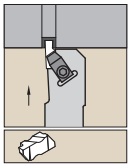


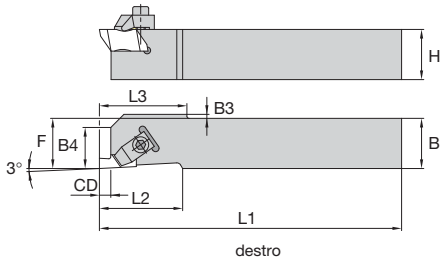


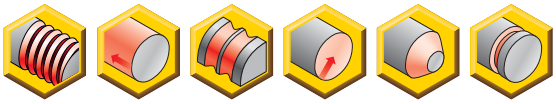
Integrale dritto

numero d'ordine	codice catalogo	H	B	F	L1	LH	B4	CD	inserto di riferimento	staffa	vite staffa	vite staffa	esagono (mm) / Torx Plus
destro													
1098790	**NSR1010E2**	10	10	14	70	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098791	**NSR1212F2**	12	12	16	80	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098792	**NSR1616H2**	16	16	20	100	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098793	**NSR2020K2**	20	20	25	125	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098794	**NSR2525M2**	25	25	32	150	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098795	**NSR2020K3**	20	20	25	125	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098796	**NSR2525M3**	25	25	32	150	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098797	**NSR3225P3**	32	25	32	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098798	**NSR3232P3**	32	32	40	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098799	**NSR2525M4**	25	25	32	150	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098800	**NSR3225P4**	32	25	32	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098801	**NSR3232P4**	32	32	40	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
sinistro													
1098861	**NSL1010E2**	10	10	14	70	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098862	**NSL1212F2**	12	12	16	80	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098863	**NSL1616H2**	16	16	20	100	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098864	**NSL2020K2**	20	20	25	125	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098865	**NSL2525M2**	25	25	32	150	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098866	**NSL2020K3**	20	20	25	125	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098867	**NSL2525M3**	25	25	32	150	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098868	**NSL3225P3**	32	25	32	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098869	**NSL3232P3**	32	32	40	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098870	**NSL2525M4**	25	25	32	150	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098871	**NSL3225P4**	32	25	32	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098872	**NSL3232P4**	32	32	40	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP

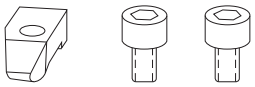
NOTA: Dimensione F misurata sul punto affilato dell'inserto per filettatura di tipo N.





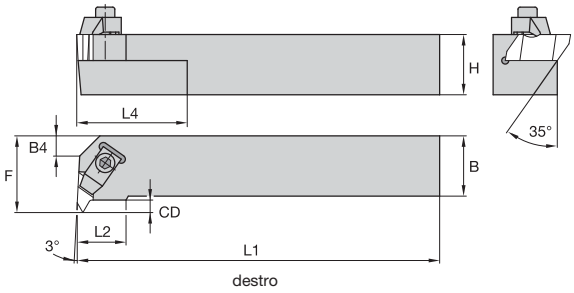


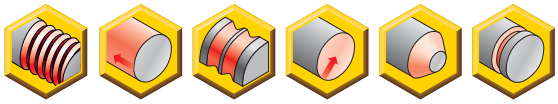
Integrale dritto • Nessun offset



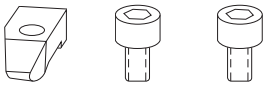
numero d'ordine	codice catalogo	H	B	F	L1	LH	B4	CD	B3	L3	inserto di riferimento	staffa	vite staffa	vite staffa	esagono (mm) / Torx Plus
destro															
1098788	**NASR1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2R	**CM182**	**MS1200**	**–**	T10
1098789	**NASR1212M2Q**	12	12	12	150	19	9	3,5	–	–	N.2R	**CM182**	**MS1200**	**–**	T10
1098786	**NASR1616K3Q**	16	16	16	125	32	13	5,3	–	–	N.3R	**CM184LP**	**–**	**MS2111**	25 IP
sinistro															
1098859	**NASL1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2L	**CM183**	**MS1200**	**–**	T10
1098860	**NASL1212M2Q**	12	12	12	150	19	9	6,9	–	–	N.2L	**CM183**	**MS1200**	**–**	T10
1098857	**NASL1616K3Q**	16	16	16	125	32	13	5,3	–	–	N.3L	**CM185LP**	**–**	**MS2111**	25 IP

NOTA: Dimensione F misurata sul punto affilato dell'inserto per filettatura di tipo N.



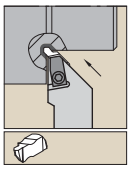


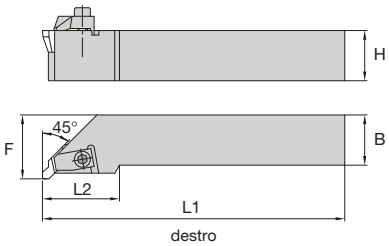
Montaggio radiale integrale

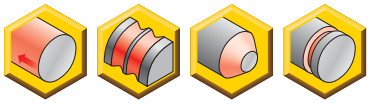


numero d'ordine	codice catalogo	H	B	F	L1	LH	CD	inserto di riferimento	staffa	vite staffa	vite staffa	Torx/ Torx Plus
destro												
1098803	**NER1616H2**	16	16	20	100	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098804	**NER2020K2**	20	20	25	125	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098805	**NER2525M2**	25	25	32	150	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098806	**NER2525M3**	25	25	32	150	22	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098807	**NER3225P3**	32	25	32	170	22	3,8	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098808	**NER2525M4**	25	25	35	150	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098809	**NER3225P4**	32	25	35	170	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098810	**NER3232P4**	32	32	40	170	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
sinistro												
1098874	**NEL1616H2**	16	16	20	100	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098875	**NEL2020K2**	20	20	25	125	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098876	**NEL2525M2**	25	25	32	150	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098877	**NEL2525M3**	25	25	32	150	22	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098878	**NEL3225P3**	32	25	32	170	22	3,8	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098879	**NEL2525M4**	25	25	35	150	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098880	**NEL3225P4**	32	25	35	170	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098881	**NEL3232P4**	32	32	40	170	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP

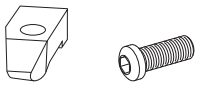
NOTA: Dimensione F misurata sul punto affilato dell'inserto per filettatura di tipo N.





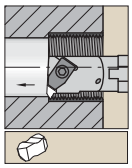


Sottosquadra a 45° integrale • Sistema metrico

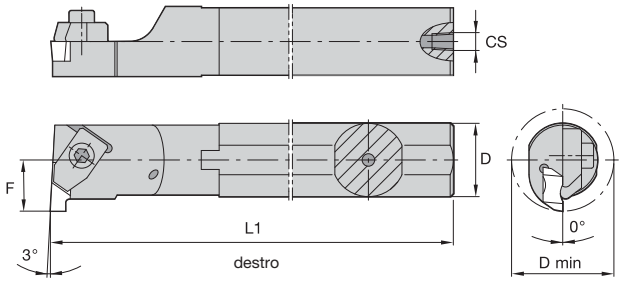


numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	staffa	vite staffa	esagono (mm) / Torx Plus
destro										
1098812	**NRR2020K3**	20	20	25	125	32	NU3125L	**CM73LP**	**MS2111**	25 IP
1098813	**NRR2525M3**	25	25	32	150	32	NU3125L	**CM73LP**	**MS2111**	25 IP
1098814	**NRR3225P3**	32	25	32	170	32	NU3125L	**CM73LP**	**MS2111**	25 IP
sinistro										
1098883	**NRL2020K3**	20	20	25	125	32	NU3125R	**CM72LP**	**MS2111**	25 IP
1098884	**NRL2525M3**	25	25	32	150	32	NU3125R	**CM72LP**	**MS2111**	25 IP
1098885	**NRL3225P3**	32	25	32	170	32	NU3125R	**CM72LP**	**MS2111**	25 IP

NOTA: I portautensili di tipo NR sono compatibili solo con gli inserti di tipo "NU".



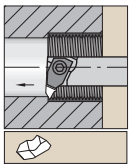
Codolo in acciaio con adduzione interna del refrigerante



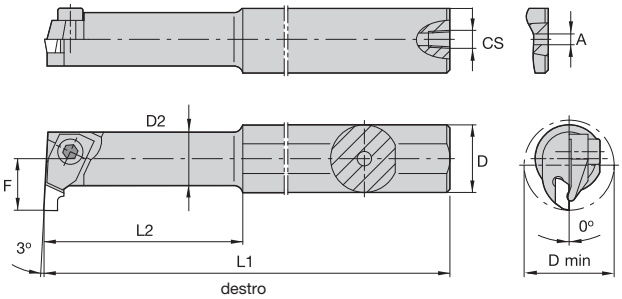
Bareno in acciaio

numero d'ordine	codice catalogo	D min	D	L1	F	CS	inserto di riferimento	staffa	vite staffa	vite staffa	esagono (mm) / Torx Plus
destro											
1098945	**A12MNNTOR2**	18,5	12	150	11	1/16-27 NPT	–	**CM147**	–	**MS1200**	2.5 mm
1098947	**A16MNNTOR2**	22,0	16	150	11	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	T10
1098949	**A20QNNTOR2**	26,0	20	180	13	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098951	**A25RNNTOR2**	34,0	25	200	17	1/4-18 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098953	**A25RNNTOR3**	34,0	25	200	17	1/8 - 27 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098955	**A32SNNTOR3**	44,0	32	250	22	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098957	**A40TNNTOR3**	54,0	40	300	27	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1099001	**A40TNNTOR4**	54,0	40	300	27	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
1099003	**A50UNNTOR4**	70,0	50	350	35	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
sinistro											
1098946	**A12MNNTOL2**	18,5	12	150	11	1/16-27 NPT	NG2R	**CM146**	–	**MS1200**	2.5 mm
1098948	**A16MNNTOL2**	22,0	16	150	11	1/8-27 NPT	N.2R	**CM74**	–	**MS1200**	T10
1098950	**A20QNNTOL2**	26,0	20	180	13	1/8-27 NPT	NG2R	**CM74**	–	**MS1200**	2.5 mm
1098952	**A25RNNTOL2**	34,0	25	200	17	1/4-18 NPT	N.2R	**CM74**	–	**MS1200**	2.5 mm
1098954	**A25RNNTOL3**	34,0	25	200	17	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098956	**A32SNNTOL3**	44,0	32	250	22	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098958	**A40TNNTOL3**	54,0	40	300	27	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1099002	**A40TNNTOL4**	54,0	40	300	27	1/4-18 NPT	N.4R	**CM72LP**	**MS2111**	–	25 IP

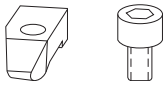
NOTA: Il diametro minimo del foro varia in relazione alla profondità della scanalatura. Vedere a pagina C172 per i dettagli.



Codolo in acciaio con riduzione con adduzione interna del refrigerante

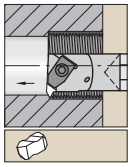


Bareno in acciaio • Diametro intero ridotto • metrico

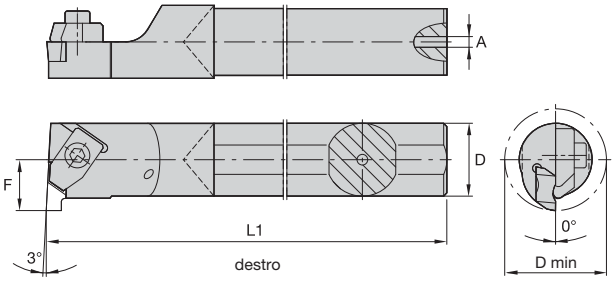


numero d'ordine	codice catalogo	D min	D	D2	L1	L2	F	A	CS	inserto di riferimento	staffa	vite staffa	hex (mm)
destro													
1098944	**A12MNNTOR1**	11,5	12	10,0	150	31,30	7	4,0	1/16-27 NPT	N.1L	**CM109**	**MS1034**	1.5 mm
1098943	**A10KNNTOR1**	11,5	10	10,0	125	—	7	3,2	—	NG1L	**CM109**	**MS1034**	1.5 mm

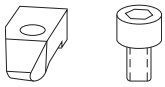
NOTA: Il diametro minimo del foro varia in relazione alla profondità della scanalatura. Vedere a pagina C172 per i dettagli.



Codolo in carburo con adduzione interna del refrigerante

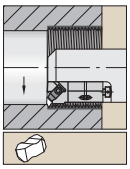


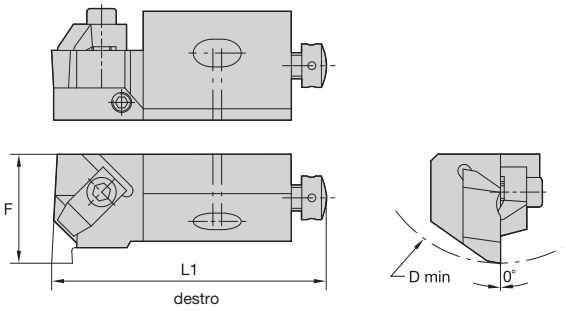
Bareno in metallo duro



numero d'ordine	codice catalogo	D min	D	L1	F	A	inserto di riferimento	staffa	vite staffa	Torx/ Torx Plus
destro										
1152834	**E16RNNTOR2**	22,0	16	200	11	5,537	N.2L	**CM75**	**MS1200**	T10
1152836	**E20SNNTOR2**	26,0	20	250	13	7,137	N.2L	**CM75**	**MS1200**	T10
sinistro										
1152835	**E16RNNTOL2**	22,0	16	200	11	5,537	N.2R	**CM74**	**MS1200**	T10

NOTA: Il diametro minimo del foro varia in relazione alla profondità della scanalatura. Vedere a pagina C172 per i dettagli.





Cartucce di barenatura in acciaio

numero d'ordine	codice catalogo	D min	F	L1	inserto di riferimento	staffa	vite staffa	hex (mm)	vite di regolazione radiale	hex (mm)	vite assiale	hex (mm)	rondella
destro													
1098380	**NER12CA2**	50	20	55,7	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
sinistro													
1098624	**NEL12CA2**	50	20	55,0	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
1098626	**NEL25CA3**	100	32	100,0	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	4 mm	**CSWM 100 080**

NOTA: Il diametro minimo del foro (D min) varia in base al tipo di filetto e passo. Vedere a pagina C172 per i dettagli.
Dimensione F misurata sul punto affilato di inserto per filettatura tipo Top Notch.

Linee guida di lavorazione per il controllo del truciolo • Scanalatura

- L'altezza centrale dell'inserto deve essere posizionata al centro del pezzo o fino a 0,13mm (.005") al di sopra di esso.
- Si sconsiglia di consentire un tempo di sosta sul fondo della scanalatura superiore a 3 giri.
- Il controllo dei trucioli è correlato alla velocità di avanzamento e deve essere regolato per adattarsi alla particolare situazione. Il campo di avanzamento consigliato è di 0,08 - 0,3 mm/giro (.003–.012 IPR).

Linee guida di lavorazione per il controllo del truciolo • Tornitura/Profilatura

La profondità di taglio massima per il taglio laterale (tornitura/profilatura) dipende dal materiale sottoposto al taglio e dalla larghezza dell'utensile.

- Un inserto largo 0,79–1,6mm (.031–.062") può tagliare fino a 0,6mm (.025") di profondità.
- Un inserto largo 1,7–3,3mm (.067–.128") può tagliare fino a 1mm (.040") di profondità.
- Un inserto largo 3,5–4,8mm (.138–.189") può tagliare fino a 2mm (.080") di profondità.
- Un inserto largo 5–6,35mm (.197–.250") può tagliare fino a 3mm (.120") di profondità.

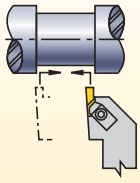
Limiti di scanalatura (confronto tra profondità di scanalatura interna massima e diametro minimo del foro)

numero di catalogo inserto	massima profondità di scanalatura interna mm	diametro minimo del foro mm
NG-1094L	1,91	20,32
—	1,02	11,18
NG-2031R/L	1,27	18,54
NG-2041R/L	—	—
NG-2047R/L	—	—
NG-2058R/L	—	—
—	2,79	63,50
NG-2062R/L	2,59	44,45
NG-2094R/L	2,49	38,10
NG-2125R/L	2,03	25,40
—	1,40	18,54
NG-3047R/L	—	—
NG-3062R/L	2,39	44,45
NG-3072R/L	2,29	41,28
NG-3078R/L	1,91	34,93
NG-3088R/L	—	—
NG-3094R/L	—	—
NG-3097R/L	3,81	60,33
NG-3105R/L	—	—
NG-3110R/L	3,68	53,98
NG-3122R/L	—	—
NG-3125R/L	3,51	47,63
NG-3142R/L	—	—
NG-3156R/L	3,18	41,28
NG-3178R/L	—	—
NG-3185R/L	2,79	34,93
NG-3189R/L	—	—
NG-4125R/L	3,81	69,85
—	6,35	146,05
NG-4189R/L	6,22	127,00
NG-4213R/L	6,10	114,30
NG-4219R/L	5,54	82,55
NG-4250R/L	5,08	63,50

NOTA: Gli stessi valori della profondità di scanalatura massima e del diametro del foro minimo si applicano anche agli inserti in versione metrica, NG-K (controllo del truciolo) e NR (raggio completo) di dimensioni simili.

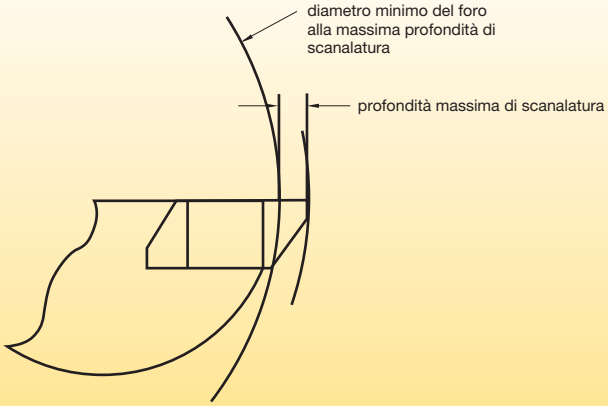
Tornitura di finitura della scanalatura

1. Lavorare a tuffo entrambi i lati della larghezza della scanalatura.
2. Lavorare a tuffo il diaframma centrale per rimuovere il materiale residuo.
3. Per evitare la scheggiatura dell'inserto e ottenere la perpendicolarità delle pareti della scanalatura, seguire il percorso dell'utensile delineato.
4. Utilizzare la profondità di taglio minore alla quale sono ancora possibili una buona formazione dei trucioli, la preservazione della durata dell'utensile e una buona finitura superficiale.



numero di catalogo inserto	massima profondità di scanalatura interna mm	diametro minimo del foro mm
—	9,53	731,82
NG-5250R/L	9,17	401,62
NG-5281R/L	8,74	274,62
NG-5312R/L	8,31	185,72
NG-5344R/L	7,47	122,22
NG-5375R/L	6,53	90,47
—	5,46	71,42
NG-6250R/L	6,35	146,05
NG-6281R/L	6,22	127,00
NG-6312R/L	6,10	114,30
NG-6344R/L	5,54	82,55
NG-6375R/L	5,08	63,50

Confronto tra profondità di scanalatura interna e interferenza della barra



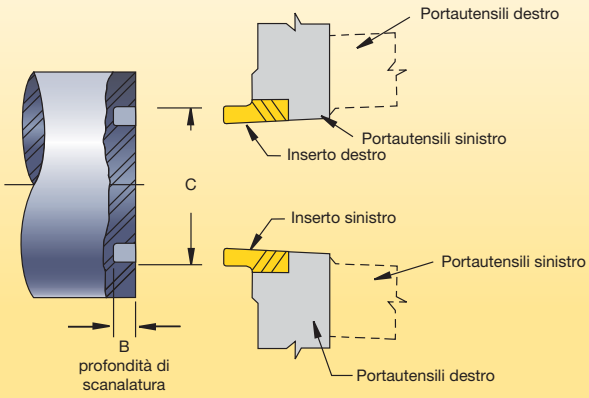
NOTA: I limiti della profondità di scanalatura interna dipendono dal rapporto tra lo spazio della barra e i diametri del foro.

Linee guida di lavorazione per operazioni di scanalatura frontale • Esterno

Inserti NF/NDF standard

famiglia di inserti	massima profondità di scanalatura "B" mm	diametro minimo per scanalatura "C" mm
NF-3	1,52	23,90
NF-3	2,39	30,50
NF-3	3,18	36,10
NF-3	3,81	41,30
NFD-3	6,35	47,60
NF-4/6	1,52	23,90
NF-4/6	2,39	30,50
NF-4/6	3,18	36,10
NF-4/6	3,81	41,30
NF-4/6	4,78	47,60
NF-4/6	6,35	57,20
NFD-4	9,53	57,20
NFD-4	12,70	57,20

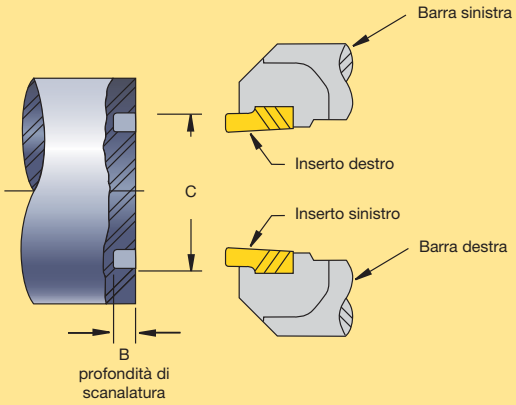
Portautensili



Inserti NG/NGD standard

famiglia di inserti	massima profondità di scanalatura "B" mm	diametro minimo di scanalatura "C" mm
NG-2	1,27	54,0
NG-2	2,79	88,9
NG-3	2,39	101,6
NG-3	3,18	127,0
NG-3	3,81	139,7
NGD-3	6,35	174,6
NG-4	3,81	152,4
NG-4	6,35	209,6
NGD-4	9,53	222,3
NGD-4	12,70	222,3
NG-5	9,53	333,0

Bareni

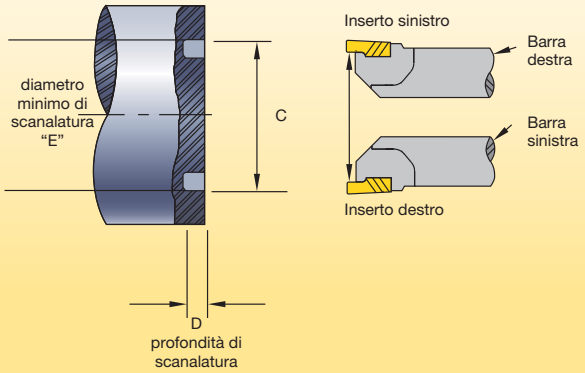


Linee guida di lavorazione per operazioni di scanalatura frontale • Interno

famiglia di inserti	massima profondità di scanalatura "D" mm	diametro minimo per scanalatura "E" mm
NFD-3-KI	6,35	57,2

NOTA: Per le applicazioni interne, utilizzare solo gli inserti NFD-KI.

Bareni



Linee guida alle applicazioni degli utensili

- Utilizzare sempre procedure di lavorazione generali ottimali.
- Rendere l'attrezzamento della macchina e del pezzo il più rigido possibile.
- I portautensili con codolo integrale offrono la migliore rigidità. Quando possibile, dovrebbero essere la prima scelta.
- Utilizzare il portautensili con la minore profondità di taglio possibile per l'applicazione (dimensione "CD").
- Quando si cambiano gli inserti, assicurarsi che il nuovo inserto si posizioni esattamente contro l'arresto meccanico del portautensili.
- Non serrare mai la vite di bloccaggio senza un inserto nella sede.
- La sporgenza del portautensili all'esterno del blocco deve essere la minore possibile.
- Gli inserti devono tagliare il più vicino possibile al centro.
- Il tempo di sosta sul fondo della scanalatura deve essere inferiore a tre rotazioni.
- Le velocità di taglio e di avanzamento consigliate sono un punto di partenza. Effettuare le regolazioni necessarie per una durata dell'utensile e un controllo del truciolo ottimali.

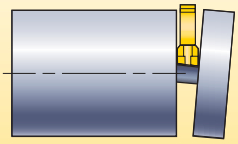
Definizioni e linee guida

1. Larghezza di taglio (W) = larghezza dell'inserto.
2. Angolo di registrazione = 0° (neutro); 6° (RH o LH).

Ridurre la bavatura delle superfici di troncatura:

- Usare inserti con angolo di registrazione (figure 1 e 2). L'angolo di registrazione su un inserto di troncatura riduce la bava che resta sul pezzo ma diminuisce la durata dell'utensile e aumenta la flessione laterale dell'utensile e in alcuni casi il tempo ciclo.
- Nel caso l'angolo di registrazione debba essere di 0°, utilizzare la lama e l'inserto per troncatura più stretti possibile. Questo riduce al minimo sia il fuso centrale sia la lunghezza della bava di troncatura.

L'assenza dell'angolo di registrazione lascia una sporgenza



L'angolo di registrazione riduce la dimensione della sporgenza

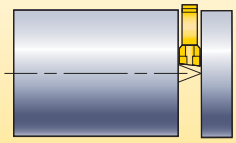
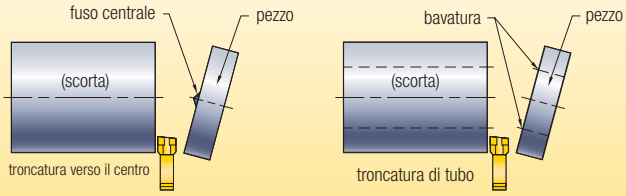


Figura 1

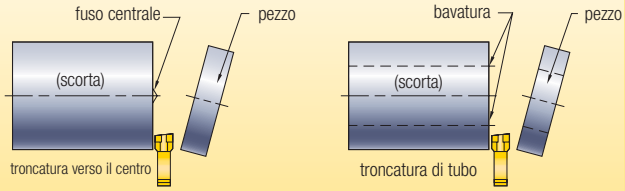
Selezione di inserti con angolo di registrazione sinistro



L'inserto di taglio sinistro lascia una bava o un fuso centrale sul pezzo e produce una superficie pulita sul sovrametallo.

Figura 2

Selezione di inserti con angolo di registrazione destro



Riduce la sporgenza ma diminuisce la durata dell'utensile e la produttività

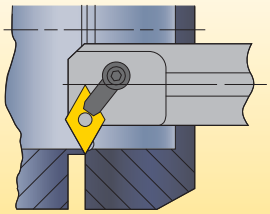
L'inserto di taglio destro lascia una bava o un fuso centrale sul sovrametallo e produce una superficie pulita sul pezzo.

- Controllare l'altezza totale e mantenersi all'altezza del centro del pezzo.
- L'altezza del tagliente deve rimanere entro ±0,1mm (0,004") rispetto al centro; la posizione di taglio consigliata è 0,05mm (0,002") sopra il centro.

Tubi

- Sui pezzi simili a tubi che richiedono uno smusso sul diametro interno, allineare l'utensile di smussatura interna alla superficie di troncatura. Questo consente all'operazione di smussatura di separare effettivamente la parte dalla barra (vedere la figura 3). Nota: se il pezzo cadesse sulla barra di smussatura, quest'ultima provvederebbe a raccoglierlo.

Figura 3

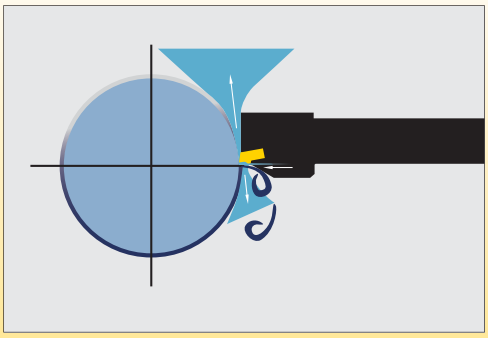


Allineamento di smusso interno

Per migliorare la finitura superficiale delle superfici di troncatura:

- Usare un inserto con angolo di registrazione 0°.
- Aumentare il flusso di refrigerante o migliorare la tecnica di lavorazione, come indicato nella figura 4.
- Diminuire la velocità di avanzamento in prossimità del punto di fine del taglio.
- Verificare che l'angolo dell'utensile di scanalatura sia corretto.
- Usare lame con la massima altezza frontale possibile e la minima larghezza di taglio possibile.
- Aumentare la velocità.

Figura 4

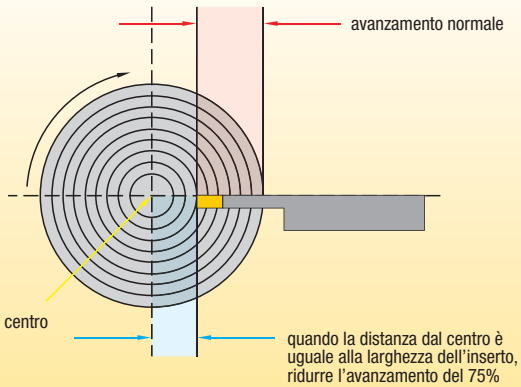


Metodo consigliato di applicazione del refrigerante

- Montare l'utensile per troncatura rovesciato. Questo consente, tramite la forza di gravità, di rimuovere i trucioli, evitando di tagliarli due volte. Un altro vantaggio del montare l'utensile rovesciato è impedire che i trucioli si incuneino tra l'inserto utensile e le pareti laterali della scanalatura, aderendo alle superfici laterali della parete.

Direttive di programmazione

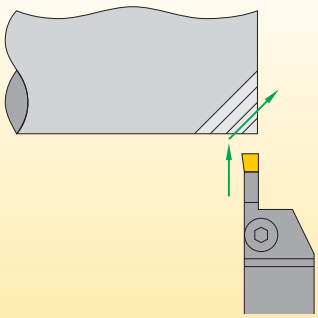
Riduzione dell'avanzamento in troncatura



Riduzione dell'avanzamento avvicinandosi al centro = maggiore durata dell'utensile

Smussatura

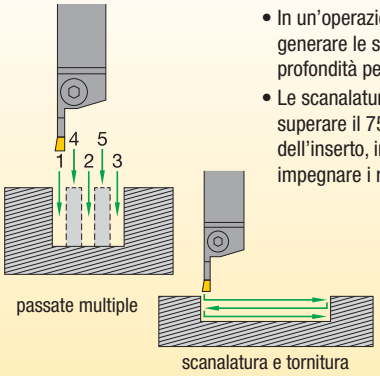
Smussare con un utensile di scanalatura riduce i tempi di indexaggio macchina e le soste dell'utensile.



(continua)

Direttive di programmazione *(continua)*

Scanalatura di tasche



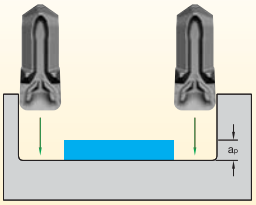
- In un'operazione a più passate, generare le scanalature 1, 2 e 3 a tutta profondità per la massima stabilità.
- Le scanalature 4 e 5 non devono superare il 75% della larghezza dell'inserto, in modo da non impegnare i raggi.

Se la tasca è più profonda che ampia = passate multiple

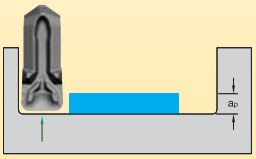
Se la tasca è più ampia che profonda = scanalatura e tornitura

Tasca quadrata

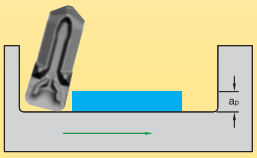
Passi 1 e 2
Lavorare a tuffo il raggio e il fianco su ciascun lato per realizzare due scanalature.



Passo 3
Ritrarre l'utensile di 0,1mm; questo è necessario per creare un fondo piatto.

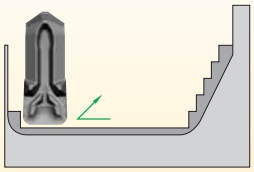


Passo 4
Tornitura laterale. Questo utensile è a deformazione programmata, in modo da generare lo scarico frontale necessario.

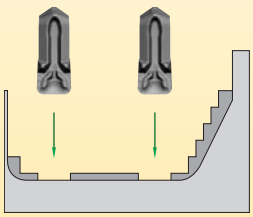


Profilatura tasche

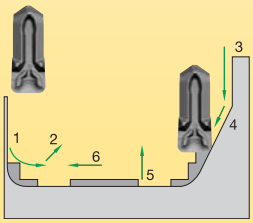
Passo 1
Sgrossare per ottenere circa la stessa quantità di materiale residuo su tutte le superfici per la finitura.



Passo 2
Realizzare due scanalature a distanza dal fianco e dal raggio.

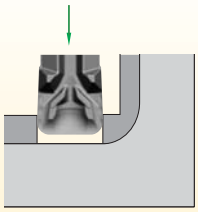


Passo 3
(1 e 2) Finire fianco e raggio. (3 e 4) Finire il fianco, l'angolo e il raggio sul lato opposto della tasca. (5) Ritrarre l'utensile di 0,1mm (0,004"). (6) Eseguire una tornitura laterale per finire il fondo della tasca.

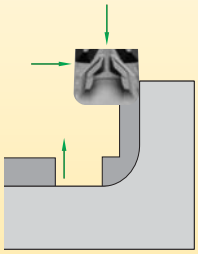


Determinazione del raggio

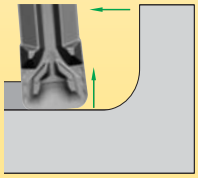
Passo 1
Realizzare una scanalatura a distanza dal raggio.



Passo 2
Ritrarre l'utensile, spostare il materiale sul fianco e generare il raggio. Quando si crea la scanalatura nel passo precedente, viene impegnata solo una superficie per volta, riducendo il rischio di vibrazioni.

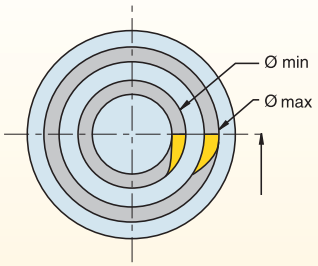


Passo 3
Ritrarre l'utensile di 0,1mm (0,004") e quindi eseguire la tornitura laterale.



Guida alle soluzioni delle anomalie utensili per scanalatura

Linee guida alle applicazioni di scanalatura frontale



Selezione utensili

- Quando si seleziona il portautensili, partire sempre dal massimo diametro possibile e procedere verso il diametro più piccolo. Questo consente di utilizzare l'utensile più robusto.

Taglio della prima scanalatura

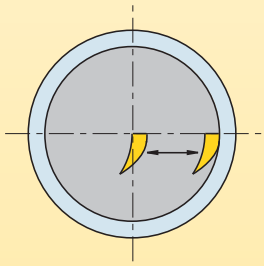
- Il diametro esterno della prima scanalatura deve essere compreso tra il diametro minimo e il diametro massimo dell'utensile per scanalatura frontale (vedere illustrazione sopra). Questo crea una spoglia per il portautensile.

Controllo del truciolo

- Regolare la velocità di taglio e l'avanzamento per un buon controllo e una buona evacuazione dei trucioli dalla scanalatura. La compattazione del truciolo può causare finiture superficiali di scarsa qualità, la rottura dell'utensile e una durata ridotta dell'utensile.

Impostazione dell'utensile

- L'utensile deve essere posizionato il più possibile vicino al centro, per evitare la formazione estrema di bave.
- Allineare la testa quadrata del tagliente al pezzo.



Allargamento di una scanalatura frontale

- Una volta effettuato il taglio iniziale, la larghezza della scanalatura può essere aumentata in entrambe le direzioni usando lo stesso utensile. Il metodo migliore è lavorare dall'esterno verso l'interno.

Soluzioni pratiche ai problemi di scanalatura

problema	rimedio
bavatura	1. Verificare l'altezza centrale dell'utensile. 2. Utilizzare utensili affilati (cambiarli più spesso). 3. Utilizzare inserti rivestiti in PVD con angolo di spoglia positivo. 4. Utilizzare la qualità giusta per il materiale da lavorare. 5. Utilizzare la geometria corretta (ad es. spoglia positiva per materiali duri da lavorare). 6. Cambiare il percorso dell'utensile.
scarsa finitura superficiale	1. Aumentare la velocità. 2. Utilizzare utensili affilati (cambiarli più spesso). 3. Tempo di sosta in fondo 1 - 3 giri (max). 4. Usare la geometria rompitruciolo appropriata. 5. Aumentare il flusso di refrigerante. 6. Verificare che l'attrezzamento sia corretto (sporgenza, dimensione codolo). 7. Utilizzare la geometria corretta (ad es. spoglia positiva per materiali duri da lavorare).
fondo della scanalatura non piatto	1. Utilizzare utensili affilati (cambiarli più spesso). 2. Tempo di sosta in fondo 1 - 3 giri (max). 3. Ridurre la sporgenza dell'utensile (incrementare la rigidità). 4. Ridurre la velocità di avanzamento sul fondo della scanalatura. 5. Utilizzare un inserto più largo. 6. Verificare l'altezza centrale dell'utensile.
scarso controllo del truciolo	1. Utilizzare utensili affilati (cambiarli più spesso). 2. Aumentare la concentrazione del refrigerante. 3. Regolare la velocità di avanzamento (solitamente, è necessario innanzitutto incrementarla).
vibrazioni	1. Ridurre la sporgenza dell'utensile e del pezzo. 2. Regolare la velocità (solitamente, prima si incrementa). 3. Regolare l'avanzamento (solitamente, prima si incrementa). 4. Verificare l'altezza centrale dell'utensile.
scheggiatura dell'inserto	1. Utilizzare la qualità giusta per il materiale da lavorare. 2. Aumentare la velocità. 3. Ridurre l'avanzamento. 4. Utilizzare una qualità più robusta. 5. Incrementare la rigidità dell'utensile e della configurazione.
tagliente di riporto	1. Utilizzare inserti rivestiti in PVD con angolo di spoglia positivo. 2. Aumentare la velocità. 3. Ridurre l'avanzamento. 4. Aumentare il flusso/la concentrazione del refrigerante. 5. Utilizzare cermet.
pareti laterali non dritte	1. Controllare la perpendicolarità dell'utensile. 2. Ridurre la sporgenza del pezzo e dell'utensile. 3. Utilizzare inserti affilati (cambiarli più spesso).

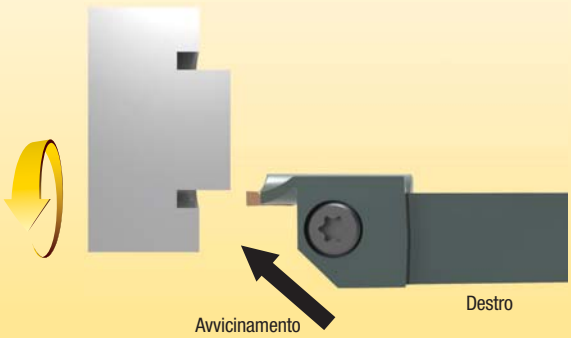
Passi per la selezione dell'utensile per scanalatura frontale più adatto

- Passo 1: Selezionare la rotazione mandrino
- Passo 2: Selezionare l'angolo di avvicinamento e l'orientamento del portautensili

Utensili integrali

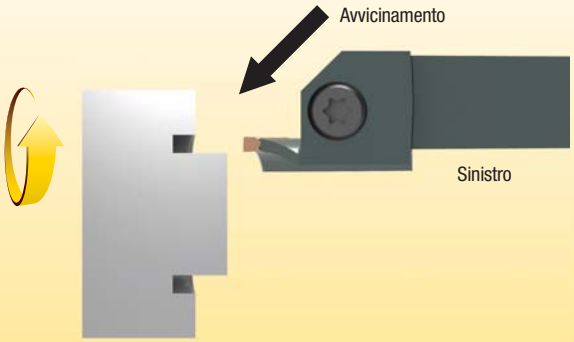
Rotazione in senso antiorario

Codolo quadro

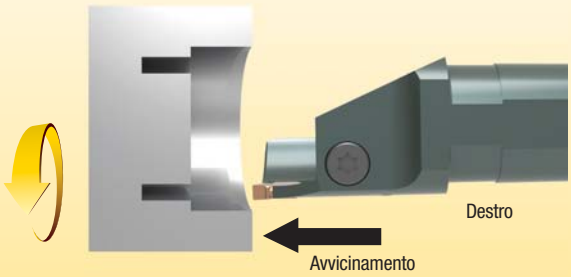


Rotazione in senso orario

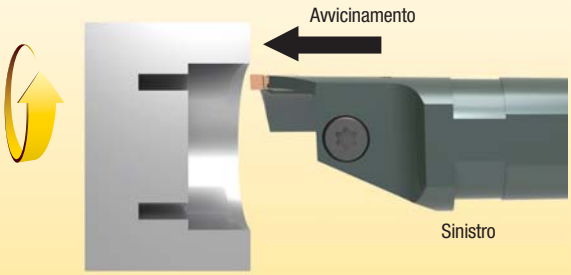
Codolo quadro



Bareno



Bareno



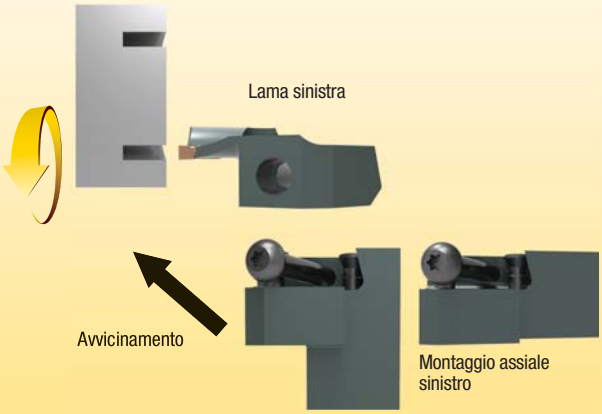
Passi per la selezione dell'utensile per scanalatura frontale modulare più adatto

- Passo 1: Selezionare la rotazione mandrino
- Passo 2: Selezionare l'angolo di avvicinamento e l'orientamento del portautensili
- Passo 3: Individuare la combinazione di lama e utensile con codolo

Utensili modulari

Rotazione in senso antiorario

A curvatura esterna a sinistra

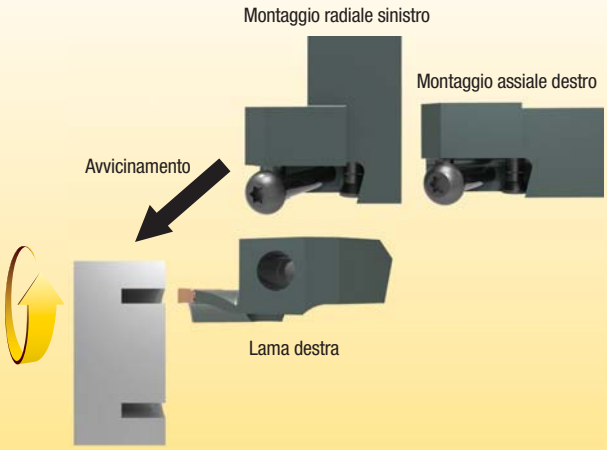


Rotazione in senso orario

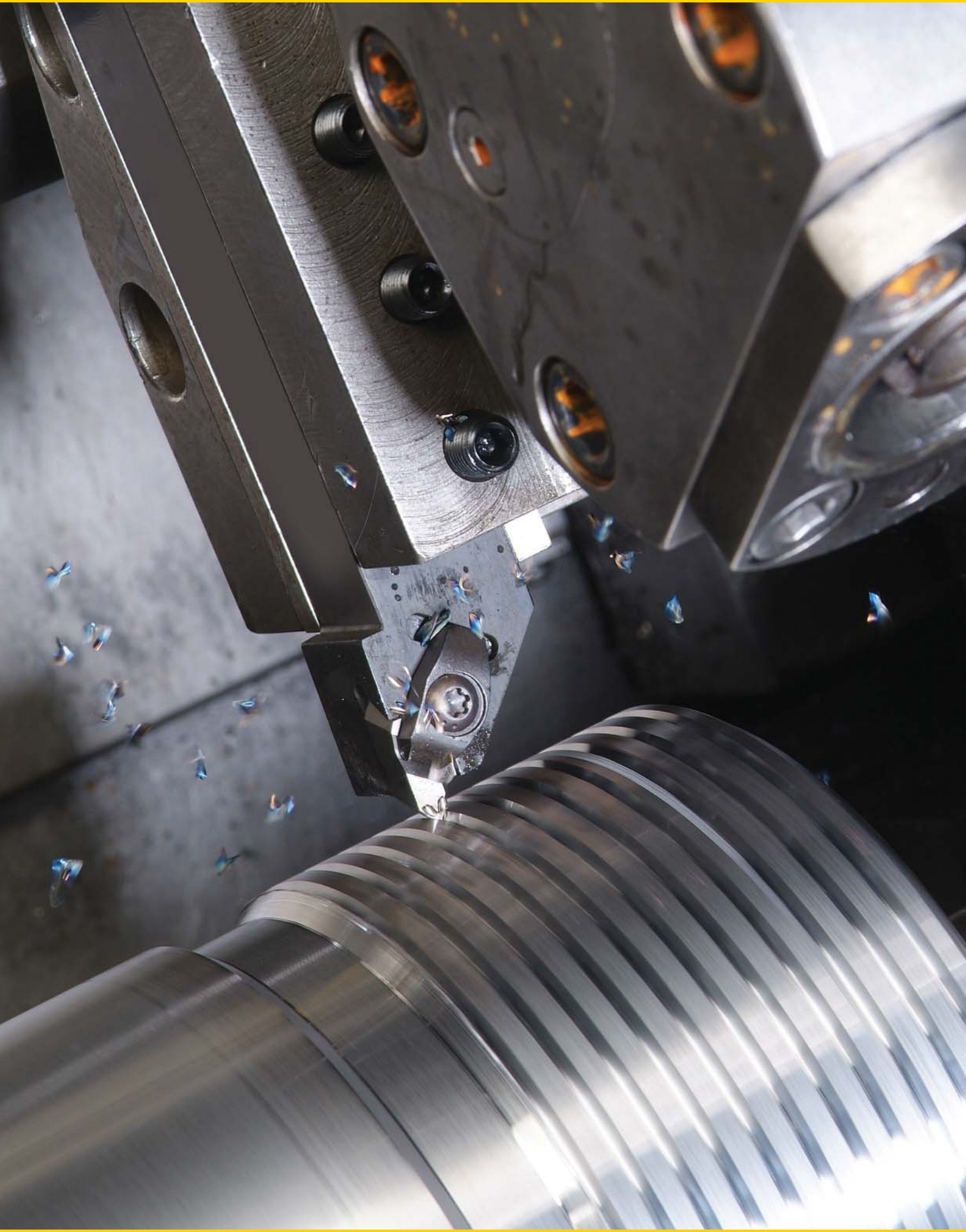
A curvatura interna a sinistra

Curvatura interna a destra

Curvatura esterna a destra



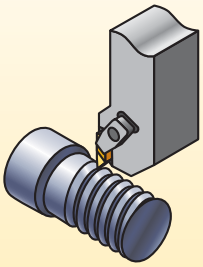
KENNAMETAL



Filettatura

Guida per le applicazioni di filettatura..... D2–D3
Filettatura Top Notch D4–D43
Filettatura Laydown..... D44–D87
Informazioni tecniche sulla filettatura..... D88–D110

Filettatura esterna Top Notch

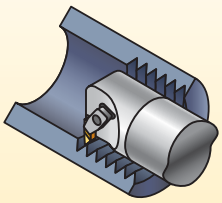


Dimensioni dei portautensili con codolo quadro:
- Sistema metrico — 10–32mm

Profilo con cresta (profilo intero):
UN TPI di passo 32–7
ISO 1,5–3,0mm

Profilo parziale 60° — Spoglia superiore piana (NTF e NTK):
UN 44–4.5 TPI
ISO 0,6–5,5mm di passo

Filettatura interna Top Notch

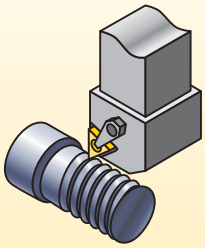


Diametri dei bareni:
- Sistema metrico — 10–50mm
- Foro minimo — 11,5mm
- Acciaio

Profilo con cresta (profilo intero):
UN 16–8 TPI
ISO 1,5–3,0mm di passo

Profilo parziale 60° — Spoglia superiore piana NT-1L, NTF, e NTK:
UN 24–4.5 TPI
ISO 1,0–5,5mm di passo

Filettatura esterna Laydown LT

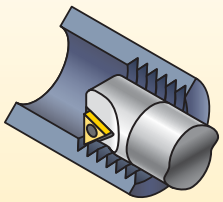


Dimensioni dei portautensili con codolo quadro:
- Sistema metrico — 8–40mm

Profilo con cresta (profilo intero):
UN 48–8 TPI
ISO 0,5–5,0mm di passo

60° profilo parziale:
UN 48–4 TPI
ISO 0,5–6,0mm di passo

Filettatura interna Laydown LT



Diametri dei bareni:
- Sistema metrico — 12–50mm
- Foro minimo — 13mm
- Acciaio e metallo duro

Profilo con cresta (profilo intero) e profilo parziale:
UN 48–8 TPI
ISO 0,5–5,0mm di passo

60° profilo parziale:
UN 48–4 TPI
ISO 0,5–6,0mm di passo

55° profilo parziale:
UN 48–5 TPI
ISO 0,5–5,0mm di passo

Utensili per filettatura Top Notch™

Una comprovata soluzione per filettature ad alta produttività

Il sistema di filettatura Top Notch con tecnologia di inserto Beyond™ fornisce prestazioni costanti e una qualità superiore per qualsiasi operazione. Il sistema di filettatura Top Notch è la migliore soluzione sul mercato e offre la più vasta gamma di qualità e geometrie.

Caratteristiche e vantaggi

Scelta del sistema di filettatura Top Notch

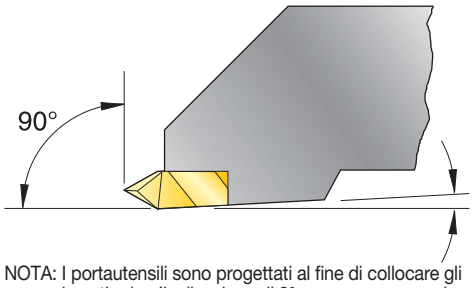
- Una scelta di qualità superiore per applicazioni pesanti, come ad esempio la lavorazione di filetti Acme, Buttress e API. Top Notch si rivela anche il sistema migliore per le applicazioni di filettatura a passo largo e a più denti.
- L'assortimento di geometrie e qualità di inserti più ampio del settore.
- Il design di bloccaggio rigido dell'inserto assicura la massima durata degli utensili, una finitura ottimale delle superfici e la miglior qualità dei pezzi prodotti.
- La semplicità del design Top Notch non richiede la scelta di spessori dipendenti dal tipo di filettatura. Pertanto, è più facile evitare di commettere errori in officina.
- Ridurre le necessità di giacenza grazie all'utilizzo degli stessi portautensili e bareni Top Notch con inserti per filettatura o scanalatura.
- Gli inserti con rompitruciolo Top Notch eliminano le matasse lunghe e problematiche.
- Scelta eccellente per forme di filetto e design di portautensili speciali.

Gli inserti Top Notch™ sono disponibili nelle qualità KCU10™ e KCU25™ per sostenere le prestazioni che la filettatura richiede ai taglienti degli inserti.

La versatilità dell'acciaio Top Notch consente di utilizzare inserti sia per scanalatura, sia per filettatura nello stesso portautensili.

Forma dei filetti rettificata di precisione

- Riduce il tagliente di riporto.
- Taglia con precisione i materiali più diffusi.
- Riduce al minimo le forze di taglio.
- Assicura filetti precisi di alta qualità.



NOTA: I portautensili sono progettati al fine di collocare gli inserti ad un'inclinazione di 3° per avere un angolo di spoglia inferiore posteriore lungo il lato aperto.

Controllo del truciolo superiore

- Elimina le matasse lunghe e problematiche.
- Eccellente per operazioni di filettatura interna.
- Disponibile con profilo parziale degli inserti per forme dei filetti a 60°.

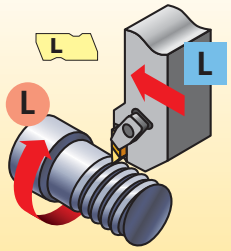
Passo 1 • Selezionare il metodo di filettatura e il lato dell'utensile

Informazioni necessarie:

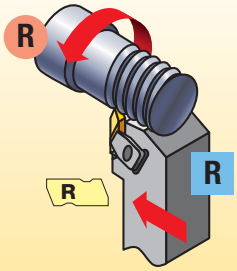
- Lavorazione esterna/interna.
- Rotazione del mandrino/del lato del filetto.
- Direzione di avanzamento.

lato del filetto — lato del portautensili — lato dell'inserto

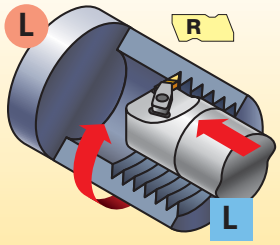
Direzione di avanzamento verso il mandrino • RACCOMANDATO



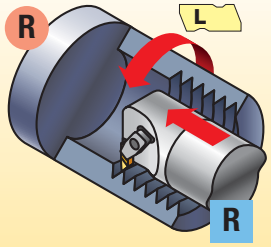
filetto sinistro esterno



filetto destro esterno

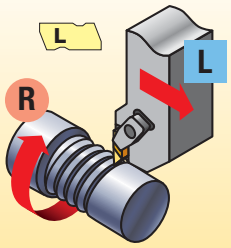


filetto sinistro interno

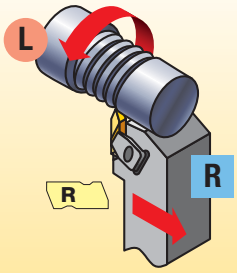


filetto destro interno

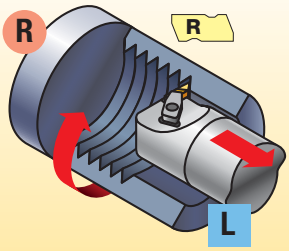
Direzione di avanzamento contraria al mandrino



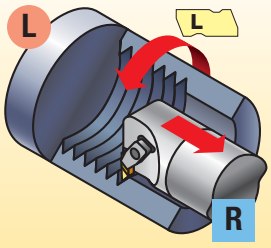
filetto destro esterno



filetto sinistro esterno



filetto destro interno



filetto sinistro interno

Passo 2 • Selezionare il supporto dalla pagina del catalogo

La dimensione dell'inserto deve coincidere con la dimensione dell'inserto di riferimento del portautensili selezionato:

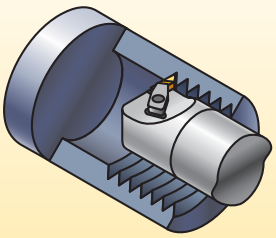
Informazioni necessarie:

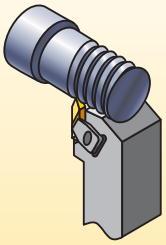
- Lavorazione esterna/interna.
- Diametro minimo del foro (per operazioni interne).
- Lato dell'utensile.
- Dimensione dell'inserto (inserto di riferimento).

codice catalogo	inserto campione
NSR-163D	N.3R
NSR-164D	N.4R

NOTA: I portautensili e le barre alesatrici Top Notch vengono elencati unitamente ad un inserto di riferimento che indica la dimensione e il lato richiesti. Sono compatibili sia con gli inserti di scanalatura che di filettatura della stessa dimensione.

Selezionare il supporto appropriato per la dimensione e il lato dell'inserto:





NOTA: Ottimizzare le operazioni di filettatura utilizzando il metodo di avanzamento in profondità adatto e i valori di avanzamento in profondità consigliati.

Vedere la sezione tecnica alle pagine D88–D110 di questo catalogo.
Per la filettatura interna, il foro minimo varia a seconda della filettatura.
Per visualizzare i dettagli, consultare la pagina D102.

Passo 3 • Scegliere l'inserto per l'applicazione

- Vedere la panoramica degli inserti per filettatura a pagina D11.
- Selezionare gli inserti a cresta per ottenere il controllo completo della forma del filetto, compreso il diametro. Gli inserti a cresta eliminano la necessità di effettuare la sbavatura.
- Gli inserti con profilo parziale senza cresta possono tagliare una vasta gamma di passi del filetto.
- Fare attenzione alla dimensione dell'inserto per la selezione del portautensili.

dimensione inserto	codice catalogo	KCU25/ KC5025	KCU10/ KC5010
2	**NT-2RK**	●	●
3	**NT-3RK**	●	●
4	**NT-4RK**	●	●

Passo 4 • Selezionare qualità e velocità

Consigli per selezionare qualità e velocità — m/min

materiale del pezzo	acciaio	acciaio inossidabile	ghisa	metalli non ferrosi	leghe resistenti al calore
tipo di inserto	controllo del truciolo o neutrale	controllo del truciolo o positivo	neutro	positivo	positivo
condizioni di taglio ottimali	**KCU10/KC5010** 70–260	**KCU10/KC5010** 90–245	**KCU10/KC5010** 60–245	**KC5410** 90–550	**KCU10/KC5010** 30–150
prima scelta	**KCU25/KC5025** 50–230	**KCU25/KC5025** 75–230	**KCU25/KC5025** 50–180	**KCU25/KC5025** 60–455	**KCU25/KC5025** 20–120

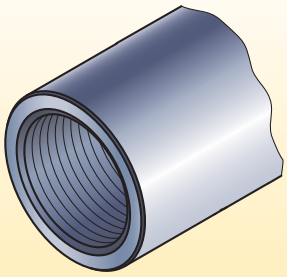
Esempi:

Controllo del truciolo: NT-K o NT-CK (solo a profilo parziale)
Neutrale: NT, NT-C, NTF, NTC, NJ, NJF, NDC-V, NA, NDC, NTB-A/B
Positivo: NTP, NTK, NJP, NJK

Esempio filettatura Top Notch:

applicazione: Filetto lato destro interno 8 TPI Acme
materiale: acciaio legato
diametro del pezzo: 114,3mm buone condizioni di taglio, avanzamento verso il mandrino

Consiglio:
inserto: NA3L8
qualità: KCU10
dimensione inserto: 3
bareno: A40NER3
inserto di riferimento: N.3L
velocità: 150 m/min
passate di avanzamento in profondità*: 12 passate



*Le raccomandazioni sull'avanzamento sono riportate nella sezione tecnica, alle pagine D97–D101.

Velocità iniziali consigliate [m/min]

Gruppo materiali		K68			KCU10/KC5010			KCU25/KC5025			KC5410		
P	0–1	–	**–**	–	135	**200**	260	105	**165**	230	–	**–**	–
	2	–	**–**	–	130	**190**	245	100	**150**	200	–	**–**	–
	3	–	**–**	–	105	**155**	200	75	**125**	170	–	**–**	–
	4	–	**–**	–	70	**120**	160	60	**95**	130	–	**–**	–
	5	–	**–**	–	105	**155**	200	75	**130**	170	–	**–**	–
	6	–	**–**	–	70	**120**	160	50	**90**	130	–	**–**	–
M	1	45	**75**	105	120	**180**	245	90	**170**	230	–	**–**	–
	2	35	**65**	100	90	**165**	210	75	**140**	200	–	**–**	–
	3	35	**65**	100	90	**165**	210	75	**135**	200	–	**–**	–
K	1	30	**75**	120	120	**180**	245	90	**135**	180	–	**–**	–
	2	25	**60**	100	90	**150**	210	70	**120**	170	–	**–**	–
	3	20	**55**	90	60	**105**	150	50	**85**	120	–	**–**	–
N	1–2	90	**245**	365	150	**365**	550	120	**305**	455	245	**425**	610
	3	45	**75**	105	90	**135**	180	60	**105**	150	90	**150**	210
	4	60	**120**	180	120	**305**	455	100	**200**	305	120	**305**	455
	5	45	**90**	150	90	**165**	245	70	**135**	195	120	**210**	305
	6	35	**75**	120	120	**210**	305	100	**170**	245	120	**245**	365
S	1	8	**25**	45	30	**70**	105	20	**40**	60	–	**–**	–
	2	8	**24**	40	30	**65**	100	20	**35**	45	–	**–**	–
	3	8	**24**	40	30	**65**	100	20	**35**	45	–	**–**	–
	4	9	**60**	105	55	**105**	150	45	**85**	120	–	**–**	–
H	1	–	**–**	–	30	**45**	60	–	**–**	–	–	**–**	–
	2	–	**–**	–	15	**30**	45	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
	4	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–

NOTA: Le velocità iniziali di PRIMA scelta sono in **grassetto**.

NOVO SA COME FARE: CAD/CAM

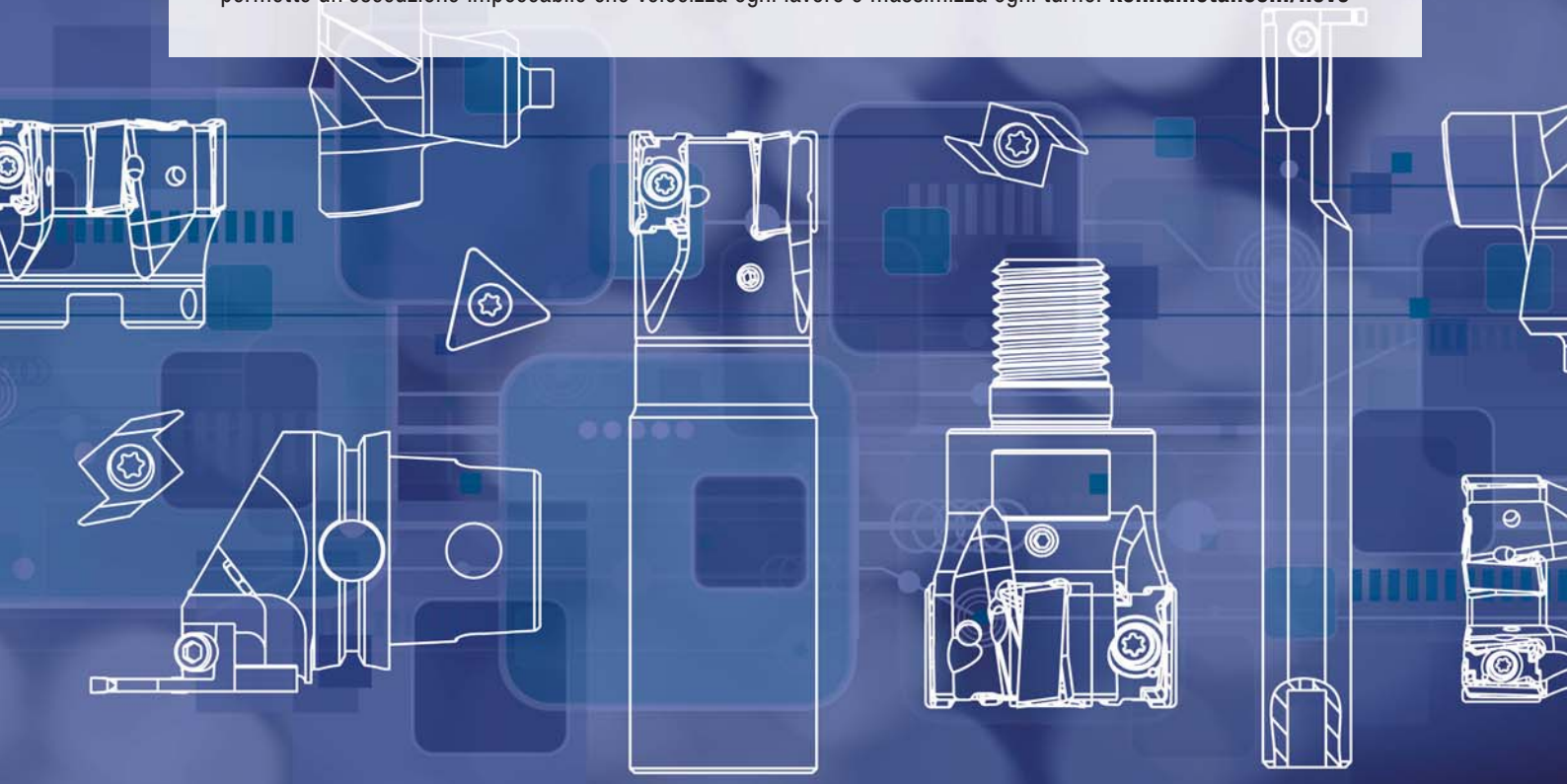
Aggiungendo l'applicazione NOVO™ alla squadra, le potenzialità del CAD/CAM diventano molto più precise, ottimizzate e produttive.

Prima di NOVO: Il programmatore utilizzava il software CAD/CAM per la progettazione dei componenti. Il procedimento veniva eseguito con il noioso metodo di ricerca degli utensili sul catalogo, quindi inserendo manualmente le informazioni degli utensili dal catalogo al software CAD/CAM.

Il principale problema era che le informazioni sugli utensili erano spesso ipotetiche e parziali.

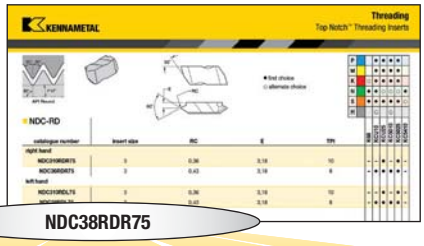
Con NOVO: L'efficace intelligenza digitale dell'applicazione NOVO aiuta il programmatore a trovare l'utensile adatto per ogni lavorazione di taglio di metalli e integra automaticamente i dati degli utensili in una soluzione CAD/CAM completa. L'integrazione di tutti i dati degli utensili aumenta l'efficacia di realizzazione dei componenti programmati, permettendo di velocizzare la consegna e risparmiare tempo.

L'applicazione NOVO garantisce di avere gli utensili giusti per ogni macchina, nella sequenza giusta. Questo permette un'esecuzione impeccabile che velocizza ogni lavoro e massimizza ogni turno. **kennametal.com/novo**



Come utilizzare i codici del catalogo

Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento e le figure ad esse corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



NDC38RDR75

N	D	C	3	8RD	R	75	
Tipo di inserto	Inserto	Informazioni aggiuntive	Dimensione dell'inserto	Identificazione filetto industriale	Lato dell'inserto	Definizione dell'inserto	Informazioni aggiuntive

N — Top Notch*

D

A — Acme

D — API o NPT

J — Filetto UNJ

T — Filetto a V 60°

W — Whitworth a V 55°

C

B — Buttress

F — Passo stretto

S — Stub Acme

C — Con cresta

P — Spoglia positiva

K — Passo stretto, positivo

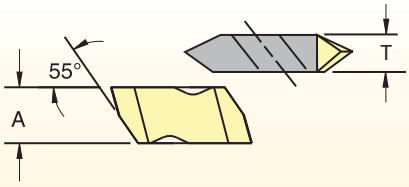
8RD

Indica la designazione industriale della forma per foratura o API (come, ad esempio, 10RD, 8RD, 0,038).
In alternativa, gli inserti per filettatura con raggio di fondo controllato indicano il raggio di fondo in incrementi da 0.001" (NJ, NJF, NJP, NJK) oppure M indica una filettatura ISO metrica.

R

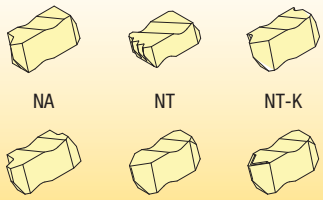
R — Destro

L — Sinistro



Dimensioni degli inserti Top Notch

Dimensione dell'inserto	A mm	T mm
1	2,54	2,54
2	5,56	3,81
3	8,74	4,95
4	11,51	6,48
5	17,48	9,65
6	11,51	9,73
8	7,93	11,13



75

- Numero di filetti per pollice o passo (nel sistema metrico)
- Inserto Buttress di tipo "A" o "B"
- Conicità per piede — Filetti API

I — Filetto interno

E — Filetto esterno (utilizzato solo se le forme di filetto interno ed esterno sono diverse)

M — A più denti

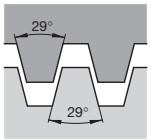
K — Rompitruciolo standard

C — Passo largo

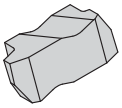
D — Tenuta a secco

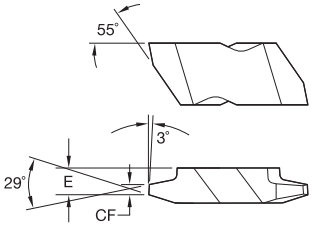
*Solo standard esclusivo Kennametal.

tipo			profilo del filetto	standard	classe di tolleranza	con cresta	applicazione	pagina/e
con rompitruciolo — K	neutro	positivo						
NT-K	NT	NTP	Profilo parziale a 60°	–	–	N	Uso generico per forme di filetto a 60° (come, ad esempio, ISO e UN), ove si desiderino inserti senza cresta per tagliare in un'ampia gamma di passi.	D19, D24
NT-CK			Profilo parziale a 60° — passo largo	–	–	N	Forme di filetto a 60° a passo largo (come,ad esempio, ISO e UN), ove si desiderino inserti senza cresta per tagliare un'ampia gamma di passi.	D21
	NTF	NTK	Profilo parziale a 60° — passo stretto	–	–	N	Forme di filetto a 60° a passo stretto (come,ad esempio, ISO e UN) ove si desiderino inserti senza cresta per tagliare un'ampia gamma di passi — in grado di filettare in prossimità degli spallamenti.	D23
	NTU		Profilo parziale a 60° — passo stretto	–	–	N	Inserto a quattro taglienti per filettatura di profilo parziale a 60° (richiede portautensili di tipo NS per inserto di formato 4U).	D24
	NTC-M		ISO in sistema metrico	ISO R262, DIN 13	6g/6H	S	Forma a V in sistema metrico a 60° largamente utilizzata per tutti i settori.	D21
	NTC		UN American	ANSI B1.1:74	2A/2B	S	Forma a V in pollici a 60° largamente utilizzata per tutti i settori.	D20
	NJ	NJP	UNJ	MIL-S-8879C	3A/3B	N	Raggio di fondo controllato su filetti esterni per i settori militare e aerospaziale.	D17–D18
	NJF	NJK	UNJ — passo stretto	MIL-S-8879C	3A/3B	N	Raggio di fondo controllato su filetti esterni per i settori militare e aerospaziale (in grado di filettare in prossimità degli spallamenti).	D17–D18
	NDC-V		NPT	ANSI/ACME B1.201: 1983	Standard NPT	S	Forme standard di filetti National Pipe Thread per raccordi di tubi.	D16
	NDC-V-M		NPT — a più denti	ANSI/ACME B1.201: 1983	Standard NPT	S	Inserti di filettatura a più denti ad alta produttività per filetti NPT.	D16
	NWC-E		Whitworth, BSW, BSP	BS 84:1956, ISO 228/1:1982, DIN 259	Medio classe A	S	Forma a 55° ampiamente utilizzata per raccordi per gas e acqua.	D25
	ND		Connessioni a spallamento con rotazione API — profilo parziale	API SPEC. 7:1990	Standard API	N	Forma a V a 60° utilizzata per raccordi a spallamento con rotazione nei settori industriali del petrolio e del gas. Sono comprese le forme V-.038R, V-.040 e V-.050	D14
	NDC		Connessioni a spallamento con rotazione API — con cresta	API SPEC. 7:1990	Standard API	S	Forma a V a 60° utilizzata per raccordi di tubi a spallamento con rotazione nei settori industriali del petrolio e del gas, comprendente le forme V-.038R, V-.040 e V-.050 (forma con cresta completa comprensiva di conicità)	D14
	NDC-RD		API tondo	API STD. 5B:1979	Standard API RD	S	forma a 60° con raggio grande per strutture esterne, tubazioni e condutture nei settori industriali del petrolio e del gas, incluse forme tonde da 8 e da 10.	D15
	NDC-RD-M		API tondo — a più denti	API STD. 5B:1979	Standard API RD	S	Inserti per filettatura multidenti ad alta produttività per filetti API tondi	D15
	NA		Acme	ANSI B1.5:1988	3G	N	Forma di filetto troncato a 29° per applicazioni mobili in un'ampia gamma di settori.	D12
	NAS		Stub Acme	ANSI B1.8:1988	2G	N	Forma di filetto troncato a 29° a bassa profondità per le applicazioni mobili in un'ampia gamma di settori.	D13
	NTB-A		American Buttress — margine di 7° fianco a spoglia di entrata (spinta)	ANSI B1.9:1973	Classe 2	N	Forma a denti di sega per applicazioni che sopportano un carico assiale in una vasta gamma di settori industriali (adottano il tipo "A" se il fianco a spoglia con margine di 7° è quello di entrata).	D19
	NTB-B		American Buttress — margine di 45° fianco a spoglia di entrata (trazione)	ANSI B1.9:1973	Classe 2	N	Forma a denti di sega per applicazioni che sopportano un carico assiale in una vasta gamma di settori industriali (adottano il tipo "B" se il fianco a spoglia con margine di 45° è quello di entrata).	D20



Acme



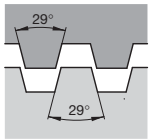


● prima scelta
○ scelta alternativa

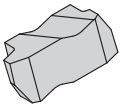
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

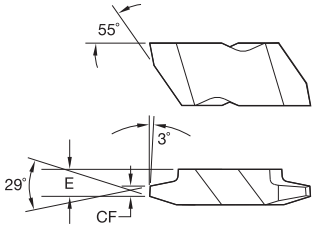
NA

codice catalogo	dimensione inserto	RC	E	CF	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro											
NA3R10	3	–	3,79	0,810	10	–	●	●	●	●	–
NA3R12	3	–	3,79	0,719	12	–	●	–	–	●	–
NA3R16	3	–	3,79	0,523	16	–	●	–	–	–	–
NA3R4	3	–	3,38	2,222	4	–	–	●	●	●	–
NA3R5	3	–	3,79	1,750	5	–	●	●	●	●	–
NA3R6	3	–	3,79	1,438	6	–	●	●	●	●	–
NA3R8	3	–	3,79	1,044	8	–	●	●	●	●	–
NA4R4	4	–	5,13	2,223	4	–	–	●	●	●	–
NA4R5	4	–	5,13	1,750	5	–	–	–	–	●	–
NA4R6	4	–	5,13	1,438	6	–	–	–	–	●	–
NA6R25	6	–	7,19	3,635	2.5	–	–	–	–	●	–
NA6R2	6	–	7,19	4,577	2	–	●	●	●	●	–
NA6R3	6	–	7,19	3,007	3	–	–	●	–	●	–
sinistro											
NA3L8	3	–	3,79	1,044	8	–	●	●	●	●	–
NA3L10	3	–	3,79	0,810	10	–	–	●	–	●	–
NA3L12	3	–	3,79	0,719	12	–	–	–	●	●	–
NA3L4	3	–	3,38	2,222	4	●	●	●	●	●	–
NA3L5	3	–	3,79	1,750	5	–	–	●	●	●	–
NA3L6	3	–	3,79	1,438	6	–	–	●	●	●	–
NA4L5	4	–	5,13	1,750	5	–	–	–	–	●	–
NA4L6	4	–	5,13	1,438	6	–	–	–	–	●	–
NA4L8	4	–	5,13	1,044	8	–	–	●	–	–	–
NA4L4	4	–	5,13	2,223	4	–	●	–	–	●	–
NA6L3	6	–	7,19	3,007	3	–	–	●	–	●	–
NA6L25	6	–	7,19	3,635	2.5	–	–	●	–	–	–
NA6L2	6	–	7,19	4,577	2	–	–	●	●	●	–
NA3L16	3	–	3,79	0,523	16	–	●	–	–	–	–



Stub Acme



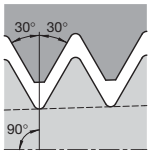


● prima scelta
○ scelta alternativa

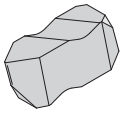
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

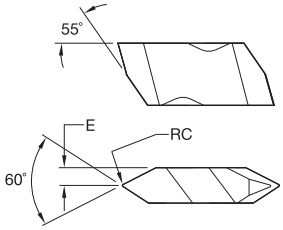
NAS

codice catalogo	dimensione inserto	RC	E	CF	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro											
NAS3R10	3	—	3,79	0,940	10	–	●	–	●	●	–
NAS3R12	3	—	3,79	0,828	12	–	–	●	–	●	–
NAS3R16	3	—	3,79	0,605	16	–	–	–	–	●	–
NAS3R4	3	—	3,79	2,550	4	–	–	●	–	●	–
NAS3R5	3	—	3,79	2,014	5	–	●	–	–	●	–
NAS3R6	3	—	3,79	1,656	6	–	●	–	●	●	–
NAS3R8	3	—	3,79	1,209	8	–	●	●	●	●	–
sinistro											
NAS3L10	3	—	3,79	0,940	10	–	●	–	–	●	–
NAS3L12	3	—	3,79	0,828	12	–	–	–	–	●	–
NAS3L4	3	—	3,79	2,550	4	–	–	●	–	●	–
NAS3L5	3	—	3,79	2,014	5	–	●	–	–	●	–
NAS3L6	3	—	3,79	1,656	6	–	●	●	●	●	–
NAS3L8	3	—	3,79	1,209	8	–	●	●	●	●	–



Raccordi per spallamento a rotazione API-esterno



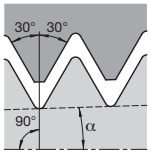


● prima scelta
○ scelta alternativa

P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

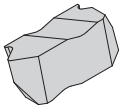
ND • Profilo parziale

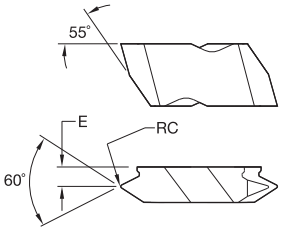
codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
ND3040R	3	0,45	2,08	5	–	–	–	–	●	–
ND3038R	3	0,90	2,08	4	–	–	–	–	●	–
ND4050R	4	0,57	3,25	4	–	–	●	–	–	–
sinistro										
ND3038L	3	0,90	2,08	4	–	–	–	–	●	–
ND3040L	3	0,45	2,08	5	–	–	●	–	–	–



α =1/2arctg (tpf/12)

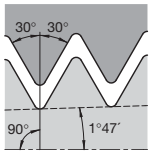
Raccordi per spallamento a rotazione API-esterno



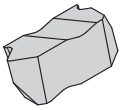


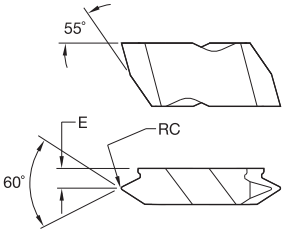
NDC • Profilo intero

codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
NDC3040R3	3	0,45	3,73	5	–	–	–	–	●	–
NDC4040R3	4	0,45	3,73	5	–	–	–	–	●	–
NDC4050R2	4	0,57	4,65	4	–	–	–	–	●	–
NDC4050R3	4	0,57	4,65	4	–	–	–	–	●	–
NDC4038R2	4	0,90	4,65	4	–	–	–	–	●	–
sinistro										
NDC3040L3	3	0,45	3,73	5	–	–	–	●	–	–
NDC4050L2	4	0,57	4,65	4	–	–	–	–	●	–
NDC4038L2	4	0,90	4,65	4	–	–	–	–	●	–



API tondo



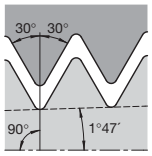


● prima scelta
○ scelta alternativa

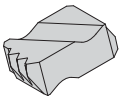
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

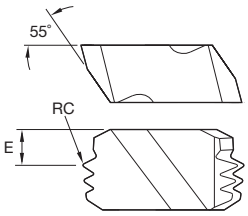
NDC-RD

codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
NDC310RDR75	3	0,36	3,18	10	–	–	–	–	●	–
NDC38RDR75	3	0,43	3,18	8	–	–	●	●	●	–
sinistro										
NDC310RDL75	3	0,36	3,18	10	–	–	–	–	●	–
NDC38RDL75	3	0,43	3,18	8	–	–	●	●	●	–



API tondo

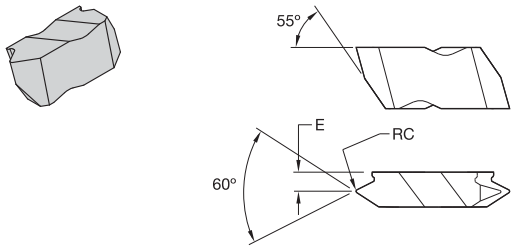




NDC-RD-M • A più denti

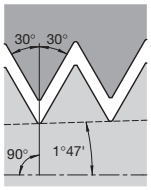
codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
NDC68RDR75M	6	0,41	2,62	8	–	●	–	–	–	–

● prima scelta
○ scelta alternativa

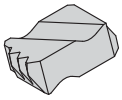


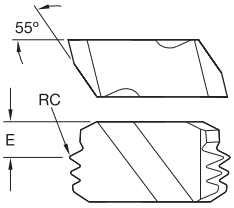
NDC-V

codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
NDC327VR75	3	0,05	3,66	27	–	●	–	–	–	–
NDC314VR75	3	0,08	3,66	14	–	●	–	–	–	–
NDC3115VR75	3	0,10	3,66	11.5	–	●	–	●	–	–
NDC38VR75	3	0,13	2,54	8	–	–	–	●	–	–
sinistro										
NDC3115VL75	3	0,10	3,66	11.5	–	●	–	●	–	–
NDC38VL75	3	0,13	2,54	8	–	–	–	●	–	–



NPT



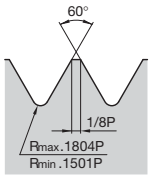


NDC-V-M • Multidenti

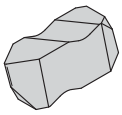
codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
NDC8115VR75M	8	0,10	2,59	11.5	–	●	–	–	–	–
NDC88VR75M	8	0,13	2,41	8	–	●	–	●	–	–
sinistro										
NDC88VL75M	8	0,13	2,41	8	–	–	–	●	–	–

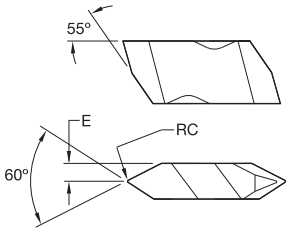
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

● prima scelta
○ scelta alternativa



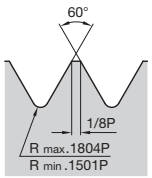
UNJ esterna



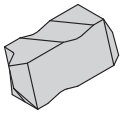


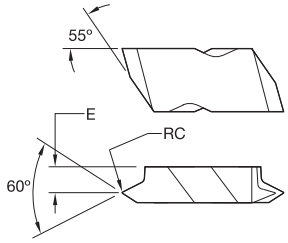
NJ

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NJ3010R16	3	0,25	2,49	–	–	16	–	●	–	●	–	●	–
NJ3014R12	3	0,33	2,49	–	–	12	–	–	●	●	●	●	–
NJ3020R8	3	0,49	2,49	–	–	8	–	–	–	–	●	●	–
sinistro													
NJ3010L16	3	0,25	2,49	–	–	16	–	–	–	–	–	●	–
NJ3014L12	3	0,33	2,49	–	–	12	–	–	–	–	●	●	–
NJ3020L8	3	0,49	2,49	–	–	8	–	–	–	–	–	●	–



UNJ esterna



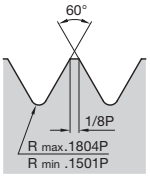


NJF

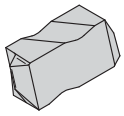
codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NJF3005R32	3	0,13	3,58	–	–	32	–	–	●	–	●	–	–
NJF3006R28	3	0,15	3,58	–	–	28	–	–	–	–	●	●	–
NJF3007R24	3	0,17	3,58	–	–	24	–	–	–	–	●	●	–
NJF3008R20	3	0,20	3,58	–	–	20	–	–	–	–	●	●	–
NJF3009R18	3	0,22	3,58	–	–	18	–	●	–	●	●	●	–
NJF3010R16	3	0,25	3,58	–	–	16	–	–	–	–	●	●	–
NJF3012R14	3	0,28	3,58	–	–	14	–	–	–	●	●	●	–
sinistro													
NJF3007L24	3	0,17	3,58	–	–	24	–	–	–	–	●	–	–
NJF3008L20	3	0,20	3,58	–	–	20	–	–	–	–	●	–	–
NJF3010L16	3	0,25	3,58	–	–	16	–	–	–	–	●	–	–

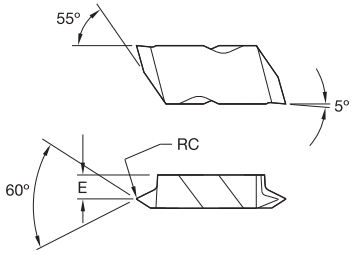
P			●	●	●	●
M			●	●	●	●
K		○	●	●	●	●
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

● prima scelta
○ scelta alternativa



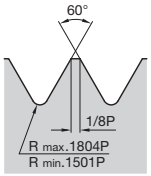
UNJ esterna



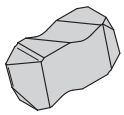


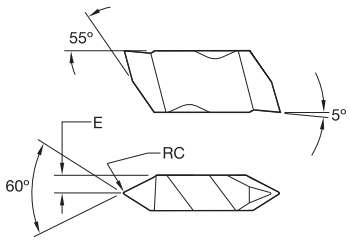
NJK

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NJK3005R32	3	0,13	3,58	–	–	32	–	–	–	–	●	●	–
NJK3006R28	3	0,15	3,58	–	–	28	–	–	–	●	●	–	–
NJK3007R24	3	0,17	3,58	–	–	24	–	–	–	●	●	●	–
NJK3008R20	3	0,20	3,58	–	–	20	–	–	●	●	●	●	–
NJK3009R18	3	0,22	3,58	–	–	18	–	–	–	–	●	●	–
NJK3010R16	3	0,25	3,58	–	–	16	–	–	–	●	●	●	–
NJK3012R14	3	0,28	3,58	–	–	14	–	–	–	–	●	●	–
sinistro													
NJK3005L32	3	0,13	3,58	–	–	32	–	–	–	–	–	●	–
NJK3006L28	3	0,15	3,58	–	–	28	–	–	–	–	–	●	–



UNJ esterna



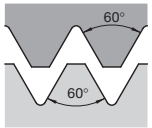


NJP

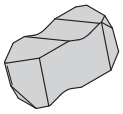
codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NJP3010R16	3	0,25	2,49	–	–	16	–	–	●	–	●	●	–
NJP3014R12	3	0,33	2,49	–	–	12	–	●	●	●	●	●	–
NJP3020R8	3	0,49	2,49	–	–	8	–	–	–	●	●	●	–
sinistro													
NJP3010L16	3	0,25	2,49	–	–	16	–	–	–	–	–	●	–
NJP3014L12	3	0,33	2,49	–	–	12	–	–	–	–	●	–	–
NJP3020L8	3	0,49	2,49	–	–	8	–	–	–	–	–	●	–

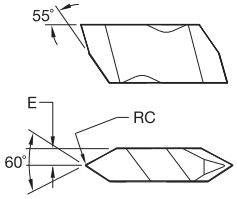
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

● prima scelta
○ scelta alternativa



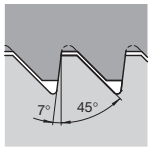
Profilo parziale a 60°



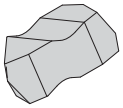


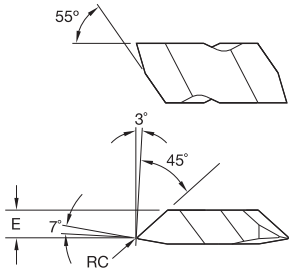
NT

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NT2R	2	0,10	1,90	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3R	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4R	4	0,17	3,25	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–
sinistro													
NT2L	2	0,10	1,90	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3L	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4L	4	0,17	3,25	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–



American Buttress a spinta



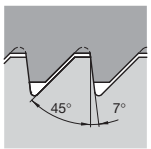


NTB-A

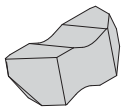
codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
NTB2RA	2	0,08	3,20	16-20	●	–	–	–	–	–
NTB3RA	3	0,17	4,17	8-16	–	●	–	–	●	–
NTB4RA	4	0,25	5,23	4-6	–	●	–	–	–	–
sinistro										
NTB3LA	3	0,17	4,17	8-16	●	–	–	●	●	–

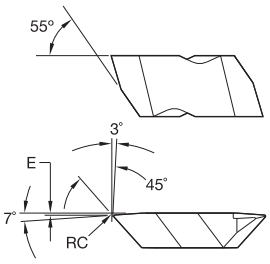
	K68	KCU10	KCU25	KC5010	KC5025	KC5410
P		●	●	●	●	
M		●	●	●	●	
K	○	●	●	●	●	
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H		○		○		

● prima scelta
○ scelta alternativa



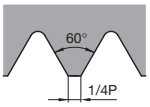
American Buttress
a trazione



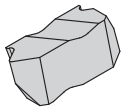


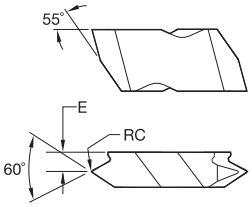
NTB-B

codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
NTB2RB	2	0,08	0,25	16-20	–	–	–	●	–	–
NTB3R12B	3	0,16	2,49	12	–	–	–	●	–	–
NTB3RB	3	0,17	0,31	8-16	●	●	●	●	●	–
NTB4RB	4	0,25	0,41	4-6	–	●	–	●	●	–
sinistro										
NTB2LB	2	0,08	0,25	16-20	–	●	–	●	–	–
NTB3L12B	3	0,16	2,49	12	–	–	–	●	–	–
NTB3LB	3	0,17	0,31	8-16	●	●	–	●	●	–
NTB4LB	4	0,25	0,41	4-6	–	–	–	●	●	–



UN American
interna



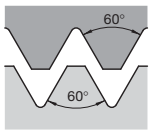


NTC-I

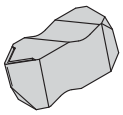
codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NTC3R12I	3	0,10	3,76	—	—	—	12	–	–	–	–	●	–
sinistro													
NTC3L12I	3	0,10	3,76	—	—	—	12	–	–	–	–	●	–
NTC3L14I	3	0,09	3,76	—	—	—	14	–	–	–	–	●	–
NTC3L16I	3	0,08	3,76	—	—	—	16	–	–	–	–	●	–
NTC3L8I	3	0,18	2,72	—	—	—	8	–	–	–	–	●	–
NTC3L10I	3	0,13	2,72	—	—	—	10	–	–	–	–	●	–

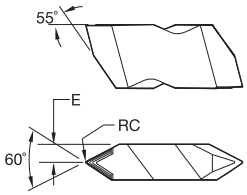
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

● prima scelta
○ scelta alternativa



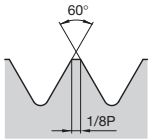
Profilo parziale a 60°



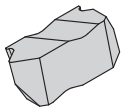


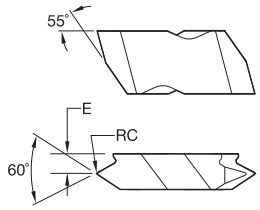
NT-CK

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NT3RCK	3	0,34	2,46	2,5-4,0	4,0	6-11	6	–	●	●	●	●	–
NT4RCK	4	0,34	3,23	2,5-5,5	4,0-5,5	4,5-11	4.5-6	–	–	●	●	●	–
sinistro													
NT3LCK	3	0,34	2,46	2,5-4,0	4,0	6-11	6	–	●	●	●	●	–
NT4LCK	4	0,34	3,23	2,5-5,5	4,0-5,5	4,5-11	4.5-6	–	–	●	–	●	–



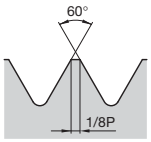
Metrica ISO esterna



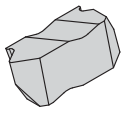


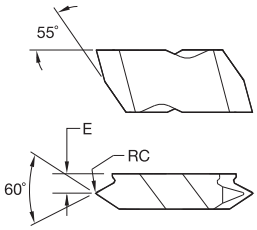
NTC-M-E

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NTC3MR150E	3	0,20	3,68	1,50	—	—	—	–	●	–	●	●	–
NTC3MR200E	3	0,27	3,68	2,00	—	—	—	–	–	–	●	–	–



UN American esterno





● prima scelta
○ scelta alternativa

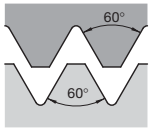
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

NTC-E

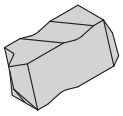
codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NTC3R32E	3	0,10	3,76	—	—	32	—	–	●	–	–	●	–
NTC3R28E	3	0,12	3,76	—	—	28	—	–	–	–	–	●	–
NTC3R24E	3	0,13	3,76	—	—	24	—	–	–	–	●	●	–
NTC3R20E	3	0,16	3,76	—	—	20	—	–	●	–	●	●	–
NTC3R18E	3	0,18	3,76	—	—	18	—	–	–	●	●	●	–
NTC3R16E	3	0,19	3,76	—	—	16	—	–	–	–	●	●	–
NTC3R14E	3	0,22	3,76	—	—	14	—	–	–	–	●	●	–
NTC3R13E	3	0,24	3,76	—	—	13	—	–	–	–	●	●	–
NTC3R12E	3	0,25	3,76	—	—	12	—	–	–	●	●	●	–
NTC3R11E	3	0,28	2,72	—	—	11	—	–	●	–	–	●	–
NTC3R10E	3	0,32	2,72	—	—	10	—	–	–	–	●	●	–
NTC3R9E	3	0,36	2,72	—	—	9	—	–	●	–	–	–	–
NTC3R8E	3	0,41	2,72	—	—	8	—	–	●	–	●	●	–
NTC3R7E	3	0,47	2,72	—	—	7	—	–	–	–	–	●	–
sinistro													
NTC3L16E	3	0,19	3,76	—	—	16	—	–	●	–	–	–	–
NTC3L12E	3	0,25	3,76	—	—	12	—	–	●	–	–	–	–
NTC3L10E	3	0,32	2,72	—	—	10	—	–	●	–	–	–	–
NTC3L8E	3	0,41	2,72	—	—	8	—	–	–	–	●	–	–

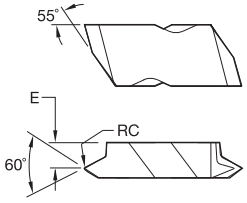
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

● prima scelta
○ scelta alternativa



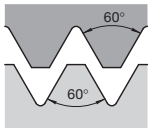
Profilo parziale a 60°



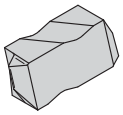


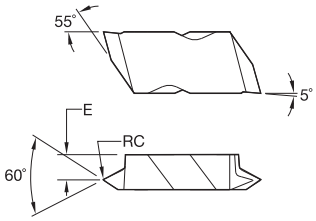
NTF

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NTF2R	2	0,08	2,79	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTF3R	3	0,08	3,58	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	–
NTF4R	4	0,08	5,11	0,60-2,5	1,0-2,5	10-44	9-24	–	–	–	–	●	–
sinistro													
NTF2L	2	0,08	2,79	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTF3L	3	0,08	3,58	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	–



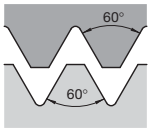
Profilo parziale a 60°



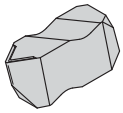


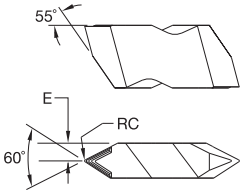
NTK

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NTK2R	2	0,08	2,79	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTK3R	3	0,08	3,58	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	–
sinistro													
NTK2L	2	0,08	2,79	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTK3L	3	0,08	3,58	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	–



Profilo parziale a 60°



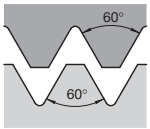


● prima scelta
○ scelta alternativa

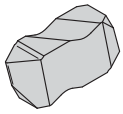
P		●	●	●	●	
M		●	●	●	●	
K	○	●	●	●	●	
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H		○		○		

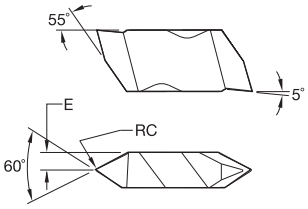
NT-K

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NT2RK	2	0,10	1,90	0,70-3,0	1,25-3,5	8-36	7-20	–	●	●	●	●	–
NT3RK	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	–	●	●	●	●	–
NT4RK	4	0,16	3,24	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–
sinistro													
NT2LK	2	0,10	1,90	0,70-3,0	1,25-3,5	8-36	7-20	–	●	●	●	●	–
NT3LK	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	–	●	●	●	●	–
NT4LK	4	0,16	3,24	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–



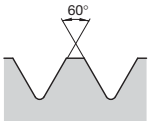
Profilo parziale a 60°



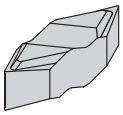


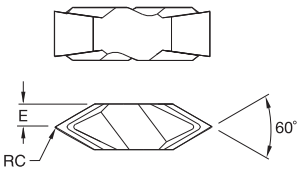
NTP

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NTP2R	2	0,10	1,91	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NTP3R	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	●
NTP4R	4	0,17	3,25	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–
sinistro													
NTP2L	2	0,10	1,91	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NTP3L	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NTP4L	4	0,17	3,25	1,25-6,25	2,0-6,25	4-20	4-12	–	–	–	●	●	–



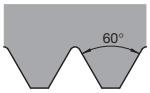
Profilo parziale a 60° esterno



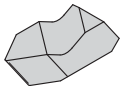


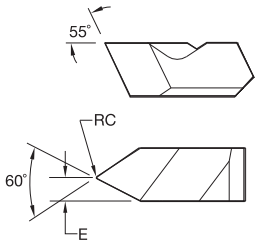
NTU

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro													
NTU4R	4U	0,11	3,18	1,25-6,25	—	4-20	—	–	–	●	–	●	–



Profilo parziale a 60° interno



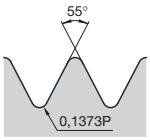


● prima scelta
○ scelta alternativa

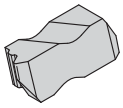
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

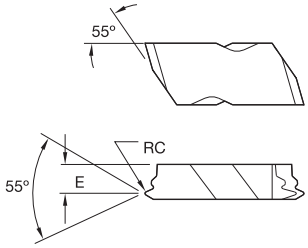
NT-1L

codice catalogo	dimensione inserto	RC	E	passo filetto esterno (mm)	passo filetto interno (mm)	TPI esterni	filetti per police	K68	KCU10	KCU25	KC5010	KC5025	KC5410
sinistro													
NT1L	1	0,08	1,09	–	1,0-2,0	–	12-24	●	●	●	●	●	–



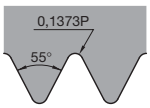
Whitworth BSW, BSF, BSP-esterno



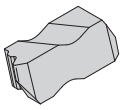


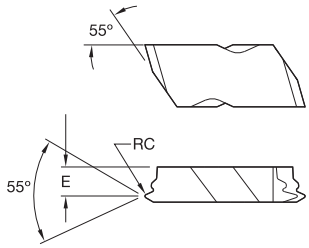
NWC-E

codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
destro										
NWC3R14E	3	0,24	3,43	14	–	–	●	●	–	–
NWC3R11E	3	0,30	3,43	11	–	–	–	●	●	–



Whitworth BSW, BSF, BSP-interno



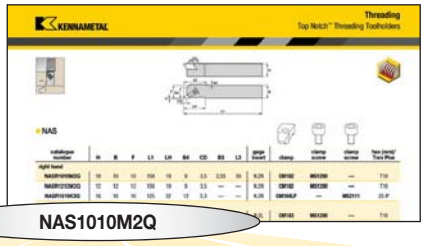


NWC-I

codice catalogo	dimensione inserto	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
sinistro										
NWC3L11I	3	0,30	3,43	11	–	–	–	–	●	–

Come utilizzare i codici del catalogo

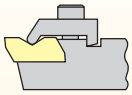
Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



NAS1010M2Q

N — Sistema di fissaggio inserto

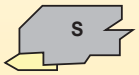
N — Top Notch



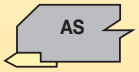
AS — Posizione di montaggio inserto

Montaggio radiale

Montaggio laterale, offset

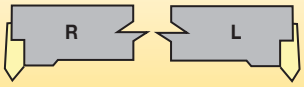


Montaggio laterale, senza offset

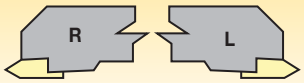


R — Lato dell'-utensile

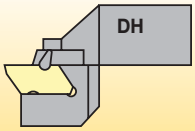
Montaggio radiale



Montaggio laterale



Testina di caduta



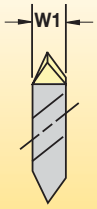
1010 — Dimensione codolo

Altezza e larghezza codolo in mm e supporto

M — Lunghezza utensile

L1	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	Y
lunghezza speciale	x

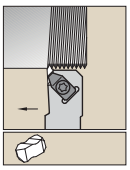
2 — Dimensione inserto

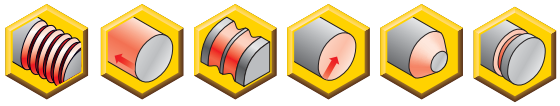


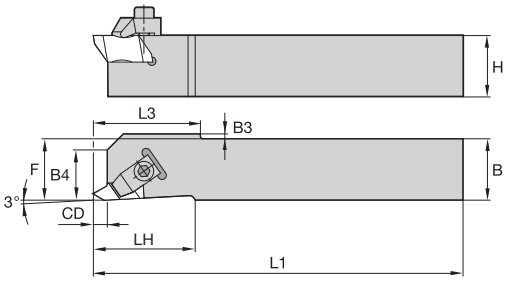
dimen-sione inserto	W1
2	3,81
3	4,95
4	6,98
5	9,65
6	9,73
8	11,13

Q — Supporto qualificato

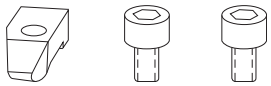
Q — Supporto qualificato





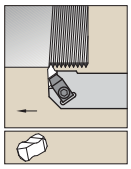


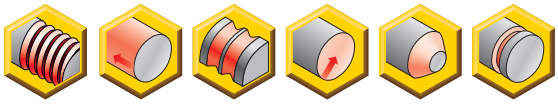
NAS

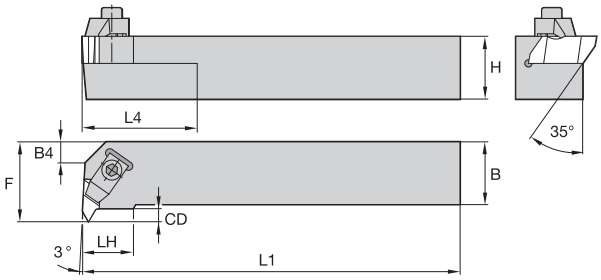


numero d'ordine	codice catalogo	H	B	F	L1	LH	B4	CD	B3	L3	inserto di riferimento	vite staffa	vite staffa	staffa	esagono (mm) / Torx Plus
destro															
1098788	**NASR1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2R	**CM182**	**MS1200**	**–**	T10
1098789	**NASR1212M2Q**	12	12	12	150	19	9	3,5	–	–	N.2R	**CM182**	**MS1200**	**–**	T10
1098786	**NASR1616K3Q**	16	16	16	125	32	13	5,3	–	–	N.3R	**CM184LP**	**–**	**MS2111**	25 IP
sinistro															
1098859	**NASL1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2L	**CM183**	**MS1200**	**–**	T10
1098860	**NASL1212M2Q**	12	12	12	150	19	9	6,9	–	–	N.2L	**CM183**	**MS1200**	**–**	T10
1098857	**NASL1616K3Q**	16	16	16	125	32	13	5,3	–	–	N.3L	**CM185LP**	**–**	**MS2111**	25 IP

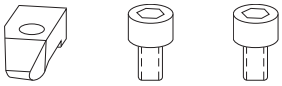
NOTA: Dimensione F misurata sul punto affilato di inserto per filettatura di tipo N.





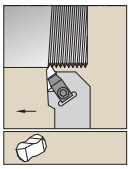


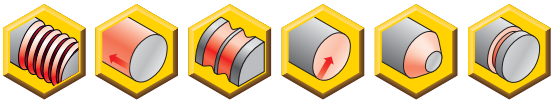
NE

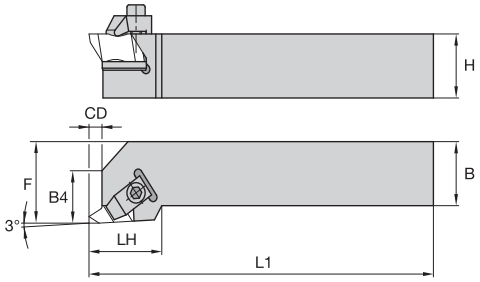


numero d'ordine	codice catalogo	H	B	F	L1	LH	CD	L4	inserto di riferimento	vite staffa	vite staffa	staffa	esagono (mm) / Torx Plus
destro													
1098803	**NER1616H2**	16	16	20	100	15	3,5	–	N.2L	**CM75**	**MS1200**	**–**	T10
1098804	**NER2020K2**	20	20	25	125	15	3,5	–	N.2L	**CM75**	**MS1200**	**–**	T10
1098805	**NER2525M2**	25	25	32	150	15	3,5	25,4	N.2L	**CM75**	**MS1200**	**–**	T10
1098806	**NER2525M3**	25	25	32	150	22	5,3	50,8	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098808	**NER2525M4**	25	25	35	150	24	6,4	50,8	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098807	**NER3225P3**	32	25	32	170	22	3,8	50,8	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098809	**NER3225P4**	32	25	35	170	24	6,4	50,8	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098810	**NER3232P4**	32	32	40	170	24	6,4	50,8	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
sinistro													
1098874	**NEL1616H2**	16	16	20	100	15	3,5	–	N.2R	**CM74**	**MS1200**	**–**	T10
1098875	**NEL2020K2**	20	20	25	125	15	3,5	–	N.2R	**CM74**	**MS1200**	**–**	T10
1098876	**NEL2525M2**	25	25	32	150	15	3,5	25,4	N.2R	**CM74**	**MS1200**	**–**	T10
1098877	**NEL2525M3**	25	25	32	150	22	5,3	50,8	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098879	**NEL2525M4**	25	25	35	150	24	6,4	50,8	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098878	**NEL3225P3**	32	25	32	170	22	3,8	50,8	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098880	**NEL3225P4**	32	25	35	170	24	6,4	50,8	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098881	**NEL3232P4**	32	32	40	170	24	6,4	50,8	N.4R	**CM72LP**	**–**	**MS2111**	25 IP

NOTA: Dimensione F misurata sul punto affilato di inserto per filettatura tipo Top Notch.



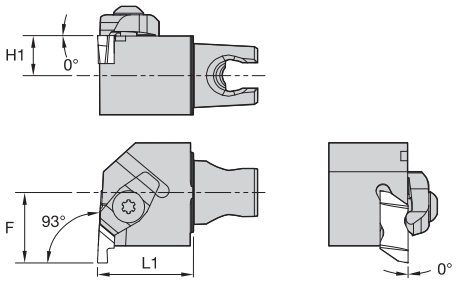


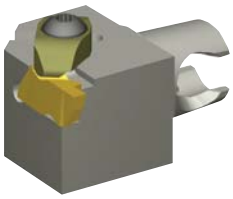


NS

numero d'ordine	codice catalogo	H	B	F	L1	LH	B4	CD	inserto di riferimento	staffa	vite staffa	vite staffa	esagono (mm) / Torx Plus
destro													
1098790	**NSR1010E2**	10	10	14	70	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098791	**NSR1212F2**	12	12	16	80	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098792	**NSR1616H2**	16	16	20	100	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098793	**NSR2020K2**	20	20	25	125	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098795	**NSR2020K3**	20	20	25	125	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098794	**NSR2525M2**	25	25	32	150	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098796	**NSR2525M3**	25	25	32	150	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098799	**NSR2525M4**	25	25	32	150	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098797	**NSR3225P3**	32	25	32	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098800	**NSR3225P4**	32	25	32	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098798	**NSR3232P3**	32	32	40	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098801	**NSR3232P4**	32	32	40	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
sinistro													
1098861	**NSL1010E2**	10	10	14	70	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098862	**NSL1212F2**	12	12	16	80	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098863	**NSL1616H2**	16	16	20	100	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098864	**NSL2020K2**	20	20	25	125	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098866	**NSL2020K3**	20	20	25	125	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098865	**NSL2525M2**	25	25	32	150	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098867	**NSL2525M3**	25	25	32	150	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098870	**NSL2525M4**	25	25	32	150	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098868	**NSL3225P3**	32	25	32	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098871	**NSL3225P4**	32	25	32	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098869	**NSL3232P3**	32	32	40	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098872	**NSL3232P4**	32	32	40	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP

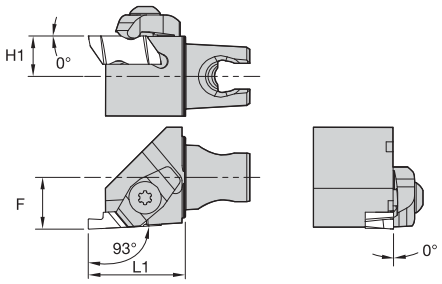
NOTA: Dimensione F misurata sul punto affilato di inserto di filettatura e scanalatura tipo Top Notch.

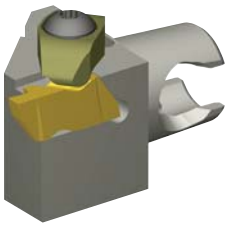




NE 93°

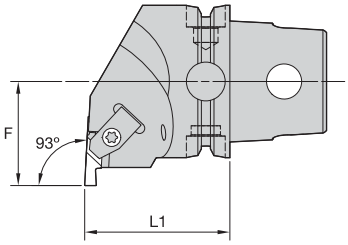
numero d'ordine	codice catalogo	L1	F	H1	inserto di riferimento	staffa	vite staffa	vite staffa
destro								
2399462	**KM25NER230**	30	22	12,5	NG2L	**CM75**	**–**	**MS1200**
2399494	**KM25NER330**	30	22	12,5	NG3L	**CM73LP**	**MS2111**	**–**
2399496	**KM25NER430**	30	24	12,5	NG4L	**CM73LP**	**MS2111**	**–**
sinistro								
2399495	**KM25NEL330**	30	22	12,5	NG3R	**CM72LP**	**MS2111**	**–**
2399497	**KM25NEL430**	30	24	12,5	NG4R	**CM72LP**	**MS2111**	**–**

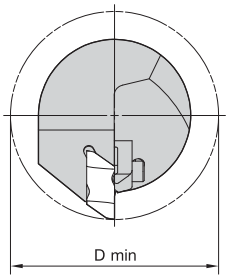


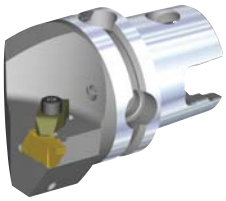


NS 93°

numero d'ordine	codice catalogo	L1	F	H1	inserto di riferimento	staffa	vite staffa	vite staffa
destro								
2399498	**KM25NSR230**	30	16	12,5	NG2R	**CM74**	**–**	**MS1200**
2399500	**KM25NSR330**	30	16	12,5	NG3R	**CM72LP**	**MS2111**	**–**
sinistro								
2399499	**KM25NSL230**	30	16	12,5	NG2L	**CM75**	**–**	**MS1200**
2399501	**KM25NSL330**	30	16	12,5	NG3L	**CM73LP**	**MS2111**	**–**
2399503	**KM25NSL430**	30	16	12,5	NG4L	**CM213LP**	**MS2111**	**–**

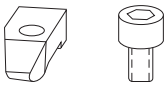




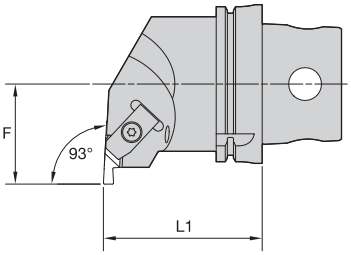


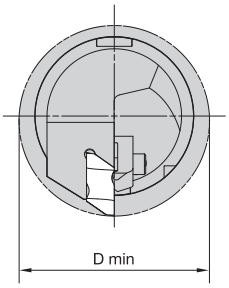
KM™ QUICK CHANGE

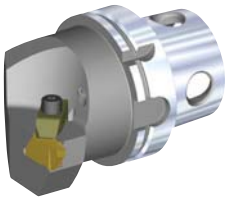
NE 93°



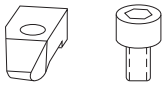
numero d'ordine	codice catalogo	L1 mm	L1 pollici	F mm	F pollici	D min mm	D min pollici	inserto di riferimento	staffa	vite staffa	kg	lbs
destro												
3902285	**KM40TSNER2**	40	1.575	27	1.063	54	2.126	NG2L	**CM75**	**MS1488**	0,30	.66
3902286	**KM40TSNER3**	40	1.575	27	1.063	54	2.126	NG3L	**CM73**	**MS1489**	0,30	.67
3902287	**KM40TSNER4**	40	1.575	27	1.063	54	2.126	NG4L	**CM73**	**MS1489**	0,30	.65
sinistro												
3902132	**KM40TSNEL2**	40	1.575	27	1.063	54	2.126	NG2R	**CM74**	**MS1488**	0,30	.66
3902283	**KM40TSNEL3**	40	1.575	27	1.063	54	2.126	NG3R	**CM-72**	**MS1489**	0,30	.67
3902284	**KM40TSNEL4**	40	1.575	27	1.063	54	2.126	NG4R	**CM-72**	**MS1489**	0,30	.65



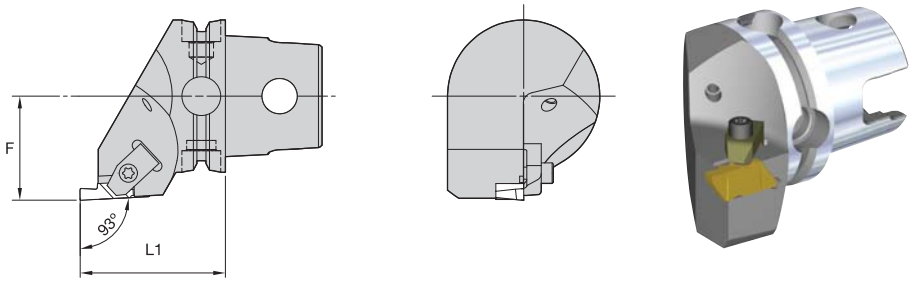




NE

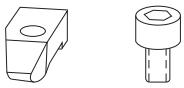


numero d'ordine	codice catalogo	L1 mm	L1 pollici	F mm	F pollici	D min mm	D min pollici	inserto di riferimento	staffa	vite staffa	kg	lbs
destro												
5337758	**KM4X100NER3**	100	3.937	63	2.480	120	4.724	NG3L	**CM73**	**MS1489**	4,45	9.80
5337759	**KM4X100NER4**	100	3.937	63	2.480	120	4.724	NG4L	**CM73**	**MS1489**	4,51	9.93
5337770	**KM4X100NER5**	100	3.937	63	2.480	120	4.724	NG5L	**CM81**	**MS1490**	4,65	10.25
5337771	**KM4X100NER6**	100	3.937	63	2.480	120	4.724	NG6L	**CM121**	**MS1489**	4,48	9.88
sinistro												
5337754	**KM4X100NEL3**	100	3.937	63	2.480	120	4.724	NG3R	**CM-72**	**MS1489**	4,45	9.80
5337755	**KM4X100NEL4**	100	3.937	63	2.480	120	4.724	NG4R	**CM-72**	**MS1489**	4,51	9.93
5337756	**KM4X100NEL5**	100	3.937	63	2.480	120	4.724	NG5R	**CM80**	**MS1490**	4,65	10.25
5337757	**KM4X100NEL6**	100	3.937	63	2.480	120	4.724	NG6R	**CM120**	**MS1489**	4,48	9.88

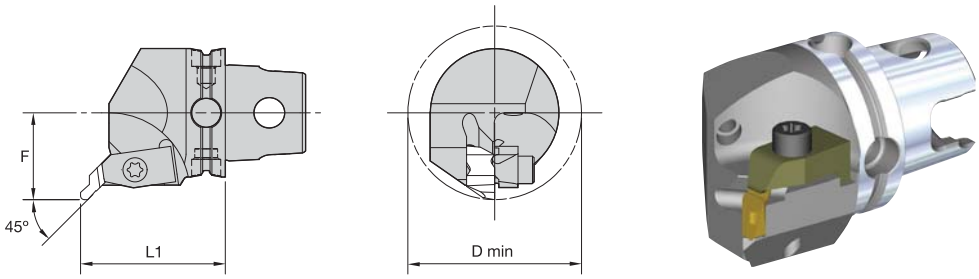


KM QUICK CHANGE

NS 93°

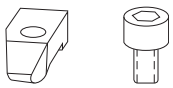


numero d'ordine	codice catalogo	L1 mm	L1 pollici	F mm	F pollici	inserto di riferimento	staffa	vite staffa	kg	lbs
destro										
3902293	**KM40TSNSR2**	40	1.575	27	1.063	NG2R	**CM74**	**MS1488**	0,32	.70
3902294	**KM40TSNSR3**	47	1.850	27	1.063	NG3R	**CM-72**	**MS1489**	0,32	.71
3902295	**KM40TSNSR4**	47	1.850	27	1.063	NG4R	**CM-72**	**MS1489**	0,30	.66
sinistro										
3902290	**KM40TSNSL2**	40	1.575	27	1.063	NG2L	**CM75**	**MS1488**	0,32	.70
3902291	**KM40TSNSL3**	47	1.850	27	1.063	NG3L	**CM73**	**MS1489**	0,33	.72
3902292	**KM40TSNSL4**	47	1.850	27	1.063	NG4L	**CM73**	**MS1489**	0,30	.66



KM QUICK CHANGE

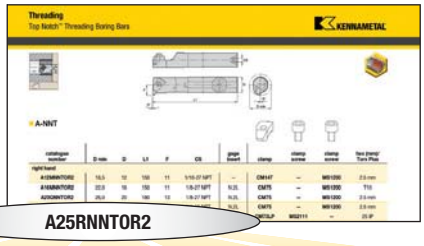
NR 45°



numero d'ordine	codice catalogo	L1 mm	L1 pollici	F mm	F pollici	D min mm	D min pollici	inserto di riferimento	staffa	vite staffa	kg	lbs
destro												
3902289	**KM40TSNRR3045M**	45	1.772	27	1.063	54	2.126	NU3L	**CM73**	**MS1489**	0,34	.75
sinistro												
3902288	**KM40TSNRL3045M**	45	1.772	27	1.063	54	2.126	NU3R	**CM-72**	**MS1489**	0,33	.74

Come utilizzare i codici del catalogo

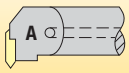
Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



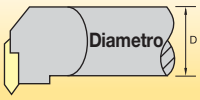
A25RNNTOR2

A	25	R	N	N	T	O	R	2
Tipo di barra	Diametro barra	Lunghezza barra	Sistema di fissaggio inserto	Forma inserto	Posizione dell'inserto	Angolo di spoglia 0 = 0°	Lato dell'utensile	Inserto Dimensione

Acciaio con refrigerante

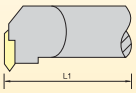


Barra in millimetri

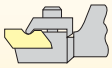


Bareni

K = 125,0mm
M = 150,0mm
Q = 180,0mm
R = 200,0mm
S = 250,0mm
T = 300,0mm
U = 350,0mm



N —
Top Notch*



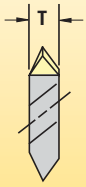
*Solo standard esclusivo.

Montaggio radiale

Montaggio laterale

Destro

Sinistro



dimen-sione inserto	T
2	3,81
3	4,95
4	6,98
5	9,65
6	9,73
8	11,13

Profilatura Top Notch™ Beyond™

Top Notch è la migliore soluzione per incrementare la produttività. Il sistema Top Notch fornisce prestazioni costanti, un indexaggio preciso e un maggiore fissaggio per offrire un'eccellente finitura superficiale e una maggiore durata dell'utensile.

CARATTERISTICHE E VANTAGGI

Maggiore produttività e redditività

- Le forze di taglio ridotte aumentano la velocità e riducono il tempo ciclo.
- Maggiore durata dell'utensile.

Affidabilità

- Durata prevedibile dell'utensile/usura uniforme.
- Resiste ai danni derivanti dall'evacuazione del truciolo.
- Finitura superficiale uniforme.

Versatilità

- I prodotti possono essere utilizzati per un'ampia gamma di applicazioni.
- Per lavorazioni a bassa e alta velocità.
- Portafoglio completo di prodotti.
- Per applicazioni dalla tornitura di finitura alla tornitura di sgrossatura di acciaio, ghisa, acciaio inossidabile e leghe resistenti al calore.

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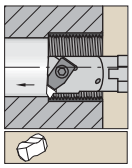
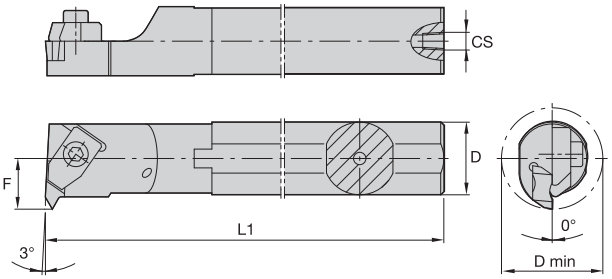
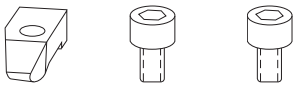


Codolo in acciaio con refrigerante interno.

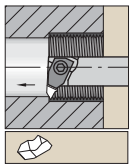


A-NNT

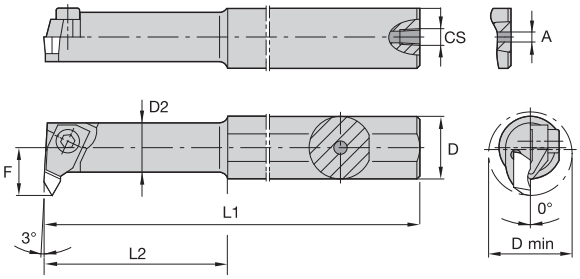


numero d'ordine	codice catalogo	D min	D	L1	F	CS	inserto di riferimento	staffa	vite staffa	vite staffa	esagono (mm) / Torx Plus
destro											
1098945	**A12MNNTOR2**	18,5	12	150	11	1/16-27 NPT	–	**CM147**	–	**MS1200**	2.5 mm
1098947	**A16MNNTOR2**	22,0	16	150	11	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	T10
1098949	**A20QNNTOR2**	26,0	20	180	13	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098951	**A25RNNTOR2**	34,0	25	200	17	1/4-18 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098953	**A25RNNTOR3**	34,0	25	200	17	1/8 - 27 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098955	**A32SNNTOR3**	44,0	32	250	22	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098957	**A40TNNTOR3**	54,0	40	300	27	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1099001	**A40TNNTOR4**	54,0	40	300	27	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
1099003	**A50UNNTOR4**	70,0	50	350	35	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
sinistro											
1098946	**A12MNNTOL2**	18,5	12	150	11	1/16-27 NPT	NG2R	**CM146**	–	**MS1200**	2.5 mm
1098948	**A16MNNTOL2**	22,0	16	150	11	1/8-27 NPT	N.2R	**CM74**	–	**MS1200**	T10
1098950	**A20QNNTOL2**	26,0	20	180	13	1/8-27 NPT	NG2R	**CM74**	–	**MS1200**	2.5 mm
1098952	**A25RNNTOL2**	34,0	25	200	17	1/4-18 NPT	N.2R	**CM74**	–	**MS1200**	2.5 mm
1098954	**A25RNNTOL3**	34,0	25	200	17	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098956	**A32SNNTOL3**	44,0	32	250	22	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098958	**A40TNNTOL3**	54,0	40	300	27	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1099002	**A40TNNTOL4**	54,0	40	300	27	1/4-18 NPT	N.4R	**CM72LP**	**MS2111**	–	25 IP

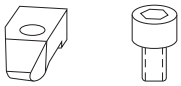
NOTA: Il diametro minimo del foro (D min) varia in base al tipo di filetto e passo. Vedere a pagina D102 per i dettagli.
Dimensione F misurata sul punto affilato di inserto di scanalatura di tipo NG.



Codolo in acciaio con refrigerante interno.

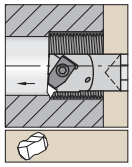


A-NNT -1

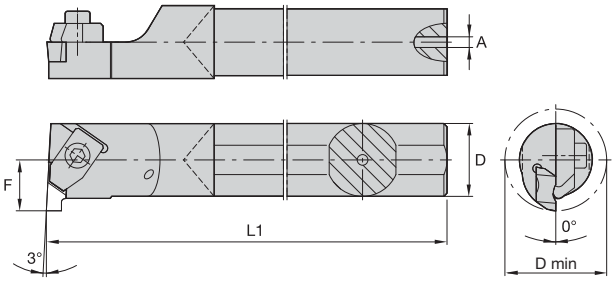


numero d'ordine	codice catalogo	D min	D	HDD	L1	L2	F	A	CS	inserto di riferimento	staffa	vite staffa	hex (mm)
destro													
1098943	**A10KNNTOR1**	11,5	10	10,0	125	—	7	3,2	—	NG1L	**CM109**	**MS1034**	1.5 mm
1098944	**A12MNNTOR1**	11,5	12	10,0	150	31,30	7	4,0	1/16-27 NPT	N.1L	**CM109**	**MS1034**	1.5 mm

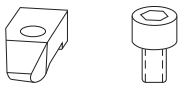
NOTA: Dimensione F misurata sul punto affilato di inserto per filettatura di tipo Top Notch.



Codolo in metallo duro con adduzione interna di refrigerante.

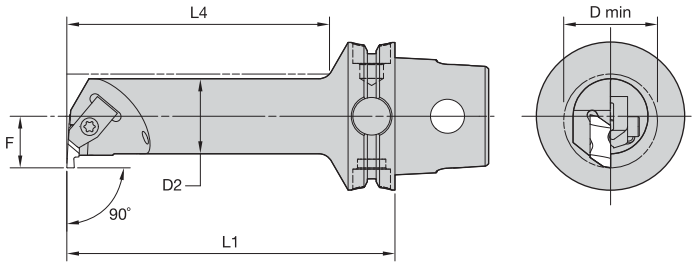


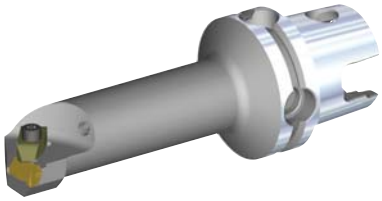
E-NNT



numero d'ordine	codice catalogo	D min	D	L1	F	A	inserto di riferimento	staffa	vite staffa	Torx/ Torx Plus
destro										
1152834	**E16RNNTOR2**	22	16	200	11	5,5	N.2L	**CM75**	**MS1200**	T10
1152836	**E20SNNTOR2**	26	20	250	13	7,1	N.2L	**CM75**	**MS1200**	T10
sinistro										
1152835	**E16RNNTOL2**	22	16	200	11	5,5	N.2R	**CM74**	**MS1200**	T10

NOTA: Il diametro minimo del foro (D min) varia in base al tipo di filetto e passo. Vedere a pagina D102 per i dettagli.
Dimensione F misurata sul punto affilato di inserto per filettatura di tipo Top Notch.





NE 90° • Acciaio

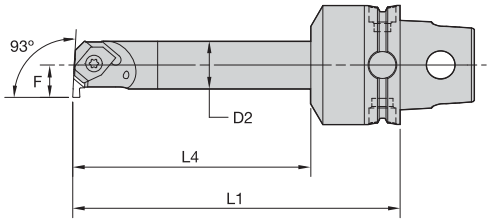
numero d'ordine	codice catalogo	D2 mm	D2 pollici	D min mm	D min pollici	F mm	F pollici	L4 mm	L4 pollici	L1 mm	L1 pollici	inserto di riferimento	kg	lbs
destro														
3955481	**KM40TSS12ENER2**	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2L	0,27	.58
3955483	**KM40TSS16FNER2**	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2L	0,28	.62
3955485	**KM40TSS20GNER2**	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2L	0,35	.76
3955487	**KM40TSS25ENER2**	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2L	0,34	.75
3955491	**KM40TSS25ENER3**	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3L	0,35	.77
3955489	**KM40TSS25HNER2**	25	.984	32	1.26	17	.669	75	2.954	100	3.937	NG2L	0,49	1.08
3955493	**KM40TSS25HNER3**	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3L	0,49	1.09
3955497	**KM40TSS32GNER3**	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3L	0,55	1.21
3955495	**KM40TSS32JNER3**	32	1.260	40	1.57	22	.866	96	3.780	110	4.331	NG3L	0,67	1.48
sinistro														
3955480	**KM40TSS12ENEL2**	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2R	0,27	.59
3955482	**KM40TSS16FNEL2**	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2R	0,28	.62
3955484	**KM40TSS20GNEL2**	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2R	0,35	.76
3955486	**KM40TSS25ENEL2**	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2R	0,34	.75
3955490	**KM40TSS25ENEL3**	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3R	0,35	.77
3955492	**KM40TSS25HNEL3**	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3R	0,49	1.09
3955496	**KM40TSS32GNEL3**	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3R	0,55	1.21

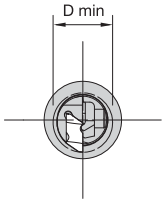
(continua)

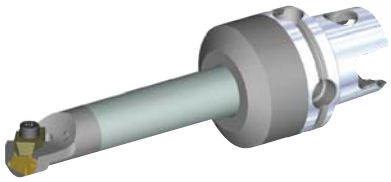
(NE 90° • Acciaio — continua)

Parti di ricambio

codice catalogo	staffa	vite staffa
destro		
KM40TSS12ENER2	CM147	MS1488
KM40TSS16FNER2	CM147	MS1488
KM40TSS20GNER2	CM75	MS1488
KM40TSS25ENER2	CM75	MS1488
KM40TSS25ENER3	CM73	MS1489
KM40TSS25HNER2	CM75	MS1488
KM40TSS25HNER3	CM73	MS1489
KM40TSS32GNER3	CM73	MS1489
KM40TSS32JNER3	CM73	MS1489
sinistro		
KM40TSS12ENEL2	CM146	MS1488
KM40TSS16FNEL2	CM146	MS1488
KM40TSS20GNEL2	CM74	MS1488
KM40TSS25ENEL2	CM74	MS1488
KM40TSS25ENEL3	CM-72	MS1489
KM40TSS25HNEL3	CM-72	MS1489
KM40TSS32GNEL3	CM-72	MS1489





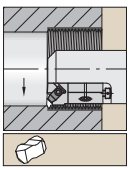


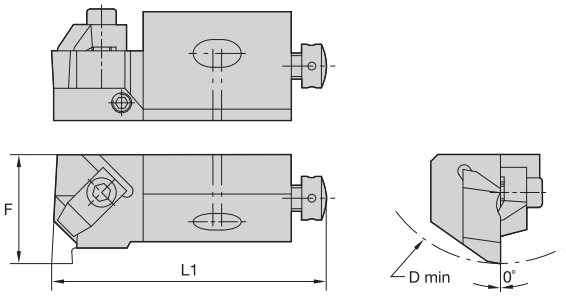
NE 90° • Metallo duro

numero d'ordine	codice catalogo	D2 mm	D2 pollici	D min mm	D min pollici	F mm	F pollici	L4 mm	L4 pollici	L1 mm	L1 pollici	inserto di riferimento	kg	lbs
destro														
3951836	**KM40TSE16JNER2**	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2L	0,41	.90
sinistro														
3951835	**KM40TSE16JNEL2**	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2R	0,41	.90

Parti di ricambio

codice catalogo	staffa	vite staffa
destro		
KM40TSE16JNER2	**CM146**	**MS1488**
sinistro		
KM40TSE16JNEL2	**CM147**	**MS1488**

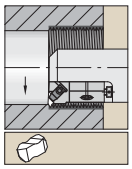


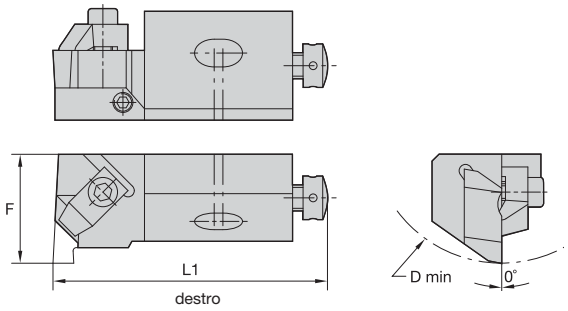


Cartucce di barenatura in acciaio

numero d'ordine	codice catalogo	D min	F	L1	inserto di riferimento	staffa	vite staffa	hex (mm)	vite di regolazione radiale	hex (mm)	vite assiale	hex (mm)	rondella
destro													
1098380	**NER12CA2**	50	20	55,7	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
sinistro													
1098624	**NEL12CA2**	50	20	55,0	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
1098626	**NEL25CA3**	100	32	100,0	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	4 mm	**CSWM 100 080**

NOTA: Il diametro minimo del foro (D min) varia in base al tipo di filetto e passo. Vedere a pagina D102 per i dettagli.
Dimensione F misurata sul punto affilato di inserto per filettatura tipo Top Notch.



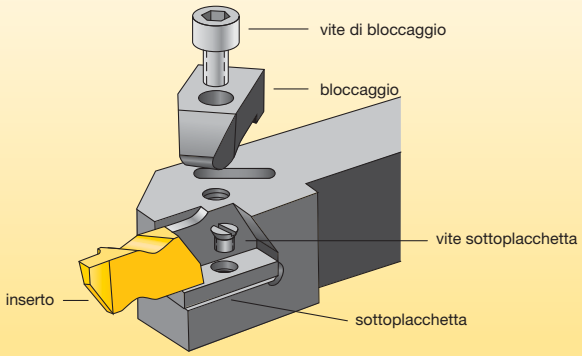


Cartucce di barenatura in acciaio

numero d'ordine	codice catalogo	D min	F	L1	inserto di riferimento	staffa	vite staffa	hex (mm)	vite di regolazi-one radiale	hex (mm)	vite assiale	hex (mm)	rondella
destro													
1098380	**NER12CA2**	50	20	55,7	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
sinistro													
1098624	**NEL12CA2**	50	20	55,0	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
1098626	**NEL25CA3**	100	32	100,0	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	4 mm	**CSWM 100 080**

NOTA: Il diametro minimo del foro (D min) varia in base al tipo di filetto e passo. Vedere a pagina D102 per i dettagli.
Dimensione F misurata sul punto affilato di inserto per filettatura tipo Top Notch.

Portautensili e bareni



dimensione e tipo di inserto	bloccaggio	vite di bloccaggio	sottoplacchetta	vite sottoplacchetta
NG-1L	CM-109	S-304	–	–
NG-2R	CM-182	S-310	–	–
NG-2L	CM-183	S-310	–	–
NG-2R	CM-74	S-310	–	–
NG-2L	CM-75	S-310	–	–
NG-3R	CM-184	S-412	–	–
NG-3L	CM-185	S-412	–	–
NG-3R	CM-72	S-412	–	–
NG-3L	CM-73	S-412	–	–
NG-3R*	CM-78	S-412	–	–
NG-3L*	CM-70	S-412	–	–
NG-4R	CM-72	S-412	SM-420	SL-344
NG-4L	CM-73	S-412	SM-420	SL-344
NG-5R	CM-80	S-352	–	–
NG-5L	CM-81	S-352	–	–
NG-6R	CM-120	S-412	SM-416	S-111
NG-6L	CM-121	S-412	SM-416	S-111
NG-8R	CM-144	S-422	SM-419	S-112
NG-8L	CM-145	S-422	SM-419	S-112
NG-8R**	CM-144	S-422	SM-427	S-111
NG-8L**	CM-145	S-422	SM-427	S-111
Scanalatura di scarico Top Notch				
NU-3125R	CM-72	S-412	–	–
NU-3125L	CM-73	S-412	–	–
NU-3125R**	CM-72	S-618	–	–
NU-3125L**	CM-73	S-618	–	–

*Testa di barenatura diametro da 25mm.
**Testa di barenatura.

LT • Filettatura Laydown Triangolare

Applicazione principale

La filettatura Laydown Triangolare (LT) è il sistema ideale per filetti a passo stretto, filetti a passo lungo/a più principi e filetti a punto singolo in fori di piccolo diametro. L'ampia selezione di inserti di tipo CB garantisce un controllo del truciolo superiore, il che risulta in eccellenti finiture superficiali e minimizza la necessità d'intervento da parte dell'operatore. La struttura a profilo basso consente un'evacuazione del truciolo senza ostruzioni, ideale per filettature interne. Le sottoplacchette con angoli di diverso tipo permettono una geometria di taglio corretta per filettature caratterizzate sia da un'ampia angolatura dell'elica che da un'angolatura inversa dell'elica stessa, aumentando in tal modo la durata dell'utensile e migliorando la qualità del filetto.

Caratteristiche e vantaggi

La forma del filetto rettificata di precisione e LT-CB

- Riduce il tagliente di riporto.
- Taglia precisamente i materiali più comuni.
- Riduce le forze di taglio.
- Garantisce filetti accuratamente eseguiti e di alta qualità.

Qualità con rivestimento in PVD-TiAlN eccellenti KC5010™ e KC5025™

- Aumento della durata dell'utensile nelle condizioni di lavorazione esistenti.
- Aumento della produttività rispetto alle qualità PVD convenzionali con velocità di taglio superiori fino al 30%.

Controllo superiore del truciolo

- Elimina le matasse lunghe e problematiche.
- Eccellente per operazioni di filettatura interna.
- Disponibile con inserti a profilo parziale e completo per tutte le forme di filetto comuni.

Inserti Kenna Universal™

- La forma del filetto LT-K stampato di precisione garantisce un servizio ed un valore eccezionali.
- Il controllo ottimale del truciolo combinato con la qualità KU25T™ consente una filettatura senza problemi per una vasta gamma di materiali.

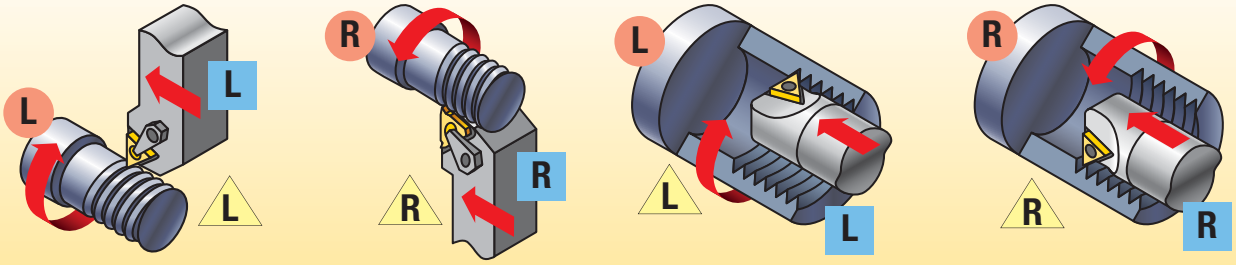
KENNAMETAL E20SLSER16 NX4

Passo 1 • Selezionare il metodo di filettatura e il lato dell'utensile

Informazioni necessarie:
- Operazione esterna/interna.
- Rotazione del mandrino/lato del filetto.
- Direzione di avanzamento.

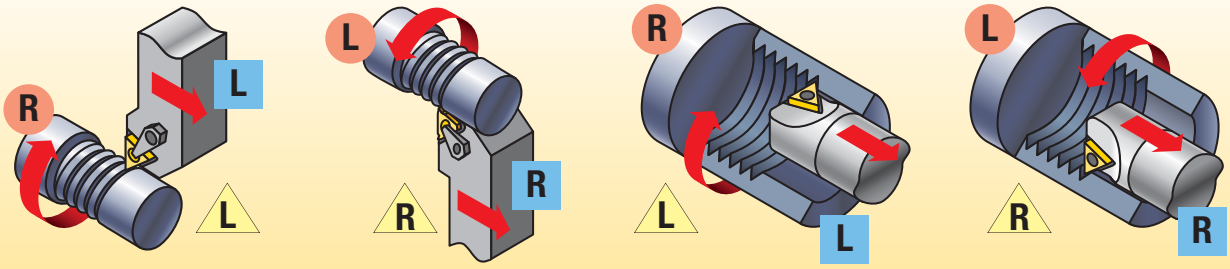
lato del filetto — lato del portautensili — lato dell'inserto

Direzione di avanzamento verso il mandrino • elica standard • RACCOMANDATO



filetto sinistro esterno — filetto destro esterno — filetto sinistro interno — filetto destro interno

Direzione di avanzamento contraria al mandrino • elica inversa*



filetto destro esterno — filetto sinistro esterno — filetto destro interno — filetto sinistro interno

**Necessaria sottoplacchetta negativa*

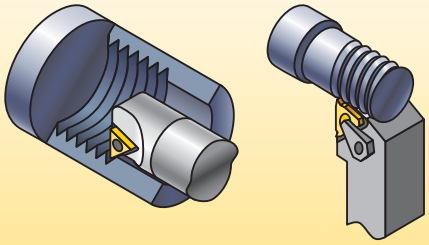
Passo 2 • Selezionare il supporto dalla pagina del catalogo

Informazioni necessarie:
- Lavorazione esterna/interna.
- Diametro minimo del foro (per operazioni interne).
- Lato dell'utensile.
- Dimensione dell'inserto (inserto di riferimento).

La dimensione dell'inserto deve coincidere con la dimensione dell'inserto di riferimento del portautensili selezionato:

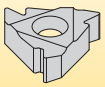
codice catalogo	inserto campione	diametro minimo del foro	sottoplacchetta
S0812LSER2	2IRA60	16,5 mm	SM-YI3
S2020LSER3	3IR...	36,8 mm	SM-YI3

Selezionare il supporto appropriato per la dimensione e il lato dell'inserto:



Passo 3 • Scegliere l'inserto per l'applicazione

- Selezionare gli inserti a cresta per ottenere il controllo completo della forma del filetto, compreso il diametro.
- Gli inserti a cresta eliminano la necessità di effettuare la sbavatura e sono ottimizzati per ottenere la massima durata dell'utensile per un determinato passo.
- Gli inserti a profilo parziale non a cresta offrono la flessibilità necessaria per il taglio di una grande varietà di passi di filetto con un solo inserto.
- Fare attenzione alla dimensione dell'inserto per la selezione del portautensili.



dimensione dell'inserto	codice catalogo	KCU25/KC5025
11	**2IRA60**	•
16	**3IRAG60**	•

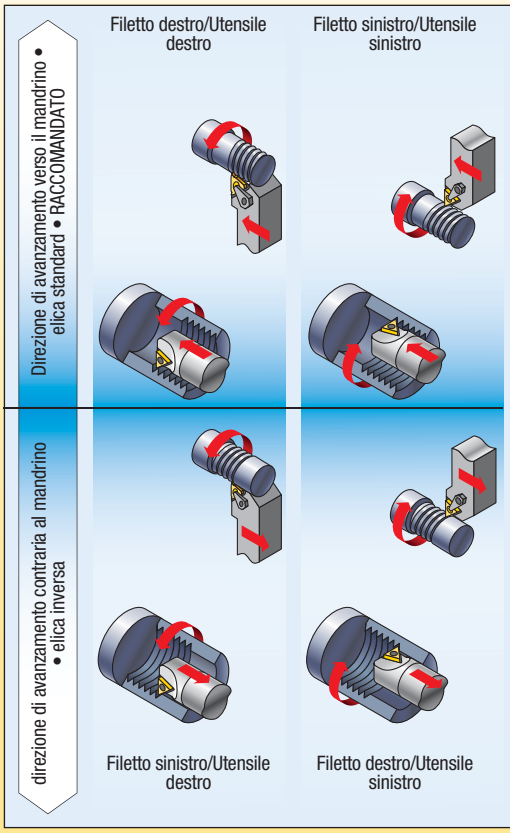
NOTA: Vedere la panoramica degli inserti per filettatura a pagina D50.

Passo 4 • Selezionare lo spessore adatto

Informazioni necessarie:

- Forma di filetto (TPI o passo).
- Diametro primitivo.
- Metodo elica (lato dell'utensile, direzione di avanzamento, lato del filetto).
- Numero di principi.

Selezionare lo spessore adatto: SMYE ... per esterno destro o interno sinistro
SMYI ... per interno destro o esterno sinistro

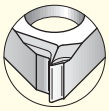
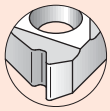
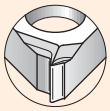
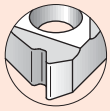


	toolholder		shim ordering code (inch)							
insert size	external	internal				standard				
3 (3/8")	RH	LH	SM–YE3–3P	SM–YE3–2P	SM–YE3–1P	SM–YE3	SM–YE3–1N	SM–YE3–1.5N	SM–YE3–2N	SM–YE3–3N
3 (3/8")	LH	RH	SM–YI3–3P	SM–YI3–2P	SM–YI3–1P	SM–YI3	SM–YI3–1N	SM–YI3–1.5N	SM–YI3–2N	SM–YI3–3N
4 (1/2")	RH	LH	SM–YE4–3P	SM–YE4–2P	SM–YE4–1P	SM–YE4	SM–YE4–1N	SM–YE4–1.5N	SM–YE4–2N	SM–YE4–3N
4 (1/2")	LH	RH	SM–YI4–3P	SM–YI4–2P	SM–YI4–1P	SM–YI4	SM–YI4–1N	SM–YI4–1.5N	SM–YI4–2N	SM–YI4–3N
TPI		pitch (mm)	pitch diameter (inch)							
72		–	–	–	–	0.12–0.31	0.32–0.84	>0.84	0.84–0.32	0.31–0.12
–		0,35	–	–	–	0.12–0.3	0.31–0.84	>0.84	0.84–0.31	0.3–0.12
64		–	–	–	–	0.14–0.35	0.36–0.95	>0.95	0.95–0.36	0.35–0.14
–		0,40	–	–	–	0.14–0.35	0.36–0.96	>0.96	0.96–0.36	0.35–0.14
56		0,45	–	–	–	0.16–0.4	0.41–1.09	>1.09	1.09–0.41	0.4–0.16
–		0,50	–	–	0.11–0.16	0.17–0.44	0.45–1.2	>1.20	1.2–0.45	0.44–0.17
48		–	–	–	0.12–0.17	0.18–0.46	0.47–1.27	>1.27	1.27–0.47	0.46–0.18
44		–	–	–	0.13–0.19	0.2–0.51	0.52–1.38	>1.38	1.38–0.52	0.51–0.2
–		0,60	–	0.1–0.12	0.13–0.2	0.21–0.53	0.54–1.44	>1.44	1.44–0.54	0.53–0.21
40		–	–	0.11–0.13	0.14–0.21	0.22–0.56	0.57–1.52	>1.52	1.52–0.57	0.56–0.22
–		0,70	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.68	>1.68	1.68–0.63	0.62–0.24
36		–	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.69	>1.69	1.69–0.63	0.62–0.24
–		0,75	0.11–0.12	0.13–0.16	0.17–0.25	0.26–0.66	0.67–1.8	>1.80	1.8–0.67	0.66–0.26
32		–	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.7	0.71–1.9	>1.90	1.9–0.71	0.7–0.27
–		0,80	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.71	0.72–1.91	>1.91	1.91–0.72	0.71–0.27
28		–	0.14–0.14	0.15–0.19	0.2–0.3	0.31–0.8	0.81–2.17	>2.17	2.17–0.81	0.8–0.31
27		–	0.14–0.15	0.16–0.2	0.21–0.31	0.32–0.83	0.84–2.25	>2.25	2.25–0.84	0.83–0.32
–		1,00	0.15–0.16	0.17–0.21	0.22–0.33	0.34–0.89	0.9–2.39	>2.39	2.39–0.9	0.89–0.34
24		–	0.16–0.17	0.18–0.23	0.24–0.35	0.36–0.94	0.95–2.53	>2.53	2.53–0.95	0.94–0.36
–		1,25	0.19–0.2	0.21–0.27	0.28–0.42	0.43–1.11	1.12–2.99	>2.99	2.99–1.12	1.11–0.43
20		–	0.19–0.21	0.22–0.27	0.28–0.42	0.43–1.13	1.14–3.04	>3.04	3.04–1.14	1.13–0.43
18		–	0.21–0.23	0.24–0.31	0.32–0.47	0.48–1.26	1.277–3.38	>3.38	3.38–1.27	1.26–0.48
–		1,50	0.22–0.25	0.26–0.33	0.34–0.5	0.51–1.34	1.35–3.59	>3.59	3.59–1.35	1.34–0.51
16		–	0.24–0.26	0.27–0.35	0.36–0.53	0.54–1.41	1.42–3.8	>3.80	3.8–1.42	1.41–0.54
–		1,75	0.26–0.29	0.3–0.38	0.39–0.59	0.6–1.56	1.57–4.19	>4.19	4.19–1.57	1.56–0.6
14		–	0.27–0.3	0.31–0.4	0.41–0.61	0.62–1.62	1.63–4.34	>4.34	4.34–1.63	1.62–0.62
13		–	0.29–0.32	0.33–0.43	0.44–0.66	0.67–1.74	1.75–4.68	>4.68	4.68–1.75	1.74–0.67
–		2,00	0.3–0.33	0.34–0.44	0.45–0.67	0.68–1.78	1.79–4.79	>4.79	4.79–1.79	1.78–0.68
12		–	0.32–0.35	0.36–0.46	0.47–0.71	0.72–1.89	1.9–5.07	>5.07	5.07–1.9	1.89–0.72
11.5		–	0.33–0.37	0.38–0.49	0.5–0.74	0.75–1.97	1.98–5.29	>5.29	5.29–1.98	1.97–0.75
11		–	0.34–0.38	0.39–0.51	0.52–0.78	0.79–2.06	2.07–5.53	>5.53	5.53–2.07	2.06–0.79
–		2,50	0.37–0.42	0.43–0.55	0.56–0.84	0.85–2.23	2.24–5.98	>5.98	5.98–2.24	2.23–0.85
10		–	0.38–0.42	0.43–0.56	0.57–0.86	0.87–2.27	2.28–6.08	>6.08	6.08–2.28	2.27–0.87
9		–	0.42–0.47	0.48–0.62	0.63–0.95	0.96–2.52	2.53–6.75	>6.75	6.75–2.53	2.52–0.96
–		3,00	0.45–0.5	0.51–0.66	0.67–1.02	1.03–2.68	2.69–7.18	>7.18	7.18–2.69	2.68–1.03
8		–	0.47–0.53	0.54–0.7	0.71–1.08	1.09–2.84	2.85–7.6	>7.60	7.6–2.85	2.84–1.09
–		3,50	0.52–0.59	0.6–0.77	0.78–1.19	1.2–3.13	3.14–8.38	>8.38	8.38–3.14	3.13–1.2
7		–	0.524–0.61	0.62–0.8	0.81–1.23	1.24–3.25	3.26–8.68	>8.68	8.68–3.26	3.25–1.24
–		4,00	0.6–0.67	0.68–0.89	0.9–1.36	1.37–3.58	3.59–9.57	>9.57	9.57–3.59	3.58–1.37
6		–	0.63–0.71	0.72–0.94	0.95–1.44	1.45–3.79	3.8–10.13	>10.13	10.13–3.8	3.79–1.45
–		5,00	0.75–0.84	0.85–1.11	1.12–1.7	1.71–4.48	4.49–11.97	>11.97	11.97–4.49	4.48–1.71
5		–	0.76–0.86	0.87–1.13	1.14–1.73	1.74–4.55	4.56–12.16	>12.16	12.16–4.56	4.55–1.74
4.5		–	0.84–0.95	0.96–1.26	1.27–1.92	1.93–5.06	5.07–13.51	>13.51	13.51–5.07	5.06–1.93
–		6,00	0.9–1.01	1.02–1.33	1.34–2.04	2.05–5.37	5.38–14.36	>14.36	14.36–5.38	5.37–2.05
4		–	0.95–1.07	1.08–1.41	1.42–2.16	2.17–5.69	5.7–15.2	>15.20	15.2–5.7	5.69–2.17
inclination angle			4.5	3.5	2.5	1.5	0.5	0.0	-0.5	-1.5
			standard helix (feed toward the chuck)						reverse helix (feed away from the chuck)	

Se lo spessore consigliato è differente dallo spessore fornito con il portautensili, ordinare lo spessore separatamente.
NOTA: Ottimizzate le operazioni di filettatura utilizzando l'angolo di avanzamento in profondità adatto e i valori di avanzamento in profondità consigliati.
Vedere la sezione tecnica alle pagine D88–D110.
Vedere anche le informazioni dettagliate per la scelta dello spessore alle pagine D109–D110.

Passo 5 • Selezionare qualità e velocità

Consigli sulla selezione della qualità e della velocità — m/min

	materiale del pezzo	P	M	K	N	S
Kenna Perfect™	stile inserto	CB rompitruciolo			CB rompitruciolo	
	condizioni di taglio ottimali	**KC5010** 70–260	**KC5010** 90–245	**KC5010** 60–245	**KC5010** 90–550	**KC5010** 30–150
	prima scelta	**KC5025** 50–230	**KC5025** 75–230	**KC5025** 50–180	**KC5025** 60–455	**KC5025** 20–120
Kenna Universal™	stile inserto	-K rompitruciolo				
	selezione	**KU25T** 45–210	**KU25T** 70–205	**KU25T** 45–160	**KU25T** 55–410	**KU25T** 20–110

NOTA: Vedere la panoramica degli inserti per filettatura a pagina D50.

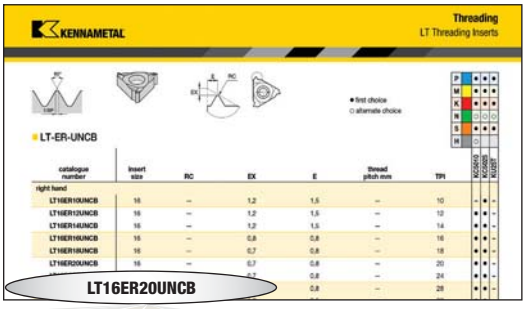
Velocità iniziali consigliate [m/min]

Gruppo materiali		KC5010			KC5025			KU25T		
P	0–1	135	**200**	260	105	**165**	230	95	**150**	210
	2	130	**190**	245	100	**150**	200	90	**135**	180
	3	105	**155**	200	75	**125**	170	70	**115**	155
	4	70	**120**	160	60	**95**	130	55	**85**	115
	5	105	**155**	200	75	**130**	170	70	**115**	155
	6	70	**120**	160	50	**90**	130	45	**80**	115
M	1	120	**180**	245	90	**170**	230	80	**155**	205
	2	90	**165**	210	75	**140**	200	70	**125**	180
	3	90	**165**	210	75	**135**	200	70	**120**	180
K	1	120	**180**	245	90	**135**	180	80	**120**	160
	2	90	**150**	210	70	**120**	170	65	**110**	155
	3	60	**105**	150	50	**85**	120	45	**75**	110
N	1–2	150	**365**	550	120	**305**	455	110	**275**	410
	3	90	**135**	180	60	**105**	150	55	**95**	135
	4	120	**305**	455	100	**200**	305	90	**180**	275
	5	90	**165**	245	70	**135**	195	65	**120**	175
	6	120	**210**	305	100	**170**	245	90	**155**	220
S	1	30	**70**	105	20	**40**	60	20	**35**	55
	2	30	**65**	100	20	**35**	45	20	**30**	40
	3	30	**65**	100	20	**35**	45	20	**30**	40
	4	55	**105**	150	45	**85**	120	40	**75**	110
H	1	30	**45**	60	–	**–**	–	–	**–**	–
	2	15	**30**	45	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–
	4	–	**–**	–	–	**–**	–	–	**–**	–

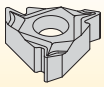
NOTA: Le velocità iniziali di PRIMA scelta sono in **grassetto.**

Come utilizzare i codici del catalogo

Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento, unitamente alle figure corrispondenti, consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



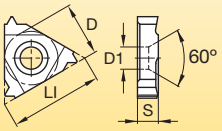
LT
Tipo di inserto



LT = Filettatura Laydown triangolare

16
Lunghezza tagliente (dimensioni)

dimensione inserto	LI (mm)	D (mm)	S (mm)	D1 (mm)
11	11,0	6,35	3,20	3,25
16	16,5	9,52	3,63	3,94
22	22,0	12,70	4,78	4,88



ER
Lato dell'inserto

ER = Destro esterno

EL = Sinistro esterno

NR = Destro interno

NL = Sinistro interno

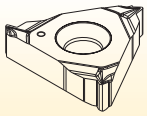
20
Passo del filetto

profilo parziale		
designazione	**passo di filettatura (mm)**	**TPI**
A	0,50–1,5	48–16
AG	0,50–3,0	48–8
G	1,75–3,0	14–8
N	3,50–5,0	7–5
profilo completo		
TPI reale o passo in mm designato	0,5–4,0	48–8

UN
Profilo del filetto

ISO = ISO in sistema metrico 60°
UN = UN American 60°
60 = Profilo parziale a 60° senza cresta
55 = Profilo parziale a 55° senza cresta
W = Whitworth 55°
BSPT = Filetto per tubi British Standard 55°
NPT = Filetto per tubi American National 60°
ACME = American Acme
STACME = American Stub Acme
TR = Trapez DIN 103
RD = Tondo DIN 405
UNJ = Raggio di fondo controllato a 60°
NPTF = Tenuta a secco 60°
API = Filetti American Petroleum Institute
BUT = Involucro esterno Buttress API
APIRD = API tondo

CB
Controllo del truciolo



☐ = Spoglia superiore piana

CB = Rompitruciolo

K = Rompitruciolo Kenna Universal™

Il vantaggio di LT Kennametal

In ogni confezione di 10 inserti sono incluse, senza costi aggiuntivi, una chiave Torx e una vite di serraggio di ricambio, tranne nel caso degli inserti LT-K.

tipo			profilo del filetto	standard	classe di tolleranza	con cresta	applicazione	pagina/e
CB	K	spoglia superiore piana						
LT-60CB	LT-60K	LT-60	Profilo parziale a 60°	—	—	N	Uso generico per forme di filetto a 60° (come, ad esempio, ISO e UN), ove si desiderino inserti senza cresta per tagliare in un'ampia gamma di passi.	D53–D54, D66–D67
LT-ISOCB	LT-ISOK	LT-ISO	ISO in sistema metrico	ISO R262, DIN 13	6g/6H	S	Forma a V in sistema metrico a 60° largamente utilizzata per tutti i settori.	D57–D58, D70–D71
LT-UNCB	LT-UNK	LT-UN	UN American	ANSI B1.1:74	2A/2B	S	Forma a V in pollici a 60° largamente utilizzata per tutti i settori.	D62–D63, D74–D75
		LT-UNJ	UNJ	MIL-S-8879C	3A/3B	S	Raggio di fondo controllato su filetti esterni per i settori dell'industria militare e aerospaziale, con forma di filetto a 60°.	D63, D75
LT-NPTCB		LT-NPT	NPT	USAS B2.1:1968	Standard NPT	S	Forma del filetto a 60° standard National Pipe Thread per raccordi per tubature.	D59, D72
LT-NPTFCB		LT-NPTF	NPTF	ANSI B1.20.3-1976	Classe 2	S	Forma di filetto a 60° NPT con tenuta a secco per raccordi per tubature.	D60, D72
	LT-55K	LT-55	Profilo parziale a 55°	—	—	N	Uso generico per forme di filetto a 55°, ad esempio Whitworth, BSW e BSP, ove si desiderino inserti senza cresta per tagliare in un'ampia gamma di passi.	D52, D65–D66
		LT-BSPT	BSPT	BS 21:1985	Standard BSPT	S	Forma a 55° per raccordi per tubature.	D56, D69
LT-WCB	LT-WK	LT-W	Whitworth, BSW, BSF, BSP	BS 84:1956, ISO 228/1:1985, DIN 259	Medio classe A	S	Forma a 55° ampiamente utilizzata per raccordi per gas e acqua.	D64–D65, D76
		LT-API	Connessioni a spallamento con rotazione API	API SPEC. 7:1990	Standard API	S	Forma a V a 60° utilizzata per raccordi per tubature a spallamento con rotazione nei settori industriali del petrolio e del gas, comprendente le forme V 0,038R, V 0,040 e V 0,050.	D55, D68
		LT-APIRD	API tondo	API STD. 5B:1979	Standard API RD	S	forma a 60° con raggio grande per strutture esterne, tubazioni e condutture nei settori industriali del petrolio e del gas, incluse forme tonde da 8 e da 10.	D55, D69
		LT-BUT	Involucro esterno Buttress API	API SPEC. 7:1990	Standard API	S	Forma tipo Buttress a 45° utilizzata per raccordi di strutture esterne per condotti nei settori industriali del petrolio e del gas.	D56, D69
		LT-ACME	Acme	ANSI B1.5:1988	3G	N	Forma di filetto troncato a 29° per applicazioni mobili in un'ampia gamma di settori.	D54, D68
		LT-STACME	Stub Acme	ANSI B1.8:1988	2G	N	Forma di filetto troncato a 29° a bassa profondità per applicazioni mobili in un'ampia gamma di settori.	D61, D73
		LT-RD	Rotonda	DIN 405	7h/7H	S	Forma di filetto tondo per raccordi per tubature nei settori chimico e alimentare.	D60, D73
		LT-TR	Trapez	DIN 103	7e/7H	N	Forma di filetto tarata sul sistema metrico e troncata a 30° per applicazioni mobili.	D61, D73

Kennametal sul Web

kennametal.com

TROVARE LE PIÙ RECENTI INFORMAZIONI DI PRODOTTO

Che si tratti di tornitura, fresatura o foratura, i marchi Kennametal rappresentano l'utensileria ad elevate prestazioni di cui avete bisogno. Offriamo soluzioni standard e personalizzate per un'ampia gamma di applicazioni.

Trovare informazioni aggiornate sulle campagne e sui cataloghi.

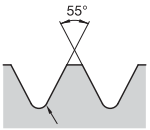
Registrarsi su Konnect per avere la funzionalità completa del sito web di Kennametal per l'ordinazione online.

CONTATTATECI

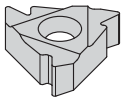
I nostri clienti sono importanti per noi. Desideriamo offrirvi il miglior servizio clienti del settore. Inviateci i vostri commenti o le vostre domande. Cercheremo di rispondere a tutte le richieste entro 24 ore.

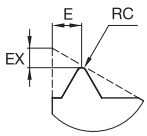
TROVARE IL PARTNER DI DISTRIBUZIONE AUTORIZZATO PIÙ VICINO

Kennametal offre prodotti e servizi di prim'ordine in tutto il mondo. I nostri distributori ci conoscono bene e, ciò che più importa, conoscono bene anche voi. Sanno meglio di chiunque altro in questo settore come mettere le potenzialità di Kennametal al servizio del vostro settore, nella vostra area e per la vostra azienda.



Profilo parziale a 55° esterno





● prima scelta
○ scelta alternativa

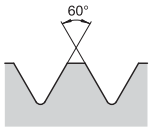
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

LT-ER/L-55

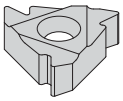
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ERA55	16	0,05	0,8	0,89	0,50-1,50	16-48	–	●	–
LT16ERAG55	16	0,08	1,2	1,70	0,50-3,00	8-48	●	●	–
16ERG55	16	0,20	1,2	1,70	1,75-3,00	8-14	–	●	–
LT22ERN55	22	0,43	1,7	2,49	3,50-5,00	5-7	–	●	–
sinistro									
LT16ELAG55	16	0,08	1,2	1,70	0,50-3,00	8-48	–	●	–

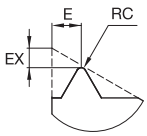
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



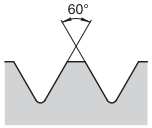
Profilo parziale a 60° esterno



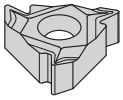


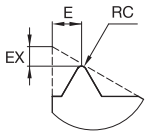
LT-ER/L-60

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ERA60	16	0,05	0,8	0,9	0,50-1,50	16-48	●	●	–
16ERAG60	16	0,08	1,2	1,7	0,50-3,0	8-48	–	●	–
LT16ERAG60	16	0,08	1,2	1,7	0,50-3,0	8-48	●	–	–
LT16ERG60	16	0,28	1,2	1,7	1,75-3,0	8-14	●	●	–
LT22ERN60	22	0,53	1,7	2,5	3,5-5,0	5-7	–	●	–
sinistro									
LT16ELA60	16	0,05	0,8	0,9	0,50-1,50	16-48	–	●	–
LT16ELAG60	16	0,08	1,2	1,7	0,50-3,0	8-48	–	●	–
LT16ELG60	16	0,28	1,2	1,7	1,75-3,0	8-14	–	●	–
LT22ELN60	22	0,53	1,7	2,5	3,5-5,0	5-7	–	●	–



Profilo parziale a 60° esterno



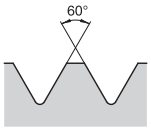


LT-ER-60CB

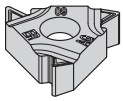
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ERAG60CB	16	0,08	0,9	1,5	0,50-3,0	8-48	●	●	–

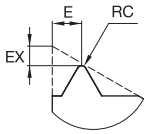
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



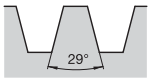
Profilo parziale a 60° esterno



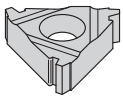


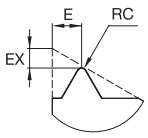
LT-ER-60K

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ERAG60K	16	0,08	1,2	1,7	0,50-3,0	8-48	–	–	●



Acme External



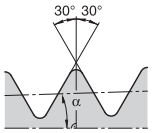


LT-ER/L-ACME

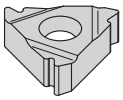
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER10ACME	16	–	1,3	1,40	–	10	–	●	–
LT16ER12ACME	16	–	1,1	1,19	–	12	–	●	–
LT16ER16ACME	16	–	1,0	1,09	–	16	–	●	–
LT16ER8ACME	16	–	1,4	1,50	–	8	–	●	–
LT22ER5ACME	22	–	2,0	2,29	–	5	–	●	–
LT22ER6ACME	22	–	1,8	2,11	–	6	–	●	–

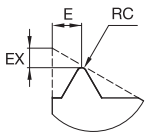
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



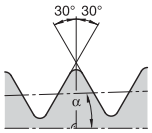
Raccordi per spallamento a rotazione API-esterno
α = 1/2 arctan (TPF/12)



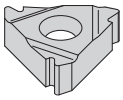


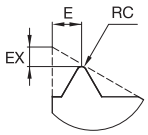
LT-ER/L-API

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT22ER4API382	22	–	2,1	2,79	–	4	–	●	–
LT22ER4API502	22	–	2,0	2,90	–	4	●	●	–
LT22ER4API503	22	–	2,0	2,90	–	4	●	–	–
LT22ER5API403	22	–	1,8	2,60	–	5	●	–	–
LT27ER4API502	28	0,64	2,0	2,79	–	4	–	●	–
LT27ER4API382	28	0,97	2,0	2,79	–	4	–	●	–



API tondo-esterno



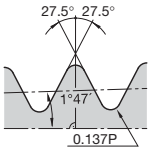


LT-ER/L-APIRD

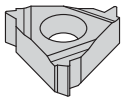
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER10APIRD	16	–	1,2	1,40	–	10	–	●	–
LT16ER8APIRD	16	–	1,3	1,50	–	8	–	●	–
sinistro									
LT16EL8APIRD	16	–	1,3	1,50	–	8	–	●	–

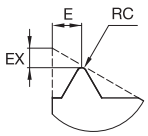
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



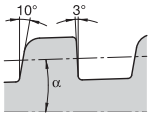
BSPT-esterno



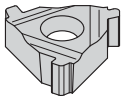


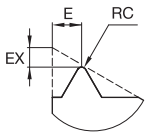
LT-ER/L-BSPT

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER11BSPT	16	–	1,1	1,50	–	11	–	●	–
LT16ER14BSPT	16	–	1,0	1,19	–	14	–	●	–



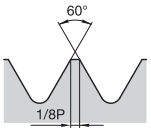
Struttura esterna Buttress API-esterno
α = 1/2 arctan (TPF/12)



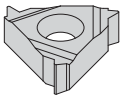


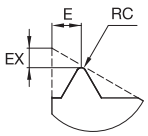
LT-ER/L-BUT

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT22ER5BUT75	22	–	3,1	1,91	–	5	–	●	–



Metrica ISO esterna



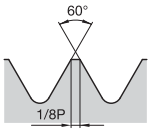


● prima scelta
○ scelta alternativa

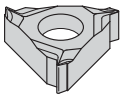
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

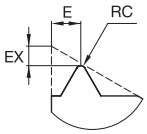
LT-ER/L-ISO

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER05ISO	16	–	0,6	0,4	0,50	–	–	●	–
LT16ER075ISO	16	–	0,6	0,6	0,75	–	–	●	–
LT16ER10ISO	16	–	0,7	0,7	1,0	–	●	●	–
LT16ER125ISO	16	–	0,8	0,9	1,25	–	●	●	–
LT16ER15ISO	16	–	0,8	1,0	1,5	–	●	●	–
LT16ER175ISO	16	–	0,9	1,2	1,75	–	●	●	–
LT16ER20ISO	16	–	1,0	1,3	2,0	–	●	●	–
LT16ER25ISO	16	–	1,1	1,5	2,5	–	●	●	–
LT16ER30ISO	16	–	1,2	1,6	3,0	–	●	●	–
LT22ER35ISO	22	–	1,6	2,3	3,5	–	–	●	–
LT22ER40ISO	22	–	1,6	2,3	4,0	–	–	●	–
LT22ER45ISO	22	–	1,7	2,4	4,5	–	–	●	–
LT22ER50ISO	22	–	1,7	2,5	5,0	–	–	●	–
sinistro									
LT16EL15ISO	16	–	0,8	1,0	1,5	–	●	●	–
LT16EL175ISO	16	–	0,9	1,2	1,75	–	–	●	–
LT16EL20ISO	16	–	1,0	1,3	2,0	–	–	●	–
LT16EL25ISO	16	–	1,1	1,5	2,5	–	–	●	–
LT16EL30ISO	16	–	1,2	1,6	3,0	–	–	●	–
LT16EL05ISO	16	–	0,6	0,4	0,50	–	–	●	–
LT16EL075ISO	16	–	0,6	0,6	0,75	–	–	●	–
LT16EL10ISO	16	–	0,7	0,7	1,0	–	–	●	–
LT16EL125ISO	16	–	0,8	0,9	1,25	–	–	●	–
LT22EL35ISO	22	–	1,6	2,3	3,5	–	–	●	–



Metrica ISO esterna





● prima scelta
○ scelta alternativa

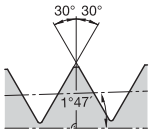
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

LT-ER-ISOCB

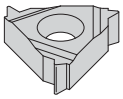
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER05ISOCB	16	–	1,2	0,5	0,50	–	●	●	–
LT16ER075ISOCB	16	–	1,2	0,6	0,75	–	●	●	–
LT16ER10ISOCB	16	–	0,7	0,8	1,0	–	●	●	–
LT16ER125ISOCB	16	–	0,7	0,8	1,25	–	●	●	–
LT16ER15ISOCB	16	–	0,7	0,8	1,5	–	●	●	–
LT16ER175ISOCB	16	–	1,2	1,5	1,75	–	●	●	–
LT16ER20ISOCB	16	–	1,2	1,5	2,0	–	●	●	–
LT16ER25ISOCB	16	–	1,2	1,5	2,5	–	–	●	–
LT16ER30ISOCB	16	–	1,3	1,5	3,0	–	●	●	–

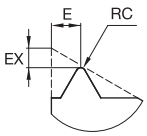
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



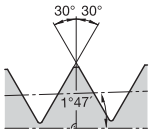
NPT esterno



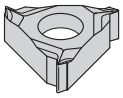


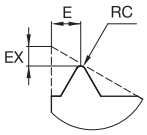
LT-ER/L-NPT

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER115NPT	16	–	1,1	1,5	–	11.5	●	●	–
LT16ER14NPT	16	–	0,9	1,2	–	14	●	●	–
LT16ER18NPT	16	–	0,8	1,0	–	18	●	●	–
LT16ER27NPT	16	–	0,7	0,8	–	27	–	●	–
LT16ER8NPT	16	–	1,3	1,8	–	8	–	●	–



NPT esterno



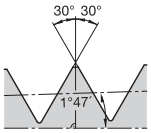


LT-ER-NPTCB

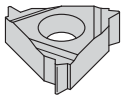
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER14NPTCB	16	–	1,1	1,5	–	14	●	●	–

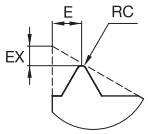
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



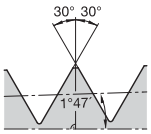
NPTF esterno



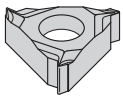


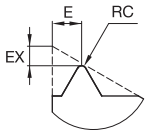
LT-ER/L-NPTF

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER115NPTF	16	–	1,1	1,5	–	11.5	–	●	–
LT16ER14NPTF	16	–	0,9	1,2	–	14	–	●	–



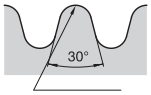
NPTF esterno



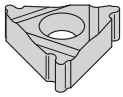


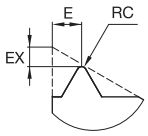
LT-ER-NPTFCB

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER115NPTFCB	16	–	1,1	1,5	–	11.5	–	●	–



Tondo esterno



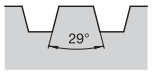


LT-ER/L-RD

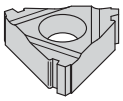
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER8RD	16	0,76	1,4	1,30	–	8	–	●	–
LT22ER6RD	22	1,01	1,5	1,70	–	6	–	●	–

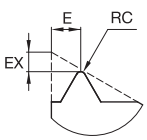
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



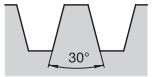
Stub Acme-esterno



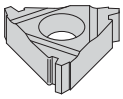


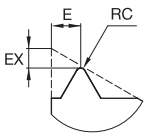
LT-ER/L-STACME

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER10STACME	16	–	1,2	1,30	–	10	–	●	–
LT16ER12STACME	16	–	1,2	1,19	–	12	–	●	–
LT16ER16STACME	16	–	1,0	0,99	–	16	–	●	–
LT16ER6STACME	16	–	1,7	1,80	–	6	–	●	–
LT16ER8STACME	16	–	1,4	1,50	–	8	–	●	–
LT22ER5STACME	22	–	2,1	2,29	–	5	–	●	–



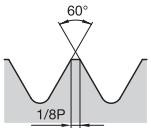
Trapez-esterno



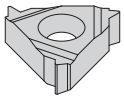


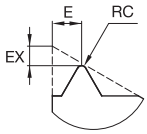
LT-ER/L-TR

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER2TR	16	–	1,1	1,30	2,0	–	–	●	–
LT16ER3TR	16	–	1,3	1,50	3,0	–	–	●	–
LT22ER4TR	22	–	1,7	1,91	4,0	–	–	●	–
LT22ER5TR	22	–	2,1	2,50	5,0	–	–	●	–



UN American esterna





P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

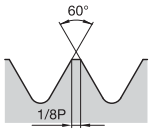
● prima scelta
○ scelta alternativa

LT-ER/L-UN

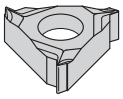
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER10UN	16	–	1,1	1,5	–	10	–	●	–
LT16ER12UN	16	–	1,1	1,4	–	12	●	●	–
LT16ER14UN	16	–	1,0	1,2	–	14	●	●	–
LT16ER16UN	16	–	0,9	1,1	–	16	●	●	–
LT16ER18UN	16	–	0,8	1,0	–	18	●	●	–
LT16ER20UN	16	–	0,8	0,9	–	20	●	●	–
LT16ER24UN	16	–	0,7	0,8	–	24	●	●	–
LT16ER28UN	16	–	0,6	0,7	–	28	●	●	–
LT16ER32UN	16	–	0,6	0,6	–	32	●	●	–
LT16ER36UN	16	–	0,6	0,6	–	36	–	●	–
LT16ER40UN	16	–	0,6	0,6	–	40	–	●	–
LT16ER48UN	16	–	0,6	0,6	–	48	–	●	–
LT16ER8UN	16	–	1,2	1,6	–	8	–	●	–
sinistro									
LT16EL24UN	16	–	0,7	0,8	–	24	–	●	–
LT16EL28UN	16	–	0,6	0,7	–	28	–	●	–
LT16EL8UN	16	–	1,2	1,6	–	8	–	●	–
LT16EL12UN	16	–	1,1	1,4	–	12	–	●	–
LT16EL14UN	16	–	1,0	1,2	–	14	–	●	–
LT16EL16UN	16	–	0,9	1,1	–	16	–	●	–
LT16EL18UN	16	–	0,8	1,0	–	18	–	●	–
LT16EL20UN	16	–	0,8	0,9	–	20	–	●	–

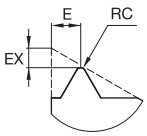
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



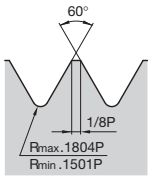
UN American esterna



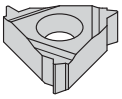


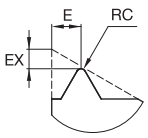
LT-ER-UNCB

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER10UNCB	16	–	1,2	1,5	–	10	–	●	–
LT16ER12UNCB	16	–	1,2	1,5	–	12	●	●	–
LT16ER14UNCB	16	–	1,2	1,5	–	14	●	●	–
LT16ER16UNCB	16	–	0,8	0,8	–	16	●	●	–
LT16ER18UNCB	16	–	0,7	0,8	–	18	●	●	–
LT16ER20UNCB	16	–	0,7	0,8	–	20	●	●	–
LT16ER24UNCB	16	–	0,7	0,8	–	24	●	●	–
LT16ER28UNCB	16	–	0,7	0,8	–	28	●	●	–
LT16ER32UNCB	16	–	1,2	0,5	–	32	●	●	–
LT16ER8UNCB	16	–	1,3	1,5	–	8	●	●	–



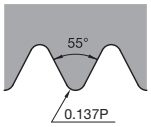
UNJ-esterno



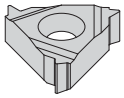


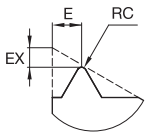
LT-ER/L-UNJ

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER12UNJ	16	–	1,1	1,3	–	12	●	●	–
LT16ER14UNJ	16	–	1,0	1,2	–	14	●	●	–
LT16ER16UNJ	16	–	0,9	1,1	–	16	●	●	–
LT16ER18UNJ	16	–	0,8	1,0	–	18	●	●	–
LT16ER20UNJ	16	–	0,8	0,9	–	20	●	●	–
LT16ER24UNJ	16	–	0,7	0,8	–	24	–	●	–
LT16ER28UNJ	16	–	0,7	0,7	–	28	–	●	–
LT16ER32UNJ	16	–	0,6	0,7	–	32	–	●	–
sinistro									
LT16EL16UNJ	16	–	0,9	1,1	–	16	–	●	–



Whitworth
BSW, BSF, BSP-
interno





● prima scelta
○ scelta alternativa

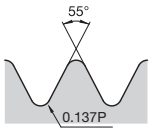
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

LT-ER/L-W

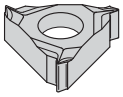
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER10W	16	–	1,1	1,50	–	10	–	●	–
LT16ER11W	16	–	1,1	1,50	–	11	●	●	–
LT16ER12W	16	–	1,1	1,40	–	12	–	●	–
LT16ER14W	16	–	1,0	1,19	–	14	●	●	–
LT16ER16W	16	–	0,9	1,09	–	16	–	●	–
LT16ER18W	16	–	0,8	0,99	–	18	–	●	–
LT16ER19W	16	–	0,8	0,99	–	19	●	●	–
LT16ER20W	16	–	0,8	0,89	–	20	–	●	–
LT16ER24W	16	–	0,7	0,79	–	24	–	●	–
LT16ER28W	16	–	0,6	0,69	–	28	–	●	–
LT16ER8W	16	–	1,2	1,50	–	8	–	●	–
LT16ER9W	16	–	1,2	1,70	–	9	–	●	–
LT22ER6W	22	–	1,6	2,29	–	6	–	●	–
LT22ER7W	22	–	1,6	2,29	–	7	–	●	–
sinistro									
LT16EL11W	16	–	1,1	1,50	–	11	–	●	–
LT16EL14W	16	–	1,0	1,19	–	14	–	●	–

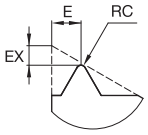
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



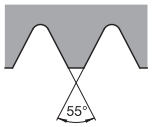
Whitworth
BSW, BSF, BSP-
esterno



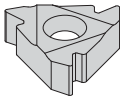


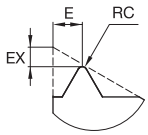
LT-ER-WCB

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16ER11WCB	16	–	1,3	1,50	–	11	–	●	–
LT16ER14WCB	16	–	1,3	1,50	–	14	●	●	–



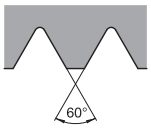
Profilo parziale a
55° interno



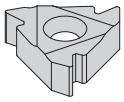


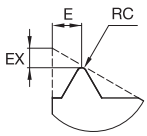
LT-NR/L-55

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NRA55	11	0,05	0,8	0,89	0,50-1,50	16-48	–	●	–
LT16NRA55	16	0,05	0,8	0,89	0,50-1,50	16-48	–	●	–
LT16NRAG55	16	0,07	1,2	1,70	0,50-3,0	8-48	–	●	–
LT16NRG55	16	0,21	1,2	1,70	1,75-3,0	8-14	–	●	–
LT22NRN55	22	0,43	1,7	2,49	3,5-5,0	5-7	–	●	–



Profilo parziale a 60° interno





● prima scelta
○ scelta alternativa

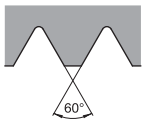
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

LT-ER/L-60

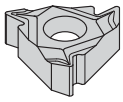
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NRA60	11	0,05	0,8	0,9	0,50-1,5	48-16	●	●	–
LT16NRA60	16	0,05	0,8	0,9	0,50-1,5	48-16	●	●	–
LT16NRAG60	16	0,05	1,2	1,7	0,50-3,0	48-8	●	●	–
LT16NRG60	16	0,15	1,2	1,7	1,75-3,0	14-8	●	●	–
LT22NRN60	22	0,31	1,7	2,5	3,5-5,0	7-5	–	●	–
sinistro									
LT11NLA60	11	0,05	0,8	0,9	0,50-1,5	48-16	–	●	–
LT16NLA60	16	0,05	0,8	0,9	0,50-1,5	48-16	–	●	–
LT16NLAG60	16	0,05	1,2	1,7	0,50-3,0	48-8	–	●	–
LT16NLG60	16	0,15	1,2	1,7	1,75-3,0	14-8	–	●	–
LT22NLN60	22	0,31	1,7	2,5	3,5-5,0	7-5	–	●	–

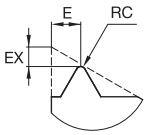
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



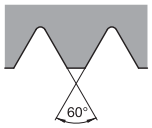
Profilo parziale a 60° interno



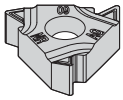


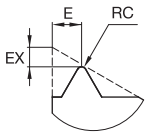
LT-NR-60CB

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NRA60CB	11	0,05	0,6	0,8	0,50-1,50	48-16	–	●	–
LT16NRAG60CB	16	0,05	0,9	1,5	0,50-3,0	48-8	–	●	–
LT16NRG60CB	16	0,16	1,0	1,5	1,75-3,0	14-8	–	●	–



Profilo parziale a 60° interno



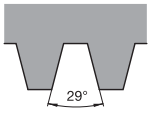


LT-NR-60K

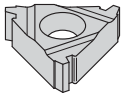
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16NRAG60K	16	0,04	1,2	1,7	0,50-3,0	48-8	–	–	●

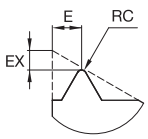
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



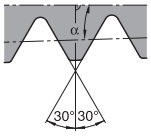
Acme interno



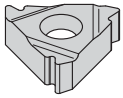


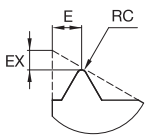
LT-NR/L-ACME

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16NR10ACME	16	–	1,2	1,30	–	10	–	●	–
LT16NR12ACME	16	–	1,2	1,30	–	12	–	●	–
LT16NR8ACME	16	–	1,4	1,50	–	8	–	●	–
LT22NR5ACME	22	–	2,0	2,29	–	5	–	●	–
LT22NR6ACME	22	–	1,8	2,11	–	6	–	●	–



Raccordi per spallamento a rotazione API-interno
α = 1/2 arctan (TPF/12)



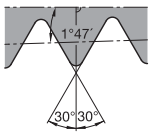


LT-NR/L-API

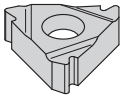
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT22NR4API382	22	–	2,1	2,79	–	4	–	●	–
LT22NR4API502	22	–	2,1	3,10	–	4	–	●	–
LT22NR5API403	22	–	1,8	2,60	–	5	–	●	–
LT27NR4API502	28	0,65	2,0	3,79	–	4	–	●	–
LT27NR4API382	28	0,99	2,0	2,79	–	4	–	●	–

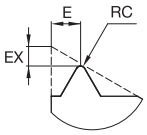
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



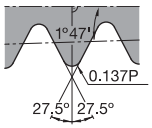
API tondo-interno



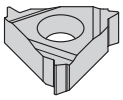


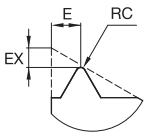
LT-NR/L-APIRD

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16NR10APIRD	16	–	1,2	1,40	–	10	–	●	–
LT16NR8APIRD	16	–	1,3	1,50	–	8	–	●	–



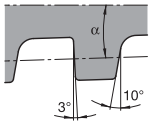
BSPT-interno



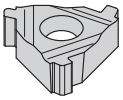


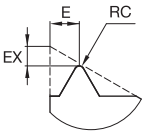
LT-NR/L-BSPT

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR14BSPT	11	–	0,9	0,99	–	14	–	●	–
LT16NR11BSPT	16	–	1,1	1,50	–	11	–	●	–
LT16NR14BSPT	16	–	1,0	1,19	–	14	–	●	–



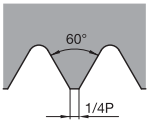
Struttura
esterna Buttress
API-interno
α = 1/2 arctan
(TPF/12)



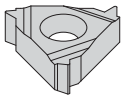


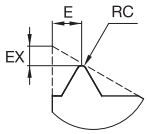
LT-NR/L-BUT

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT22NR5BUT1	22	–	2,8	1,91	–	5	–	●	–
LT22NR5BUT75	22	–	2,8	1,91	–	5	–	●	–



Metrica ISO interna



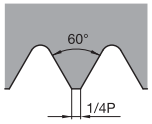


P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

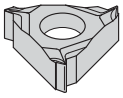
● prima scelta
○ scelta alternativa

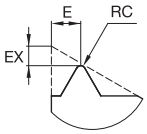
LT-NR/L-ISO

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR05ISO	11	–	0,6	0,4	0,50	–	–	●	–
LT11NR075ISO	11	–	0,6	0,6	0,75	–	–	●	–
LT11NR10ISO	11	–	0,6	0,7	1,0	–	–	●	–
LT11NR125ISO	11	–	0,8	0,9	1,25	–	–	●	–
LT11NR15ISO	11	–	0,8	1,0	1,5	–	●	●	–
LT11NR175ISO	11	–	0,9	1,1	1,75	–	–	●	–
LT11NR20ISO	11	–	0,9	1,1	2,0	–	–	●	–
LT16NR05ISO	16	–	0,6	0,4	0,50	–	–	●	–
LT16NR075ISO	16	–	0,6	0,6	0,75	–	–	●	–
LT16NR10ISO	16	–	0,6	0,7	1,0	–	●	●	–
LT16NR125ISO	16	–	0,8	0,9	1,25	–	–	●	–
LT16NR15ISO	16	–	0,8	1,0	1,5	–	●	●	–
LT16NR175ISO	16	–	0,9	1,2	1,75	–	–	●	–
LT16NR20ISO	16	–	1,0	1,3	2,0	–	●	●	–
LT16NR25ISO	16	–	1,1	1,5	2,5	–	–	●	–
LT16NR30ISO	16	–	1,1	1,5	3,0	–	●	●	–
LT22NR35ISO	22	–	1,6	2,3	3,5	–	–	●	–
LT22NR40ISO	22	–	1,6	2,3	4,0	–	–	●	–
LT22NR45ISO	22	–	1,6	2,4	4,5	–	–	●	–
LT22NR50ISO	22	–	1,6	2,3	5,0	–	–	●	–
sinistro									
LT11NL15ISO	11	–	0,8	1,0	1,5	–	–	●	–
LT11NL10ISO	11	–	0,6	0,7	1,0	–	–	●	–
LT16NL30ISO	16	–	1,1	1,5	3,0	–	–	●	–
LT16NL10ISO	16	–	0,6	0,7	1,0	–	–	●	–
LT16NL15ISO	16	–	0,8	1,0	1,5	–	–	●	–
LT16NL20ISO	16	–	1,0	1,3	2,0	–	–	●	–
LT16NL25ISO	16	–	1,1	1,5	2,5	–	–	●	–



Metrica ISO interna





● prima scelta
○ scelta alternativa

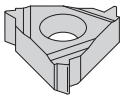
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

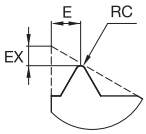
LT-NR-ISOCB

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR075ISOCB	11	–	1,2	0,5	0,75	–	–	●	–
LT11NR10ISOCB	11	–	0,7	0,8	1,0	–	–	●	–
LT11NR125ISOCB	11	–	0,7	0,8	1,25	–	–	●	–
LT11NR15ISOCB	11	–	0,7	0,8	1,5	–	–	●	–
LT16NR10ISOCB	16	–	0,7	0,8	1,0	–	–	●	–
LT16NR15ISOCB	16	–	0,7	0,8	1,5	–	–	●	–
LT16NR20ISOCB	16	–	1,1	1,5	2,0	–	–	●	–
LT16NR25ISOCB	16	–	1,1	1,5	2,5	–	–	●	–

		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

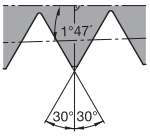
● prima scelta
○ scelta alternativa



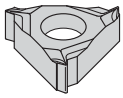


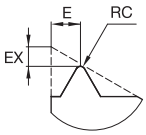
LT-NR/L-NPT

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR14NPT	11	–	0,8	1,0	–	14	●	●	–
LT11NR18NPT	11	–	0,8	1,0	–	18	–	●	–
LT16NR115NPT	16	–	1,1	1,5	–	11.5	●	●	–
LT16NR14NPT	16	–	0,9	1,2	–	14	–	●	–
LT16NR8NPT	16	–	1,3	1,8	–	8	–	●	–



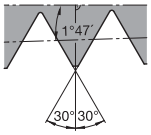
NPT interna



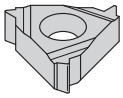


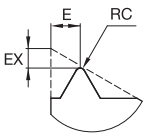
LT-NR-NPTCB

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16NR115NPTCB	16	–	1,1	1,5	–	11.5	–	●	–
LT16NR14NPTCB	16	–	1,4	1,2	–	14	–	●	–



NPT interna



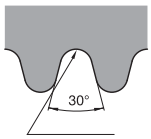


LT-NR/L-NPTF

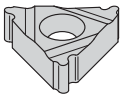
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR14NPTF	11	–	0,8	0,99	–	14	–	●	–
LT16NR14NPTF	16	–	0,9	1,19	–	14	–	●	–

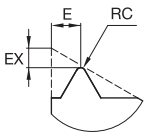
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



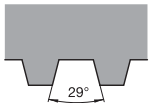
API tondo-interno



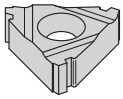


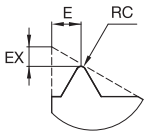
LT-NR/L-RD

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16NR8RD	16	0,70	1,4	1,40	–	8	–	●	–
LT22NR6RD	22	0,93	1,5	1,70	–	6	–	●	–



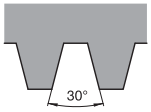
Stub Acme-interno



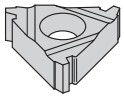


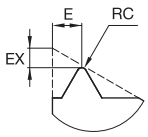
LT-NR/L-STACME

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16NR10STACME	16	–	1,2	1,30	–	10	–	●	–
LT16NR12STACME	16	–	1,1	1,19	–	12	–	●	–
LT16NR14STACME	16	–	1,1	1,09	–	14	–	●	–
LT16NR16STACME	16	–	1,0	0,99	–	16	–	●	–
LT16NR6STACME	16	–	1,7	1,80	–	6	–	●	–
LT16NR8STACME	16	–	1,4	1,50	–	8	–	●	–



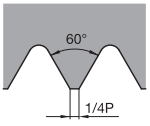
Trapez-interno



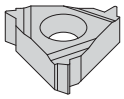


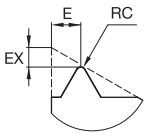
LT-NR/L-TR

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16NR2TR	16	–	1,1	1,30	2,0	–	–	●	–
LT16NR3TR	16	–	1,3	1,50	3,0	–	–	●	–
LT22NR4TR	22	–	1,7	1,91	4,0	–	–	●	–
LT22NR5TR	22	–	2,1	2,50	5,0	–	–	●	–



UN
American interna





● prima scelta
○ scelta alternativa

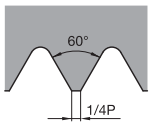
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

LT-NR/L-UN

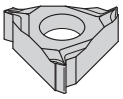
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR16UN	11	–	0,9	1,1	–	16	●	●	–
LT11NR18UN	11	–	0,8	1,0	–	18	–	●	–
LT11NR20UN	11	–	0,8	0,9	–	20	–	●	–
LT11NR24UN	11	–	0,7	0,8	–	24	–	●	–
LT11NR28UN	11	–	0,6	0,7	–	28	–	●	–
LT11NR32UN	11	–	0,6	0,6	–	32	–	●	–
LT11NR40UN	11	–	0,6	0,6	–	40	–	●	–
LT16NR10UN	16	–	1,1	1,5	–	10	–	●	–
LT16NR12UN	16	–	1,1	1,4	–	12	●	●	–
LT16NR14UN	16	–	0,9	1,2	–	14	–	●	–
LT16NR16UN	16	–	0,9	1,1	–	16	–	●	–
LT16NR18UN	16	–	0,8	1,0	–	18	–	●	–
LT16NR20UN	16	–	0,8	0,9	–	20	–	●	–
LT16NR24UN	16	–	0,7	0,8	–	24	–	●	–
LT16NR28UN	16	–	0,6	0,7	–	28	–	●	–
LT16NR32UN	16	–	0,6	0,6	–	32	–	●	–
LT16NR8UN	16	–	1,1	1,5	–	8	–	●	–
sinistro									
LT11NL32UN	11	–	0,6	0,6	–	32	–	●	–
LT16NL10UN	16	–	1,1	1,5	–	10	–	●	–
LT16NL12UN	16	–	1,1	1,4	–	12	–	●	–
LT16NL16UN	16	–	0,9	1,1	–	16	–	●	–

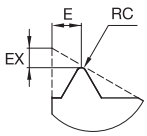
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



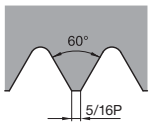
UN American interna



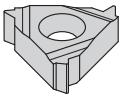


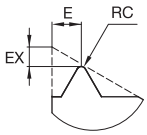
LT-NR-UNCB

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR16UNCB	11	–	0,7	0,8	–	16	–	●	–
LT11NR18UNCB	11	–	0,6	0,8	–	18	–	●	–
LT11NR20UNCB	11	–	0,6	0,8	–	20	–	●	–
LT11NR24UNCB	11	–	0,7	0,8	–	24	–	●	–
LT11NR32UNCB	11	–	1,2	0,5	–	32	–	●	–
LT16NR10UNCB	16	–	1,1	1,5	–	10	–	●	–
LT16NR12UNCB	16	–	1,1	1,5	–	12	–	●	–
LT16NR14UNCB	16	–	1,1	1,5	–	14	–	●	–
LT16NR16UNCB	16	–	0,7	0,8	–	16	–	●	–
LT16NR18UNCB	16	–	0,6	0,8	–	18	–	●	–
LT16NR20UNCB	16	–	0,7	0,6	–	20	–	●	–
LT16NR8UNCB	16	–	1,1	1,5	–	8	–	●	–



UNJ interna



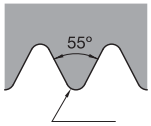


LT-NR/L-UNJ

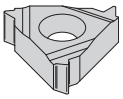
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR14UNJ	11	–	1,0	1,2	–	14	–	●	–
LT11NR16UNJ	11	–	0,9	1,1	–	16	–	●	–
LT11NR18UNJ	11	–	0,8	1,0	–	18	–	●	–
LT16NR12UNJ	16	–	1,1	1,3	–	12	–	●	–
LT16NR16UNJ	16	–	0,9	1,1	–	16	–	●	–

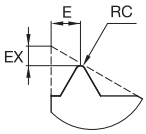
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● prima scelta
○ scelta alternativa



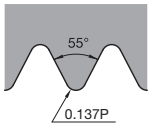
Whitworth
BSW, BSP-interno



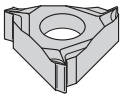


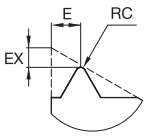
LT-NR/L-W

codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT11NR14W	11	–	0,9	1,09	–	14	–	●	–
LT11NR19W	11	–	0,8	0,99	–	19	–	●	–
LT16NR10W	16	–	1,1	1,50	–	10	–	●	–
LT16NR11W	16	–	1,1	1,50	–	11	●	●	–
LT16NR12W	16	–	1,1	1,40	–	12	–	●	–
LT16NR14W	16	–	1,0	1,19	–	14	–	●	–
LT16NR16W	16	–	0,9	1,09	–	16	–	●	–
LT16NR19W	16	–	0,8	0,99	–	19	–	●	–
LT16NR20W	16	–	0,8	0,89	–	20	–	●	–
LT16NR8W	16	–	1,2	1,50	–	8	–	●	–
LT22NR7W	22	–	1,6	2,29	–	7	–	●	–
sinistro									
LT16NL11W	16	–	1,1	1,50	–	11	–	●	–



Whitworth
BSW, BSP-interno





LT-NR-WCB

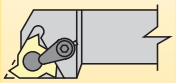
codice catalogo	dimensione inserto	RC	EX	E	passo del filetto mm	TPI	KC5010	KC5025	KU25T
destro									
LT16NR11WCB	16	–	1,3	1,50	–	11	–	●	–
LT16NR14WCB	16	–	1,3	1,50	–	14	–	●	–

Come utilizzare i codici del catalogo

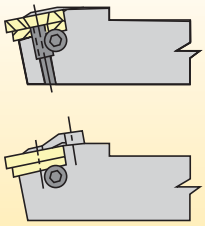
Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento, unitamente alle figure corrispondenti, consentono di identificare facilmente le caratteristiche attribuibili al prodotto.

L	S	AS	R		2525M	16	
Tipo inserto	Sistema di fissaggio inserto	Tipo di utensile	Lato dell'utensile	Testina di caduta	Dimensione codolo	Dimensione inserto	Superficie e lunghezza qualificate

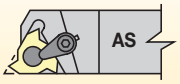
L —
Laydown triangolare



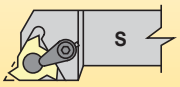
S —
Solo staffa o vite dell'inserto



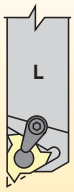
Codolo cilindrico



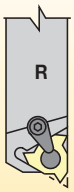
Codolo offset

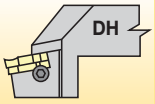


Sinistro



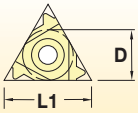
Destro





Sistema metrico:
Altezza e larghezza codolo in mm; lunghezza portautensili secondo lo standard ISO.

La dimensione coincide con il numero di incrementi di 1/8 di pollice dell'IC.



pollici dimensione inserto	sistema metrico dimensione inserto	D mm	L1 mm
2	11	6,4	11,0
3	16	9,5	16,5
4	22	12,7	22,0

C —
retro ed estremità qualificati, 5" di lunghezza

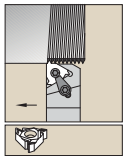
D —
retro ed estremità qualificati, 6" di lunghezza

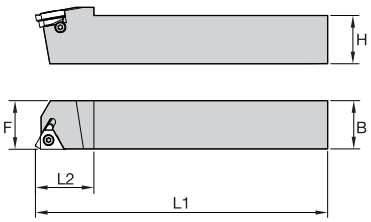
E —
retro ed estremità qualificati, 7" di lunghezza

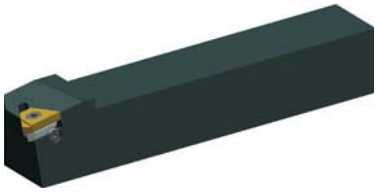
T —
retro ed estremità qualificati, 3.25" di lunghezza

Q —
supporto metrico qualificato

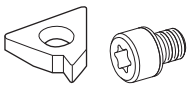
NOTA: I portautensili con dimensioni di codolo primario maggiori di 1/2" o 12 mm vengono forniti con staffa e vite di inserto.
Fissare l'inserto con la staffa oppure con la vite di inserto. Non usare entrambi i sistemi.
Per il sistema di numerazione del catalogo degli spessori per filettatura, vedere a pagina D80.



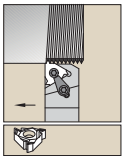


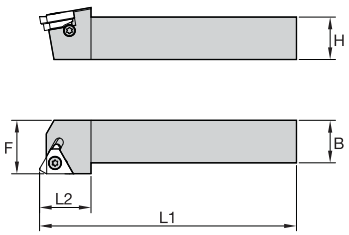


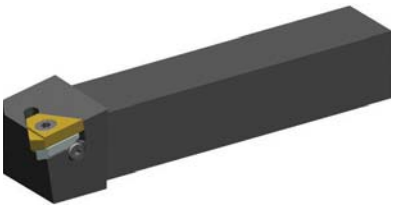
LSA



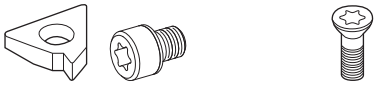
numero d'ordine	codice catalogo	H	B	F	L1	inserto di riferimento	supporto	vite supporto	Torx	Torx	vite inserto	Torx
destro												
1136965	**LSASR1212N16**	12	12	16	85	LT16ER	**—**	**—**	—	—	**SSA3T**	T10
1136984	**LSASR1616H16**	16	16	16	100	LT16ER	**SMYE3**	**SSY3T**	T10	T15	**SSA3T**	T10
1136992	**LSASR2020K16**	20	20	20	125	LT16ER	**SMYE3**	**SSY3T**	T10	T15	**SSA3T**	T10
1137000	**LSASR2525M16**	25	25	25	150	LT16ER	**SMYE3**	**SSY3T**	T10	T15	**SSA3T**	T10
1137007	**LSASR2525M22**	25	25	25	150	LT22ER	**SMYE4**	**SSY4T**	T20	T20	**SSA4T**	T20
1125454	**LSASR3232P16**	32	32	32	170	LT16ER	**SMYE3**	**SSY3T**	T10	T15	**SSA3T**	T10
1611931	**LSASR3232P22**	32	32	32	170	LT22ER	**SMYE4**	**SSY4T**	T20	T20	**SSA4T**	T20
sinistro												
1136926	**LSASL1212N16**	12	12	16	85	LT16EL	**—**	**—**	—	—	**SSA3T**	T10
1136935	**LSASL1616H16**	16	16	16	100	LT16EL	**SMYI3**	**SSY3T**	T10	T15	**SSA3T**	T10
1136943	**LSASL2020K16**	20	20	20	125	LT16EL	**SMYI3**	**SSY3T**	T10	T15	**SSA3T**	T10
1136951	**LSASL2525M16**	25	25	25	150	LT16EL	**SMYI3**	**SSY3T**	T10	T15	**SSA3T**	T10
1136959	**LSASL2525M22**	25	25	25	150	LT22EL	**SMYI4**	**SSY4T**	T20	T20	**SSA4T**	T20



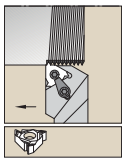


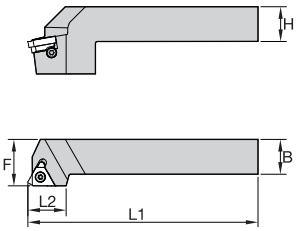


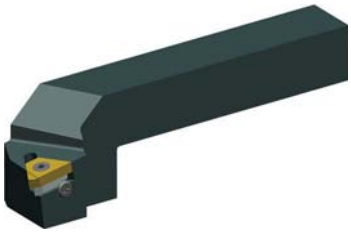
LSS



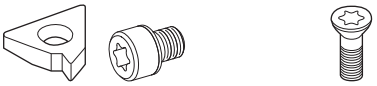
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	Torx	vite inserto	Torx
destro												
1137054	**LSSR2020K16Q**	20	20	25	125	25	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1137063	**LSSR2525M16Q**	25	25	32	150	25	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1137069	**LSSR2525M22Q**	25	25	32	150	30	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1611933	**LSSR3232P16Q**	32	32	40	170	32	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1611935	**LSSR3232P22Q**	32	32	40	170	30	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
sinistro												
1192325	**LSSL2020K16Q**	20	20	25	125	25	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1137022	**LSSL2525M16Q**	25	25	32	150	25	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1137029	**LSSL2525M22Q**	25	25	32	150	30	LT22EL	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1611934	**LSSL3232P16Q**	32	32	40	170	32	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10







LSS-DH



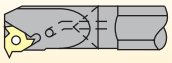
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	supporto	vite supporto	Torx	vite inserto	Torx
destro												
1174502	**LSSRDH2020K16Q**	20	20	25	125	38	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1611938	**LSSRDH2525M16**	25	25	32	150	38	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1137036	**LSSRDH2525M22Q**	25	25	32	150	38	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
sinistro												
1611939	**LSSLDH2525M16**	25	25	32	150	38	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10

Come utilizzare i codici del catalogo

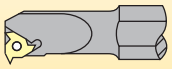
Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento, unitamente alle figure corrispondenti, consentono di identificare facilmente le caratteristiche attribuibili al prodotto.

E — Tipo di barra

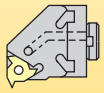
E — Metallo duro con refrigerante



S — Codolo in acciaio senza refrigerante

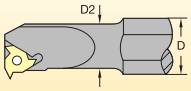


H — Testa intercambiabile con refrigerante

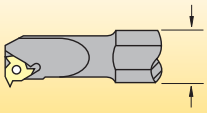


16 — Diametro della barra primaria con riduzione per codolo

Diametro in sistema metrico in mm.



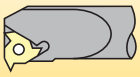
Diametro in mm.



Diametro barra secondaria (di montaggio)

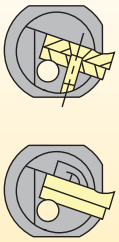
L — Tipo inserto

L — Laydown triangolare



S — Sistema di fissaggio inserto

S — Solo staffa o vite dell'inserto

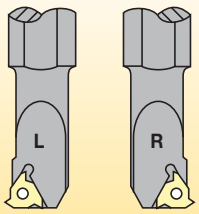


E — Tipo di bareno

Montaggio estremità tagliente

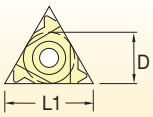
R — Lato dell'-utensile

Sinistro Destro



16 — Dimen-sione inserto

La dimensione coincide con il numero di incrementi di 1/8 di pollice dell'IC.



pollici dimensione inserto	sistema metrico dimensione inserto	D mm	L1 mm
2	11	6,4	11,0
3	16	9,5	16,5
4	22	12,7	22,0

Spessore filettatura LT - Sistema di numerazione del catalogo

SM — Sottoplacchetta

Y — Spessore per inserti LT standard

E — Inserto per filettatura

E = Esterno
I = Interno

3 — Dimensione inserto

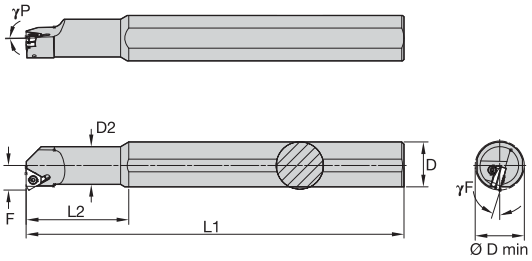
Valore D in 1/8"

2P — Angolo spessore

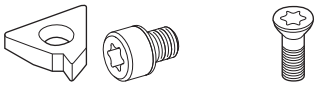
2P = 2º positivo
1P = 1º positivo
— = 0º neutrale
1N = 1º negativo
2N = 2º negativo
3N = 3º negativo

Per gli spessori e i kit di spessori, vedere le pagine D109–D110.

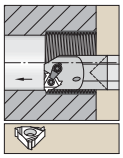
Codolo in acciaio con refrigerante interno.



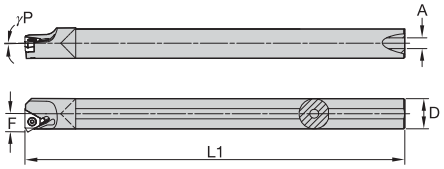
A-LSE



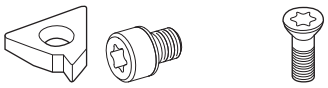
numero d'ordine	codice catalogo	D	D min	D2	F	L1	L2	γF°	γP°	inserto di riferimento	supporto	vite supporto	Torx	vite inserto	Torx
destro															
1131468	**A1020LSER11**	20	13	–	7,3	180	25	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1131481	**A1320LSER11**	20	16	–	8,9	180	32	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1612581	**A1320LSER16**	20	17	–	10,3	180	32	-15.0	-1.5	LT16NR	**–**	**–**	–	**SSA3T**	T10
1798921	**A1616LSER16**	16	20	16,0	11,3	150	32	-15.0	-1.5	LT16NR	**–**	**–**	–	**SSA3T**	T10
1131509	**A1620LSER16**	20	20	–	11,7	180	36	-15.0	-1.5	LT16NR	**–**	**–**	–	**SSA3T**	T10
1131524	**A2020LSER16**	20	24	20,0	13,4	180	40	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1131547	**A2525LSER16**	25	29	–	16,1	200	45	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1131566	**A2525LSER22**	25	32	–	17,2	200	45	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1612584	**A2020LSER22**	20	27	20,0	15,6	180	50	-15.0	-1.5	LT22NR	**–**	**–**	–	**SSA4T**	T20
1131574	**A2532LSER16**	32	29	–	16,3	250	60	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1131582	**A2532LSER22**	32	32	–	17,4	250	60	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1612587	**A3232LSER22**	32	39	32,0	21,5	250	60	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1798922	**A4040LSER22**	40	47	40,0	25,8	300	60	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1798920	**A1010LSER11**	10	13	10,0	7,3	100	100	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
sinistro															
1612586	**A2532LSEL16**	32	29	–	16,3	250	–	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1131458	**A1020LSEL11**	20	13	–	7,3	180	25	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1131476	**A1320LSEL11**	20	16	–	8,9	180	32	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1798980	**A1616LSEL16**	16	20	16,0	11,3	150	32	-15.0	-1.5	LT16NL	**–**	**–**	–	**SSA3T**	T10
1131499	**A1620LSEL16**	20	20	–	11,5	180	40	-15.0	-1.5	LT16NL	**–**	**–**	–	**SSA3T**	T10
1131516	**A2020LSEL16**	20	24	20,0	13,4	180	40	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1131532	**A2525LSEL16**	25	29	–	16,1	200	45	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1131540	**A2525LSEL22**	25	32	–	17,2	200	45	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1612585	**A2020LSEL22**	20	27	20,0	15,6	180	50	-15.0	-1.5	LT22NL	**–**	**–**	–	**SSA4T**	T20
1612588	**A3232LSEL22**	32	39	32,0	21,5	250	60	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1799093	**A4040LSEL22**	40	47	40,0	25,8	300	60	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1798979	**A1010LSEL11**	10	13	10,0	7,3	100	100	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8



Codolo in metallo duro con refrigerante interno.

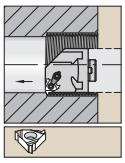


E-LSE

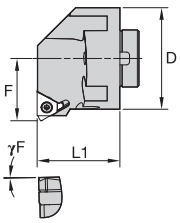


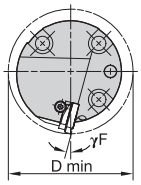
numero d'ordine	codice catalogo	D	D min	F	L1	A	γF°	γP°	inserto di riferimento	supporto	vite supporto	Torx	vite inserto	Torx
destro														
1152844	**E16RLSER16**	16	20	11,5	200,0	6	-15	-1.5	LT16NR	**–**	**–**	–	**SN3TPKG**	T10
1152846	**E20SLSER16**	20	24	13,4	250,0	7	-15	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1152848	**E25TLSER16**	25	29	15,8	300,0	8	-15	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10

NOTA: I prodotti elencati senza supporto sono progettati per un angolo di inclinazione di 1,5°.

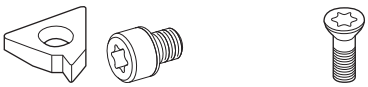


Con adduzione interna di refrigerante.



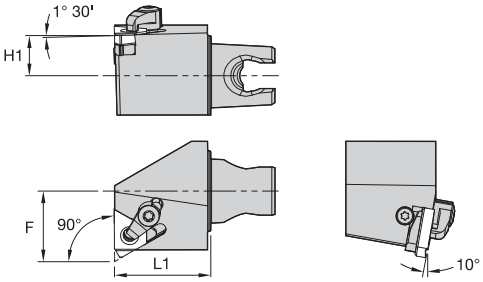


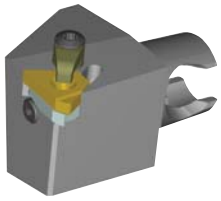
H-LSE



numero d'ordine	codice catalogo	D	D min	L1	F	γF°	γP°	inserto di riferimento	supporto	vite supporto	Torx	vite inserto	Torx
destro													
1095216	**H16LSER3**	25	30,5	41,3	16,4	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095218	**H20LSER3**	32	36,8	41,3	19,3	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095220	**H24LSER3**	38	44,7	41,3	22,5	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095224	**H24LSER4**	38	45,3	41,3	24,7	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1803997	**H40LSER22**	40	47,0	41,3	25,9	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1803995	**H50LSER16**	50	54,0	41,3	28,6	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1803999	**H50LSER22**	50	56,0	41,3	30,5	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
3842905	**H50LSER27**	50	58,0	41,3	31,4	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25
1095222	**H32LSER3**	51	61,0	41,3	32,4	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095226	**H32LSER4**	51	61,0	41,3	32,4	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
3842895	**H32LSER5**	51	61,0	41,3	32,5	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25
3842897	**H40LSER5**	64	77,0	41,3	38,9	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25

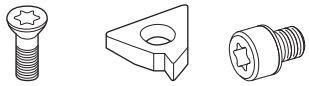
NOTA: Per gli adattatori per barenatura, vedere le pagine B386.



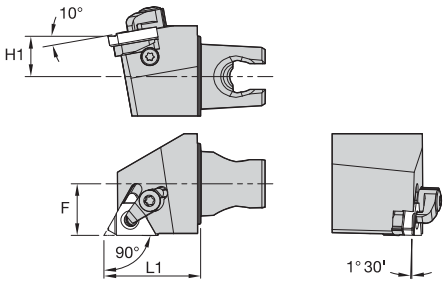


La staffa di bloccaggio raffigurato non è più disponibile.

LSE • Montaggio radiale

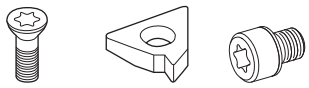


numero d'ordine	codice catalogo	L1	F	H1	inserto di riferimento	vite inserto	supporto	vite supporto
destro								
2399506	**KM25LSER1630**	30	22	12,5	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**
sinistro								
2399507	**KM25LSEL1630**	30	22	12,5	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**

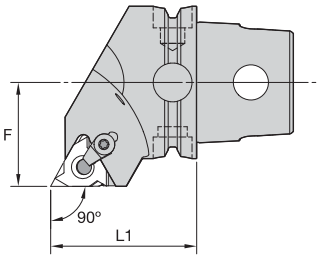


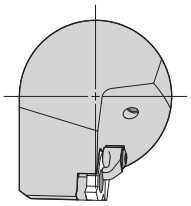
La staffa di bloccaggio raffigurato non è più disponibile.

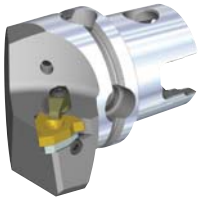
LSS • Montaggio laterale



numero d'ordine	codice catalogo	L1	F	H1	inserto di riferimento	vite inserto	supporto	vite supporto
destro								
2399504	**KM25LSSR1630**	30	16	12,5	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**
3176219	**KM25LSSR2230**	30	16	12,5	LT22ER	**SSA4T**	**SMYE4**	**SSY4T**
sinistro								
2399505	**KM25LSSL1630**	30	16	12,5	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**
3176220	**KM25LSSL2230**	30	16	12,5	LT22EL	**SSA4T**	**SMYI4**	**SSY4T**



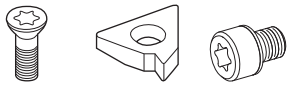




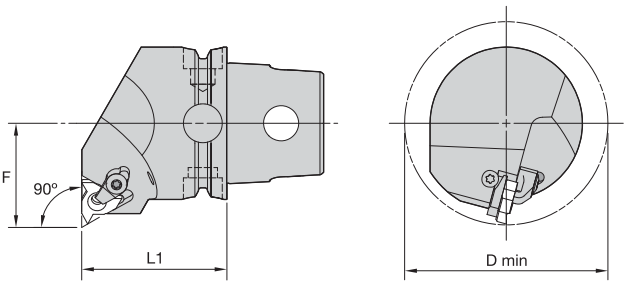
La staffa di bloccaggio raffigurato non è più disponibile.

KM™ QUICK CHANGE

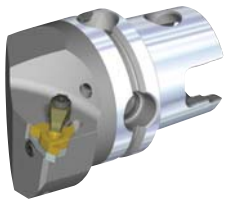
LSS 90°



numero d'ordine	codice catalogo	L1 mm	L1 pollici	F mm	F pollici	inserto di riferi-mento	vite inserto	supporto	vite supporto	kg	lbs
destro											
3950857	**KM40TSLSSR16**	40	1.575	27	1.063	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**	0,31	.68
3950858	**KM40TSLSSR22**	40	1.575	27	1.063	LT22ER	**SSA4T**	**SMYE4**	**SSY4T**	0,30	.66
3959401	**KM40TSLSSR27**	45	1.772	27	1.063	LT27ER	**SSA5T**	**SMYE5**	**SSY5T**	0,37	.82
sinistro											
3950855	**KM40TSLSSL16**	40	1.575	27	1.063	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**	0,32	.70
3950856	**KM40TSLSSL22**	40	1.575	27	1.063	LT22EL	**SSA4T**	**SMYI4**	**SSY4T**	0,31	.68
3959400	**KM40TSLSSL27**	45	1.772	27	1.063	LT27EL	**SSA5T**	**SMYI5**	**SSY5T**	0,37	.82

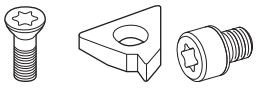


La staffa di bloccaggio raffigurato non è più disponibile.

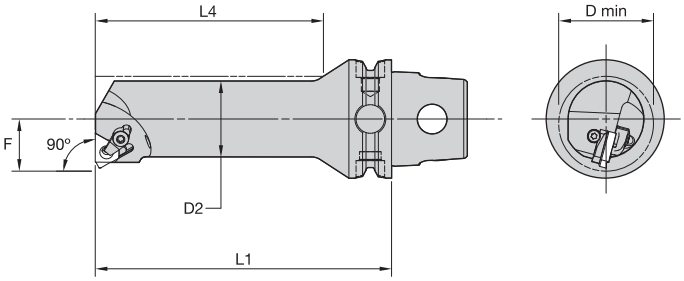


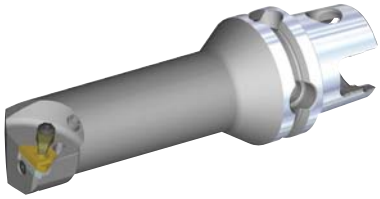
KM QUICK CHANGE

LSE-N 90° • Solo interna



numero d'ordine	codice catalogo	L1 mm	L1 pollici	F mm	F pollici	D min mm	D min pollici	inserto di riferimento	vite inserto	supporto	vite supporto	kg	lbs
destro													
3950832	**KM40TSLSER16N**	40	1.575	27	1.063	54	2.126	LT16NR	**SSA3T**	**SMYI3**	**SSY3T**	0,35	.77
3950854	**KM40TSLSER22N**	40	1.575	27	1.063	54	2.126	LT22NR	**SSA4T**	**SMYI4**	**SSY4T**	0,35	.77
3959399	**KM40TSLSER27N**	45	1.772	27	1.063	54	2.126	LT27NR	**SSA5T**	**SMYI5**	**SSY5T**	0,39	.86
sinistro													
3950831	**KM40TSLSEL16N**	40	1.575	27	1.063	54	2.126	LT16NL	**SSA3T**	**SMYE3**	**SSY3T**	0,35	.77





L'attrezzo di bloccaggio raffigurato non è più disponibile.

LSE 90°

numero d'ordine	codice catalogo	D2 mm	D2 pollici	D min mm	D min pollici	F mm	F pollici	L4 mm	L4 pollici	L1 mm	L1 pollici	inserto di riferimento	kg	lbs
destro														
3955464	**KM40TSS10DLSER11**	10	.39	13	.51	7	.276	35	1.38	60	2.362	LT11NR	0,22	.49
3955466	**KM40TSS12ELSER11**	12	.47	16	.63	9	.354	42	1.66	70	2.756	LT11NR	0,25	.56
3955468	**KM40TSS16FLSER16**	16	.63	20	.79	11	.433	56	2.21	80	3.150	LT16NR	0,28	.61
3955470	**KM40TSS20GLSER16**	20	.79	25	.98	13	.512	70	2.76	90	3.543	LT16NR	0,34	.75
3955472	**KM40TSS25HLSER16**	25	.98	32	1.26	17	.669	75	2.95	100	3.937	LT16NR	0,50	1.11
3955474	**KM40TSS32JLSER16**	32	1.26	40	1.57	22	.866	96	3.78	110	4.331	LT16NR	0,72	1.58
3955476	**KM40TSS32JLSER22**	32	1.26	40	1.57	22	.866	96	3.78	110	4.331	LT22NR	0,71	1.56
sinistro														
3955463	**KM40TSS10DLSEL11**	10	.39	13	.51	7	.276	35	1.38	60	2.362	LT11NL	0,22	.49
3955465	**KM40TSS12ELSEL11**	12	.47	16	.63	9	.354	42	1.65	70	2.756	LT11NL	0,25	.55
3955469	**KM40TSS20GLSEL16**	20	.79	25	.98	13	.512	70	2.76	90	3.543	LT16NL	0,34	.75
3955471	**KM40TSS25HLSEL16**	25	.98	32	1.26	17	.669	75	2.95	100	3.937	LT16NL	0,50	1.11
3955473	**KM40TSS32JLSEL16**	32	1.26	40	1.57	22	.866	96	3.78	110	4.331	LT16NL	0,72	1.58
3955475	**KM40TSS32JLSEL22**	32	1.26	40	1.57	22	.866	96	3.78	110	4.331	LT22NL	0,71	1.56

NOTA: Gli elementi elencati senza uno spessore sono progettati per un angolo di inclinazione da 1,5 °.

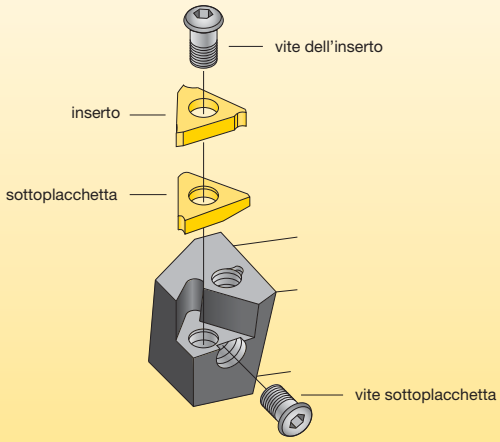
Parti di ricambio

codice catalogo	vite inserto	supporto	vite supporto
destro			
KM40TSS10DLSER11	**SSN2T**	**–**	**–**
KM40TSS12ELSER11	**SSN2T**	**–**	**–**
KM40TSS16FLSER16	**SN3TPKG**	**–**	**–**
KM40TSS20GLSER16	**SSA3T**	**SMYI3**	**SSY3T**
KM40TSS25HLSER16	**SSA3T**	**SMYI3**	**SSY3T**
KM40TSS32JLSER16	**SSA3T**	**SMYI3**	**SSY3T**
KM40TSS32JLSER22	**SSA4T**	**SMYI4**	**SSY4T**
sinistro			
KM40TSS10DLSEL11	**SSN2T**	**–**	**–**
KM40TSS12ELSEL11	**SSN2T**	**–**	**–**
KM40TSS20GLSEL16	**SSA3T**	**SMYE3**	**SSY3T**
KM40TSS25HLSEL16	**SSA3T**	**SMYE3**	**SSY3T**
KM40TSS32JLSEL16	**SSA3T**	**SMYE3**	**SSY3T**
KM40TSS32JLSEL22	**SSA4T**	**SMYE4**	**SSY4T**

Portautensili filettatura Laydown

In tutti i casi, è importante scegliere bene il supporto.

I portautensili Kennametal vengono forniti con uno spessore per un angolo di registrazione di 1,5°. Se il filetto differisce di più di 1°, è necessario cambiare supporto. Per maggiori dettagli sulla scelta dello spessore adatto, consultare le pagine D109–D110.



dimensione dell'inserto e vite	vite dell'inserto	sottoplacchetta	vite e rondella supporto
3ER	SS-A3T	SM-YIE3	SS-Y3T
3EL	SS-A3T	SM-YI3	SS-Y3T
4ER	SS-A4T	SM-YIE4	SS-Y4T
4EL	SS-A4T	SM-YI4	SS-Y4T
Bareni con filettatura Laydown			
2IR	SS-N2T	–	–
2IL	SS-N2T	–	–
3IR	SS-A3T	SM-YI3	SS-Y3T
3IL	SS-A3T	SM-YIE3	SS-Y3T
4IR	SS-A4T	SM-YI4	SS-Y4T
4IL	SS-A4T	SM-YIE4	SS-Y4T

SM	—	Y	E	3	—	2N
Sottoplacchetta		Supporto a Y per inserti standard Laydown	E — Esterno I — Interno	IC — 16mm		Angolo del supporto

2P	2º positivo
1P	1º positivo
–	0º
1N	1º negativo
2N	2º negativo
3N	3º negativo

angolo risultante		3.5°	2.5°	1.5°	0.5°	-0.5°	-1.5°
dimensione dell'inserto (IC)	portautensili	codice ordine supporto					
3/8"	es. RH/in. LH es. LH/in. RH	SM-YE3-2P SM-YI3-2P	SM-YE3-1P SM-YI3-1P	SM-YE3 SM-YI3	SM-YE3-1N SM-YI3-1N	SM-YE3-2N SM-YI3-2N	SM-YE3-3N SM-YI3-3N
1/2"	es. RH/in. LH es. LH/in. RH	SM-YE4-2P SM-YI4-2P	SM-YE4-1P SM-YI4-1P	SM-YE4 SM-YI4	SM-YE4-1N SM-YI4-1N	SM-YE4-2N SM-YI4-2N	SM-YE4-3N SM-YI4-3N

Kit supporti obliqui

Poiché occasionalmente può esservi necessità di spessori diversi da quelli in dotazione con i portautensili standard, si consiglia fortemente di tenere kit di spessori in pronta consegna presso ogni negozio di utensili.

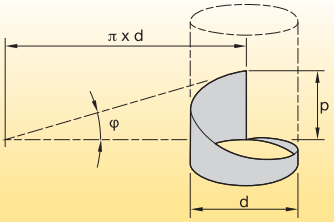
dimensione dell'inserto	dimensione del supporto (D)	codice ordine	contiene spessori inclinati
3x	3/8"	ABY3SET	SM-YE3-2P, 1P, 1N, 2N, 3N SM-YI3-2P, 1P, 1N, 2N, 3N
4x	1/2"	ABY4	SM-YE4-2P, 1P, 1N, 2N, 3N SM-YI4-2P, 1P, 1N, 2N, 3N

L'angolo dell'elica

Esempio:
d = 48,06mm (1.892")
p = 3,175mm (.125")

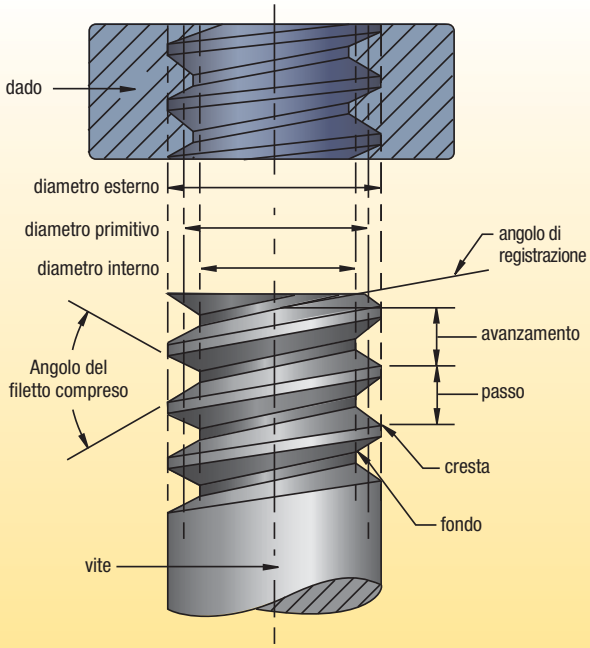
ϕ = Angolo dell'elica
p = passo
d = diametro primitivo

$$\phi = \arctan\left(\frac{p * \text{principi}}{\pi * \varnothing}\right) = 1.13°$$



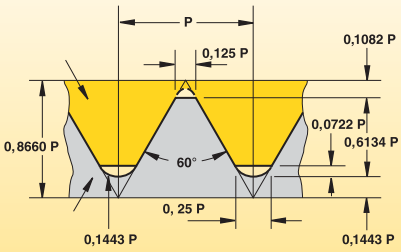
Definizioni filetto vite

1. **Diametro esterno** — Il diametro maggiore di un filetto a simmetria cilindrica. Questa definizione si applica sia alle filettature interne che a quelle esterne.
2. **Diametro primitivo** — Su un filetto a simmetria cilindrica, è il diametro che attraversa i profili del filetto in punti tali da rendere la larghezza della scanalatura uguale a metà del passo base. In una "filettatura perfetta", questo si verifica quando le ampiezze della filettatura e della scanalatura sono uguali.
3. **Angolo del filetto (compreso)** — L'angolo compreso tra i singoli fianchi della forma di filetto.
4. **Diametro minore** — Il diametro minore di un filetto a simmetria cilindrica. Questa definizione si applica sia alle filettature interne che a quelle esterne.
5. **Angolo di registrazione** — In un filetto a simmetria cilindrica, l'angolo di registrazione è l'angolo formato dall'elica del filetto in corrispondenza del diametro primitivo con un piano perpendicolare all'asse.
6. **Inclinazione** — La distanza percorsa assialmente dalla filettatura in una rotazione. In una singola rotazione completa, il passo e l'avanzamento sono identici. L'avanzamento è uguale al passo, moltiplicato il numero di rotazioni complete.
7. **Passo** — La distanza misurata tra il vertice del filetto e quello successivo misurato parallelamente all'asse del filetto.
8. **Cresta** — La superficie più esterna della forma del filetto che congiunge i fianchi.
9. **Fondo** — La superficie più interna della forma del filetto che congiunge i fianchi.



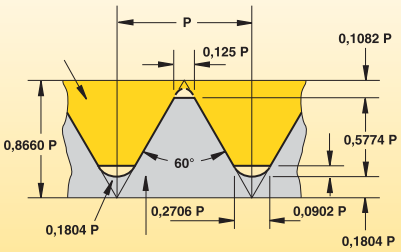
NOTA: Filetti per pollice (TPI) non indicati:
Il numero di filetti per pollice misurato in senso assiale.
I termini passo e TPI vengono spesso utilizzati come sinonimi. TPI = 1/passo

ISO M (metrico) e UN (Unified National)



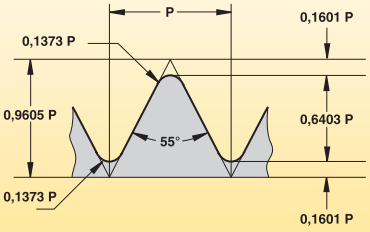
Utilizzo: Tutti i rami dell'industria meccanica

UNJ (raggio di fondo controllato)



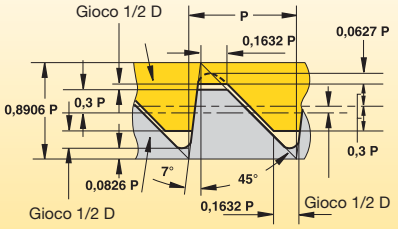
Utilizzo: Industria aeronautica e spaziale.

Whitworth (BSW)



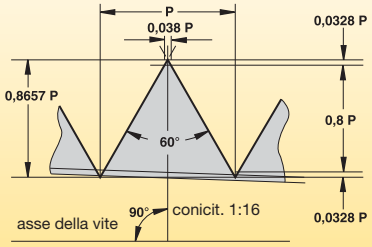
Utilizzo: Accessori e raccordi per tubi per gas, acqua e fognature (sostituito da ISO).

American Buttress



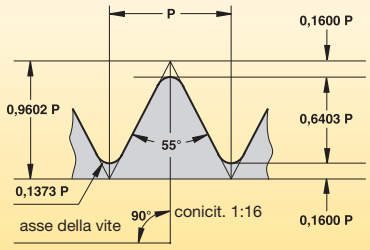
Utilizzo: Raccordi e accoppiamenti per tubature.

NPT (American National Pipe Thread)



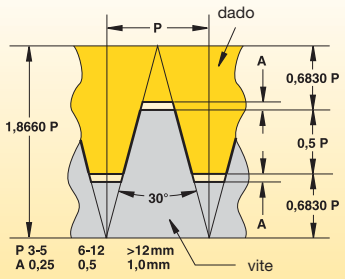
Utilizzo: Raccordi e accoppiamenti per tubature.

BSPT (British Standard Pipe Thread)



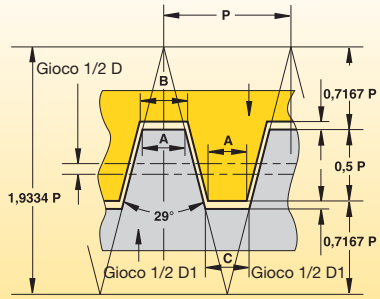
Utilizzo: Filetto delle tubature per linee di vapore, gas e acqua.

TR DIN 103



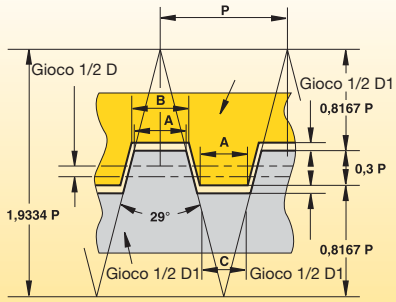
Utilizzo: Industria meccanica per le viti di trasmissione del moto.

Acme



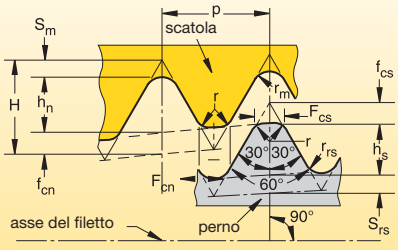
A = 0,0307 P
B = 0,3707 P—x D gioco
C = 0,3707 P—(D1 gioco—D2 gioco)
Uso: Acme-General viene usata nell'industria meccanica per le viti di trasmissione del moto.

Acme, tronca



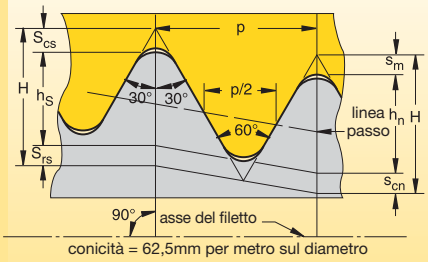
A = 0,4224 P
B = 0,4224 P—x D gioco
C = 0,4224 P—(D1 gioco—D2 gioco)
Uso: Per casi in cui l'Acme normale è troppo profonda.

Raccordo per spallamento a rotazione API



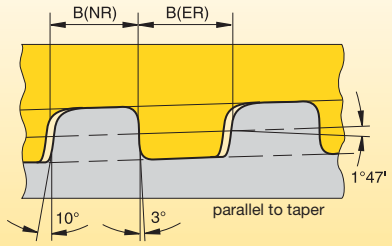
NOTA: Conicità esagerata a fini illustrativi

Forma del filetto tonda per alloggiamenti e tubazioni API



NOTA: Conicità esagerata a fini illustrativi

API Buttress

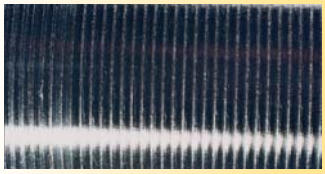


Qualità e velocità consigliate per la filettatura di diversi materiali

gruppo pezzi	materiale del pezzo	velocità superficiale raccomandata — m/min				
		non rivestito	rivestito PVD			
		K68	KC5010	KC5025	KC5410	KU25T
acciaio al carbonio ad alta lavorabilità	10L18, 10L45, 1213, 12L13, 12L14, 1140, 1141, 11L44, 1151, 10L50	—	91–198	45–198	—	91–137
acciaio al carbonio semplice	10063, 1008, 1010, 1015, 1018, 1020, 1025, 1026, 1108, 1117	—	76–198	45–175	—	76–122
acciai legati e acciai per utensili 150–325 HB (fino a 35 HRC)	1042, 1045, 1070, 1080, 1085, 1090, 1095, 1541, 1561, 1572, 5140, 8620, W1, O1, S1, P20, H13, D2, A6, H13, L6	—	76–198	38–167	—	73–122
acciai legati e acciai per utensili 330–450 HB (36–47 HRC)		—	61–160	—	—	61–106
martensitico/ferritico inossidabile/ad indurimento per precipitazione	416, 420F, 440F, 405, 409, 429, 430, 434, 436, 442, PH	—	45–160	30–122	—	24–61
acciaio inossidabile austenitico	201, 202, 301, 302, 303, 304, 304, 305, 321, 347, 348, 310, 314, 316, 316L, 330	61–106	61–198	46–137	—	24–106
ghisa grigia 135–270 HB	classe 20, 30, 35, 45	61–91	61–237	46–122	—	30–110
ghisa grigia 275–450 HB	classe 50, 55, 60	45–76	45–175	15–76	—	30–110
acciaio legato/dolce	A536, J434C, 60-40-18, 80-55-06, 100-70-03	45–76	45–198	30–160	—	30–110
leghe di alluminio ad alta lavorabilità	2024-T4, 2014-T6, 6061-T6 2011-T3, 3003-H18, A2, Alcan, Alcoa 510, Duralumin	122–244	122–365	—	152–457	30–305
leghe di alluminio ad alto contenuto di silicio	A380, A390, A380-1, A390-1, A380-2	—	—	—	—	—
rame/zinco/ottone		76–183	76–304	46–236	—	30–244
non metalliche	Grafite, nylon, materie plastiche, gomme, fenoli, carbonio	122–457	122–396	46–305	—	30–244
leghe resistenti al calore 125–269 HB (fino a 27 HRC)	Nichel 200, Monel, R405, Monel K500, INCONEL 600, INCONEL® 625/901x750/718, Waspaloy, Hastelloy C	24–37	24–122	13–76	—	11–85
leghe resistenti al calore 260–450 HB (26–47 HRC)	Rene 95, Waspaloy A286, Incoloy 800, Haynes 188, Stellite F, Haynes 25	24–30	30–76	6–61	—	11–61
leghe di titanio	Ti-6Al-4V, TI-5Al-2.5Sn	34–55	34–99	—	—	11–76

NOTA: Quando la durezza del pezzo è al massimo della gamma, il valore di SFM iniziale deve essere al minimo. Ispezionare con regolarità le staffe di inserto per rilevare eventuali piani usurati.

Preparazione del tagliente:
Non rivestito — affilatura
Rivestito in PVD — onatura leggera, eccetto spoglia superiore positiva, affilatura spoglia superiore

problema	causa	possibile soluzione
filetto con finitura strappata 	• Bavature. • Finitura strappata. • Fasi. • Spessore improprio. • Alimentazione scorretta	• Utilizzare un avanzamento in profondità con fianco modificato. • Utilizzare un inserto a profilo completo. • Aumentare la concentrazione del refrigerante • Aumentare velocità di taglio. • Verificare l'asse di corsa macchina "Z". • Controllare la forma dell'inserto. • Verificare la correttezza del supporto nel sistema LT. • Calcolare la spoglia del fianco.
vibrazioni	• Rigidità insufficiente. • Movimento dell'inserto. • Alimentazione scorretta. • Fuori asse.	• Utilizzare un avanzamento in profondità con fianco modificato. • Ridurre al minimo la lunghezza dell'utensile. • Verificare un'eventuale flessione del pezzo. • Controllare inserto e staffa. • Verificare che la posizione di taglio dell'utensile risulti sulla linea centrale del pezzo. • Regolare il numero di passate. Meno passate riducono il chatter.
tagliente di riporto	• Velocità troppo bassa. • Refrigerante insufficiente • Carica trucioli	• Aumentare velocità di taglio. • Aumentare la concentrazione e/o la portata del refrigerante. • Correggere l'angolo di alimentazione • Aumentare la profondità di taglio per passata.
deformazione	• Qualità errata. • Velocità eccessiva. • Angolo di alimentazione scorretto. • Refrigerante insufficiente.	• Utilizzare un avanzamento in profondità con fianco modificato. • Utilizzare una qualità più resistente all'usura (ad es., KC5010™). • Ridurre velocità di taglio. • Aumentare il flusso di refrigerante.
scheggiatura	• Alimentazione scorretta. • Carica trucioli. • Qualità errata. • Velocità errata. • Rigidità insufficiente.	• Utilizzare un avanzamento in profondità con fianco modificato. • Aumentare o diminuire il numero di passate. • Eliminare le passate a salto. • Utilizzare una qualità più tenace (ad es., KC5025™). • Aumentare velocità di taglio se vi sono scheggiature sul bordo di uscita. • Ridurre velocità di taglio se vi sono scheggiature sul bordo di entrata. • Ridurre al minimo la lunghezza dell'utensile. • Controllare eventuali movimenti dell'inserto/controllare la staffa. Vite di torsione o bloccaggio per correggere il valore. • Verificare un'eventuale flessione della parte. • Calcolare la spoglia del fianco. • Controllare che vi sia lo spessore corretto.
punta rotta	• Forte carica trucioli. • Raggio piccolo di punta. • Qualità errata. • Alimentazione scorretta	• Utilizzare un avanzamento in profondità con fianco modificato. • Ridurre la carica trucioli. • Utilizzare un raggio di punta ampio, se possibile. • Utilizzare una qualità più tenace (ad es. KC5025).
Usura del fianco	• Spessore improprio. • Qualità errata. • Refrigerante insufficiente • Fuori asse. • Spoglia del fianco insufficiente. • Angolo di alimentazione scorretto	• Controllare che vi sia lo spessore corretto. • Utilizzare una qualità più resistente all'usura (ad es. KC5025). • Aumentare il flusso di refrigerante. • Controllare l'altezza della linea centrale dell'utensile. (La precisione della linea centrale diventa sempre più essenziale man mano che si riduce il diametro). • Calcolare la spoglia del fianco e modificare lo spessore per aumentare la spoglia sul fianco usurato. • Se l'usura è sul fianco di uscita, aumentare la spoglia dell'angolo di avanzamento in profondità.

(continua)

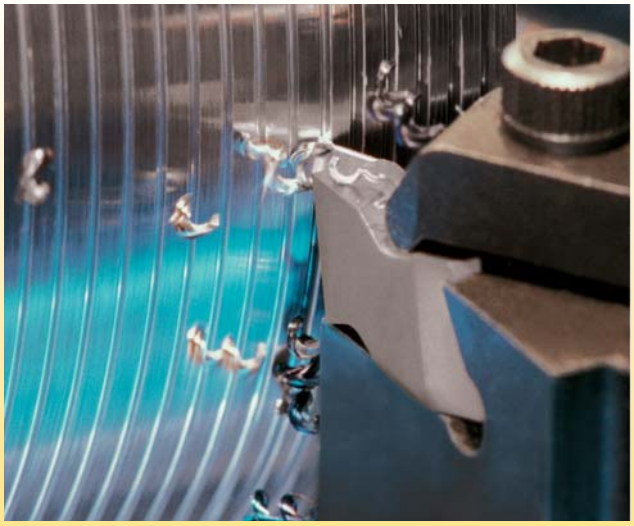
(Guida alle soluzioni delle anomalie — continua)

problema	possibile soluzione																	
	aumentare m/min	ridurre m/min	aumentare lo sforzo di taglio	diminuire l'avanzamento a tagliente dove si verificano rotture	usare una qualità in metallo duro più tenace	usare una qualità in metallo duro più dura	applicare refrigerante	usare metallo duro rivestito	utilizzare inserto di allineamento in alto	cambiare l'angolo di avanzamento in profondità	controllare l'eventuale spostamento dell'inserto e risistemarlo	ridurre la lunghezza dell'utensile	selezionare un altro supporto	applicare uno stile rompitruciolo	ridurre la profondità di taglio	regolare l'altezza centrale	iniziare il taglio dei filetti 12mm prima del pezzo	cambiare metodo di avanzamento in profondità
vibrazioni	●			●							●	●				●		●
bavatura su cresta	●								●									●
durata dell'utensile breve		●	●	●		●		●										●
bordo di entrata scheggiato			●	●	●													
bordo di uscita scheggiato					●					●								
punta rotta (prima passata)	●														●	●		
punta rotta (dopo prima passata)				●	●					●			●					●
riporto sul tagliente	●		●				●	●										●
allineamento in alto anticipato													●					
divisione di filetti																	●	
evacuazione trucioli insufficiente														●				●

La tecnologia di inserti Kennametal introduce il controllo del truciolo nelle operazioni di filettatura con la piattaforma Top Notch™. La scanalatura del truciolo incassata brevettata di Kennametal, se utilizzata seguendo le nostre raccomandazioni, forma il truciolo in gran parte delle applicazioni. La nostra geometria a spoglia positiva riduce le pressioni di taglio e, di conseguenza, la generazione di calore nocivo, assicurando una maggiore durata dell'utensile. I trucioli lunghi e a strisce non rovineranno più la finitura superficiale del pezzo. Si evita quindi che gli operatori corrano rischi per eliminare i trucioli lunghi dal pezzo e dal mandrino. Tutti questi vantaggi, combinati insieme, migliorano la produttività delle operazioni di filettatura.

L'ultima passata

Alcuni controlli CNC richiedono che l'ultima passata venga effettuata ad un angolo di avanzamento in profondità di 0° affinché il truciolo non si rompa. Nella maggior parte degli acciai al carbonio e legati, l'ultima passata può mantenere una profondità di taglio di 0,127mm e produrre una finitura accettabile. Per alcuni materiali è possibile usare una passata da 0,025mm a 0,076mm (salto) per migliorare la finitura superficiale, pregiudicando tuttavia la capacità di formazione del truciolo.

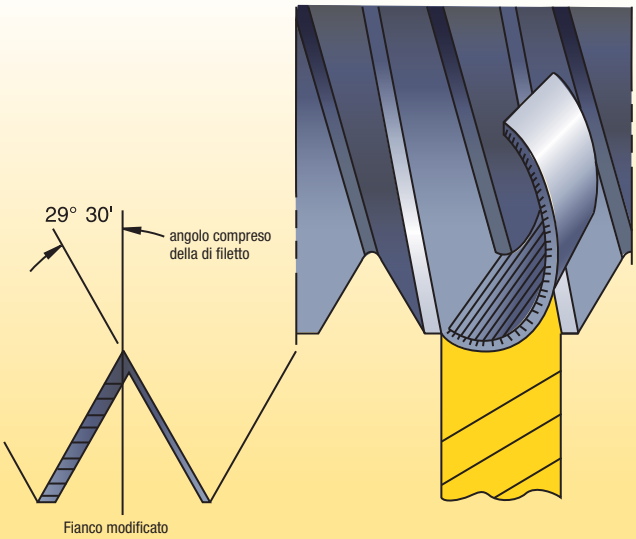


Programmazione della macchina

I moderni controlli CNC consentono al programmatore di regolare con facilità l'angolo di avanzamento in profondità, il numero di passate e la profondità di taglio di ogni passata. L'inserto per filettatura con controllo del truciolo offre le migliori prestazioni con angolo di avanzamento in profondità di 29° 30', benché sia accettabile un intervallo tra 15° e 30°. Inoltre, è importante mantenere una profondità di taglio di almeno 0,127mm per ogni passata. Nella maggior parte delle applicazioni, l'uso di cicli fissi CNC produce solo in modo marginale risultati validi. I programmi personalizzati sono migliori, e quindi raccomandati.

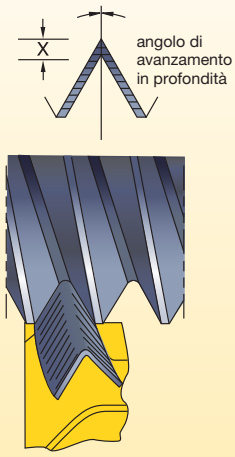
Angolo di avanzamento in profondità

Per rompere il truciolo in modo efficace e uniforme, è importante utilizzare un angolo di avanzamento in profondità tra 28° e 29° 30'. Non applicare inserti per il controllo del truciolo ad angoli di avanzamento in profondità inferiori a 15°.



Angolo radiale

fianco modificato



Vantaggio —

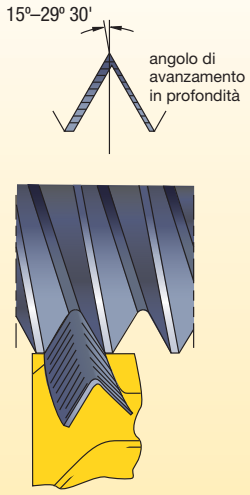
- Il taglio su entrambi i lati della forma del filetto posiziona tutto il tagliente all'interno del taglio e protegge l'estremità dalla scheggiatura.
- Usura uniforme sull'inserto.

Svantaggio —

- L'utensile sviluppa un truciolo a canale che può risultare difficile da gestire.
- La scheggiatura della punta si verifica tagliando materiali ad alta resistenza alla trazione.
- La sbavatura aumenta.
- L'intero tagliente viene impegnato nella finitura del filetto, determinando in tal modo una maggiore tendenza alla vibrazione.

Fianco modificato

fianco modificato



Vantaggio —

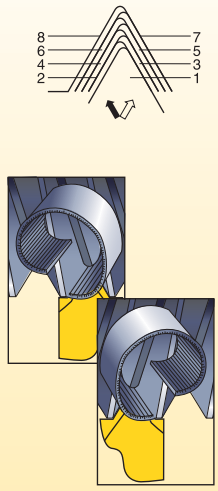
- L'utensile taglia entrambi i lati della forma del filetto, in modo che sia protetto dalla scheggiatura, analogamente a quanto accade durante l'avanzamento in profondità a 0°. Si sviluppano trucioli a forma di canale, ma lo spessore non uniforme dei trucioli aiuta la loro rimozione, analogamente a quanto accade durante l'avanzamento in profondità sul fianco.
- Questo è il metodo preferenziale, specialmente se usato con un inserto di controllo del truciolo.
- Alimentazione sul fianco combinata radiale e/o a fianco alternato.
- Produce una buona durata dell'utensile, con usura uniformemente distribuita su entrambi i fianchi.

Svantaggio —

- Svantaggi analoghi all'alimentazione a 0°, sebbene leggermente ridotti nella portata perché le forze di taglio sono più equilibrate e l'evacuazione del truciolo rappresenta un problema molto minore.

Fianco alternato

fianco alternato



Vantaggio —

- Maggiore durata dell'utensile poiché entrambi i bordi vengono usati in modo uguale.

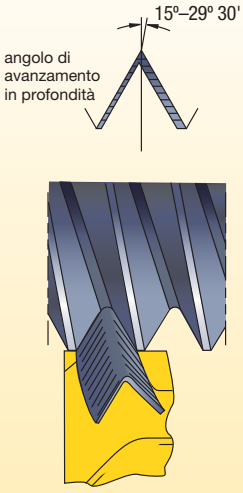
NOTA: Alcuni utensili della macchina potrebbero richiedere tecniche di programmazione speciali per poter usufruire di questo metodo di avanzamento in profondità.

Svantaggio —

- Difficile da tagliare su macchine convenzionali.

Fianco modificato invertito

fianco modificato



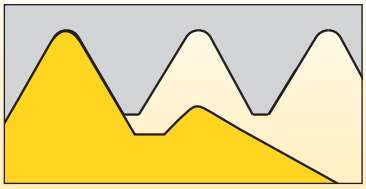
Vantaggio —

- L'utensile taglia entrambi i lati della forma del filetto, in modo che sia protetto dalla scheggiatura, analogamente a quanto accade durante l'avanzamento in profondità a 0°. Si sviluppano trucioli a forma di canale, ma lo spessore non uniforme dei trucioli aiuta la loro rimozione, analogamente a quanto accade durante l'avanzamento in profondità sul fianco.
- Questo è il metodo preferenziale, specialmente se usato con un inserto di controllo del truciolo.
- Alimentazione sul fianco combinata radiale e/o a fianco alternato.
- Produce una buona durata dell'utensile, con usura uniformemente distribuita su entrambi i fianchi.
- Poiché l'evacuazione del truciolo è in direzione inversa rispetto all'avanzamento, rappresenta un'ottima scelta per la filettatura interna.

Svantaggio —

- È necessario effettuare la programmazione linea per linea.

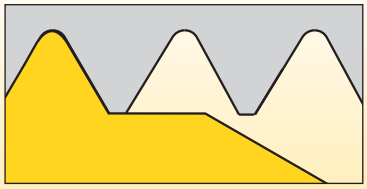
Profilo parziale



Profilo a dente con forma profilo universale:

- Giacenze ridotte.
- Per passi vari in gamma limitata.
- I diametri maggiori/minori devono essere accuratamente pretorniti.

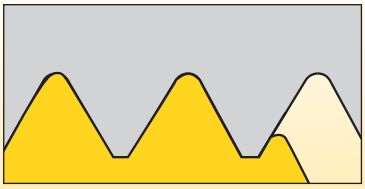
Profilo completo



Profilo a dente con forma profilo completa, compresa l'altezza del dente:

- Per filettature precise senza sbavature nel passo specificato.
- Applicazione generica.
- Tolleranza di lavorazione per diametro esterno/nucleo di circa .004–.006".

Profilo a più denti



Profilo a più denti completo, generalmente con 2–3 denti:

- Filettatura altamente produttiva con meno passate e una durata dell'utensile più lunga.
- Richiede un attrezzamento rigido e un taglio lungo del filetto.

Formule

Formula metrica		
per trovare	**dato**	**formula**
m/min	D (mm) RPM	$m/min = \frac{\pi \times D}{1000} \times RPM$
Giri/min	D (mm) m/min	$GIRI/MIN = \frac{m/min \times 1000}{D \times \pi}$

Legenda

m/min	=	metri al minuto
RPM	=	giri al minuto
D	=	diametro pezzo
π	=	3,1416

Velocità di taglio massime

Nelle macchine più vecchie, la velocità di taglio è spesso limitata alla velocità di corsa massima (IPM o mm/min) dell'utensile consentita dalla macchina. Controllare la velocità massima con le seguenti formule:

formula metrica: velocità di taglio massima (m/min) = diametro pezzo (mm) x 3,14 x (1/passo) x $\frac{\text{mm/min max}}{1000\text{mm}}$

Spoglia del fianco

γ = arctan (sen (β/2) * tan(α))

γ = spoglia laterale (fianco)

β = angolo compreso della forma di filetto

α = angolo di inclinazione radiale

Filetto	Angolo	Esterno	Interno
UN & ISO	60	5.3	8
BSW	55	4.8	7.3
TR	30	2.6	4
ACME	29	2.6	3.9
AMBUT	7	.6	.9
AMBUT	45	4	6

Consigli per le passate di filettatura

TPI	48–32	28–24	20–16	14–12	11.5–9	8–6	5–4	3–2
passo metrico (mm)	0,50–0,75	0,80–1	1,25–1,5	1,75–2	2,5–3	3,5–4	4,5–6	8,0
Tipo di filetto	**numero consigliato di passate**							
Forme dei filetti a V comuni ISO, UN, UNJ, NPT, Whitworth, BSPT, API Spallamento a rotazione	4–5	5–6	6–8	8–10	9–12	12–15	14–16	15–25
Acme, Trapez, Tondo, API Tondo	—	—	5–6	7–8	10–11	12–13	13–15	18–20
Acme Tronco, API Buttress	—	—	5	5–6	7–8	8–10	10–12	14–16
American Buttress	—	—	7–8	9–10	11–12	13–15	17–19	22–24

NOTA: Mantenere un avanzamento in profondità minimo di 0,05mm nell'ultima passata per evitare l'incrudimento e l'abrasione eccessiva dell'utensile di filettatura.

Valori di passata a volume costante per operazioni di filettatura.

Nella maggior parte delle applicazioni, l'utilizzo di cicli fissi CNC produce risultati validi solo in modo marginale. Ad esempio, un filetto esterno con passo 8 ha una profondità di 2mm (.0789").

$$\Delta ap_x = \frac{ap}{\sqrt{nap-1}} * \sqrt{\phi}$$

Formula per avanzamento in profondità, con avanzamento a tagliente costante

Δap = avanzamento in profondità radiale
x = passata effettiva (da 1 a nap)
nap = numero di passate
ϕ = 1° passata, 0.3
2° passata, 1
3° passata e oltre, x-1

Uso dell'incremento radiale

Sollecitazione di flessione sul tagliente causata da trucioli a V derivanti da scheggiatura lunga di materiali in acciaio.

Elevate forze di taglio con piccoli spessori di taglio richiedono taglienti affilati ad alta resistenza.

Uso dell'incremento sul fianco

Un minore stress flessionale e taglienti stabilizzati assicurano forme dei trucioli meno problematiche e spessori di taglio maggiori.

Sono vantaggiosi i metalli duri con elevata durezza, buona resistenza all'usura e stabilità termica.

Linee guida per avanzamento in profondità — Come determinare il numero e le dimensioni delle passate.

Il numero di passate "s" per filetto è decisivo per ottenere risultati positivi di filettatura e tornitura di cresta. Le tabelle seguenti forniscono i valori standard per le condizioni di applicazione durante la lavorazione dell'acciaio. Il numero corretto di passate deve essere determinato empiricamente.

Se si verifica la rottura dell'inserto, occorre aumentare il numero di passate. In caso di maggiore usura, si consiglia di ridurre il numero di passate. I trucioli non devono avere uno spessore inferiore a 0,05mm. Il gioco nel diametro non deve essere superiore a 0,2mm.

ISO metrici, taglio di filetti esterni

passo del filetto P (mm)	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,50	3,00	3,50	4,00	4,50	5,00
T Ap (mm)	0,305	0,457	0,610	0,762	0,914	1,067	1,219	1,524	1,829	2,159	2,464	2,769	3,073
N Ap	4	4	5	6	6	8	8	10	12	14	15	15	16
	valori per incremento sul fianco (X/Z)												
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0,096	0,145	0,167	0,187	0,224	0,221	0,252	0,278	0,302	0,328	0,361	0,405	0,435
2	0,080	0,119	0,138	0,154	0,185	0,182	0,208	0,230	0,249	0,271	0,298	0,335	0,359
3	0,073	0,109	0,126	0,141	0,169	0,167	0,191	0,210	0,228	0,248	0,273	0,306	0,329
4	0,056	0,084	0,097	0,108	0,130	0,128	0,146	0,161	0,175	0,190	0,209	0,235	0,252
5			0,082	0,091	0,110	0,108	0,123	0,136	0,148	0,160	0,176	0,198	0,213
6				0,080	0,097	0,095	0,109	0,120	0,130	0,141	0,155	0,175	0,187
7						0,086	0,098	0,108	0,118	0,128	0,141	0,158	0,169
8						0,079	0,090	0,100	0,108	0,118	0,129	0,145	0,156
9								0,093	0,101	0,109	0,120	0,135	0,145
10								0,087	0,095	0,103	0,113	0,127	0,136
11									0,089	0,097	0,107	0,120	0,129
12									0,085	0,092	0,102	0,114	0,122
13										0,088	0,097	0,109	0,117
14										0,085	0,093	0,105	0,112
15											0,090	0,101	0,108
16													0,104
T Ap (mm)	0,305	0,457	0,610	0,762	0,914	1,067	1,219	1,524	1,829	2,159	2,464	2,769	3,073

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

ISO metrici, taglio di filetti interni

passo del filetto P (mm)	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,50	3,00	3,50	4,00	4,50	5,00
T Ap (mm)	0,279	0,406	0,533	0,686	0,813	0,940	1,092	1,346	1,626	1,905	2,159	2,438	2,718
N Ap	4	4	5	6	6	8	8	10	11	12	14	15	16
	valori per incremento sul fianco (X/Z)												
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0,088	0,129	0,146	0,168	0,199	0,195	0,226	0,246	0,282	0,315	0,328	0,357	0,384
2	0,073	0,106	0,121	0,139	0,164	0,161	0,187	0,203	0,232	0,260	0,271	0,295	0,317
3	0,067	0,097	0,110	0,127	0,151	0,147	0,171	0,186	0,213	0,238	0,248	0,270	0,291
4	0,051	0,075	0,085	0,097	0,116	0,113	0,131	0,143	0,163	0,183	0,190	0,207	0,223
5			0,071	0,082	0,097	0,095	0,111	0,120	0,138	0,154	0,160	0,175	0,188
6				0,072	0,086	0,084	0,097	0,106	0,121	0,136	0,141	0,154	0,166
7						0,076	0,088	0,096	0,110	0,123	0,128	0,139	0,150
8						0,070	0,081	0,088	0,101	0,113	0,118	0,128	0,138
9								0,082	0,094	0,105	0,109	0,119	0,128
10								0,077	0,088	0,099	0,103	0,112	0,120
11									0,083	0,093	0,097	0,106	0,114
12									0,000	0,089	0,092	0,101	0,108
13										0,000	0,088	0,096	0,103
14										0,000	0,085	0,092	0,099
15											0,000	0,089	0,096
16													0,092
T Ap (mm)	0,279	0,406	0,533	0,686	0,813	0,940	1,092	1,346	1,626	1,905	2,159	2,438	2,718

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

Filetti UN, taglio di filetti esterni

TPI	24	20	18	16	14	12	11	10	9	8	7	6	5
T Ap (mm)	0,660	0,787	0,864	0,965	0,914	1,067	1,219	1,524	1,829	2,159	2,464	2,769	3,073
N Ap	5	6	6	7	9	9	10	11	12	13	14	15	16
	valori per incremento sul fianco (X/Z)												
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0,181	0,193	0,212	0,216	0,177	0,207	0,223	0,264	0,302	0,341	0,374	0,405	0,435
2	0,149	0,159	0,175	0,178	0,146	0,171	0,184	0,218	0,249	0,282	0,309	0,335	0,359
3	0,137	0,146	0,160	0,163	0,134	0,156	0,168	0,200	0,228	0,258	0,283	0,306	0,329
4	0,105	0,112	0,123	0,125	0,103	0,120	0,129	0,153	0,175	0,198	0,217	0,235	0,252
5	0,088	0,094	0,103	0,106	0,087	0,101	0,109	0,129	0,148	0,167	0,183	0,198	0,213
6		0,083	0,091	0,093	0,076	0,089	0,096	0,114	0,130	0,147	0,161	0,175	0,187
7				0,084	0,069	0,080	0,087	0,103	0,118	0,133	0,146	0,158	0,169
8					0,063	0,074	0,080	0,095	0,108	0,122	0,134	0,145	0,156
9					0,059	0,069	0,074	0,088	0,101	0,114	0,125	0,135	0,145
10							0,070	0,083	0,095	0,107	0,117	0,127	0,136
11								0,078	0,089	0,101	0,111	0,120	0,129
12									0,085	0,096	0,105	0,114	0,122
13										0,092	0,101	0,109	0,117
14											0,097	0,105	0,112
15												0,101	0,108
16													0,104
T Ap (mm)	0,660	0,787	0,864	0,965	0,914	1,067	1,219	1,524	1,829	2,159	2,464	2,769	3,073

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

Filetti UN, taglio di filetti interni

TPI	24	20	18	16	14	12	11	10	9	8	7	6	5
T Ap (mm)	0,584	0,686	0,762	0,864	0,991	1,143	1,245	1,372	1,524	1,727	1,956	2,286	2,743
N Ap	5	6	6	7	8	9	9	10	11	12	13	14	15
	valori per incremento sul fianco (X/Z)												
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0,160	0,168	0,187	0,193	0,205	0,221	0,241	0,250	0,264	0,285	0,309	0,347	0,402
2	0,132	0,139	0,154	0,159	0,169	0,183	0,199	0,207	0,218	0,236	0,255	0,287	0,332
3	0,121	0,127	0,141	0,146	0,155	0,167	0,182	0,189	0,200	0,216	0,234	0,263	0,304
4	0,093	0,097	0,108	0,112	0,119	0,128	0,140	0,145	0,153	0,166	0,179	0,202	0,233
5	0,078	0,082	0,091	0,094	0,100	0,108	0,118	0,123	0,129	0,140	0,151	0,170	0,196
6		0,072	0,080	0,083	0,088	0,095	0,104	0,108	0,114	0,123	0,133	0,150	0,173
7				0,075	0,080	0,086	0,094	0,098	0,103	0,111	0,120	0,135	0,156
8					0,073	0,079	0,086	0,090	0,095	0,102	0,111	0,124	0,144
9						0,074	0,080	0,084	0,088	0,095	0,103	0,116	0,134
10								0,078	0,083	0,089	0,097	0,109	0,126
11									0,078	0,085	0,092	0,103	0,119
12										0,080	0,087	0,098	0,113
13											0,083	0,094	0,108
14											0,080	0,090	0,104
15													0,100
16													
T Ap (mm)	0,584	0,686	0,762	0,864	0,991	1,143	1,245	1,372	1,524	1,727	2,036	2,286	2,743

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

Filetti NPT, lavorazione interna ed esterna

TPI	27	18	14	11.5	8
T Ap (mm)	0,762	1,118	1,422	1,727	2,489
N Ap	6	8	10	12	14
	valori per incremento sul fianco (X/Z)				
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z
1	0,187	0,231	0,260	0,285	0,378
2	0,154	0,191	0,214	0,236	0,312
3	0,141	0,175	0,196	0,216	0,286
4	0,108	0,134	0,151	0,166	0,219
5	0,091	0,113	0,127	0,140	0,185
6	0,080	0,100	0,112	0,123	0,163
7		0,090	0,101	0,111	0,147
8		0,083	0,093	0,102	0,135
9			0,087	0,095	0,126
10			0,081	0,089	0,118
11				0,085	0,112
12				0,080	0,107
13					0,102
14					0,098
15					
16					
T Ap (mm)	0,762	1,118	1,422	1,727	2,489

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

Filetti BSPT, lavorazione interna ed esterna

TPI	28	19	14	11
T Ap (mm)	0,584	0,864	1,168	1,448
N Ap	5	8	10	12
	valori per incremento sul fianco (X/Z)			
ordine di passate	X/Z	X/Z	X/Z	X/Z
1	0,160	0,179	0,213	0,239
2	0,132	0,148	0,176	0,197
3	0,121	0,135	0,161	0,181
4	0,093	0,104	0,124	0,139
5	0,078	0,087	0,104	0,117
6		0,077	0,092	0,103
7		0,070	0,083	0,093
8		0,064	0,076	0,086
9			0,071	0,080
10			0,067	0,075
11				0,071
12				0,067
13				
14				
15				
16				
T Ap (mm)	0,584	0,864	1,168	1,448

Filetto trapezoidale a norma DIN 103, lavorazione esterna e interna

passo	1,5	2	3	4	5
T Ap (mm)	1,016	1,245	1,753	2,261	2,743
N Ap	6	8	10	12	14
	valori per incremento sul fianco (X/Z)				
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z
1	0,249	0,258	0,320	0,373	0,417
2	0,206	0,213	0,264	0,308	0,344
3	0,188	0,195	0,242	0,282	0,315
4	0,144	0,150	0,186	0,217	0,242
5	0,122	0,126	0,157	0,183	0,204
6	0,107	0,111	0,138	0,161	0,180
7		0,100	0,125	0,145	0,162
8		0,092	0,115	0,134	0,149
9			0,107	0,125	0,139
10			0,100	0,117	0,131
11				0,111	0,123
12				0,105	0,117
13					0,112
14					0,108
15					
16					
T Ap (mm)	1,016	1,245	1,753	2,261	2,743

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

Filetto tondo a norma DIN 405, lavorazione esterna e interna

passo	10	8	6
T Ap (mm)	1,321	1,626	2,159
N Ap	8	10	12
	valori per incremento sul fianco (X/Z)		
ordine di passate	X/Z	X/Z	X/Z
1	0,273	0,297	0,357
2	0,226	0,245	0,294
3	0,207	0,224	0,270
4	0,159	0,172	0,207
5	0,134	0,145	0,174
6	0,118	0,128	0,154
7	0,107	0,116	0,139
8	0,098	0,106	0,128
9		0,099	0,119
10		0,093	0,112
11			0,106
12			0,100
13			
14			
15			
16			
T Ap (mm)	1,321	1,626	2,159

Withworth, taglio di filetti esterni e interni

TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
T Ap (mm)	0,584	0,813	0,813	0,864	1,016	1,346	1,473	1,626	1,803	2,032	2,311	2,718	3,251
N Ap	5	6	6	8	8	9	9	10	11	12	14	15	16
	valori per incremento sul fianco (X/Z)												
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0,160	0,199	0,199	0,179	0,210	0,261	0,285	0,297	0,312	0,336	0,351	0,398	0,460
2	0,132	0,164	0,164	0,148	0,174	0,215	0,236	0,245	0,258	0,277	0,290	0,329	0,380
3	0,121	0,151	0,151	0,135	0,159	0,197	0,216	0,224	0,236	0,254	0,266	0,301	0,348
4	0,093	0,116	0,116	0,104	0,122	0,151	0,166	0,172	0,181	0,195	0,204	0,231	0,267
5	0,078	0,097	0,097	0,087	0,103	0,128	0,140	0,145	0,153	0,164	0,172	0,195	0,225
6		0,086	0,086	0,077	0,091	0,112	0,123	0,128	0,135	0,145	0,151	0,171	0,198
7				0,070	0,082	0,102	0,111	0,116	0,122	0,131	0,137	0,155	0,179
8				0,064	0,075	0,093	0,102	0,106	0,112	0,120	0,126	0,143	0,165
9						0,087	0,095	0,099	0,104	0,112	0,117	0,133	0,153
10								0,093	0,098	0,105	0,110	0,125	0,144
11									0,093	0,099	0,104	0,118	0,136
12										0,095	0,099	0,112	0,130
13											0,095	0,107	0,124
14											0,091	0,103	0,119
15												0,099	0,114
16													0,110
T Ap (mm)	0,584	0,813	0,813	0,864	1,016	1,346	1,473	1,626	1,803	2,032	2,311	2,718	3,251

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

Filetti a più denti, interni

	ISO sistema metrico						ISO UN					Whitworth	NPT		
tipo	3M	2M	3M	2M	3M	2M	2M	3M	2M	3M	2M	2M	2M	3M	2M
passo (mm)	1,0	1,5	1,5	2,0	2,0	3,0	—	—	—	—	—	—	—	—	—
TPI	—	—	—	—	—	—	16	16	12	12	8	11	11,5	11,5	8
profondità totale	0,609	0,838	0,838	1,168	1,168	1,778	0,939	0,939	1,245	1,245	1,880	1,575	1,753	1,753	2,540
1	0,330	0,381	0,508	0,508	0,711	0,558	0,431	0,558	0,558	0,762	0,584	0,736	0,584	0,812	0,889
2	0,279	0,254	0,330	0,381	0,457	0,482	0,304	0,381	0,406	0,482	0,508	0,482	0,508	0,558	0,635
3	—	0,203	—	0,279	—	0,431	0,203	—	0,279	—	0,431	0,355	0,355	0,3815	0,558
4	—	—	—	—	—	0,304	—	—	—	—	0,355	—	0,304	—	0,457

Consigli per pezzi in acciaio (< 300 BHN)

			profondità totale — sul raggio		
codice catalogo	dimensione dell'inserto	TPI profilo	1° passata	2° passata	3° passata
NTC-8R/L8EM	8	8 (UN)	1,21	1,63	2,00
NTC-8R/L8IM	8	8 (UN)	1,19	1,55	1,88
NTC-8R/L10EM	8	10 UN	0,92	1,27	1,60
NTC-8R/L10IM	8	10 UN	0,90	1,22	1,52
NTC-8R/L12EM	8	12 UN	0,76	1,04	1,32
NTC-8R/L12IM	8	12 UN	0,76	0,93	1,20
NTC-8R/L14EM	8	14 UN	0,68	0,95	1,12
NTC-8R/L14IM	8	14 UN	0,60	0,78	1,04
NTC-8R/L16EM 8	8	16 UN	0,58	0,81	0,96
NTC-8R/L16IM	8	16 UN	0,50	0,68	0,93
NTC-8R/L18EM	8	18 UN	0,48	0,66	0,86
NTC-8R/L18IM	8	18 UN	0,48	0,60	0,83
NDC-68RDR/L-75M	8	8 tondo	1,47	1,65	1,85
NDC-61RDR/L-75M	8	10 tondo	1,11	1,29	1,45
NDC-88RDRD/L-75M	8	8 tondo	1,29	1,75	1,85
NDC-88VR/L-75M	8	8 NPT	1,01	1,72	2,45
NDC-8115VR/L-75M	8	11.5 NPT	0,96	1,37	1,70
NDN-814VR/L-75M	8	14 NPT	0,96	1,22	1,36

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

Acme, esterno

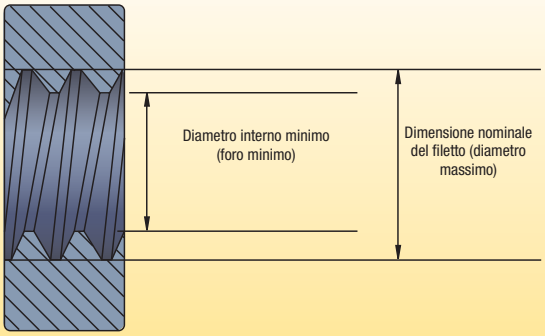
passo, TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
profondità	.028	.032	.032	.034	.040	.053	.058	.064	.071	.080	.091	.107	0.128
numero di passate	5	6	6	8	8	9	9	10	11	12	14	15	16
	valori per alimentazione sul fianco (X/Z)												
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	.039	.041	.050	.063	.074	.095	.112	.138	.180	.256	.008/-	.008/-	.008/-
2	.009	.008	.009	.010	.010	.011	.012	.013	.019	.028	.013/.007	.014/.007	.017/.009
3	.009	.008	.009	.009	.010	.011	.011	.012	.018	.026	.01/.005	.011/.006	.013/.007
4	.007	.007	.007	.009	.009	.010	.010	.011	.016	.023	.008/.004	.009/.005	.011/.006
5	.006	.006	.007	.007	.007	.009	.010	.011	.015	.022	.007/.004	.008/.004	.009/.005
6	.005	.005	.005	.006	.006	.008	.009	.010	.013	.019	.007/.003	.007/.004	.009/.004
7	.003	.004	.005	.005	.005	.007	.008	.010	.011	.017	.006/.003	.007/.004	.008/.004
8		.003	.004	.005	.005	.006	.007	.009	.011	.015	.006/.003	.006/.003	.007/.004
9			.004	.004	.005	.006	.007	.008	.009	.013	.005/.003	.006/.003	.007/.004
10				.004	.005	.006	.007	.008	.009	.013	.005/.003	.005/.003	.006/.003
11				.004	.004	.006	.006	.007	.009	.011	.005/.002	.005/.003	.006/.003
12					.004	.006	.006	.007	.008	.011	.004/.002	.005/.003	.006/.003
13					.004	.005	.006	.006	.007	.010	.004/.002	.005/.003	.006/.003
14						.004	.005	.006	.007	.009	.004/.002	.005/.002	.005/.003
15							.004	.006	.007	.009		.005/.002	.005/.003
16							.004	.006	.006	.008			.005/.003
17								.004	.005	.007	.004/.002	.005/.003	.006/.003
18								.004	.005	.007	.004/.002	.005/.002	.005/.003
19									.005	.006		.005/.002	.005/.003
20										.006			.005/.003

NOTA: Consentire sempre un sovrametallo di 0,08–0,13mm per inserti a profilo completo.

Acme, interno

passo, TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
profondità	.028	.032	.032	.034	.040	.053	.058	.064	.071	.080	.091	.107	0.128
numero di passate	5	6	6	8	8	9	9	10	11	12	14	15	16
	valori per alimentazione sul fianco (X/Z)												
ordine di passate	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	.039	.041	.050	.063	.074	.095	.112	.138	.180	.256	.008/-	.008/-	.008/-
2	.009	.008	.009	.010	.010	.011	.012	.013	.019	.028	.013/.007	.014/.007	.017/.009
3	.009	.008	.009	.009	.010	.011	.011	.012	.018	.026	.01/.005	.011/.006	.013/.007
4	.007	.007	.007	.009	.009	.010	.010	.011	.016	.023	.008/.004	.009/.005	.011/.006
5	.006	.006	.007	.007	.007	.009	.010	.011	.015	.022	.007/.004	.008/.004	.009/.005
6	.005	.005	.005	.006	.006	.008	.009	.010	.013	.019	.007/.003	.007/.004	.009/.004
7	.003	.004	.005	.005	.005	.007	.008	.010	.011	.017	.006/.003	.007/.004	.008/.004
8		.003	.004	.005	.005	.006	.007	.009	.011	.015	.006/.003	.006/.003	.007/.004
9			.004	.004	.005	.006	.007	.008	.009	.013	.005/.003	.006/.003	.007/.004
10				.004	.005	.006	.007	.008	.009	.013	.005/.003	.005/.003	.006/.003
11				.004	.004	.006	.006	.007	.009	.011	.005/.002	.005/.003	.006/.003
12					.004	.006	.006	.007	.008	.011	.004/.002	.005/.003	.006/.003
13					.004	.005	.006	.006	.007	.010	.004/.002	.005/.003	.006/.003
14						.004	.005	.006	.007	.009	.004/.002	.005/.002	.005/.003
15							.004	.006	.007	.009		.005/.002	.005/.003
16							.004	.006	.006	.008			.005/.003
17								.004	.005	.007	.004/.002	.005/.003	.006/.003
18								.004	.005	.007	.004/.002	.005/.002	.005/.003
19									.005	.006		.005/.002	.005/.003
20										.006			.005/.003

I seguenti grafici mostrano il passo filetto più largo possibile nelle applicazioni interne in cui si utilizzano inserti Top Notch per filettatura a V a 60° e Acme.



Limitazioni di filettatura a V a 60° con dimensioni in mm
Limitazioni di filettatura interna Inserti per filettatura a V a 60° NT-1, NT-2

TPI	dimensione nominale del filetto		diametro minimo del filetto (mm)	
	NT-1	NT-2	NT-1	NT-2
4,00	M48 x 4.00	–	43,67	–
3,00	M42 x 3.00	–	38,75	–
2,50	M39 x 2.50	M24 x 2,50	36,29	21,29
2,00	M33 x 2.00	M15 x 2,00	30,84	12,84
1,75	M32 x 1.75	M15 x 1,75	30,11	13,11
1,50	M32 x 1.50	M15 x 1,50	30,38	13,38
1,25	M29 x 1.29	M14 x 1,25	27,65	12,65
1,00*	M27 x 1.00	M14 x 1,00	25,92	12,92
0,75	M22 x 0.75	M12 x 0,75	21,19	11,19

*I passi dei filetti pari o inferiori a 1mm si possono tagliare con un inserto NT-2 se il diametro del nucleo è di 25mm o superiore (11mm o superiore con NT-1).

Limitazioni di filettatura interna Inserti per filettatura a V a 60° NT-3 e NT-4

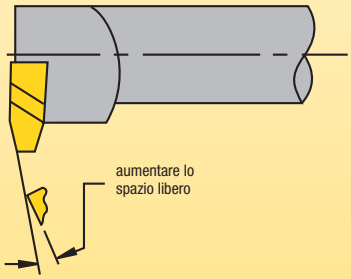
TPI	dimensione nominale del filetto	diametro minimo del filetto (mm)
6,00**	M76 x 6.00	69,50
5,50**	M73 x 5.50	67,05
5,00	M70 x 5.00	64,59
4,00	M64 x 4.00	59,67
3,00	M52 x 3.00	48,75
2,50	M48 x 2.50	45,29
2,00	M42 x 2.00	39,84
1,75	M40 x 1.75	38,11
1,50*	M38 x 1.50	36,38

*Può essere tagliato un passo di filetto da 1,5mm e inferiore se il diametro del nucleo del filetto è di 35mm o superiore.
**solo inserto NT-4.

Limiti filettatura Acme
Limitazioni di filettatura interna Inserti per filettatura Acme NA e NAS-2, -3, -4 e -6

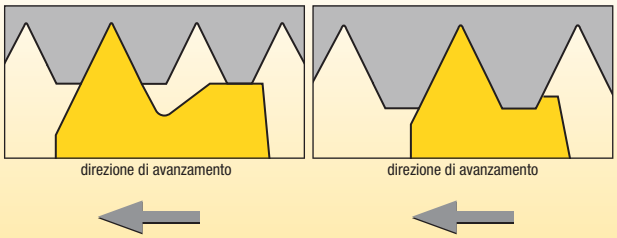
TPI	dimensione nominale del filetto	diametro minimo del filetto (mm)	
	NT-1	NT-1	NT-2
2**	5	4.500	114.3
2-1/2**	4-1/2	4.100	104.1
3**	4	3.665	93.1
4	3-1/2	3.250	82.6
5	3	2.800	71.1
6	2-1/2	2.333	59.3
8	2-1/4	2.125	54.0
10	2	1.900	48.3
12	1-3/4	1.667	42.4
14	1-5/8	1.554	39.5
16*	1-1/2	1.438	36.5

*È possibile tagliare sedici o più filetti per pollice se si ha un diametro interno di 36,5mm (1.438") o superiore.
**solo inserto NA-6.



È possibile aggiungere spazio libero supplementare mediante rettifica del bordo di entrata dell'inserto per ottenere uno spazio libero elicoidale sufficiente per la lavorazione di filetti più grandi e filetti a più principi. Vi è la possibilità di fornire inserti standard modificati per la lavorazione di filetti al di fuori dei limiti illustrati.

Dati di applicazione per tornitura con cresta filetto a V di 60°



Inserto di tornitura con cresta NTC per (P ≤ 2mm) e più fine.

Inserto di tornitura con cresta NTC per (P ≥ 3mm) e più grosso.

NOTA: Gli inserti NTC controllano automaticamente le dimensioni da fondo a cresta. Quindi, nella configurazione di operazioni di filettatura con inserti NTC, controllare la correttezza delle dimensioni di diametro esterno ed interno nella cresta del filetto.

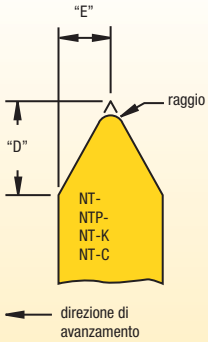
Dati di applicazione per tornitura con cresta filetto a V di 60°

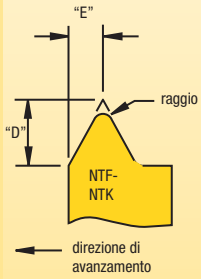
numero di catalogo inserto	raggio di punta sull'inserto (mm)	raggio del filetto per MIL-S-8879A (mm)
NJ-3014R/L12	0,317/0,342	0,317/0,381
NJK-3008R/L20	0,190/0,215	0,190/0,0228

nota filetto "J" per catalogo

La forma di filetto con raggio di fondo controllato (SAE8879C) è definita solo per il filetto esterno. Per lavorare il filetto interno corrispondente, scegliere qualunque inserto per filetti unificati di categoria 2B, quindi alesare il diametro minore fino alla giusta dimensione. Vedere SAE8879C, MIL-S-8879C e SAEAS8879D per i valori del diametro minore del filetto "J" corretti.

Dati di applicazione per filetto a V a 60°





descrizione inserto	inserto	D (mm)	E (mm)	TPI* consigliato		TP* consigliato	
				esterno	interno	esterno	interno
	NT-1	1,90	1,11	–	24–12	–	1,00–2,00
	NT-2	28,70	1,90	36–8	20–7	0,70–3,00	1,25–3,50
	NT-2-K	28,70	1,90	36–8	20–7	0,70–3,00	1,25–3,50
	NTF-2	15,75	1,01	44–14	24–12	0,60–1,75	1,00–2,00
	NTK-2	15,75	1,01	44–14	24–12	0,60–1,75	1,00–2,00
	NTP-2	28,70	1,90	36–8	20–7	0,70–3,0	1,25–3,50
	NT-3	37,59	2,46	20–6	12–5	1,25–4,00	2,00–5,00
	NT-3-K	37,59	2,46	20–6	12–5	1,25–4,00	2,00–5,00
	NT-3-C	37,59	2,46	11–6	6 (solo)	2,50–4,00	4,00 (solo)
	NT-3-CK	37,59	2,46	11–6	6 (solo)	2,50–4,00	4,00 (solo)
	NTF-3	21,08	1,37	44–10	24–9	0,60–2,50	1,00–2,50
	NTK-3	21,08	1,37	44–10	24–9	0,60–2,50	1,00–2,50
	NTP-3	37,59	2,46	20–6	12–5	1,25–4,00	2,00–5,00
	NT-4	49,78	3,22	20–4	12–4	1,25–6,25	2,00–6,25
	NT-4-K	49,78	3,22	20–4	12–4	1,25–6,25	2,00–6,25
	NT-4-C	49,78	3,22	11–4 1/2	6–4 1/2	2,50–5,50	4,00–5,50
	NT-4-CK	49,78	3,22	11–4 1/2	6–4 1/2	2,50–5,50	4,00–5,50
	NTF-4	21,08	1,37	44–10	24–9	0,60–2,50	1,00–2,50
	NTK-4	21,08	1,37	44–10	24–9	0,60–2,50	1,00–2,50
	NTP-4	49,78	3,22	20–4	12–4	1,25–6,25	2,00–6,25

*Basato su raggio inserto massimo e specifiche filetto di categoria 2A e 2B.
**Per le dimensioni D e E metriche, moltiplicare per 25,4.

Forme dei filetti API • Schema delle applicazioni di inserto per raccordi per spallamento a rotazione API

forma di filetto	Inserto Kennametal™ con cresta	Inserto Kennametal™ senza cresta	applicazione combinata di utensili	dimensione minima scatola*
V-.038R 2" TPF 4 TPI	NDC-4038R/L2 4-E/IR4API382	ND-3038R/L	Filo interno 2-3/8 API Filo interno 2-7/8 API Filo interno 3-1/2 API Filo interno 4 API Filo interno 4-1/2 API Filo interno 5-1/2 API Filo interno 6-5/8 API Foro completo 4 API API n. 23, API n. 26, API n. 31, API n. 35, API n. 38, API n. 40, API n. 44, API n. 46, API n. 50	API #31 2-7/8 IF
V-.038R 3" TPF 4 TPI	NDC-4038R/L3 4-E/IR4API383	ND-3038R/L	API #56 API #61 API #70 API #77	API #56
V-.050 2" TPF 4 TPI	NDC-4050R/L2 4-E/IRAPI502	ND-4050R/L	Foro completo 5-1/2 API 6-5/8 API normale Foro completo 6-5/8 API	foro completo 5-1/2 API
V-.050 3" TPF 4 TPI	NDC-4050R/L3 4-E/IR4API503	ND-4050R/L	5-1/2 API normale 7-5/8 API normale 8-5/8 API normale	5-1/2 API normale
V-.040 3" TPF 5 TPI	NDC-3040R/L3 NDC-4040R/L3 4-E/IR5API403	ND-3040R/L ND-4040R/L	2-3/8 API normale 2-7/8 API normale 3-1/2 API normale 4-1/2 API normale	3-1/2 API normale

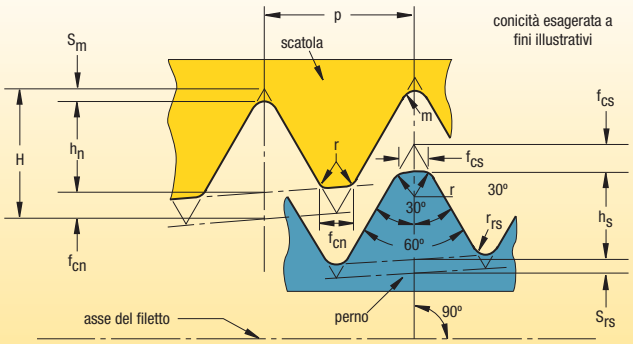
*La dimensione minima della scatola può essere sottoposta a filettatura con un inserto Top Notch standard, grazie alla ridottissima attrezzatura per alesatura.

Forme dei filetti API
dimensioni del filetto del prodotto • Raccordi a spallamento con rotazione (pollici)

forma di filetto	conicità pollici per piede.	altezza filetto, non tronco H	altezza filetto, tronco $h_n=h_s$	troncatura fondo $S_m=S_{rs}$ $f_m=f_{rs}$	troncatura cresta $f_{cn}=f_{cs}$	larghezza piano cresta $f_{cn}=f_{cs}$	larghezza piano cresta $f_m=f_{rs}$	raggio fondo $r_m=r_{rs}$	raggio agli angoli filetto r	passo p
V-.038R	2	.216005	.121844	.038000	.056161	.065	—	.038	.015	.250
V-.038R	3	.215379	.121381	.038000	.055998	.065	—	.038	.015	
V-.040	3	.172303	.117842	.020000	.034461	.040	—	.020	.015	.250
V-.050	3	.215379	.147303	.025000	.043076	.050	—	.025	.015	
V-.050	2	.216005	.147804	.025000	.043201	.050	—	.025	.015	.250

NOTA: Tutte le dimensioni sono in pollici.

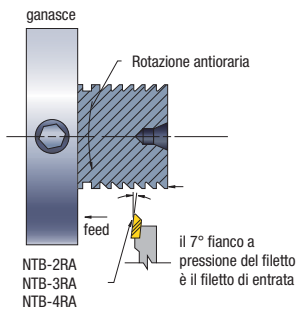
Forma del filetto del prodotto a V .040 e .050



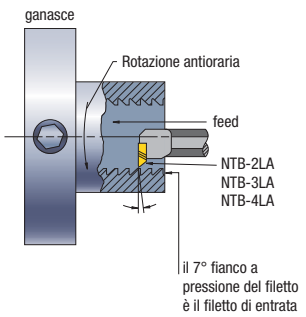
Filetto tondo per alloggiamenti e tubazioni (dimensioni altezza)

elemento filettato		10 TPI p = .1000	8 TPI p = .1250
H	= .866p	.08660	.10825
$H_s = h_n$	= .626p - .007	.05560	.07125
$S_{rs} = S_m$	= .120p + .002	.01400	.01700
$S_{cs} = S_{cn}$	= .120p + .005	.01700	.02000

Inserti American Buttress (7° fianco a pressione di entrata) NTB-A • Tipo Push

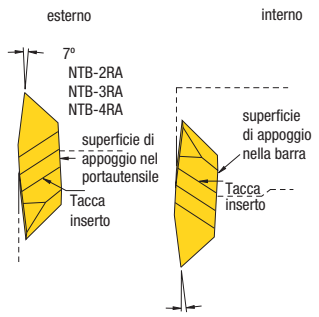


buttress esterno
7° fianco a pressione di entrata

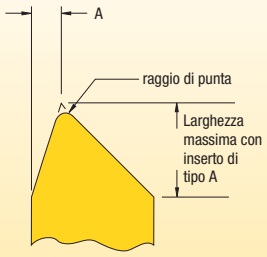


buttress interno
7° fianco a pressione di entrata

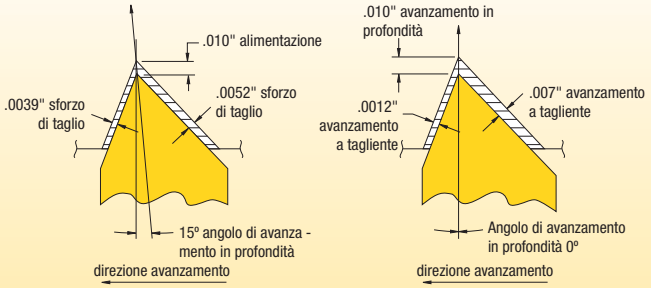
Orientamento inserto vs. portautensili



Dimensioni di riferimento



Confronto tra angolo di avanzamento in profondità e carico di trucioli: 7° fianco a pressione di entrata



inserto NTB-A

inserto	D (pollici)	"A" rif. (pollici)	raggio di punta (pollici)	passo basato sul raggio massimo
NTB-2A	.133	.024	.002–.004	16–20 TPI
NTB-3A	.171	.031	.005–.008	8–16 TPI
NTB-4A	.218	.049	.008–.012	4–6 TPI

NOTA: Per una carica trucioli bilanciata si suggerisce un angolo di alimentazione di 15°.

Limitazioni alla filettatura interna

limitazioni di filettatura interna
Inserti per filettatura Buttress NTB-2A

TPI	dimensione nominale del filetto	diametro interno minimo (pollici)
8	1-3/4	1.600
10	1-5/8	1.505
12	1-1/2	1.400
16	1-1/4	1.175
20	1-1/16	1.002

limitazioni di filettatura interna
NTB-3 e inserti per filettatura Buttress NTB-4A

TPI	dimensione nominale del filetto	diametro interno minimo (pollici)
4*	2-1/2	2.200
5	2-1/4	2.010
6	2	1.800
8	1-3/4	1.600
10	1-5/8	1.505
12**	1-1/2	1.400

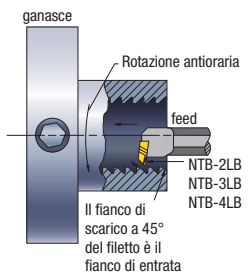
*solo inserto NTB-4A.
**È possibile tagliare 16 o 20 filetti per pollice, a condizione che il diametro minore sia di almeno 1.375".

Schema di confronto tra filetti per pollice e raggio di fondo massimo (in pollici)

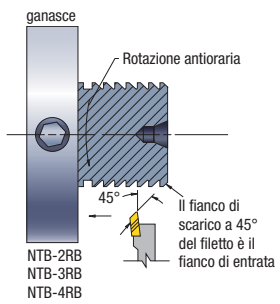
TPI	20	16	12	10	8	6	5	4	3	2-1/2	2	1-1/2	1-1/4	1
raggio fondo massimo	.0036	.0045	.0059	.0071	.0089	.0119	.0143	.0179	.0238	.0268	.0375	.0476	.0572	.0714

NOTA: Su richiesta sono disponibili forme Buttress speciali.

American Buttress (45° Testa di fianco a spoglia): Inserti NTB-B • A trazione

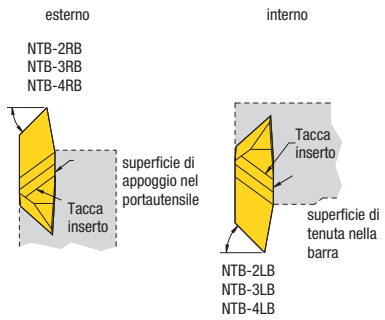


Internal Buttress 45° clearance flank leading



External Buttress 45° clearance flank leading

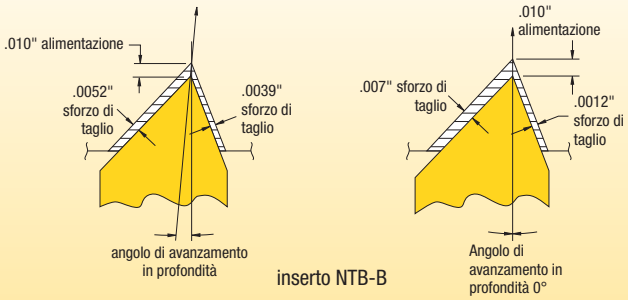
Insert vs. Toolholder Orientation



fianco di scarico a 45° di entrata

Dimensioni di riferimento

Confronto tra angolo di avanzamento in profondità e carico di trucioli: fianco di scarico a 45° di entrata



inserto NTB-B

inserto	D (pollici)	Riferimento "A" (pollici)	raggio di punta (pollici)	passo basato sul raggio massimo
NTB-3B	.171	.031	.005–.004	8–16 TPI

NOTA: Per una carica trucioli bilanciata si suggerisce un angolo di alimentazione inversa di 15°.

Limitazioni alla filettatura interna

limitazioni di filettatura interna
Inserti per filettatura Buttress NTB-2B

TPI	dimensione nominale del filetto	diametro interno minimo (pollici)
8	1-3/4	1.600
10	1-5/8	1.505
12	1-1/2	1.400
16	1-1/4	1.175
20	1-1/16	1.002

limitazioni di filettatura interna
NTB-3 e inserti per filettatura Buttress NTB-4B

TPI	dimensione nominale del filetto	diametro interno minimo (pollici)
4*	2-7/8	2.575
5	2-3/4	2.510
6	2-3/8	2.175
8	2-1/8	1.975
10	1-7/8	1.755
12	1-5/8	1.525
16	1-1/2	1.407
20	1-7/16	1.378

*Solo inserto NTB-4B.

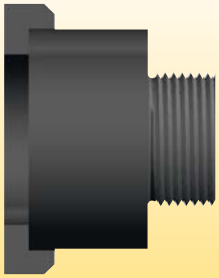
Informazioni richieste

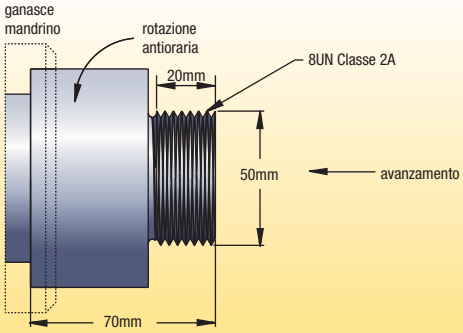
Dal disegno di un pezzo:

materiale: 316SS, 200 HB
forma di filetto: 8UN
tolleranza: classe 2A
operazione: filettatura esterna
diametro primitivo: 50mm x 25mm profondità

Dati di attrezzamento dalla macchina:

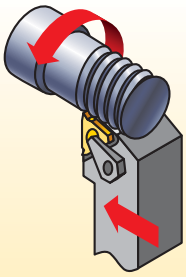
utensili: 20mm x 20mm
rotazione del mandrino: in senso antiorario
avanzamento: verso il mandrino





Passi per un'operazione di filettatura ben riuscita

Passo 1 •
Determinare il metodo di filettatura



Da sapere:

- Operazione (esterna)
- Rotazione del mandrino (senso antiorario). Rotazione in senso antiorario.
- Direzione avanzamento (verso il mandrino)
- Portautensili destro
- Inserto destro (ER)
- Metodo elica standard.

Passo 2 •
Selezionare l'inserto

Da sapere:

- Forma di filetto (ISO R262 passo da 1mm).
- Lato dell'inserto (destro — ER).

Scegliere la soluzione ad alte prestazioni

codice catalogo	dimensione inserto	KCU25/ KC5025
3ER10ISO	3	•

Selezione alte prestazioni

NOTA: Usare l'inserto avente il formato di maggiori dimensioni fra quelli disponibili.
inserto: 3ER1ISO
qualità: KCU25/KC5025
velocità: 150 m/min

Passo 3 •
Selezionare la qualità e la velocità

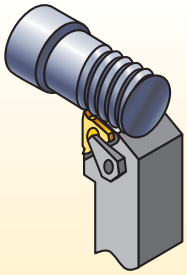
Da sapere:

- Materiale pezzo (316SS-200HB).
- Operazione (esterna).

Opzioni: Linee guida per la scelta di qualità e velocità

operazione di filettatura	acciaio inossidabile
esterno	uso generico e alte prestazioni
	KC5025
	50–360 m/min

Passo 4 •
Selezionare il portautensili



Da sapere:

- Operazione esterna o interna (esterna).
- Diametro primitivo per determinare il diametro minimo del foro (N/D).
- Tipo di utensili — portautensili, bareno (portautensili).
- Lato dell'utensile (destro)
- Dimensione dell'inserto (16).

Opzioni:

codice catalogo	dimensione inserto	supporto
AL203R	3	SM-YE3

Prima scelta: Portautensili LSASR-123

Passo 5 •
Selezionare lo spessore

Da sapere:

- Forma di filetto — TPI o passo (8 TPI).
- Diametro di passo (50mm).
- Metodo elica (standard). Visualizzare la tabella di selezione spessori filettatura Laydown (LT).

Selezionare lo spessore SM-YE3

NOTA: Lo spessore SM-YE3 è fornito con il portautensili selezionato.

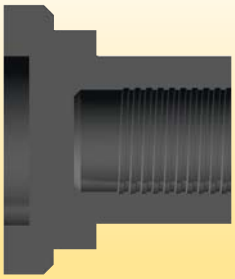
Informazioni richieste

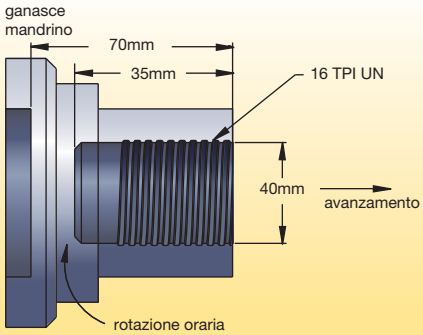
Dal disegno parte:

materiale: acciaio 4140
forma di filetto: ISO R262 2,5mm di passo
tolleranza: ISO in sistema metrico, classe 6G/6H
operazione: filettatura interna
diametro primitivo: 40mm x 35mm profondità

Dati di attrezzamento dalla macchina:

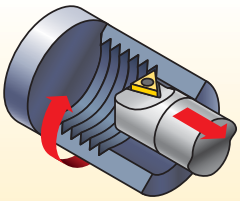
utensile: Bareno da 20mm
rotazione mandrino: oraria
avanzamento: contrario al mandrino





Passi per un'operazione di filettatura ben riuscita

Passo 1 •
Determinare il metodo di filettatura



Da sapere:

- Operazione (interna)
- Rotazione del mandrino (senso orario). Rotazione oraria
- Direzione di avanzamento (in allontanamento dal mandrino).
- Portautensili sinistro.
- Inserto sinistro (NL).
- Metodo elica inversa.

Passo 2 •
Selezionare l'inserto

Da sapere:

- Forma filetto (ISO metrico categoria 6G/6H).
- Lato dell'inserto (sinistro — NL).

Scegliere la soluzione ad alte prestazioni

codice catalogo	dimensione inserto	KCU25/ KC5025
3IL25ISO	3	•

Selezione alte prestazioni

NOTA: Utilizzare un inserto con la dimensione dell'inserto più larga possibile per penetrare nel foro.
inserto: 3IL25ISO
qualità: KCU25/KC5025
velocità: 130 m/min

Passo 3 •
Selezionare la qualità e la velocità

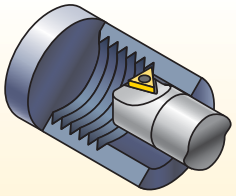
Da sapere:

- Materiale del pezzo (acciaio 4010).
- Operazione (interna).

Opzioni: Linee guida per la scelta di qualità e velocità

operazione di filettatura	acciaio
interno	uso generico e alte prestazioni
	KC5025
	40–200 m/min

Passo 4 •
Selezionare il portautensili



Da sapere:

- Operazione interna o esterna (interna).
- Diametro primitivo per determinare il diametro minimo del foro per operazioni interne (40mm).
- Tipo di utensili — portautensili, bareno (bareno).
- Lato dell'utensile (sinistro).
- Dimensione dell'inserto (16).

Opzioni:

codice catalogo	dimensione inserto	sottoplacchetta
AVR32D3R	3	SM-YE3

Prima scelta: Portautensili LSASR-123

Passo 5 •
Selezionare lo spessore

Da sapere:

- Forma di filetto — TPI o passo (8 TPI).
- Diametro di passo (50mm).
- Metodo elica (standard). Visualizzare la tabella di selezione spessori filettatura Laydown (LT).

Selezionare lo spessore SM-YE3

NOTA: Per questa operazione, il supporto standard in dotazione deve essere sostituito dal supporto consigliato SM-YE3.

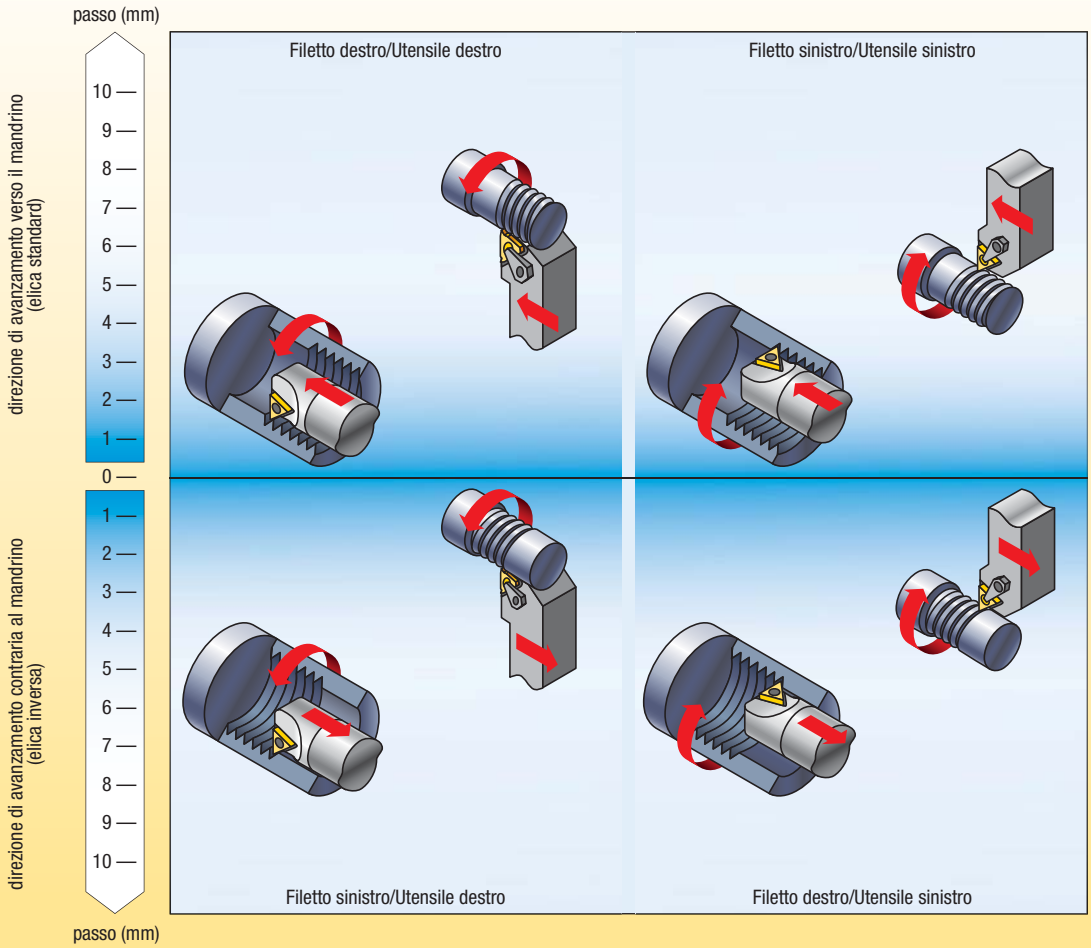
Linee guida per la selezione degli spessori per filettatura Laydown

È importante scegliere lo spessore corretto per assicurare la qualità del filetto e la massima durata dell'utensile. Questi parametri sono necessari:

- Passo
- Diametro primitivo
- Numero di principi
- Direzione di avanzamento

NOTA: Nella determinazione del metodo di filettatura, i fattori principali da considerare sono la forma e la stabilità del pezzo e l'evacuazione del truciolo.

Scheda di selezione Laydown



NOTA: Per i filetti a più principi, utilizzare il valore di avanzamento, piuttosto che il valore di passo.

Schema degli angoli di registrazione filetto

Per calcolare l'angolo di registrazione di un dato filetto, usare la formula seguente:

$$ß = \text{Arctan} \frac{P \bullet S}{\pi D_e}$$

ß = angolo di registrazione filetto

D_e = diametro passo effettivo dell'usura filetto

P = 1/TPI

TPI = filetti per pollice

S = numero di principi

principio singolo, avanzamento = passo

principio multiplo, avanzamento = passo (x) numero di principi

Tutti i portautensili sono progettati con un angolo di inclinazione = 1,5°. Nella tornitura di filetti standard con angolo di registrazione di 1–2° questo garantisce un adeguato scarico sui fianchi del dente di filettatura dell'inserto. L'angolo di registrazione del filetto e l'angolo di inclinazione richiesto dell'inserto sono dati da ß.

L'altezza del tagliente è costante in tutte le combinazioni di supporto e inserto. Tutti i portautensili vengono forniti con angolo di registrazione di 1-1/2°.

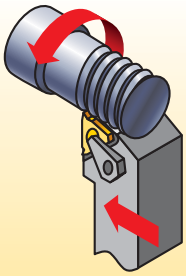
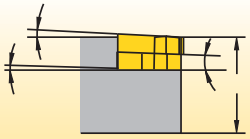


Tabella di selezione spessori per filettatura Laydown • Sistema metrico

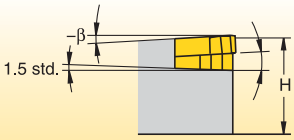
dimensione inserto	portautensili		codice ordine supporto (mm)							
	esterno	interno				standard				
3 (9,52)	RH	LH	SM–YE3–3P	SM–YE3–2P	SM–YE3–1P	SM–YE3	SM–YE3–1N	SM–YE3–1.5N	SM–YE3–2N	SM–YE3–3N
3 (9,52)	LH	RH	SM–YI3–3P	SM–YI3–2P	SM–YI3–1P	SM–YI3	SM–YI3–1N	SM–YI3–1.5N	SM–YI3–2N	SM–YI3–3N
4 (12,7)	RH	LH	SM–YE4–3P	SM–YE4–2P	SM–YE4–1P	SM–YE4	SM–YE4–1N	SM–YE4–1.5N	SM–YE4–2N	SM–YE4–3N
4 (12,7)	LH	RH	SM–YI4–3P	SM–YI4–2P	SM–YI4–1P	SM–YI4	SM–YI4–1N	SM–YI4–1.5N	SM–YI4–2N	SM–YI4–3N
TPI		**passo (mm)**	**diametro primitivo (mm)**							
72		—	—	—	—	3,1–8	8–21,4	>21,4	21,4–8	8–3,1
—		0,35	—	—	—	3,0–8	8–21,3	>21,3	21,3–8	3–8
64		—	—	—	—	3,4–9	9–24,1	>24,1	24,1–9	9–3,4
—		0,40	—	—	—	3,5–9,1	9,1–24,3	>24,3	24,3–9,1	9,1–3,5
56		0,45	—	—	—	3,9–10,3	10,3–27,6	>27,6	27,6–10,3	10,3–3,9
—		0,50	—	—	2,8–4,3	4,3–11,4	11,4–30,4	>30,4	30,4–11,4	11,4–4,3
48		—	—	—	3–4,6	4,6–12,1	12,1–32,2	>32,2	32,2–12,1	12,1–4,6
44		—	—	—	3,3–5	5–13,2	13,2–35,1	>35,1	35,1–13,2	13,2–5
—		0,60	—	2,6–3,4	3,4–5,2	5,2–13,7	13,7–36,5	>36,5	36,5–13,7	13,7–5,2
40		—	—	2,8–3,6	3,6–5,5	5,5–14,5	14,5–38,6	>38,6	38,6–14,5	14,5–5,5
—		0,70	—	3,0–4	4–6,1	6,1–16	16–42,6	>42,6	42,6–16	16–6,1
36		—	—	3,1–4	4–6,1	6,1–16,1	16,1–42,9	>42,9	42,9–16,1	16,1–6,1
—		0,75	2,8–3,2	3,3–4,3	4,3–6,5	6,5–17,1	17,1–45,6	>45,6	45,6–17,1	17,1–6,5
32		—	3–3,4	3,4–4,5	4,5–6,9	6,9–18,1	18,1–48,3	>48,3	48,3–18,1	18,1–6,9
—		0,80	3–3,5	3,5–4,6	4,6–6,9	6,9–18,2	18,2–48,6	>48,6	48,6–18,2	18,2–6,9
28		—	3,4–3,9	3,9–5,2	5,2–7,9	7,9–20,7	20,7–55,1	>55,1	55,1–20,7	20,7–7,9
27		—	3,6–4,1	4,1–5,4	5,4–8,2	8,2–21,4	21,4–57,2	>57,2	57,2–21,4	21,4–8,2
—		1,00	3,8–4,3	4,3–5,7	5,7–8,7	8,7–22,8	22,8–60,8	>60,8	60,8–22,8	22,8–8,7
24		—	4–4,6	4,6–6	6–9,2	9,2–24,1	24,1–64,3	>64,3	64,3–24,1	24,1–9,2
—		1,25	4,7–5,4	5,4–7,1	7,1–10,8	10,9–28,5	28,5–76	>76,0	76–28,5	28,5–10,8
20		—	4,8–5,5	5,5–7,2	7,2–11	11–28,9	29–77,2	>77,2	77,2–28,9	29–11
18		—	5,3–6,1	6,1–8	8–12,2	12,2–32,2	32,2–85,8	>85,8	85,8–32,2	32,2–12,2
—		1,50	5,7–6,5	6,5–8,5	8,5–13	13–34,2	34,2–91,2	>91,2	91,2–34,2	34,2–13
16		—	6–6,9	6,9–9	9–13,8	13,8–36,2	36,2–96,5	>96,5	96,5–36,2	36,2–13,8
—		1,75	6,6–7,96	7,6–10	10–15,2	15,2–39,9	39,9–106,4	>106,4	106,4–39,9	39,9–15,2
14		—	6,9–7,9	7,9–10,3	10,3–15,7	15,7–41,4	41,4–110,3	>110,3	110,3–41,4	41,4–15,7
13		—	7,4–8,5	8,5–11,1	11,1–17	17–44,5	44,5–118,8	>118,8	118,8–44,5	44,5–17
—		2,00	7,6–8,7	8,7–11,4	11,4–17,4	17,4–45,6	45,6–121,6	>121,6	121,6–45,6	45,6–17,4
12		—	8–9,2	9,2–12	12,1–18,4	18,4–48,2	48,3–128,7	>128,7	128,7–48,2	48,2–18,4
11.5		—	8,4–9,6	9,6–12,6	12,6–19,2	19,2–50,3	50,3–134,3	>134,3	134,3–50,3	50,3–19,2
11		—	8,8–10	10–13,1	13,1–20	20–52,6	52,6–140,4	>140,4	140,4–52,6	52,6–20
—		2,50	9,5–10,8	10,8–14,2	14,2–21,7	21,7–57	57–152	>152,0	152–57	57–21,7
10		—	9,6–11	11–14,5	14,5–22	22–57,9	57,9–154,4	>154,4	154,4–57,9	57,9–22
9		—	10,7–12,2	12,2–16,1	16,1–24,5	24,5–64,3	64,3–171,6	>171,6	171,6–64,3	64,3–24,5
—		3,00	11,4–13	13–17,1	17,1–26	26–68,4	68,4–182,4	>182,4	182,4–68,4	68,4–26
8		—	12–13,8	13,8–18,1	18,1–27,6	27,6–72,4	72,4–193	>193,0	193–72,4	72,4–27,6
—		3,50	13,3–15,2	15,2–19,9	19,9–30,4	30,4–79,8	79,8–212,8	>212,8	212,8–79,8	79,8–30,4
7		—	13,8–15,7	15,7–20,7	20,7–31,5	31,5–82,7	82,7–220,6	>220,6	220,6–82,7	82,7–31,5
—		4,00	15,2–17,3	17,3–22,8	22,8–34,7	34,7–91,2	91,2–243,2	>243,2	243,2–91,2	91,2–34,7
6		—	16–18,3	18,3–24,1	24,1–36,7	36,7–96,5	96,5–257,4	>257,4	257,4–96,5	96,5–36,7
—		5,00	19–21,7	21,7–28,5	28,5–43,4	43,4–114	114–304	>304,0	304–114	114–43,4
5		—	19,3–22	22–28,9	28,9–44,1	44,1–115,8	115,8–308,8	>308,8	308,8–115,8	115,8–44,1
4,5		—	21,4–24,5	24,5–32,1	32,1–49	49–128,7	128,7–343,1	>343,1	343,1–128,7	128,7–49
—		6,00	22,7–26	26–34,2	34,2–52,1	52,1–136,8	136,8–364,8	>364,8	364,8–136,8	136,8–52,1
4		—	24,1–27,5	27,5–36,2	36,2–55,1	55,1–144,8	144,8–386	>386	386–144,8	144,8–55,1
angolo di inclinazione			4.5	3.5	2.5	1.5	0.5	0.0	-0.5	-1.5
			elica standard (avanzamento verso il mandrino)						**elica inversa (avanzamento contrario al mandrino)**	

1. Selezionare TPI o passo dalla colonna a sinistra.
2. Seguire la riga fino al diametro di passo specificato e alla corretta direzione di avanzamento.
3. Seguire la colonna fino in cima per il supporto necessario in base al formato di portautensili e inserto.

metodo elica standard:
Utilizzato quando il filetto destro viene tagliato con l'utensile sinistro o il filetto sinistro viene tagliato con l'utensile destro.



metodo elica inversa:
Utilizzato quando il filetto destro viene tagliato con l'utensile sinistro o il filetto sinistro viene tagliato con l'utensile destro.



NOVO SA COME FARE: RICERCA

La ricerca di un utensile è stata migliorata dalle funzioni Consiglio e Selezione nell'applicazione NOVO™ — per risparmiare tempo e denaro.

CONSIGLIARE

Utilizza un approccio basato su regole per fornire consigli sull'utensile da taglio:

- Definire le caratteristiche di lavorazione (spianatura, scanalatura, lavorazione di fori ciechi, ecc.)
- Applicare le limitazioni richieste (limitazioni geometriche, di materiale, di tolleranza, ecc.)
- Impostare la sequenza di lavorazione (operazione singola o multistep, prima sgrossatura quindi finitura, ecc.)
- Ricevere risultati catalogati

SELEZIONARE

Un metodo per selezionare gli utensili da taglio da una struttura ramificata utilizzando una ricerca gerarchica o parametrica:

- Se si conosce quale prodotto si sta cercando, è possibile effettuare una ricerca rapida utilizzando il codice catalogo o la descrizione del prodotto.
- L'applicazione di filtri intelligenti riduce significativamente la quantità di soluzioni di utensili potenzialmente disponibili.
- Dopo aver scelto l'utensile, NOVO fornisce anche le opzioni di taglio e di adattamento specifiche per ogni soluzione.

L'applicazione NOVO garantisce di avere gli utensili giusti per ogni macchina, nella sequenza giusta. Questo permette un'esecuzione impeccabile che velocizza ogni lavoro e massimizza ogni turno. **kennametal.com/novo**

KENNAMETAL

Applicazioni specifiche

Fix-Perfect E2–E18

Profilatura Top Notch E20–E43

Lavorazione componenti ferroviari E44–E61

Inserti K-Lock E62–E65

Fix-Perfect™

Il programma di inserti rettificati di precisione Fix-Perfect™ supera Beyond!

Le straordinarie prestazioni di questi inserti rettificati di precisione consentono un'eccezionale accuratezza di indexaggio e un'eccellente evacuazione del truciolo nella lavorazione di acciaio, ghisa e acciaio inossidabile.

Gli inserti Fix-Perfect Beyond sono la soluzione ideale per le lavorazioni in un'ampia gamma di settori industriali, come quello dell'oleodinamica, dell'energia, automobilistico, delle attrezzature pesanti e della meccanica generale.

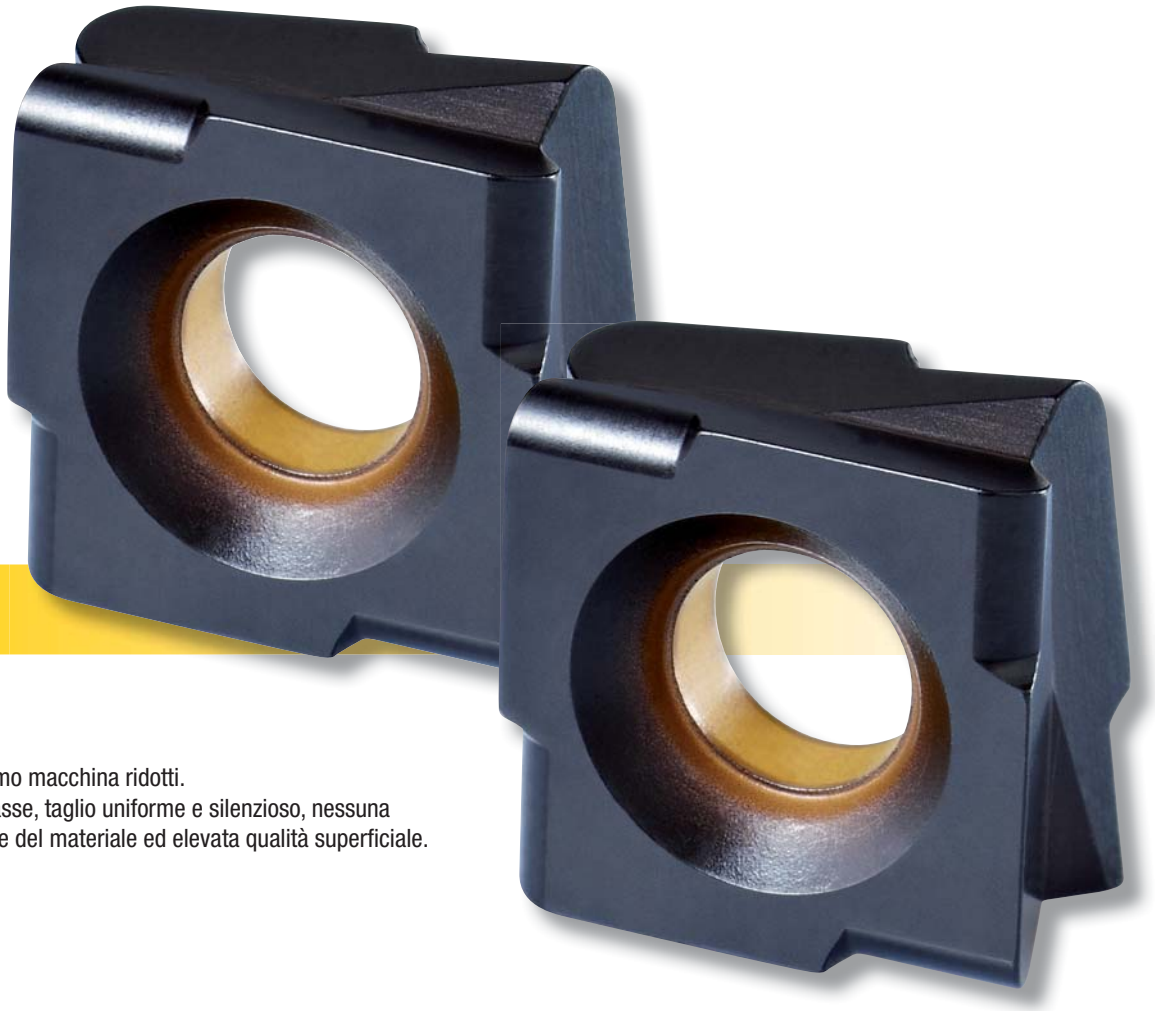
Caratteristiche, funzioni e vantaggi

Caratteristiche

- Design tangenziale.
- Sistema di bloccaggio rigido.
- Fino a otto taglienti (protetti dalla sede).
- Geometria positiva.
- Inserto rettificato di precisione.

Funzioni

- Sistema stabile.
- Sistema di fissaggio molto stabile e sostituzione del tagliente rapida e facile.
- Sono utilizzabili fino a otto taglienti per inserto.
- Forze di taglio molto basse e controllo ottimale del truciolo.
- Migliore precisione di indexaggio.

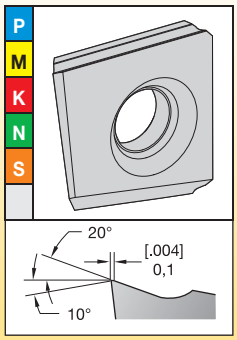


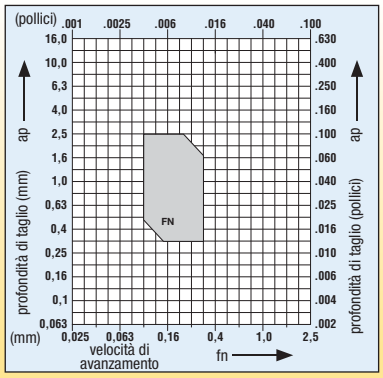
Vantaggi

- Tempi di fermo macchina ridotti.
- Vibrazioni basse, taglio uniforme e silenzioso, nessuna deformazione del materiale ed elevata qualità superficiale.

Finitura

D2FIX-FN

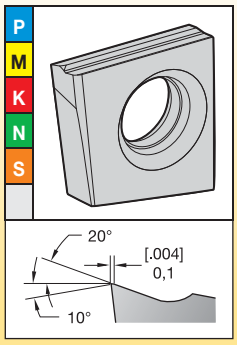


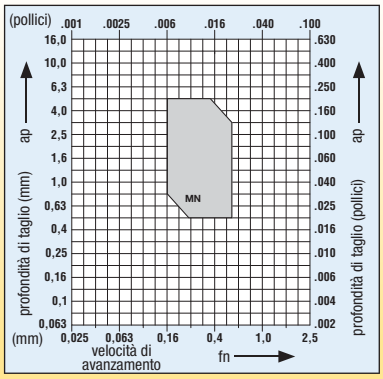


P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

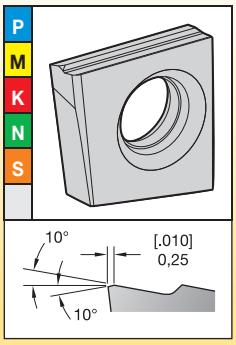
Lavorazione media

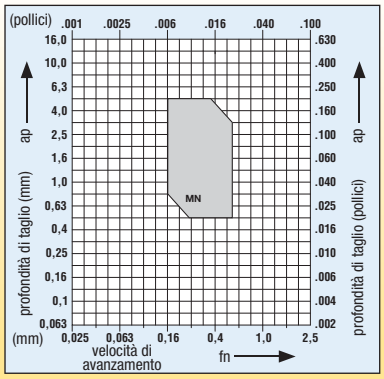
C2FIX-MN



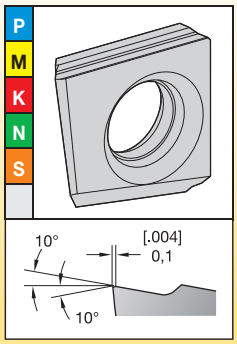


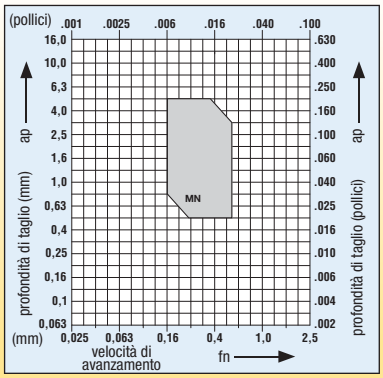
C2FIX18-MN



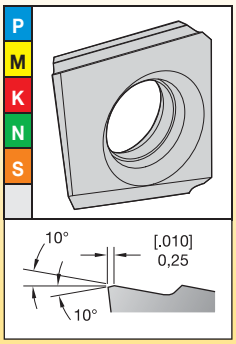


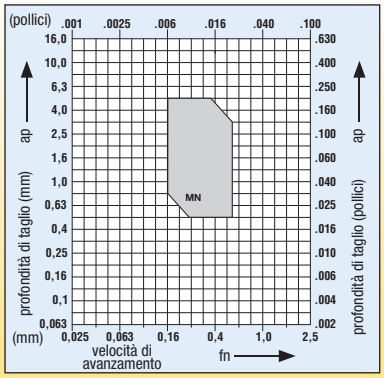
D2FIX15-MN



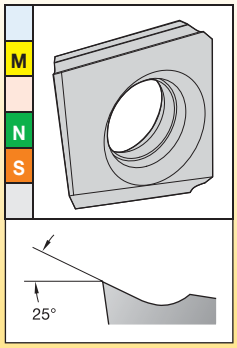


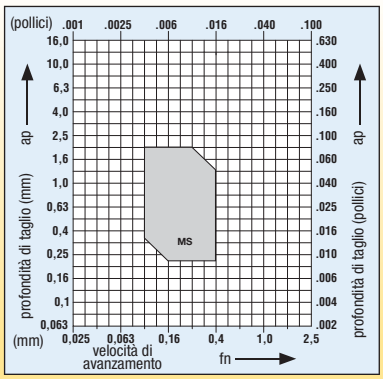
K2FIX-MN



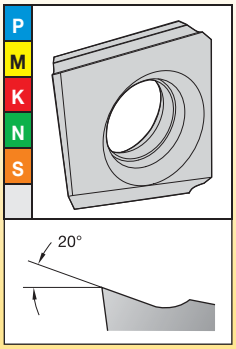


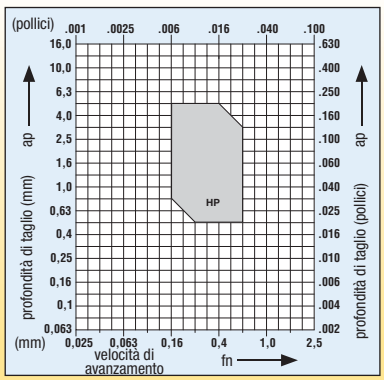
D2FIX-MS





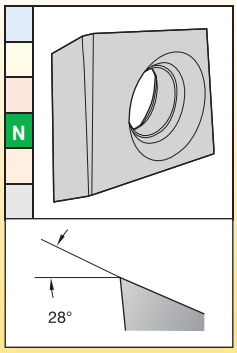
D2FIX-HP

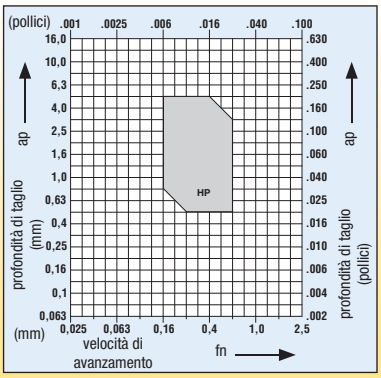




Lavorazione media

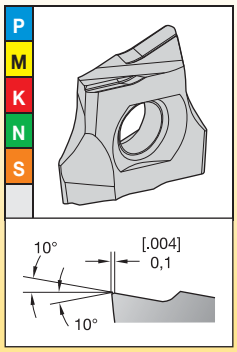
E2FIX-HP

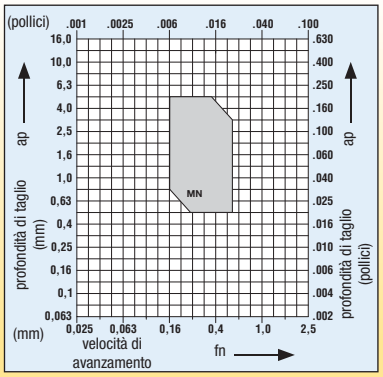




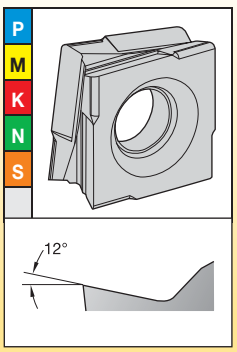
P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

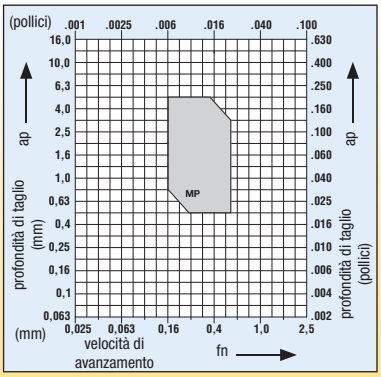
D4FIX-MN





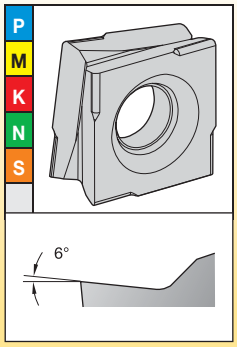
C8FIX-MP

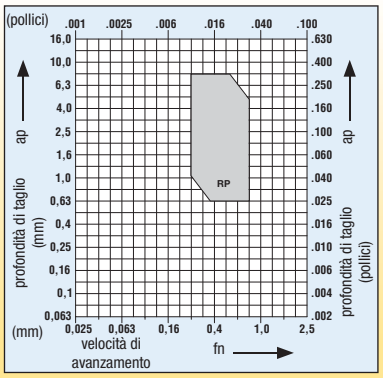




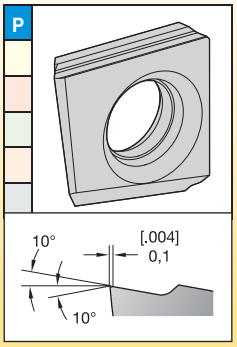
Sgrossatura

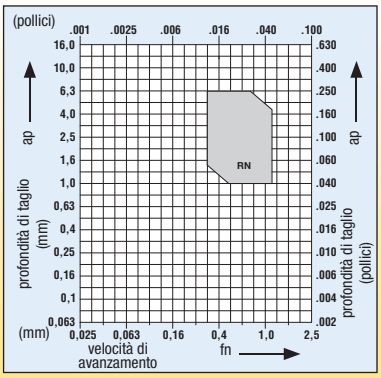
C8FIX-RP



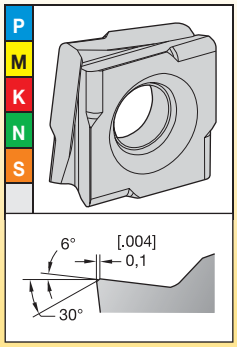


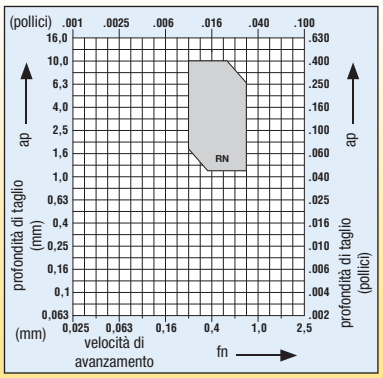
D2FIX-RN



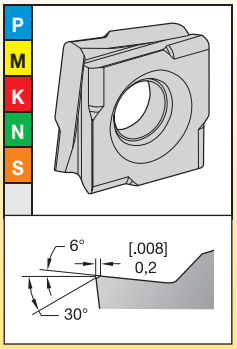


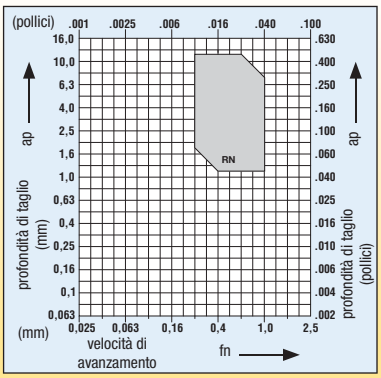
C8FIX15-RN





C8FIX18-RN





Scegliere la geometria dell'inserto

Inserti a 8 taglienti

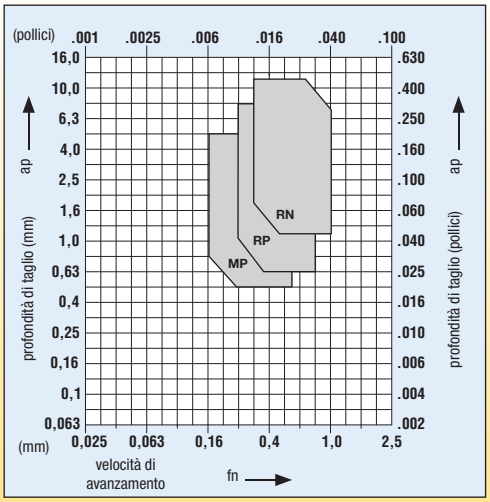
Sgrossatura
Taglio interrotto e/o croste pesanti
USO: -RP O -RN

-RP

-RN

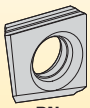
Tornitura media
Taglio interrotto poco profondo e/o crosta leggera
USO: -MP

-MP

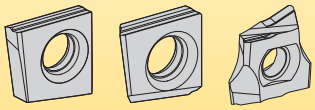


Inserti a 2 e 4 taglienti

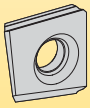
Sgrossatura
Taglio interrotto e/o croste pesanti
USO: -RN

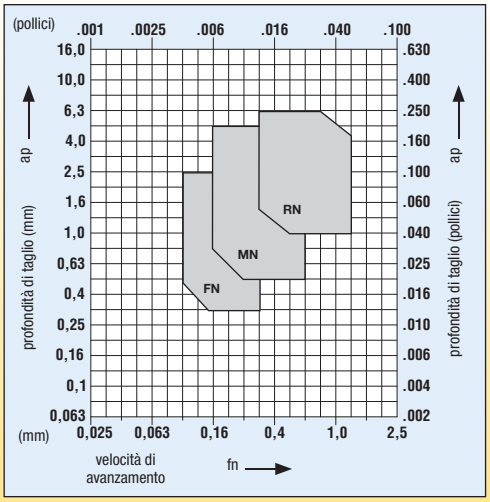

-RN

Tornitura media
Taglio interrotto poco profondo e/o crosta leggera
USO: -MN


-MN

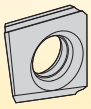
Finitura
Taglio non interrotto, nessuna crosta
USO: FN

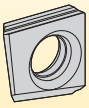

-FN

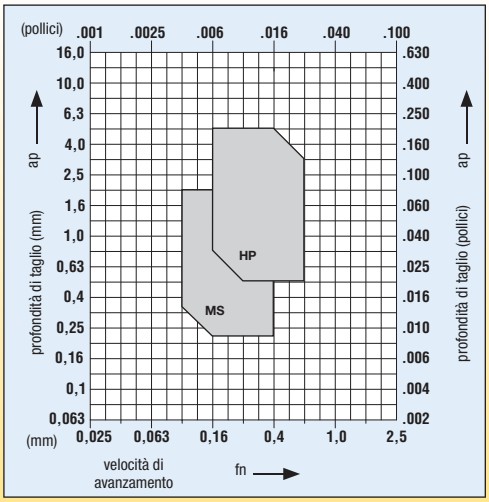


Inserti a 2 taglienti, altamente positivi

Tornitura media
Taglio interrotto poco profondo e/o crosta leggera
USO: -HP O -MS


-HP


-MS



Selezionare la qualità

	P	M	K	N	S	H
pesantemente interrotto	KCP40/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	–
leggermente interrotto	KCP25/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	–
diverse profondità di taglio	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10
liscio	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10

Scegliere la velocità di taglio

Acciaio — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	60 (200)	90 (300)	120 (400)	105 (500)	185 (617)	215 (717)	245 (800)	275 (900)	300 (1000)	m/min	SFM
P	KCP40				◁▷						150	500
	KCU10						◁▷				200	650
	KCP25						◁▷				200	650
	KCP10							◁▷			250	180

Acciaio inossidabile — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	45 (150)	70 (233)	90 (300)	115 (383)	140 (467)	165 (550)	185 (617)	210 (700)	230 (767)	m/min	SFM
M	KCP40					◁▷					140	450
	KCM15						◁▷				165	550
	KCU25						◁▷				165	550
	KCU10							◁▷			185	600

Ghisa — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	m/min	SFM
K	KCU25			◁▷							140	450
	KCU10			◁▷							165	550
	KCP25				◁▷						165	550
	KCP10					◁▷					185	600

Materiali non ferrosi — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	150 (500)	225 (750)	300 (1000)	380 (1267)	460 (1533)	535 (1783)	610 (2033)	685 (2283)	760 (2533)	m/min	SFM
N	KCU10					◁▷					460	1500

Leghe resistenti al calore — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	95 (317)	120 (400)	140 (467)	m/min	SFM
S	KCU25		◁▷								45	150
	KCU10				◁▷						60	200

Acciaio temprato — velocità — m/min (sfm) — condizioni iniziali ◁▷

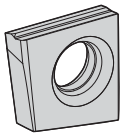
gruppo materiali	qualità	5 (17)	15 (50)	25 (83)	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	m/min	SFM
H	KCU10				◁▷						30	100

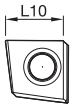
KENNAMETAL

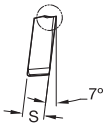
beyond

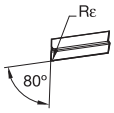
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

● prima scelta
○ scelta alternativa









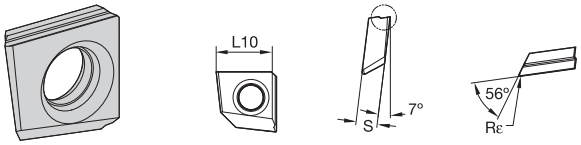
C2FIX-MN

codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
C2FIX110404RMN	10,70	4,00	0,40	–	–	–	–	●	–
C2FIX110405RMN	10,70	4,00	0,50	–	●	●	–	–	–
C2FIX150510RMN	14,50	5,00	1,00	–	●	–	–	–	–
C2FIX150512RMN	14,50	5,00	1,20	–	–	–	–	–	●
C2FIX150505RMN	14,70	5,00	0,50	–	●	–	–	–	–
sinistro									
C2FIX110404LMN	10,70	4,00	0,40	–	–	–	–	–	●
C2FIX110405LMN	10,70	4,00	0,50	–	●	●	–	●	–
C2FIX110408LMN	10,70	4,00	0,80	–	●	–	–	–	–
C2FIX150510LMN	14,50	5,00	1,00	–	●	●	–	–	–
C2FIX150508LMN	14,60	5,00	0,80	–	●	–	–	●	●
C2FIX150504LMN	14,70	5,00	0,40	–	–	●	–	–	●
C2FIX150505LMN	14,70	5,00	0,50	–	●	●	–	●	–
C2FIX180610LMN	17,50	6,00	1,00	–	●	●	–	●	–

beyond

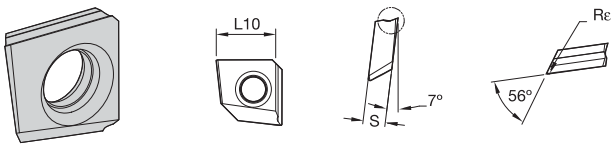
	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P	●	●	●	●	●	●
M	○	○	●	●	●	●
K	●	●	●	●	●	●
N					●	●
S			○	○	●	●
H						

● prima scelta
○ scelta alternativa



D2FIX-MN

codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
D2FIX110405RMN	10,50	4,00	0,50	–	●	●	–	–	–
D2FIX150508RMN	14,20	5,00	0,80	–	●	–	–	–	–
D2FIX150505RMN	14,50	5,00	0,50	●	●	●	–	–	–
D2FIX150504RMN	14,60	5,00	0,40	–	●	–	–	–	–
D2FIX150503RMN	14,70	5,00	0,30	–	●	–	–	–	–
sinistro									
D2FIX110405LMN	10,50	4,00	0,50	–	●	●	–	–	–
D2FIX150508LMN	14,20	5,00	0,80	–	●	–	–	–	–
D2FIX150505LMN	14,50	5,00	0,50	–	●	–	–	–	–



D2FIX-HP

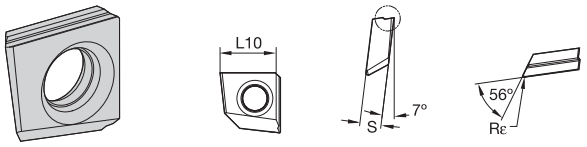
codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
D2FIX110404RHP	10,00	4,00	0,40	–	–	–	–	–	●
D2FIX110403RHP	10,10	4,00	0,30	–	●	–	–	●	–
D2FIX150508RHP	13,60	5,00	0,80	–	–	–	–	●	●
D2FIX150504RHP	14,00	5,00	0,40	–	–	–	–	●	●
D2FIX150503RHP	14,10	5,00	0,30	–	●	–	–	●	–
sinistro									
D2FIX110403LHP	10,10	4,00	0,30	–	–	–	–	●	–
D2FIX150508LHP	13,60	5,00	0,80	–	–	–	–	●	–
D2FIX150503LHP	14,10	5,00	0,30	–	–	–	–	●	–

KENNAMETAL

beyond

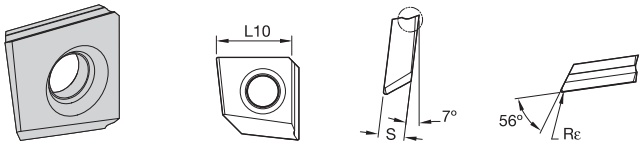
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

● prima scelta
○ scelta alternativa



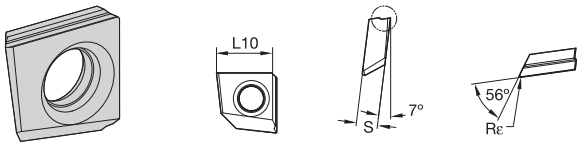
D2FIX-MS

codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
D2FIX150505RMS	13,90	5,00	0,50	–	–	–	–	●	–
D2FIX150503RMS	14,10	5,00	0,30	–	–	–	–	●	–
sinistro									
D2FIX150505LMS	13,90	5,00	0,50	–	–	–	–	●	–
D2FIX150503LMS	14,10	5,00	0,30	–	–	–	–	●	–



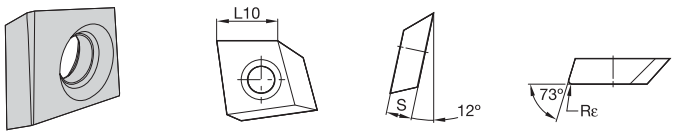
D2FIX-FN

codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
D2FIX150505RFN	13,90	5,00	0,50	–	●	–	–	●	–



D2FIX-RN

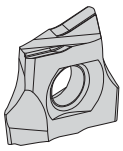
codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
D2FIX150505RRN	14,50	5,00	0,50	●	–	●	–	–	–
sinistro									
D2FIX150505LRN	14,50	5,00	0,50	–	●	–	–	–	–

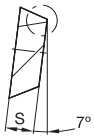


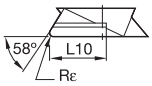
E2FIX-HP

codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
E2FIX100505RHP	10,50	5,00	0,50	–	–	–	–	●	–
sinistro									
E2FIX100505LHP	10,50	5,00	0,50	–	–	–	–	●	–

beyond





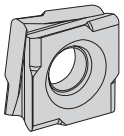
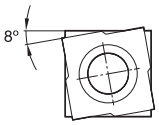


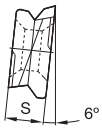
● prima scelta
○ scelta alternativa

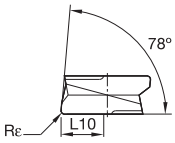
P	●	●	●	●	●	●
M	○	○	●	●	●	●
K	●	●	●	●	●	●
N					●	●
S			○	○	●	●
H						

D4FIX-MN

codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
D4FIX140608RMN	6,70	5,90	0,80	●	●	–	–	●	●
D4FIX140605RMN	7,00	5,90	0,50	●	●	–	–	–	–
D4FIX140604RMN	7,10	5,90	0,40	–	–	●	–	–	●
D4FIX140603RMN	7,20	5,90	0,30	●	●	–	–	–	–
sinistro									
D4FIX140608LMN	6,70	5,90	0,80	–	●	–	–	–	–



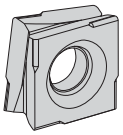


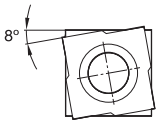
C8FIX-RN

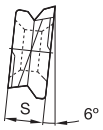
codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
C8FIX150612RRN	8,60	6,60	1,20	–	●	–	–	–	–
C8FIX150608RRN	8,90	6,60	0,80	●	●	●	–	–	●
C8FIX150605RRN	9,10	6,60	0,50	●	●	●	–	●	●
C8FIX180812RRN	10,60	7,90	1,20	–	●	●	–	–	●
C8FIX180808RRN	10,90	7,90	0,80	–	●	●	–	–	–
sinistro									
C8FIX150612LRN	8,60	6,60	1,20	–	●	–	–	–	–
C8FIX150608LRN	8,90	6,60	0,80	–	●	–	–	–	●
C8FIX150605LRN	9,10	6,60	0,50	–	●	●	–	–	●
C8FIX180812LRN	10,60	7,90	1,20	–	●	–	–	–	–

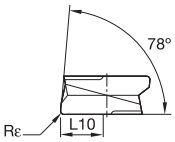
KENNAMETAL

beyond







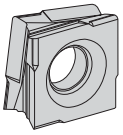


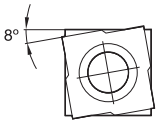
● prima scelta
○ scelta alternativa

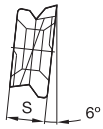
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

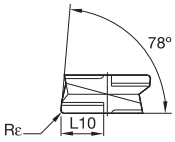
C8FIX-RP

codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
C8FIX120508RRP	6,90	5,50	0,80	●	●	–	–	–	–
C8FIX120505RRP	7,10	5,50	0,50	–	●	–	–	–	●
C8FIX120504RRP	7,20	5,50	0,40	●	●	–	–	–	–
C8FIX120503RRP	7,30	5,50	0,30	–	●	●	–	–	–
sinistro									
C8FIX120508LRP	6,90	5,50	0,80	–	●	●	–	–	–
C8FIX150612LRP	7,80	6,60	1,20	–	●	–	–	–	–
C8FIX150608LRP	8,80	6,60	0,80	–	–	–	–	–	●







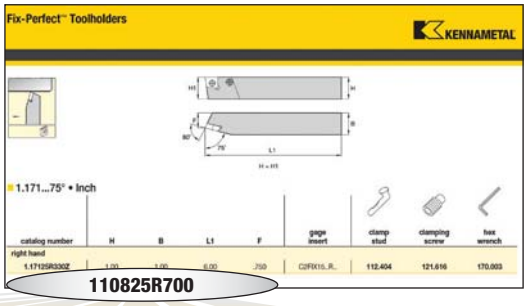


C8FIX-MP

codice catalogo	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
destro									
C8FIX120503RMP	7,30	5,50	0,30	–	●	–	–	●	●
C8FIX150603RMP	9,30	6,60	0,30	●	●	●	–	●	●
C8FIX180805RMP	11,10	7,90	0,50	–	●	–	–	–	–
sinistro									
C8FIX120503LMP	7,30	5,50	0,30	●	●	–	–	●	–
C8FIX150603LMP	9,30	6,60	0,30	–	●	–	–	–	–

Come utilizzare i codici del catalogo

Ciascuna cifra dei codici numerici reperibili nel nostro catalogo indica una specifica caratteristica del prodotto corrispondente al codice. Le seguenti colonne di riferimento e le figure corrispondenti consentono di identificare facilmente le caratteristiche attribuibili al prodotto.



1	1	08	25	R	7	0	0
Programma di tornitura	Numero di frese	Versione	Dimensioni albero	Direzione di lavorazione	Dimensione e tipo dell'inserto	Forma inserto	Supporto vite di bloccaggio

1 = Fix-Perfect

1 = Inserti con 2 taglienti

3 = Inserti con 4 taglienti

7 = Inserti con 8 taglienti

08 = Regolazione a 90° o 93°, per lavorazione di alluminio

16 = Angolo di registrazione a 92°

20 = Angolo di registrazione a 92°

22 = Angolo di registrazione a 92°

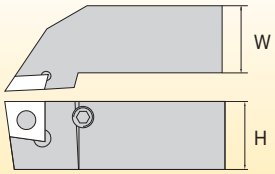
30 = Angolo di registrazione a 75°

71 = Angolo di registrazione a 75°

72 = Angolo di registrazione a 45°

77 = Angolo di registrazione a 90°

80 = Angolo di registrazione a 90°



Toolholder

10 = 10 x 10mm

11 = 40 x 40mm

16 = 16 x 16mm

20 = 20 x 20mm

21 = 50 x 50mm

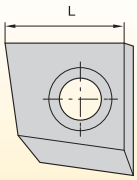
25 = 25 x 25mm

32 = 32 x 25mm
32 x 32mm

40 = 40 x 32mm

R = A destra

L = A sinistra



	L	taglienti
0	8mm 20mm 25mm	4 4 4
1	10,5mm 12mm	2 8
3	14,5mm 15mm	2 8
4	17,5mm 18mm	2 8
5	23,5mm 21mm	2 8
7	10,5mm	2 Alu

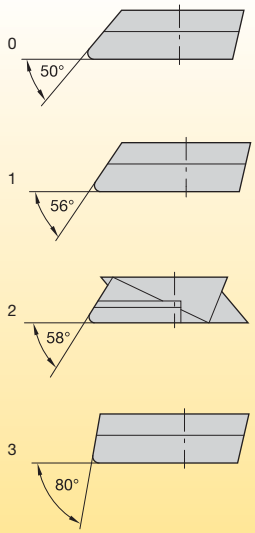
0 = Attivato dal tagliente principale

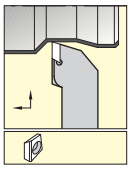
1 = Tagliente minore

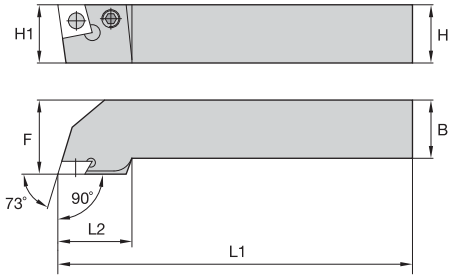
2 = Sopra esposto

5 = Tagliente principale con cartuccia affilata completa

6 = Tagliente minore con cartuccia affilata completa



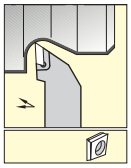


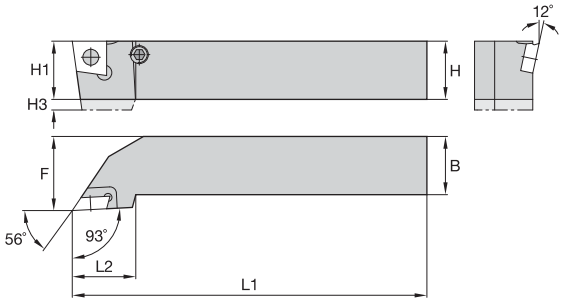


H = H1

1.108...90° • Sistema metrico

codice catalogo	H	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
destro								
1.10825R700	25	25	150,0	32,0	E2FIX10..R..	**410.081**	**121.616**	**170.003**

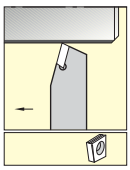


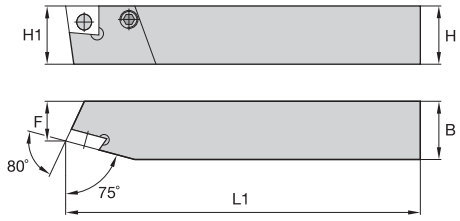


H = H1

1.108...93° • Sistema metrico

codice catalogo	H	H3	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
destro									
1.10820R310	20	5	20	125,0	25,0	D2FIX15..RHP/FN/MS	**112.403**	**121.612**	**170.003**
1.10825R310	25	—	25	150,0	32,0	D2FIX15..RHP/FN/MS	**112.404**	**121.616**	**170.003**
sinistro									
1.10825L310	25	5	25	150,0	32,0	D2FIX15..LHP/FN/MS	**112.404**	**121.616**	**170.003**

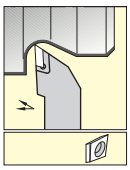


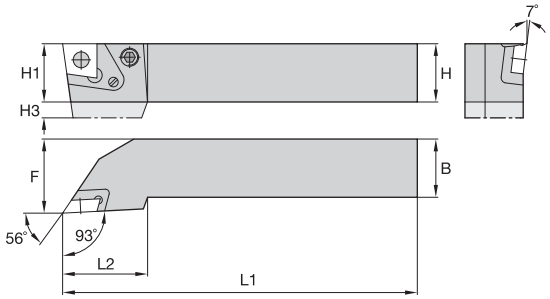


H = H1

1.171...75° • Sistema metrico

codice catalogo	H	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
sinistro								
1.17125L330	25	25	150,0	17,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**

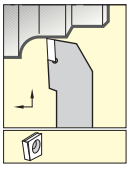


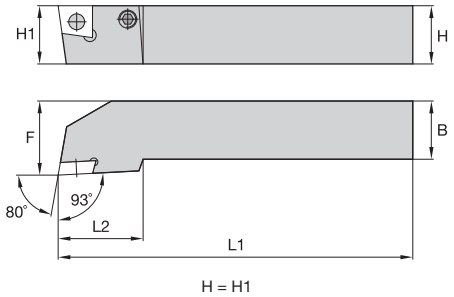


H = H1

1.18 • Sistema metrico

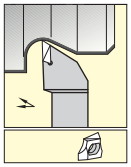
codice catalogo	H	H3	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale	assemblaggio della cartuccia
destro										
1.18016R110	16	4	16	100,0	24,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	**–**
1.18020R110	20	–	20	125,0	25,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	**–**
1.18020R310	20	5	20	125,0	26,0	D2FIX15..R..	**112.403**	**121.612**	**170.003**	**–**
1.18025R110	25	–	25	150,0	32,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	**–**
1.18025R310	25	–	25	150,0	32,0	D2FIX15..R..	**112.404**	**121.616**	**170.003**	**–**
1.18025R315	25	7	25	150,0	32,0	D2FIX15..R..	**112.505**	**121.616**	**170.003**	**132.151**
1.18032R315	32	–	25	170,0	32,0	D2FIX15..R..	**112.505**	**121.616**	**170.003**	**132.151**
sinistro										
1.18016L110	16	4	16	100,0	24,0	D2FIX11..L..	**112.244**	**121.612**	**170.003**	**–**
1.18020L110	20	–	20	125,0	25,0	D2FIX11..L..	**112.244**	**121.612**	**170.003**	**–**
1.18025L310	25	–	25	150,0	32,0	D2FIX15..L..	**112.404**	**121.616**	**170.003**	**–**
1.18025L315	25	7	25	150,0	32,0	D2FIX15..L..	**112.505**	**121.616**	**170.003**	**132.156**
1.18032L315	32	–	25	170,0	32,0	D2FIX15..L..	**112.505**	**121.616**	**170.003**	**132.156**

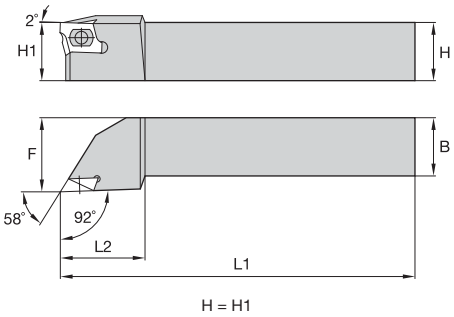




1.180...93° • Sistema metrico

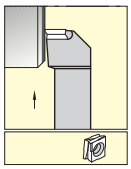
codice catalogo	H	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
sinistro								
1.18025L330	25	25	150,0	32,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**

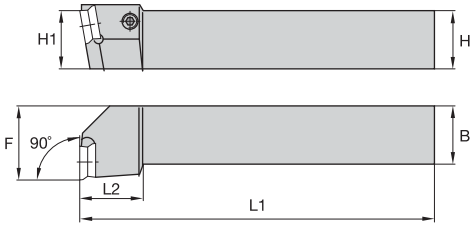




1.380...92° • Sistema metrico

codice catalogo	H	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
destro								
1.38020R021	20	20	125,0	25,0	D4FIX..R..	**114.111**	**121.812**	**170.004**
1.38025R021	25	25	150,0	32,0	D4FIX..R..	**114.114**	**121.816**	**170.004**
sinistro								
1.38025L021	25	25	150,0	32,0	D4FIX..L..	**114.114**	**121.816**	**170.004**



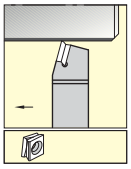


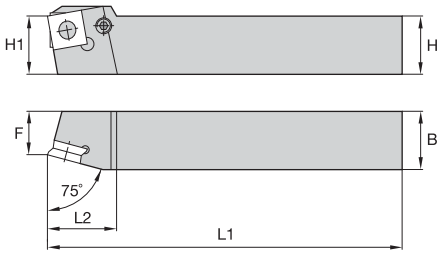
H = H1

1.777...90° • Sistema metrico

codice catalogo	H	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
destro								
1.77725R301	25	25	150,0	32,0	C8FIX15..L..	**118.314**	**121.816**	**170.004**

NOTA: L'utensile destro richiede un inserto sinistro.

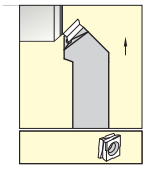


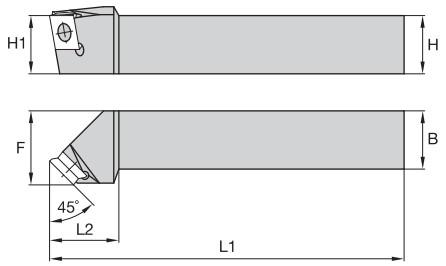


H = H1

1.771...75° • Sistema metrico

codice catalogo	H	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
destro								
1.77120R100	20	20	125,0	17,0	C8FIX12..R..	**118.204**	**121.612**	**170.003**
1.77125R300	25	25	150,0	21,0	C8FIX115..R..	**410.084**	**121.816**	**170.004**
1.77132R400	32	32	170,0	27,0	C8FIX18..R..	**410.091**	**–**	**–**
sinistro								
1.77120L100	20	20	125,0	17,0	C8FIX12..L..	**118.204**	**121.612**	**170.003**



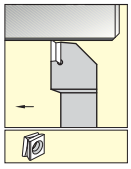


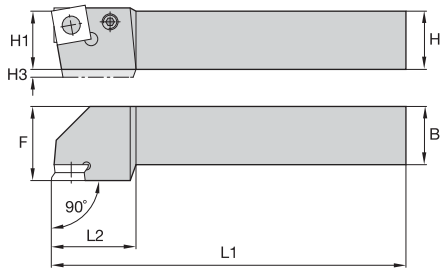
H = H1

1.772...45° • Sistema metrico

codice catalogo	H	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
destro								
1.77225R301	25	25	150,0	32,0	C8FIX15..L..	**118.314**	**121.816**	**170.004**

NOTA: C8FIX15..L.. è utilizzabile solo per la fresatura a tuffo.
Per la fresatura a tuffo e la tornitura, utilizzare C4FIX15..L...





H = H1

1.780...90° • Sistema metrico

codice catalogo	H	H3	B	L1	F	inserto di riferimento	perno di fissaggio	vite di serraggio	chiave esagonale
destro									
1.78012R103	12	–	12	80,0	14,0	C8FIX12..R..	**–**	**–**	**170.003**
1.78016R100	16	4	16	100,0	25,0	C8FIX12..R..	**118.204**	**121.616**	**170.003**
1.78020R100	20	–	20	125,0	25,0	C8FIX12..R..	**118.204**	**121.616**	**170.003**
1.78025R100	25	–	25	150,0	32,0	1.81201R...	**118.204**	**121.616**	**170.003**
1.78025R300	25	–	25	150,0	32,0	C8FIX15..R..	**410.084**	**121.816**	**170.004**
1.78032R400	32	–	32	170,0	40,0	C8FIX18..R..	**410.091**	**121.825**	**170.004**
sinistro									
1.78025L100	25	–	25	150,0	32,0	1.81202L...	**118.204**	**121.616**	**170.003**
1.78025L300	25	–	25	150,0	32,0	C8FIX15..L..	**410.084**	**121.816**	**170.004**

Utensili di scanalatura e inserti **Beyond**™ per operazioni di scanalatura poco profonda e tornitura

Top Notch™

La scanalatura Top Notch è la migliore soluzione per aumentare la produttività. Il sistema Top Notch fornisce prestazioni costanti, un indexaggio preciso e un maggiore fissaggio per offrire un'eccellente finitura superficiale e una maggiore durata dell'utensile.

CARATTERISTICHE E VANTAGGI

- Le qualità Beyond rivestite in PVD sono state progettate per le lavorazioni di una vasta gamma di materiali.
- Il bloccaggio rigido fissa saldamente l'inserto in posizione per i tagli più difficili.
- Il design versatile consente a un sistema di gestire le operazioni di scanalatura diametro interno ed esterno, scanalatura frontale, tornitura posteriore, sottosquadra e persino le operazioni di filettatura.
- Gli inserti con rompitruciolo consentono un'eccellente evacuazione nella scanalatura ed offrono un migliore controllo nella tornitura multidirezionale.

Scoprite i vantaggi presso il partner di distribuzione autorizzato Kennametal o visitate il sito **kennametal.com**.

KENNAMETAL®

kennametal.com

Profilatura Top Notch™ Beyond™

Il sistema Top Notch è la migliore soluzione per incrementare la produttività. Il sistema Top Notch fornisce prestazioni costanti, un indexaggio preciso e un maggiore fissaggio per offrire un'eccellente finitura superficiale e una maggiore durata dell'utensile.

Caratteristiche e vantaggi

Qualità Beyond™

Maggiore produttività e redditività

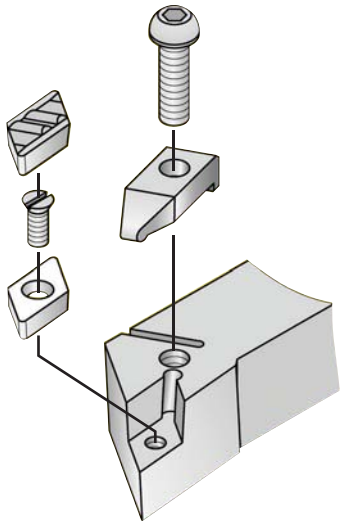
- Le forze di taglio ridotte aumentano la velocità e riducono il tempo ciclo.
- Maggiore durata dell'utensile.

Affidabilità

- Durata prevedibile dell'utensile/usura uniforme.
- Resiste ai danni derivanti dall'evacuazione del truciolo.
- Finitura superficiale uniforme.

Versatilità

- I prodotti possono essere utilizzati per un'ampia gamma di applicazioni.
- Per lavorazioni a bassa e alta velocità.
- Portafoglio completo di prodotti.
- Per applicazioni dalla tornitura di finitura alla tornitura di sgrossatura di acciaio, ghisa, acciaio inossidabile e leghe resistenti al calore.



Geometria FP

- Maggiore volume di truciolo asportato.
- Versatilità.
- Lunga durata dell'utensile.
- Ottimo controllo del truciolo su un'ampia gamma di condizioni di taglio e materiali da lavorare.
- Miglioramento della finitura superficiale.
- Miglior capacità di indexaggio.
- Riduzione delle operazioni di regolazione durante il cambio dell'inserto.

Geometria UF

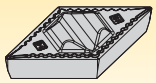
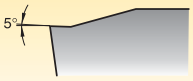
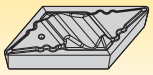
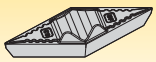
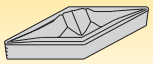
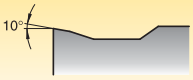
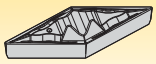
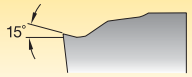
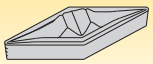
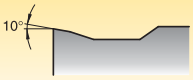
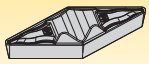
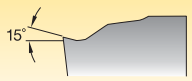
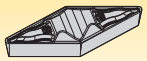
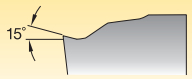
- Riduce le forze di taglio.
- Lunga durata dell'utensile.
- Ottimo controllo del truciolo su un'ampia gamma di condizioni di taglio.
- Controllo del truciolo nelle applicazioni di finitura.

Geometria HP

- Riduce le forze di taglio.
- Lunga durata dell'utensile.
- Vengono evitate interferenze per migliorare la finitura superficiale del pezzo.
- Miglior capacità di indexaggio.
- Buon controllo delle dimensioni del lavoro.
- Riduce l'adesione di materiale sul pezzo.

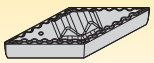
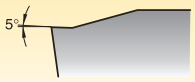
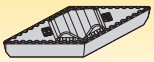
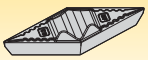
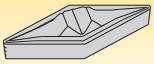
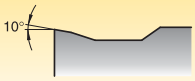
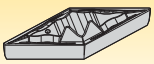
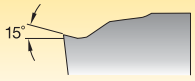
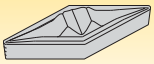
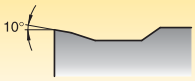
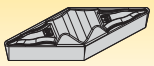
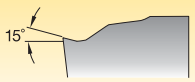
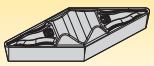
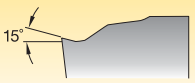
Selezionare la geometria in base alla velocità di avanzamento e alla profondità di taglio

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

operazione	applicazione tipo di inserto	Geometria dell'inserto	profilo	velocità di avanzamento — mm: 0,04 0,063 0,01 0,16 0,25 0,4 0,63 1,0 1,6 2,5 5,0 / profondità di taglio — mm: 0,1 0,16 0,25 0,4 0,63 1,0 1,6 2,5 4,0 6,3 10,0
Finitura di precisione	DCGR-UF			0,1–0,3 0,1–1,3
	KCGR-UF			0,1–0,3 0,1–1,3
Finitura	DCGR			0,1–0,3 0,1–1,3
	KCGR			0,1–0,4 0,3–2,0
	DCGR-FP			0,063–0,25 0,16–1,6
	DCGR-HP			0,1–0,4 0,3–2,0
	KCGR-FP			0,063–0,25 0,16–1,6
	KCGR-HP			0,063–0,25 0,16–1,6

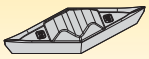
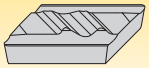
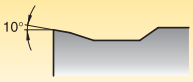
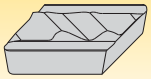
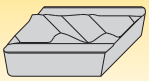
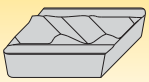
Selezionare la geometria in base alla velocità di avanzamento e alla profondità di taglio

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

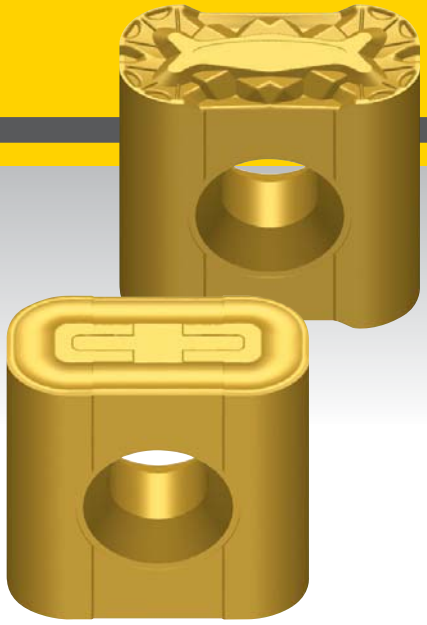
operazione	applicazione tipo di inserto	Geometria dell'inserto	profilo	velocità di avanzamento — mm: 0,04 0,063 0,01 0,16 0,25 0,4 0,63 1,0 1,6 2,5 5,0 / profondità di taglio — mm: 0,1 0,16 0,25 0,4 0,63 1,0 1,6 2,5 4,0 6,3 10,0
Finitura di precisione	VBMR-UF			0,1–0,3 0,1–1,3
	VCMR-UF			0,1–0,3 0,1–1,3
	VPGR-UF			0,1–0,3 0,1–1,3
Finitura	VBMR			0,1–0,4 0,3–2,0
	VBMR-FP			0,063–0,25 0,16–1,6
	VCGR			0,1–0,4 0,3–2,0
	VCMR-FP			0,063–0,25 0,16–1,6
	VPGR-FP			0,063–0,25 0,16–1,6

Selezionare la geometria in base alla velocità di avanzamento e alla profondità di taglio

P	Acciaio
M	Acciaio inossidabile
K	Ghisa
N	Materiali non ferrosi
S	Leghe resistenti al calore
H	Materiali temprati

operazione	applicazione tipo di inserto	Geometria dell'inserto	profilo	velocità di avanzamento — mm: 0,04 0,063 0,01 0,16 0,25 0,4 0,63 1,0 1,6 2,5 5,0 / profondità di taglio — mm: 0,1 0,16 0,25 0,4 0,63 1,0 1,6 2,5 4,0 6,3 10,0
Finitura	**VPGR-HP**			0,2–0,4 0,6–2,3
Finitura	**KNGX-15**			0,2–0,4 0,8–2,8
Finitura	**KNGX-20**			0,2–0,5 1,0–3,0
	KNGX-25			0,3–0,6 1,1–3,6
Finitura	**KNGX-32**			0,3–0,7 1,5–5,1

Utensili Kennametal per lavorazioni ferroviarie e di ruote



Kennametal offre una linea completa di utensileria per la manutenzione delle ruote e degli assi nelle officine ferroviarie. Tutti gli utensili, realizzati con le più recenti tecnologie, garantiscono una maggior produttività e il massimo volume di truciolo asportato. Le prestazioni di tutti gli utensili vengono verificate nel corso di lavorazioni effettive, per periodi di tempo prolungati, in un'ampia gamma di condizioni operative. Inserti standard direttamente da magazzino e un numero ridotto di corpi utensili riducono i costi operativi e di inventario. Questa gamma comprende utensili per il ricondizionamento degli assili assemblati, la tornitura e la barenatura delle ruote, la tornitura degli assili e il ripristino periodico.

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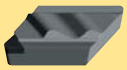
Passo 1 • Scegliere la geometria dell'inserto

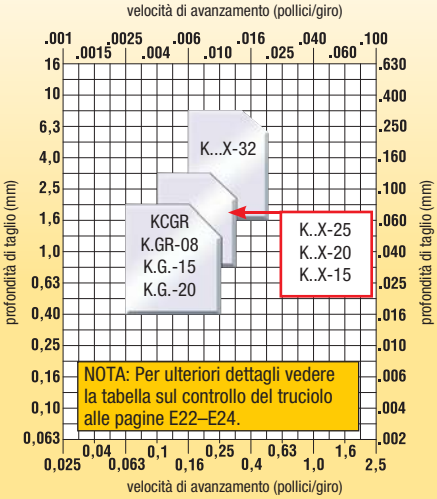
Inserti negativi

-K...X-32
Sgrossatura

-K...X-25–K...X-15,
Lavorazione media



-K. GR-08, K.G.-15,
K.G.-20
Finitura



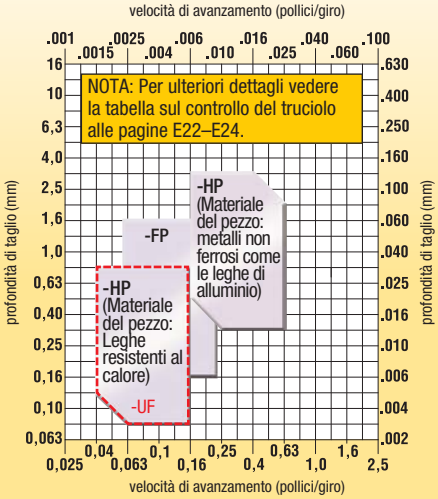
Inserti positivi

-VCMR
Lavorazione media

-.CGR, VBMR
Finitura

-VCGN
Finitura

-KCGR
Finitura



Range di controllo del truciolo
-UF: avanzamento 0,08–0,3mm/giro; DOC 0,1–1,3mm
-FP: avanzamento 0,1–0,3mm/giro; DOC 0,1–1,3mm
-HP: avanzamento 028–0,4mm/giro; DOC 0,6–2,3mm

Passo 2 • Scegliere la qualità

		Acciaio			Acciaio inossidabile		
condizione di taglio		**Finitura**	**Lavorazione media**	**Sgrossatura**	**Finitura**	**Lavorazione media**	**Sgrossatura**
taglio fortemente interrotto		KCP25	KCM25	KCM25	KCM25	KCM25	KCM25
taglio leggermente interrotto		KCP10	KCP25	KCP25	KC5010/KCU10	KC5025/KCU25	KC5025/KCU25
profondità di taglio variabile, superfici di fusione o di forgiatura		KT315	KCP25	KCP25	KT315	KCM25	KCM25
taglio uniforme, superficie pre-tornita		KT315	KCP05/KCP10	KCP10	KT315	KC5010/KCU10	KCM25

		Ghisa			Materiali non ferrosi		
condizione di taglio		**Finitura**	**Lavorazione media**	**Sgrossatura**	**Finitura**	**Lavorazione media**	**Sgrossatura**
taglio fortemente interrotto		KCP10	KCP10	KCP10	KC5010/KCU10	KC5010/KCU10	KC5010/K313/ KCU10
taglio leggermente interrotto		KCP05	KCP05	KCP05	KC5410/KD1425	KC5010/KCU10	KC5010
profondità di taglio variabile, superfici di fusione o di forgiatura		KCK05	KCK05	KCK05	KD1425	KC5410	KC5410
taglio uniforme, superficie pre-tornita		KC5010/KCU10	KC5010/KCU10	KC5010/KCU10	KD1425	KC5410	KC5410

	Leghe resistenti al calore		
condizione di taglio	**Finitura**	**Lavorazione media**	**Sgrossatura**
taglio fortemente interrotto	KC5025/KUC25	K68	K68
taglio leggermente interrotto	KC5010	KC5010	KCM25
profondità di taglio variabile, superfici di fusione o di forgiatura	KC5010	KC5010	KC5010
taglio uniforme, superficie pre-tornita	KC5010/KCU10/ K313	KC5010/KCU10	KC5010

Scegliere la velocità di taglio

Acciaio — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	50 (170)	100 (330)	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	m/min	SFM
P	KT315					◁▷				260	850
	KCP05/KCP10					◁▷				340	800
	KCP25				◁▷					180	600
	KCM25			◁▷						165	550

Acciaio inossidabile — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	50 (170)	100 (330)	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	m/min	SFM
M	KT315			◁▷						230	750
	KC5010/KCU10				◁▷					180	600
	KC5025/KCU25		◁▷							120	400
	KCM25			◁▷						150	500

Ghisa — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	500 (1600)	750 (2400)	m/min	SFM
K	KB1345								◁▷	760	2520
	KT315				◁▷					275	900
	KC5010/KCU10			◁▷						245	800
	KCK20			◁▷						245	800
	KCP25			◁▷						230	750

Materiali non ferrosi — velocità — m/min (sfm) — condizioni iniziali ◁▷

gruppo materiali	qualità	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	m/min	SFM
N	K01425			◁▷						765	2500
	KC5410		◁▷							550	1800
	KC5010/KCU10		◁▷							460	1500
	K68/K313	◁▷								150	500

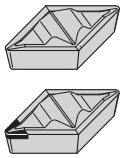
Leghe resistenti al calore — velocità — m/min (sfm) — condizioni iniziali ◁▷

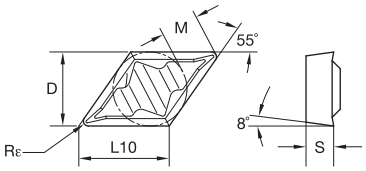
gruppo materiali	qualità	15 (50)	40 (120)	55 (180)	80 (250)	100 (330)	170 (550)	200 (655)	120 (400)	m/min	SFM
S	KC5010/KCU10				◁▷					60	200
	KC5025/KCU25			◁▷						50	170
	KCM25				◁▷					70	230
	K68/K31360		◁▷							30	100

◁▷ Rappresenta le condizioni iniziali consigliate. Da ottimizzare in base all'applicazione specifica.

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

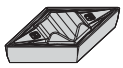
● prima scelta
○ scelta alternativa

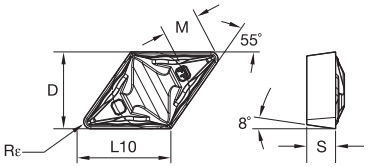




DCGR • DPGR

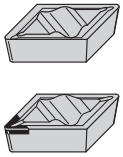
codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
DCGR150404	12,70	15,50	4,76	6,94	0,4	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
DCGR150408	12,70	15,50	4,76	6,48	0,8	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	●
DCGR150412	12,70	15,50	4,76	6,01	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–

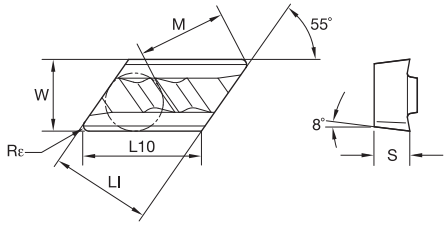




DCGR-FP • DPGR-FP

codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
DCGR150404FP	12,70	15,50	4,76	6,94	0,4	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–
DCGR150408FP	12,70	15,50	4,76	6,48	0,8	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–



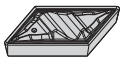


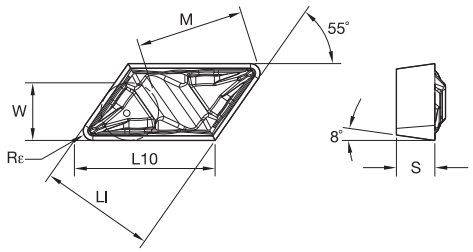
● prima scelta
○ scelta alternativa

	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P	●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M	●	●	●					●	●	●	●	●	●	●		●	
K	●	●	●	○	○	○	●				●	●	●	●		●	
N	●	●	●								●	●	●	●	●		●
S	●	●	●					●	●	●	●	●	●	●			
H																	

KCGR • NPGR

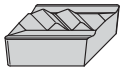
codice catalogo ISO	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
destro																							
KCGR110304R08	9,53	11,60	6,35	3,18	9,10	0,4	●	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	●
KCGR110308R08	9,53	11,60	6,35	3,18	8,66	0,8	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–
sinistro																							
KCGR110308L08	9,53	11,60	6,35	3,18	8,66	0,8	–	–	–	–	–	–	–	●	–	–	●	●	–	●	–	–	●
KCGR110304L08	9,53	11,60	6,35	3,18	9,10	0,4	●	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–

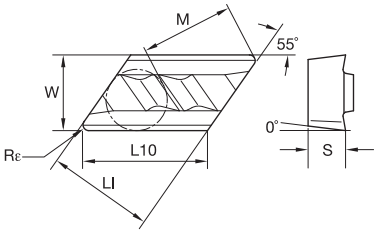




KCGR-FP • NPGR-FP

codice catalogo ISO	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
destro																							
KCGR110304R08FP	9,52	11,60	6,35	3,18	9,13	0,4	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–
KCGR110308R08FP	9,52	11,63	6,35	3,18	8,73	0,8	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
sinistro																							
KCGR110308L08FP	9,52	11,63	6,35	3,18	8,73	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–
KCGR110304L08FP	9,52	11,60	6,35	3,18	9,13	0,4	–	–	–	●	–	●	–	–	–	●	–	●	–	–	–	–	–





● prima scelta
○ scelta alternativa

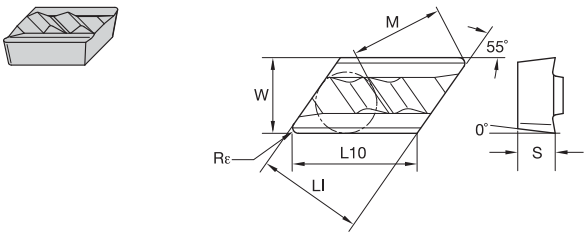
		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

KNGX • NPR/L

codice catalogo ISO	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
destro																							
KNGX150404R20	12,68	15,44	9,47	4,76	13,46	0,4	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX150408R20	12,68	15,44	9,47	4,76	12,99	0,8	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
KNGX150401R15	12,70	15,44	9,53	4,76	13,76	0,1	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNGX150402R15	12,70	15,44	9,53	4,76	13,67	0,2	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNGX220404R25	18,62	22,73	9,53	4,76	19,91	0,4	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
KNGX220408R32	18,62	22,73	9,53	4,76	19,47	0,8	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
sinistro																							
KNGX150408L20	12,68	15,44	9,47	4,76	12,99	0,8	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX150404L20	12,68	15,44	9,47	4,76	13,46	0,4	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX220408L20	18,62	22,73	9,53	4,76	19,47	0,8	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

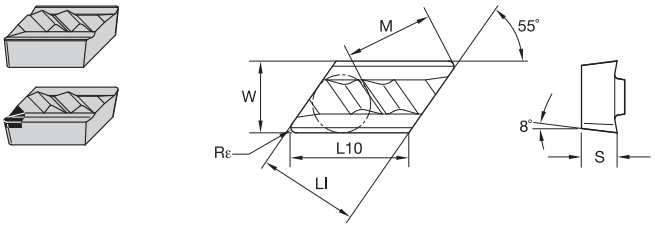
		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

● prima scelta
○ scelta alternativa



KNUX • NPR/L

codice catalogo ISO	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
destro																							
KNUX150405R20	12,70	15,44	9,53	4,76	13,32	0,5	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
KNUX150405R25	12,70	15,44	9,53	4,76	13,32	0,5	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
KNUX150410R25	12,70	15,44	9,53	4,76	12,74	1,0	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX160405R1	16,15	17,51	9,52	4,76	—	0,5	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–
KNUX160405R2	16,15	17,51	9,52	4,76	—	0,5	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160410R1	16,15	17,51	9,52	4,76	—	1,0	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160410R2	16,15	17,51	9,52	4,76	—	1,0	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
sinistro																							
KNUX150410L25	12,70	15,44	9,53	4,76	12,74	1,0	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX150405L25	12,70	15,44	9,53	4,76	13,32	0,5	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX160405L1	16,15	17,51	9,52	4,76	—	0,5	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–
KNUX160405L2	16,15	17,51	9,52	4,76	—	0,5	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

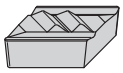


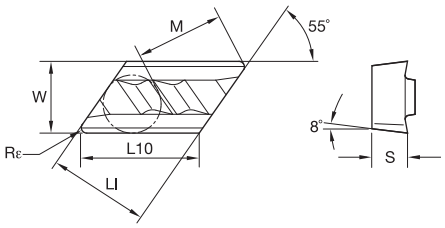
KCGX • NPR/L

codice catalogo ISO	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
destro																							
KCGX110301R15	9,53	11,60	6,35	3,18	9,43	0,1	●	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	●
KCGX110302R15	9,53	11,60	6,35	3,18	9,34	0,2	–	●	–	–	–	–	–	–	–	–	●	●	●	–	–	●	●
KCGX110304R15	9,53	11,60	6,35	3,18	9,11	0,4	●	●	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●
KCGX110308R15	9,57	—	6,33	3,18	8,69	0,8	●	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
sinistro																							
KCGX110304L15	9,53	11,60	6,35	3,18	9,11	0,4	●	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	●
KCGX110302L15	9,53	11,60	6,35	3,18	9,34	0,2	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●
KCGX110301L15	9,53	11,60	6,35	3,18	9,43	0,1	●	●	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●
KCGX110308L15	9,57	—	6,33	3,18	8,69	0,8	●	●	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–

	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P	●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M	●	●	●					●	●	●	●	●	●	●		●	
K	●	●	●	○	○	○	●				●	●	●	●		●	
N	●	●	●								●	●	●	●	●		●
S	●	●	●					●	●	●	●	●	●	●			
H																	

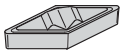
● prima scelta
○ scelta alternativa

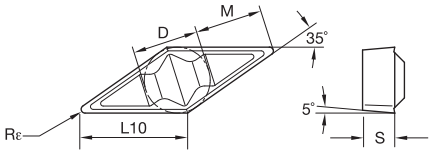




KCUX • NPR/L

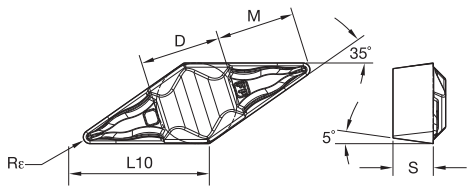
codice catalogo ISO	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
destro																							
KCUX110302R15	9,50	11,60	6,33	3,18	9,40	0,2	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
KCUX110305R15	9,53	11,60	6,35	3,18	9,06	0,5	●	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–
KNUX150405R20	12,70	15,44	9,53	4,76	13,32	0,5	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
sinistro																							
KCUX110302L15	9,46	11,60	6,33	3,18	9,40	0,2	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
KCUX110305L15	9,53	11,60	6,35	3,18	9,06	0,5	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–





VBMR

codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VBMR110304	6,35	11,07	3,18	6,46	0,4	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–

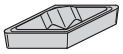


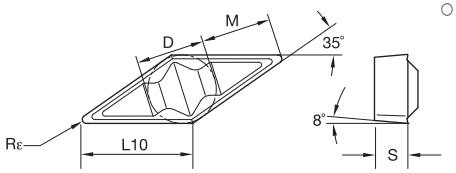
VBMR-FP

codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VBMR110302FP	6,35	11,04	3,18	6,91	0,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
VBMR110304FP	6,35	11,07	3,18	6,46	0,4	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–
VBMR110308FP	6,35	11,07	3,18	5,54	0,8	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–

	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P	●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M	●	●	●					●	●	●	●	●	●	●		●	
K	●	●	●	○	○	○	●				●	●	●	●		●	
N	●	●	●								●	●	●	●	●		●
S	●	●	●					●	●	●	●	●	●	●			
H																	

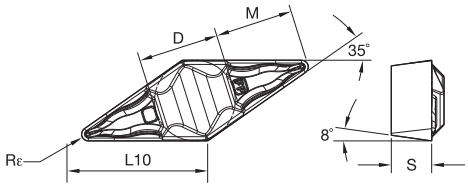
● prima scelta
○ scelta alternativa





VCMR

codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCMR160404	9,53	16,61	4,76	10,15	0,4	–	–	–	–	–	–	–	●	–	–	–	●	●	●	–	●	–
VCMR160408	9,53	16,61	4,76	9,23	0,8	–	–	–	–	–	–	–	●	–	–	●	●	●	●	–	●	–

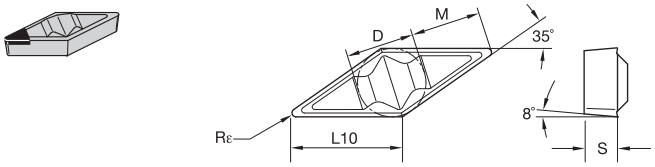


VCMR-FP

codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCMR160404FP	9,52	16,61	4,76	10,15	0,4	–	–	–	●	–	●	–	–	–	●	●	●	–	–	–	–	–
VCMR160408FP	9,52	16,61	4,76	9,23	0,8	–	–	–	●	–	●	●	–	–	●	–	–	–	–	–	–	–

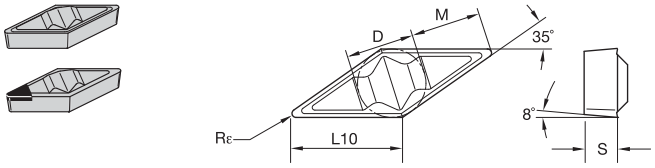
		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

● prima scelta
○ scelta alternativa



VPGN

codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGN160404	9,53	16,61	4,76	10,15	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
VCGN160408	9,53	16,61	4,76	9,23	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

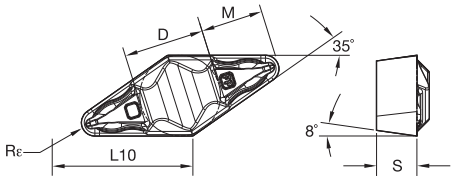


VCGR • VPGR

codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160402	9,53	16,61	4,76	10,60	0,2	●	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
VCGR160404	9,53	16,61	4,76	10,15	0,4	●	●	–	–	–	●	–	–	–	–	●	●	●	●	●	●	●
VCGR160408	9,52	16,61	4,76	9,23	0,8	●	●	–	–	●	–	–	–	–	–	●	●	●	●	●	●	●
VCGR160412	9,53	16,61	4,76	8,31	1,2	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	●
VCGR160416	9,53	16,61	4,76	7,38	1,6	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

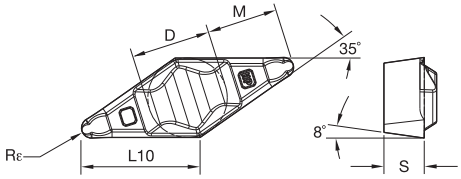
● prima scelta
○ scelta alternativa

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		



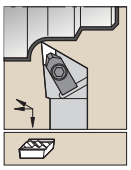
VCGR-FP • VPGR-FP

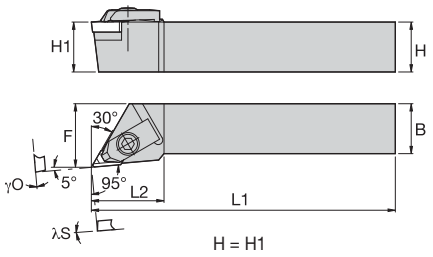
codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160402FP	9,52	16,61	4,76	10,60	0,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
VCGR160404FP	9,52	16,61	4,76	10,15	0,4	–	–	–	●	–	●	–	–	–	●	●	–	–	–	–	–	–
VCGR160408FP	9,52	16,61	4,76	9,23	0,8	–	–	–	●	–	●	●	–	–	●	–	–	–	–	–	–	–
VCGR160412FP	9,52	16,61	4,76	8,31	1,2	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–
VCGR160416FP	9,52	16,61	4,76	7,38	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–



VCGR-HP • VPGR-HP

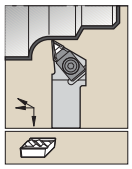
codice catalogo ISO	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160404HP	9,52	16,61	4,76	–	0,4	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

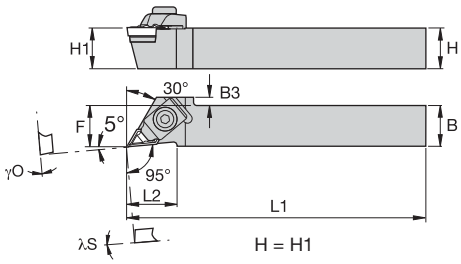




NKLC 95°

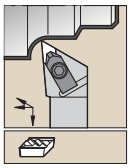
codice catalogo	H	B	F	L1	λS°	γO°	inserto di riferimento	supporto	vite a testa piatta	hex (mm)	staffa	vite staffa	hex (mm)
destro													
NKLCR1616H11	16	16	20,0	100	0.0	0.0	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
NKLCR2020K11	20	20	25,0	125	0.0	0.0	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
NKLCR2525M11	25	25	32,0	150	0.0	0.0	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
sinistro													
NKLCL2020K11	20	20	25,0	125	0.0	0.0	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
NKLCL2525M11	25	25	32,0	150	0.0	0.0	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm

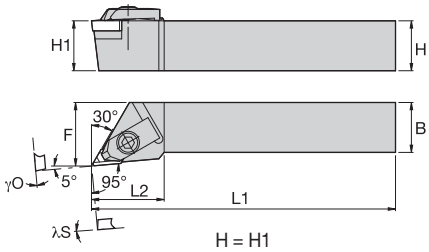




NKLC-F 95°

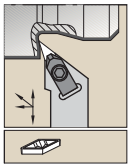
codice catalogo	H	B	F	L1	λS°	γO°	inserto di riferimento	supporto	vite a testa piatta	hex (mm)	staffa	vite staffa	hex (mm)
destro													
NKLCRF1212M11Q	12	12	12,0	150	0.0	0.0	KC..110305R	**SM885**	**MS959**	3 mm	**CM180**	**MS524**	3 mm

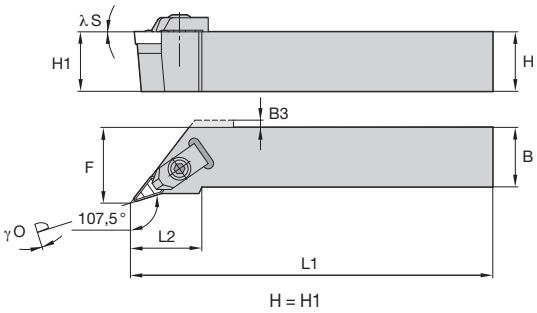




NKLN 95°

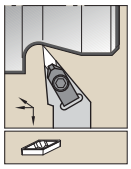
codice catalogo	H	B	F	L1	λS°	γO°	inserto di riferimento	supporto	vite a testa piatta	hex (mm)	staffa	vite staffa	hex (mm)
destro													
NKLNR2020K15	20	20	25,0	125	-2.0	-5.0	KN..150410R	**SM872**	**MS111**	2 mm	**CM66**	**MS625**	4 mm
NKLNR2525M15	25	25	32,0	150	-2.0	-5.0	KN..150410R	**SM872**	**MS111**	2 mm	**CM66**	**MS625**	4 mm
sinistro													
NKLNL2020K15	20	20	25,0	125	-2.0	-5.0	KN..150410L	**SM871**	**MS111**	2 mm	**CM66**	**MS625**	4 mm
NKLNL2525M15	25	25	32,0	150	-2.0	-5.0	KN..150410L	**SM871**	**MS111**	2 mm	**CM66**	**MS625**	4 mm

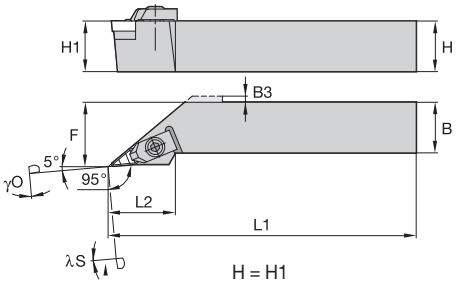




NVHB 107,5°

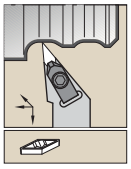
codice catalogo	H	B	F	L1	LH	λS°	γO°	inserto di riferimento	supporto	vite a testa piatta	hex (mm)	staffa	vite staffa	hex (mm)
destro														
NVHBR2020K11	20	20	25,0	125	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM158**	**MS518**	2.5 mm
NVHBR2525M11	25	25	32,0	150	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM158**	**MS518**	2.5 mm
sinistro														
NVHBL2020K11	20	20	25,0	125	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm
NVHBL2525M11	25	25	32,0	150	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm

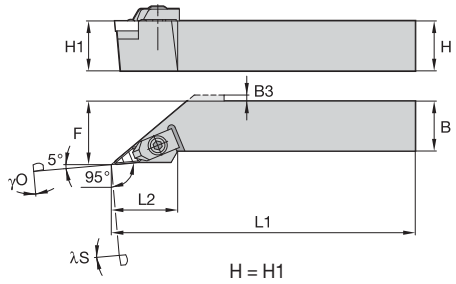




NVLB 95°

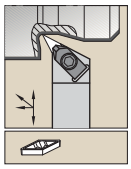
codice catalogo	H	B	F	L1	LH	λS°	γO°	inserto di riferimento	supporto	vite a testa piatta	hex (mm)	staffa	vite staffa	hex (mm)
destro														
NVLBR2020K11	20	20	25,0	125	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM158**	**MS518**	2.5 mm
NVLBR2525M11	25	25	32,0	150	32,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM158**	**MS518**	2.5 mm
sinistro														
NVLBL2020K11	20	20	25,0	125	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm
NVLBL2525M11	25	25	32,0	150	32,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm

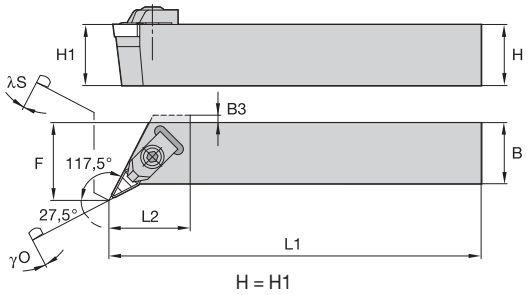




NVLC 95°

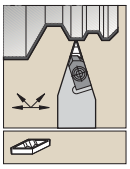
codice catalogo	H	B	F	L1	LH	B3	λS°	γO°	inserto di riferimento	supporto	vite a testa piatta	hex (mm)	staffa	vite staffa	hex (mm)
destro															
NVLCR1616H16	16	16	20,0	100	37,0	5,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVLCR2020K16	20	20	25,0	125	37,0	—	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVLCR2525M16	25	25	32,0	150	37,0	—	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVLCR3225P16	32	25	32,0	170	37,0	—	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
sinistro															
NVLCL2020K16	20	20	25,0	125	37,0	—	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm
NVLCL2525M16	25	25	32,0	150	37,0	—	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm
NVLCL3225P16	32	25	32,0	170	37,0	—	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm

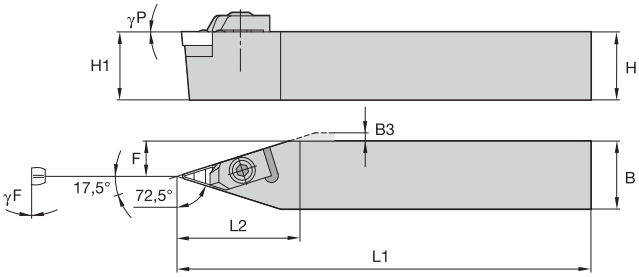




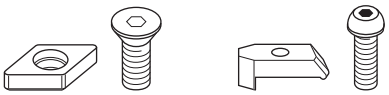
NVOC 117,5°

codice catalogo	H	B	F	L1	LH	B3	λS°	γO°	inserto di riferimento	supporto	vite a testa piatta	hex (mm)	staffa	vite staffa	hex (mm)
destro															
NVOCR2020K16	20	20	32,0	125	29,0	3,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVOCR2525M16	25	25	32,0	150	29,0	3,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
sinistro															
NVOCL2020K16	20	20	32,0	125	29,0	3,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm
NVOCL2525M16	25	25	32,0	150	29,0	3,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm

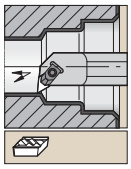




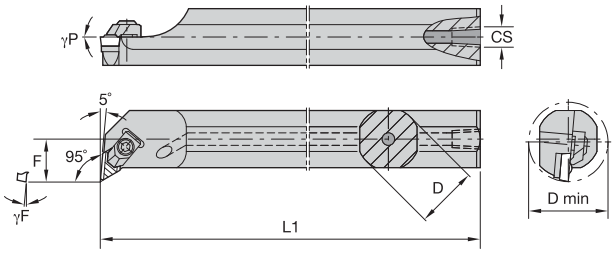
NVVC 72,5°



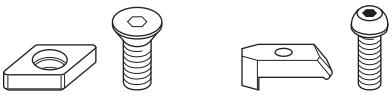
codice catalogo	H	B	F	L1	LH	B3	γF°	γP°	inserto di riferimento	vite a testa piatta	shim screw	hex (mm)	staffa	vite staffa	hex (mm)
NVVCN2020K16	20	20	10,0	125	42,0	2,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVVCN2525M16	25	25	12,5	150	42,0	—	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm



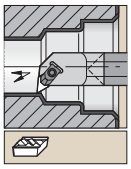
Codolo in acciaio con adduzione interna di refrigerante.



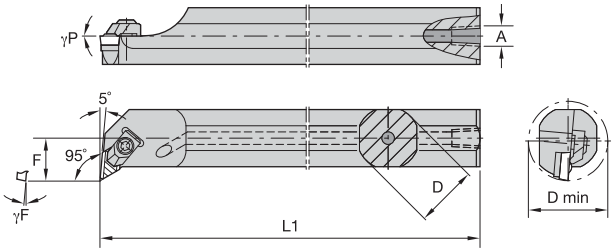
A-NKLC 95°



codice catalogo	D	D min	F	L1	CS	γF°	γP°	inserto di riferimento	supporto	vite a testa piatta	hex	staffa	vite staffa	hex
destro														
A12MNKLCR11	12	16,0	9,0	150	1/16-27 NPT	-5.0°	0.0°	KC..110305R	—	—	2.5 mm	**CM106**	**MS518**	2.5 mm
A16MNKLCR11	16	20,0	11,0	150	1/8-27 NPT	-7.0°	0.0°	KC..110305L	**SM886**	**MS959**	2.5 mm	**CM106**	**MS518**	2.5 mm
A20QNKLCR11	20	25,0	13,0	180	1/8-27 NPT	-5.0°	0.0°	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
A25RNKLCR11	25	32,0	16,0	200	1/4-18 NPT	-5.0°	0.0°	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
A32SNKLCR11	32	40,0	22,0	250	1/4-18 NPT	-5.0°	0.0°	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
sinistro														
A12MNKLCL11	16	20,0	11,0	150	1/8-27 NPT	-7.0°	0.0°	KC..110305L	—	—	2.5 mm	**CM106**	**MS518**	2.5 mm
A16MNKLCL11	16	20,0	11,0	150	1/8-27 NPT	-7.0°	0.0°	KC..110305R	**SM885**	**MS959**	2.5 mm	**CM105**	**MS518**	2.5 mm
A20QNKLCL11	20	25,0	13,0	180	1/8-27 NPT	-5.0°	0.0°	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
A25RNKLCL11	25	32,0	16,0	200	1/4-18 NPT	-5.0°	0.0°	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm

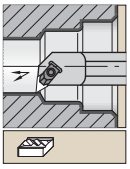


Codolo in metallo duro con adduzione interna di refrigerante.

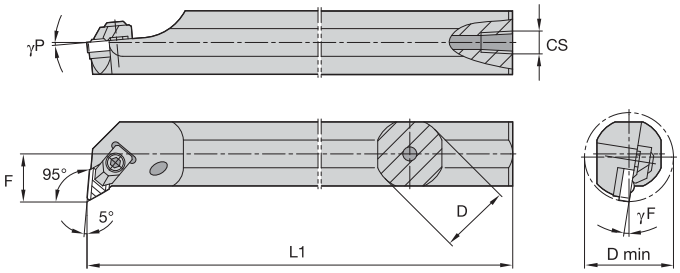


E-NKLC 95°

codice catalogo	D	D min	F	L1	A	γF°	γP°	inserto di riferimento	supporto	vite a testa piatta	hex	staffa	vite staffa	hex
destro														
E12QNKLCR11	12	16,0	9,0	180	4,8	-5.0°	0.0°	KC..110308L	–	–	2.5 mm	**CM106**	**MS518**	2.5 mm
E16RNKLCR11	16	20,0	11,0	200	5,5	-5.0°	0.0°	KC..110308L	**SM886**	**MS959**	2.5 mm	**CM106**	**MS518**	2.5 mm
sinistro														
E12QNKLCL11	12	16,0	9,0	180	4,8	-5.0°	0.0°	KC..110308R	–	–	2.5 mm	**CM105**	**MS518**	2.5 mm

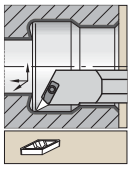


Codolo in acciaio con adduzione interna di refrigerante.

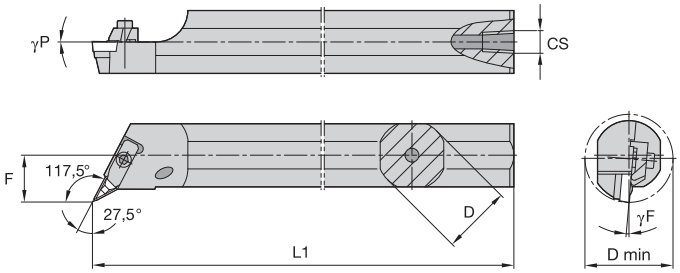


A-NKLN 95°

codice catalogo	D	D min	F	L1	CS	γF°	γP°	inserto di riferimento	supporto	vite a testa piatta	hex	staffa	vite staffa	hex
destro														
A40TNKLNR15	40	50,0	27,0	300	1/4-18 NPT	-5.0°	-5.0°	KN..150410L	**SM871**	**MS111**	4 mm	**CM66**	**MS624**	4 mm

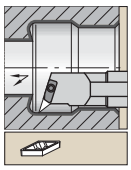


Codolo in acciaio con adduzione interna di refrigerante.

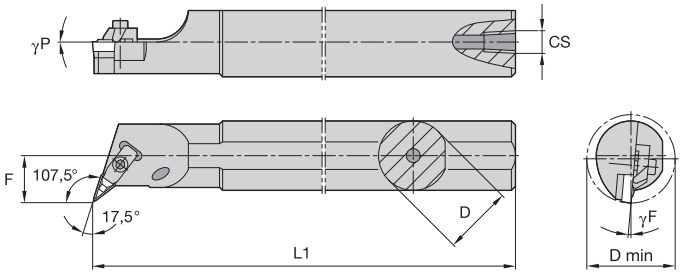


A-NVOC 117,5°

codice catalogo	D	D min	F	L1	CS	γF°	γP°	inserto di riferimento	supporto	vite a testa piatta	hex	staffa	vite staffa	hex
destro														
A32SNVOCR16	32	40,0	22,0	250	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
A50UNVOCR16	50	63,0	35,0	350	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
sinistro														
A32SNVOCL16	32	40,0	22,0	250	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm
A40TNVOCL16	40	50,0	27,0	300	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm

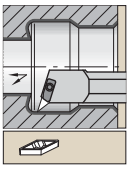


Codolo in acciaio con adduzione interna di refrigerante.

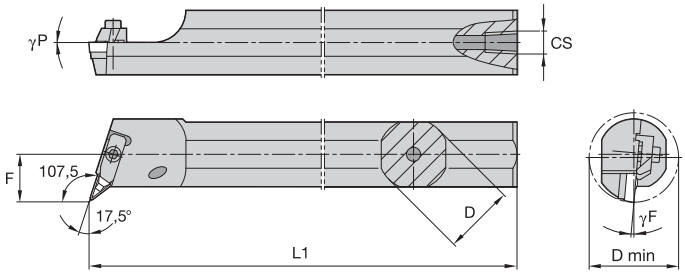


A-NVQB 107,5°

codice catalogo	D	D min	F	L1	CS	γF°	γP°	inserto di riferimento	supporto	vite a testa piatta	hex	staffa	vite staffa	hex
destro														
A25TNVQBR11	25	32,0	17,0	300	1/4-18 NPT	-5.0°	0.0°	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm



Codolo in acciaio con adduzione interna di refrigerante.



A-NVQC 107,5°

codice catalogo	D	D min	F	L1	CS	γF°	γP°	inserto di riferimento	supporto	vite a testa piatta	hex	staffa	vite staffa	hex
destro														
A32SNVQCR16	32	40,0	22,0	250	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm

Industria ferroviaria

La conoscenza approfondita di Kennametal degli aspetti economici della catena di valore nell'industria ferroviaria ci permette di offrire soluzioni personalizzate impareggiabili, realizzate su misura sulle necessità del cliente. Offriamo un valore superiore perché ascoltiamo attentamente voi, i nostri clienti, e realizziamo soluzioni innovative in base al vostro feedback. Il nostro obiettivo è permettervi di diventare più competitivi — nel mercato locale o su scala globale.

Massima esperienza nella produttività

Quale partner affidabile per una produzione sostenibile, Kennametal offre ai propri clienti un impegno unico, volto alla ricerca e all'eccellenza nello sviluppo, con la progettazione costante di elementi innovativi per una maggiore produttività. Certificazione ISO 9001. QS 9000 TES e VDA 6.4 garantiscono i massimi standard qualitativi.

Prestazioni ottimizzate, impatto ambientale ridotto

È possibile ottenere entrambi, grazie alla tecnologia. Kennametal offre ai clienti la propria consulenza, allo scopo di individuare i principali elementi non sostenibili all'interno di sistemi produttivi altamente complessi, permettendo al tempo stesso l'ottimizzazione della struttura dei costi, della qualità e delle prestazioni. Il nostro team di progettazione avanzata vi offrirà utensili e tecnologie all'avanguardia nel settore del taglio di metalli, analizzando inoltre i vostri attuali processi produttivi e aiutandovi a individuare nuove soluzioni per l'ottimizzazione delle prestazioni in generale.

Utensili per torni per ruote

Gli utensili di Kennametal per l'industria ferroviaria sono dotati di unità di bloccaggio dal design esclusivo, sviluppati nel corso degli anni dopo numerosi collaudi di torni per ruote e di ruote di lavorazione con tutti i tipi di superficie di battistrada.

Il design robusto per lavorazioni pesanti si è dimostrato molto efficace nella riduzione dei costi di lavorazione nella tornitura dei battistrada, l'operazione di lavorazione più difficoltosa per i negozi di ruote e assali.

Inserti resistenti, con rompitruciolo dal margine rialzato e taglienti onati, assicurano un controllo del truciolo più efficace e taglienti più robusti. Questa geometria di utensili, unita alla scelta di qualità Kennametal, garantisce una maggiore produttività per la tornitura di ruote.

Assali montati

Vantaggi degli utensili per tornitura ruote di Kennametal:

- Nessuna staffa superiore che impedisca o interferisca con il flusso dei trucioli.
- L'inserto è bloccato su due pareti all'interno del portautensili, al fine di prevenirne qualsiasi movimento nel caso sia soggetto a carichi di taglio elevati.
- Con l'unità di bloccaggio in acciaio temprato, si dispone di una sede per inserti positivi e si ha la sicurezza di protezione del supporto.
- Indexaggio degli inserti veloce e senza errori. Basta allentare una sola vite per rilasciare l'inserto.
- Smontaggio rapido dell'unità di bloccaggio in acciaio e inserto per pulizia o sostituzione.
- Il design delle unità di bloccaggio in acciaio per lavorazioni pesanti prolunga la durata degli utensili e contribuisce a ridurre i costi operativi.
- Meno parti in inventario.
- I portautensili e le unità di bloccaggio prodotti in acciaio legato trattato termicamente offrono una maggiore resistenza nelle più complesse applicazioni di sgrossatura di ruote indurite.

Raggio completo LNUX-RRF

Raggio completo LNUX-RRP

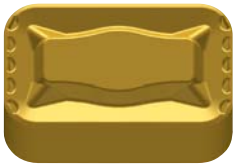
LNUX-RRH

LNUX-RRP

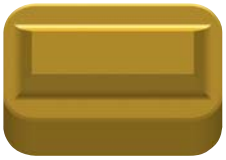
KRR6586-71

KRR6586-75

LNUX-RRSM


KRR6586-65

KRR6586-52

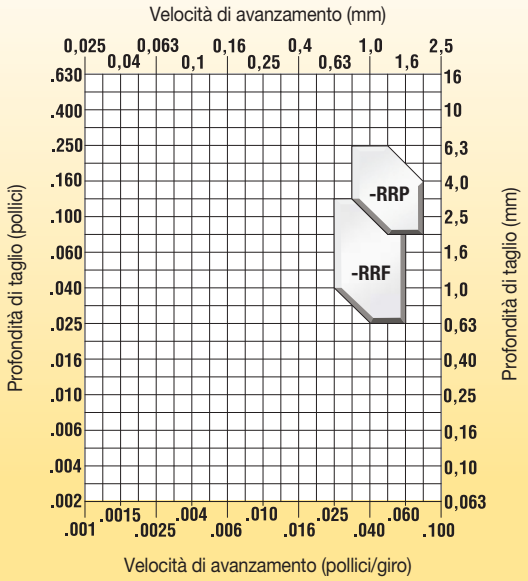

KRR6586-50

LNUX

Design a raggio completo

La nostra geometria di rottura del truciolo RRF e RRP ben eseguita

- Può essere utilizzato un unico inserto sia per la profilatura che per la spianatura.
- Controllo del truciolo ottimizzato anche con DOC minori!



-RRP

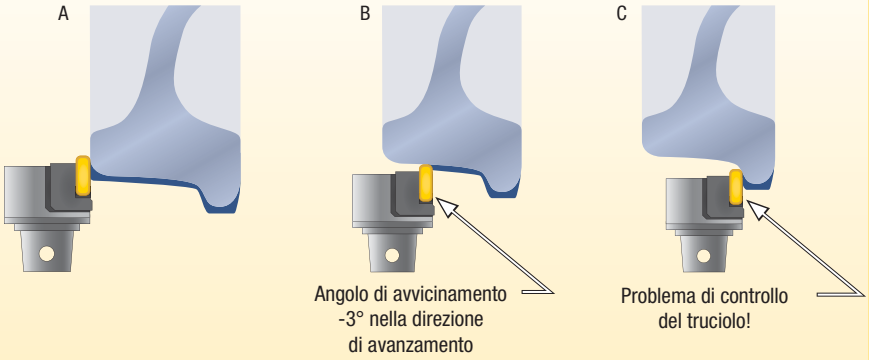
-RRF

Consigli per l'applicazione

A: All'inizio del processo, il DOC è maggiore perché deve essere rimossa una quantità più consistente di bavatura.

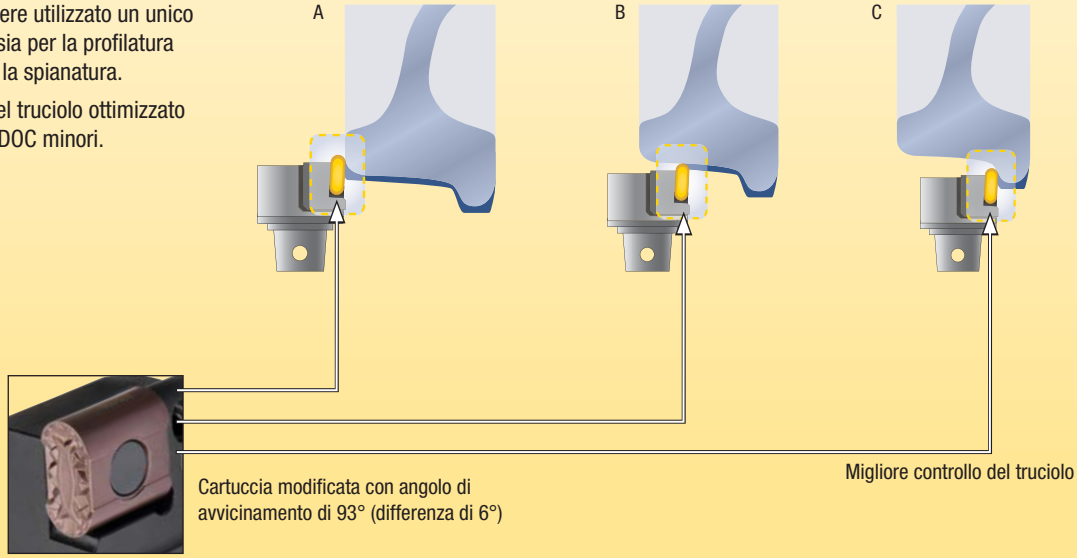
B: Il DOC è minore, ma a volte si incontrano alcuni punti "critici" o di rottura.

C: La zona più critica per il controllo del truciolo perché il truciolo è abbastanza sottile e molto difficile da gestire.

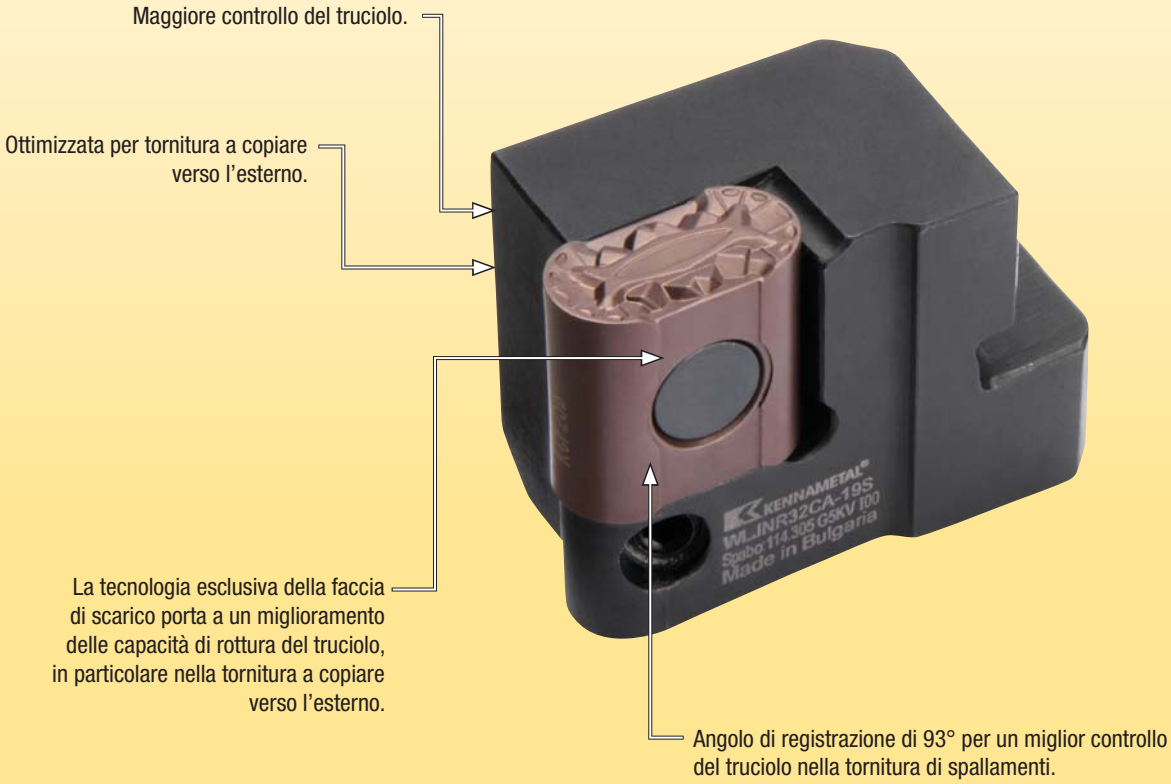


A, B, & C: Può essere utilizzato un unico inserto sia per la profilatura che per la spianatura.

A & C: Controllo del truciolo ottimizzato anche con DOC minori.



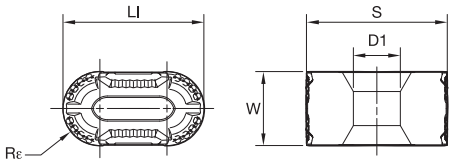
Caratteristiche e vantaggi



- La geometria RRF e RRP del rompitruciolo con un design a raggio completo offre un migliore controllo del truciolo anche con DOC minori.

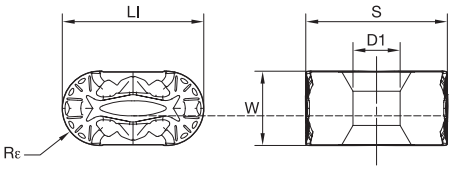
● prima scelta
○ scelta alternativa

P		●	●
M			
K			
N			
S			
H			



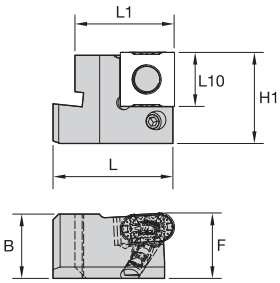
LNUX-RRF a raggio completo

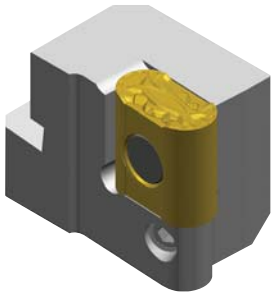
codice catalogo ISO	W	LI	S	Rε	D1	KCP10B	KCP25B
LNUX191950RRF	10,00	19,05	19,05	5,00	6,35	●	●



LNUX-RRP a raggio completo

codice catalogo ISO	W	LI	S	Rε	D1	KCP10B	KCP25B
LNUX191950RRP	10,00	19,05	19,05	5,00	6,35	●	●
LNUX301960RRP	12,00	30,00	19,05	6,00	6,35	●	●





Cartuccia WLJN

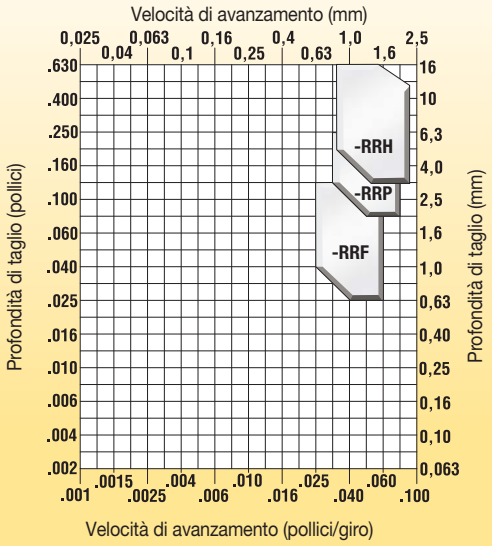
numero d'ordine	codice catalogo	H1	B	F	L10	L1	L	inserto di riferimento
6049016	**WLJNL32CA19S**	1.260	.890	.906	.750	1.38	1.681	LNUX191950RRP
6049018	**WLJNL32CA30S**	1.260	.890	.925	1.181	1.38	1.772	LNUX301960RRP
6049015	**WLJNR32CA19S**	1.260	.890	.906	.750	1.38	1.681	LNUX191950RRP
6049017	**WLJNR32CA30S**	1.260	.890	.925	1.181	1.38	1.772	LNUX301960RRP

Parti di ricambio

codice catalogo	perno di fissaggio	vite staffa	chiave esagonale
WLJNL32CA19S	**114.305**	**121.616**	**170.003**
WLJNL32CA30S	**114.305**	**121.616**	**170.003**
WLJNR32CA19S	**114.305**	**121.616**	**170.003**
WLJNR32CA30S	**114.305**	**121.616**	**170.003**

Nuova geometria di formazione del truciolo

Per lavorazione di ruote ferroviarie — RRF

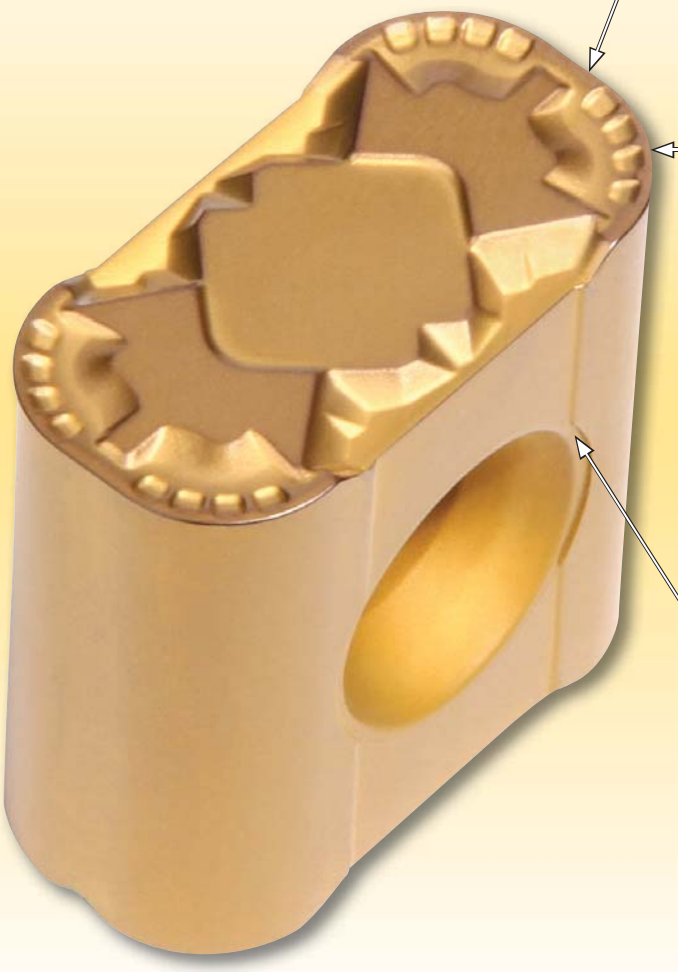


-RRH

-RRP

-RRF

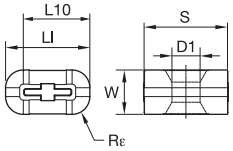
Riprofilatura con profondità di taglio ridotta



Kennametal offre una linea completa di inserti standard per la lavorazione di ruote e assi ferroviari. Gli inserti sono disponibili in vari tipi, dimensioni e qualità.

- **Barenatura di ruote** — inserti rompitruciolo stampati tondi, quadrati, ottagonali e riaffilabili.
- **Tornitura di assi** — inserti triangolari e romboidali con rompitruciolo.
- **Tornitura di ruote** — inserti rettangolari e quadrati, con o senza rompitrucioli stampati.
- **Tornitura di ruote** — Inserti tondi con foro per il fissaggio.

● prima scelta
○ scelta alternativa



LNUX-RRF

codice catalogo ISO	W	LI	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
P							●	●	●	●
M										
K							○	○	○	○
N										
S										
H										
LNUX191940RRF	10,00	19,00	19,00	19,05	4,00	6,35	–	●	–	●
LNUX301940RRF	12,00	30,00	30,00	19,05	4,00	6,35	–	●	–	–

NOTA: Disponibile anche come KC9105™.

LNUX-RRH

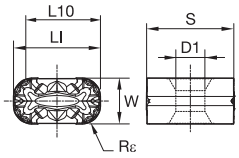
codice catalogo ISO	W	LI	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRH	10,00	19,00	19,00	19,05	4,00	6,35	–	●	–	●
LNUX301940RRH	12,00	30,00	30,00	19,05	4,00	6,35	●	–	–	●

NOTA: Disponibile anche come KC9105.

Kennametal offre una linea completa di inserti standard per la lavorazione di ruote e assi ferroviari. Gli inserti sono disponibili in vari tipi, dimensioni e qualità.

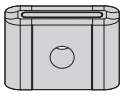
- **Barenatura di ruote** — inserti rompitruciolo stampati tondi, quadrati, ottagonali e riaffilabili.
- **Tornitura di assi** — inserti triangolari e romboidali con rompitruciolo.
- **Tornitura di ruote** — inserti rettangolari e quadrati, con o senza rompitrucioli stampati.
- **Tornitura di ruote** — Inserti tondi con foro per il fissaggio.

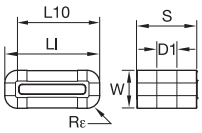
● prima scelta
○ scelta alternativa



LNUX-RRP

codice catalogo ISO	W	LI	L10	S	Rε	D1	P KCP10B	P KCP10	P KCP25B	P KCP25
							●	●	●	●
							M	M	M	M
							K ○	K ○	K ○	K ○
							N	N	N	N
							S	S	S	S
							H	H	H	H
LNUX191940RRP	10,00	19,00	19,00	19,05	4,00	6,35	–	●	–	●
LNUX301940RRP	12,00	30,00	30,00	19,05	4,00	6,35	–	–	–	●





LNUX-RRSM

codice catalogo ISO	W	LI	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRSM	10,00	19,00	19,00	19,05	4,00	6,35	–	–	●	–
LNUX301940RRSM	12,00	30,00	30,00	19,05	4,00	6,35	●	–	–	–

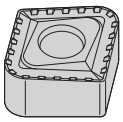
NOTA: Disponibile anche come KC9105™.

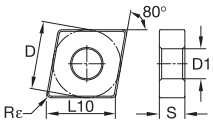
Kennametal offre una linea completa di inserti standard per la lavorazione di ruote e assi ferroviari. Gli inserti sono disponibili in vari tipi, dimensioni e qualità.

- **Barenatura di ruote** — inserti rompitruciolo stampati tondi, quadrati, ottagonali e riaffilabili.
- **Tornitura di assi** — inserti triangolari e romboidali con rompitruciolo.
- **Tornitura di ruote** — inserti rettangolari e quadrati, con o senza rompitrucioli stampati.
- **Tornitura di ruote** — Inserti tondi con foro per il fissaggio.

● prima scelta
○ scelta alternativa

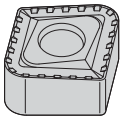
P		●	●	●	●
M					
K			●	●	●
N					
S					
H					

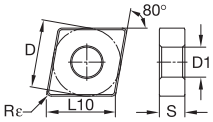




CNMM-RRP

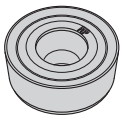
codice catalogo ISO	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
CNMM190740RRP	19,34	7,94	4,00	7,93	●	–	–	–

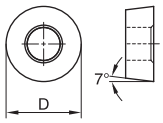




LNUX-WT5

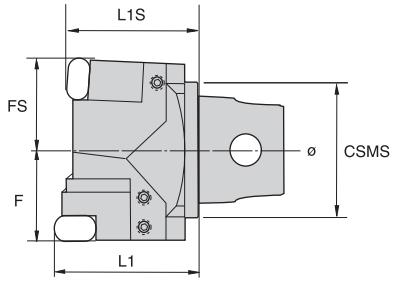
codice catalogo ISO	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
LNUX191940S-WT5	19,05	19,05	4,00	6,35	–	–	●	–
SNMX190640S-WT5	19,05	6,35	4,00	6,35	–	–	●	–





RCMX

codice catalogo ISO	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
RCMX2507M076	—	7,94	—	7,40	–	–	●	–

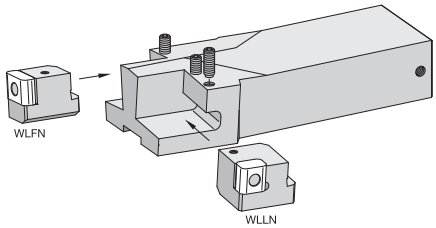


TK

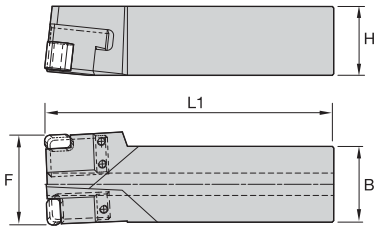
numero d'ordine	codice catalogo	CSMS dimensioni sistema	F	FS	L1	L1S
1781755	**TK01338D**	KM63	42,50	42,50	66,00	60,00
1781756	**TK01339D**	KM63	42,50	42,50	66,00	60,00

Istruzioni di montaggio

codolo base/KM	cartuccia WLLN..	cartuccia WLFN..
destro	**destro**	**sinistro**
sinistro	**sinistro**	**destro**

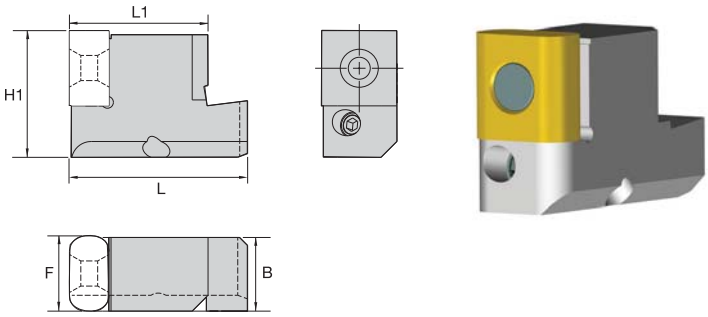


Assemblaggio completo dell'utensile



Codolo base WXXN

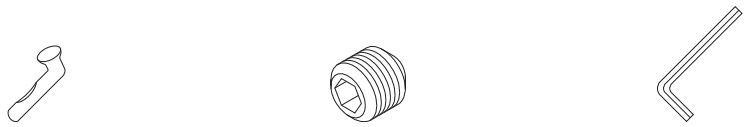
numero d'ordine	codice catalogo	H mm	H pollici	B mm	B pollici	F assembly mm	F assembly pollici	L1 assy mm	L1 assy pollici	vite staffa
1251261	**WXXNL4455X-FL**	50,00	1.969	55,00	2.165	65,00	2.559	210,00	8.268	**PT00163**
1251262	**WXXNR4455X-FL**	50,00	1.969	55,00	2.165	65,00	2.559	210,00	8.268	**PT00163**



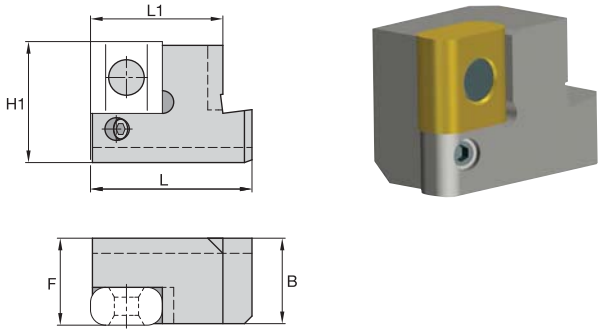
Cartuccia WLFN

numero d'ordine	codice catalogo	H1	B	F	L1	L	inserto di riferimento
2435188	**WLFNL32CA19S**	32,00	18,60	19,00	35,00	42,70	LNUX191940...
2435187	**WLFNR32CA19S**	32,00	18,60	19,00	35,00	42,70	LNUX191940...

Parti di ricambio



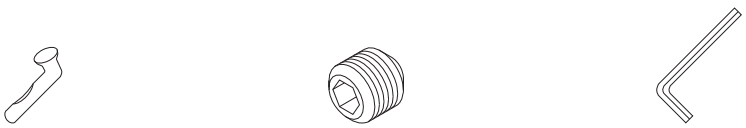
codice catalogo	perno di fissaggio	vite staffa	chiave esagonale
WLFNL32CA19S	**114.305**	**121.616**	**170.003**
WLFNR32CA19S	**114.305**	**121.616**	**170.003**



Cartuccia WLLN

numero d'ordine	codice catalogo	H1	B	F	L1	L	inserto di riferimento
2435184	**WLLNL32CA19S**	32,00	22,60	23,00	35,00	42,70	LNUX191940...
2435186	**WLLNL32CA30S**	32,00	22,60	23,00	35,00	42,70	LNUX301940...
2435183	**WLLNR32CA19S**	32,00	22,60	23,00	35,00	42,70	LNUX191940...
2435185	**WLLNR32CA30S**	32,00	22,60	23,00	35,00	42,70	LNUX301940...

Parti di ricambio



codice catalogo	perno di fissaggio	vite staffa	chiave esagonale
WLLNL32CA19S	**114.305**	**121.616**	**170.003**
WLLNL32CA30S	**114.305**	**121.616**	**170.003**
WLLNR32CA19S	**114.305**	**121.616**	**170.003**
WLLNR32CA30S	**114.305**	**121.616**	**170.003**

Ravvivatura di ruote e assali montati con geometrie Beyond™ RU e UP

Gli utensili Kennametal utilizzano le più recenti tecnologie che garantiscono una maggiore produttività e il massimo volume di truciolo asportato. Inserti standard direttamente da magazzino e un numero ridotto di corpi utensili riducono i costi operativi e di inventario. Questi utensili servono per il ricondizionamento di assali montati, la barenatura e la ravvivatura di ruote e il ripristino periodico.

Caratteristiche e vantaggi

Vantaggi degli utensili per tornitura ruote di Kennametal

- Unità di bloccaggio in acciaio per lavorazioni pesanti.
- Nessuna staffa superiore che impedisca o interferisca con il flusso dei trucioli.
- L'unità di bloccaggio in acciaio temprato impedisce lo spostamento degli inserti.
- Smontaggio rapido dell'unità di bloccaggio in acciaio.
- Indexaggio degli inserti rapido e senza problemi.
- Resistenza a lavorazioni di sgrossatura pesante di ruote indurite.

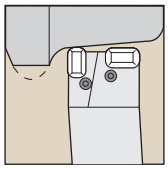
Ottenere risultati superiori riducendo contemporaneamente i tempi di produzione e i costi di manutenzione in queste condizioni difficili:

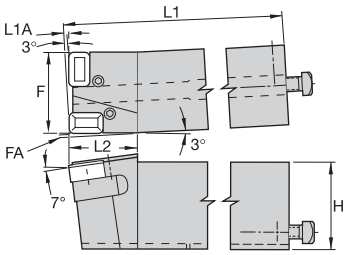
- Piani di slittamento.
- Bruciature accidentali da cannello.
- Surriscaldamento delle ruote in movimento.
- Ruggine e ribaltamenti eccessivi intensificati da un'inusuale pressione del freno nella sella di lancio.
- Ruote non accoppiate che causano eccessiva usura sul lato del bordino.

RU–Sgrossatura universale

UP–Positivo universale

- Tornio per ruote automatico per lavorazioni difficili con dispositivo di misura integrato per determinare l'usura del profilo dell'assale montato.
- Il banco della macchina a portale permette la lavorazione "roll-through".
- Adatto per lavorazioni di assali montati per locomotori, vagoni merci, passeggeri e di trasporto.



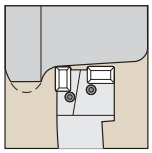


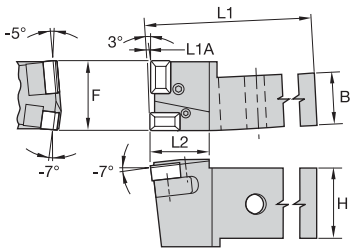
Ravvivatura profili cerchioni

numero d'ordine	codice catalogo	H	F	L1	L2	FA	L1A	inserto di riferimento
1015754	**HUWTCL**	80,00	76,20	275,00	63,50	3,00	3,00	KRR6586__
1015723	**HUWTCR**	80,00	76,20	275,00	63,50	3,00	3,00	KRR6586__

NOTA: Richiede due inserti.

- Produttività massima a bassi costi operativi.
- Indexaggio rapido degli inserti quando l'utensile è montato nel blocco utensili.
- Le singole unità di bloccaggio in acciaio permettono di indexare e bloccare con facilità gli inserti.
- La posizione di riferimento sull'utensile, sopra l'inserto, è a +/- 0,08mm.
- Nessuna staffa superiore che impedisca o interferisca con il flusso dei trucioli.
- L'unità di bloccaggio in acciaio sostituibile previene il danneggiamento del portautensili.
- Inserti con controllo del truciolo potenziato.



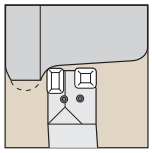


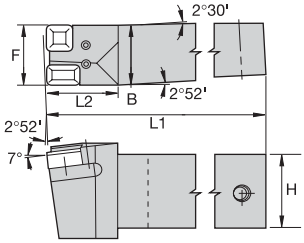
Contornatura cerchioni

numero d'ordine	codice catalogo	H	B	F	L1	L2	L1A	inserto di riferimento
1015688	**FUWTCL**	76,20	57,15	76,20	254,00	66,55	3,05	KRR6586__
1015687	**FUWTCR**	76,20	57,15	76,20	254,00	66,55	3,05	KRR6586__

NOTA: Richiede due inserti.

- Produttività massima a bassi costi operativi.
- Utensile per indexaggio rapido degli inserti montato nel blocco utensili.
- Le singole unità di bloccaggio in acciaio permettono di indexare e bloccare con facilità gli inserti.
- Meno componenti per l'inventario.
- Nessuna staffa superiore che impedisca o interferisca con il flusso dei trucioli.
- L'unità di bloccaggio in acciaio sostituibile previene il danneggiamento del portautensili.
- Gli inserti a fissaggio meccanico con rompitruciolo preformato permettono il controllo del truciolo a velocità di rotazione e avanzamento ottimali.

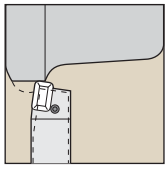


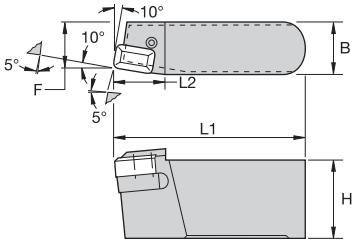


Contornatura cerchioni

numero d'ordine	codice catalogo	H	B	F	L1	L2	inserto di riferimento
1015659	**SUWTCL**	76,20	57,15	57,15	254,00	66,55	KRR6586__
1015658	**SUWTCR**	76,20	57,15	57,15	254,00	66,55	KRR6586__

NOTA: Richiede due inserti.

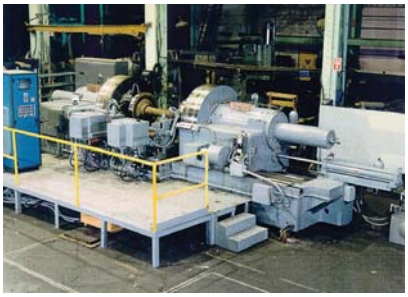


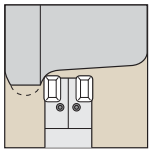


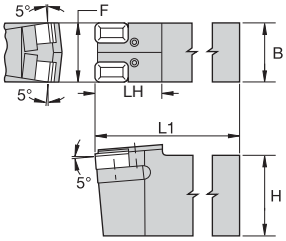
Lavorazione dei profili superiori dei bordini ruota

numero d'ordine	codice catalogo	H	B	F	L1	L2	inserto di riferimento
1015690	**NUFRL**	63,50	41,28	36,53	152,40	39,62	KRR6586__
1015689	**NUFRR**	63,50	41,28	36,53	152,40	39,62	KRR6586__

- Produttività massima a bassi costi operativi.
- Utensile per indexaggio rapido degli inserti montato nel blocco utensili.
- Le singole unità di bloccaggio in acciaio permettono di indexare e bloccare con facilità gli inserti.
- La posizione di riferimento sull'utensile, sopra l'inserto, è a +/- 0,08mm.
- Nessuna staffa superiore che impedisca o interferisca con il flusso dei trucioli.
- L'unità di bloccaggio in acciaio sostituibile previene il danneggiamento del portautensili.
- Gli inserti a fissaggio meccanico con rompitruciolo preformato permettono il controllo del truciolo a velocità di rotazione e avanzamento ottimali.


Tornio per tornitura ruote Simmons-Niles





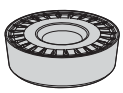
Contornatura cerchioni

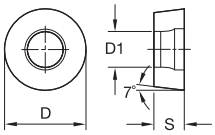
numero d'ordine	codice catalogo	H	B	F	L1	LH	inserto di riferimento	unità di bloccaggio in acciaio	vite di bloccaggio
1015684	**NUWTC**	76,20	57,15	57,15	412,75	95,25	KRR6586__	**SU3**	**S1006PKG**

NOTA: Richiede due inserti.

● prima scelta
○ scelta alternativa

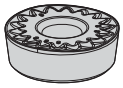
	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
P		○	●	●	●	●	●	○
M								●
K	●	●	○	○	○	○		○
N								○
S								●
H								○

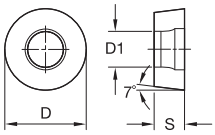




RCMH-UPG

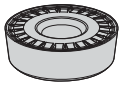
codice catalogo ISO	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMH2507M0TUPG	25	7,55	7,94	–	–	–	●	–	●	–	–
RCMH3209M0TUPG	32	10,35	9,52	–	–	–	●	–	●	–	–

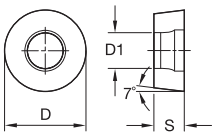




RCMH-RU

codice catalogo ISO	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMH2507M0RU	25	7,55	7,94	–	–	–	–	●	–	–	–
RCMH3209M0RU	32	10,35	9,53	–	–	–	–	●	–	–	–

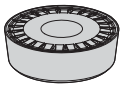


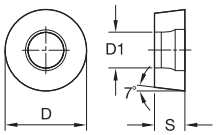


RCMT-UPG

codice catalogo ISO	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMT1606M0UPG	16	5,50	6,35	●	–	–	●	–	●	●	–
RCMT2006M0UPG	20	6,50	6,35	●	–	–	●	–	●	●	–

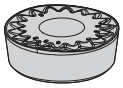
● prima scelta
○ scelta alternativa

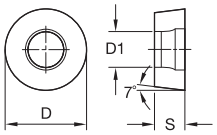




RCMX-UPG

codice catalogo ISO	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
P					○	●	●	●	●	●	○
M											●
K				●	●	○	○	○	○		○
N											○
S											●
H											○
RCMX2507M0TUPG	25	7,19	7,94	–	–	–	●	–	●	–	–
RCMX3209M0TUPG	32	9,78	9,52	–	–	–	●	–	●	–	–





RCMX-RU

codice catalogo ISO	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMX2507M0RU	25	7,19	7,94	–	●	–	–	–	–	–	–
RCMX3209M0RU	32	9,78	9,53	–	●	●	–	–	–	–	–

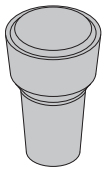
Inserti K-Lock™

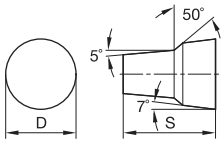
Caratteristiche e vantaggi

- Gli inserti K-Lock sono ideali per scanalature e profilature profonde.
- Un esclusivo sistema di bloccaggio degli inserti favorisce l'evacuazione dei trucioli.
- Disponibili con bordi stampati e rettificati.

P			○	○	○	○	
M			●	●	●	●	
K		○					
N		●	○				●
S		●	●	●	●	●	
H							

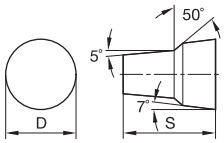
● prima scelta
○ scelta alternativa





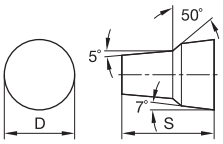
RCGK-FS

codice catalogo ISO	D	S	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCGK040300FS	4,76	6,38	–	●	–	–	–	–
RCGK060400FS	6,35	9,09	–	●	–	●	–	–
RCGK090700FS	9,53	13,23	–	●	–	●	●	–
RCGK120800FS	12,70	16,61	–	●	–	–	–	–



RCGK-HP

codice catalogo ISO	D	S	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCGK040300HP	4,76	6,38	–	●	–	●	–	–
RCGK060400HP	6,35	9,09	–	●	–	●	–	●
RCGK090700HP	9,53	13,23	–	●	–	–	–	●
RCGK120800HP	12,70	16,61	–	●	–	–	–	●

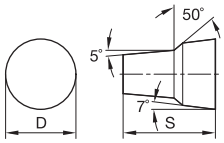


RCMK

codice catalogo ISO	D	S	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCMK040300	4,76	6,38	–	–	–	●	–	–
RCMK060400	6,35	9,09	–	●	–	●	–	–
RCMK090700	9,53	13,23	–	–	–	●	–	–
RCMK120800	12,70	16,61	–	–	–	●	–	–

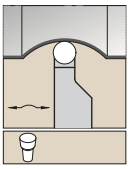
- Geometria media con angolo di spoglia positivo per il controllo del truciolo su materiali di difficile lavorabilità.

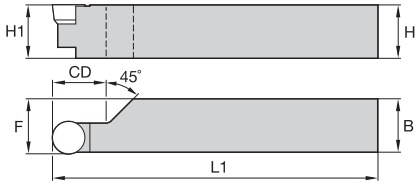
● prima scelta
○ scelta alternativa



RCMK-MP

codice catalogo ISO	D	L10	Rε	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KCS10
				P	M	K	N	S	H	
RCMK060400MP	6,35	–	–	–	–	–	–	–	–	●
RCMK090700MP	9,53	–	–	–	–	–	–	–	–	●
RCMK120800MP	12,70	–	–	–	–	–	–	–	–	●



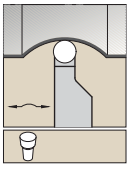


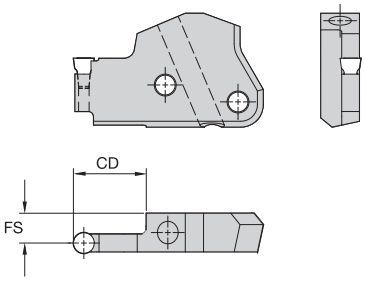
H = H1

TRAO

codice catalogo	H1	B	F	L1	CD	inserto di riferimento
destro						
TRAOR2525M04	25	25	25,4	150	20	RC..040300
TRAOR2525M06	25	25	25,5	150	20	RC..060400
TRAOR3225P06	32	25	25,5	170	20	RC..060400
sinistro						
TRAOL2525M06	25	25	25,5	150	20	RC..060400

Lame Modulari





TRM

codice catalogo	CD	FS	dimensione cartuccia	inserto di riferimento
destro				
TRM50R0432M	32	9,62	50	RCMK152
TRM50R0620M	19	8,98	50	RCMK23
TRM50R0632M	32	8,98	50	RCMK-23
TRM50R0640M	38	8,98	50	RCGK23
TRM50R0720M	19	8,42	50	RCMK-2.55
TRM50R0920M	19	7,64	50	RC_K35
TRM50R0932M	32	7,65	50	RCMK-35
TRM50R0940M	38	7,64	50	RC_K35
TRM50R0950M	50	7,65	50	RCMK-35
sinistro				
TRM50L0432M	32	9,62	50	RCMK152
TRM50L0620M	19	8,98	50	RCMK23
TRM50L0632M	32	8,98	50	RCMK-23
TRM50L0640M	38	8,98	50	RCGK23
TRM50L0920M	19	7,64	50	RC_K35
TRM50L0932M	32	7,65	50	RCMK-35
TRM50L0950M	50	7,65	50	RCMK-35

N. ordine	Cod. catalogo	Pagina/e
1015658	SUWTCR	E58
1015659	SUWTCL	E58
1015684	NUWTC	E59
1015687	FUWTCR	E57
1015688	FUWTCL	E57
1015689	NUFRR	E58
1015690	NUFRL	E58
1015723	HUWTCR	E57
1015754	HUWTCL	E57
1016536	SM812 K9	E38–40, E42–43
1016544	SM837 K9	B172, B354, B378
1016546	SM840 K9	B170, B353–354
1016548	SM841 K9	B172–174, B354–355, B371
1016552	SM871 K9	E37, E41
1016574	SM872 K9	E37
1016576	SM885 K9	E36, E40
1016578	SM886 K9	E36, E40–41
1016582	SM449 K9	T102
1016602	SKTP343 K9	B247–248, B257
1016624	SKCP343 K9	B179–181
1016626	SKDP343 K9	B209–211
1016628	SKCP453 K9	B180, B182
1016644	IWSN433 K9	B161–164
1016648	ITSN323 K9	B132, B137
1016674	ISSN433 K9	B105, B107–108, B110
1016678	ICSN433 K9	B58–60, B66
1016680	IDSN433 K9	B85, B89–90
1016694	IDSN533 K9	B91
1017174	SMYE3 K9	D78–79, D81, D83–86
1017176	SMYI3 K9	D78–79, D81–86
1017178	SMYE4 K9	D78–79, D81, D83–84, D86
1017180	SMYI4 K9	D78–79, D81–86
1017220	ITSN322 K9	B133–134, B137, B139–141
1017222	ISSN332 K9	B109
1017226	IVSN322 K9	B149–153
1017228	SKVN343 K9	B266–268
1017230	IDSN432 K9	B86, B90–93
1017246	IRSN43 K9	B95
1017252	ICSN432 K9	B61–63, B67–68, B70–72
1017276	ITSN433 K9	B133–134, B139–141
1017278	ISSN432 K9	B109–110, B114–117, B119
1017282	IVSN432 K9	B151–152
1017296	ISSN533 K9	B108–109
1017298	ICSN533 K9	B61–63, B66–67, B72
1017300	ISSN633 K9	B108–110, B114–115, B119
1017334	ICSN633 K9	B61–63, B67–68, B72
1018407	CM105	E40–41
1018409	CM106	E40–41
1018413	CM109	C170, D37
1018525	CM66	E37, E41
1018527	CM68	E36, E40
1018531	CM-72	D31–33, D39
1018533	CM73	D31–33, D39
1018569	CM80	D32
1018571	CM81	D32
1018647	MW25	U27–35, V146–147
1018649	MW3	U40–49
1019821	MS1241	T109
1020545	MS1861	H76
1020575	CKM6	B62, B67, B151, B162, B164
1020577	CKM7	B86, B90, B162, B172, B354
1020581	CKM9	B133–134, B170, B173, B353–355
1020583	CKM10	B170, B173–174, B353–355, B371
1020595	CKM12	B61–63, B67–68, B91, B108–110, B114
1020597	CKM13	B172, B354
1020601	CKM19	B109, B172–174, B355, B371
1020603	CKM20	B68, B134, B164
1020605	CKM21	B61–63, B67–68, B95, B108–110, B114, B133–134, B137
1020607	CKM22	B86, B90–91, B153
1020645	CKM26	B151–152
1020653	CKM31	B151–153
1020657	CKM41	B72, B92
1020787	KUAM20	B199–205, B229, B260–262
1020789	KUAM22	B70–72, B92, B115–119, B139–141, B375, B378
1020791	KUAM23	B73, B183, B229, B235–237, B260–263, C171, D41–42
1020805	KUAM26	B72, C171, D41–42
1020807	KUAM27	B72, B115, B119, T81
1020809	KUAM28	B70, B73, B115–121, B142, B199, B202, B220–221, B240–242, B260–263, B376–378
1020811	KUAM30	B70, B115–119, B199, B202, B220–221, B240–242, B260–263, B376–378
1020813	KUAM31	B70–73, B92, B115–121, B139–142, B183, B229, B235–237, B260–263, B375, B378, C171, D41–42
1020835	KUAM32	B70–73, B92–93, B115–117, B119, B139–141, B183, B235, B378
1020839	KUAM34	B199–205, B229, B260–262
1020841	KUAM35	B199, B202, B204–205
1020843	KUAM25	B70–72, B92–93, B115–117, B119, B139–141, B183, B235, B378
1020917	SRS3	B179–181, B209–211, B227–228, B233–234, B247–248, B257, B266–268, B271, S41, T102
1020919	SRS4	B180, B182, B209–211, B213, B233–234
1020923	SSY3T	D78–79, D81–86
1020935	SSY4T	D78–79, D81–86
1020939	MS1374	T79–81
1020941	SSN2T	D81, D86
1020943	SSA3T	D78–79, D81–86
1020965	SSA4T	D78–79, D81–86
1020969	MS110	B174, B371
1020971	MS111	B170, B172–173, B353–355, E37, E41
1020973	MS412	B386, C171, D41–42, E38–40, E42–43
1020975	MS125	B172, B354, B378
1020977	MS1273	C46–47, T109
1021007	MS1321	B168, B370
1021011	MS524	E36, E40
1021013	MS625	E37
1021051	MS1025	C171, D41–42
1021087	MS337	B386
1021093	MS1433	T58–59
1021095	MS518	E37–38, E40–42
1021135	MS959	E36–43
1021137	MS960	B172–173, B354–355
1021139	MS961	B174, B371
1021143	MS364	B72, B115, B119
1021183	MS1375	K85
1021301	MS1571	C122
1021327	MS1242	S32, V49, V56, V60, V72, V78, V147
1021337	MS1152	B260–262, J23, J25, J27, J29, J31, J33, J35, J37
1021339	MS1153	B179–182, B192–205, B210–213, B217–221, B227–229, B247–248, B257–263, B266–269, B271, K74–76, K81, K85
1021341	MS1155	B179–183, B194–199, B202, B209–210, B212–213, B217–219, B229, B233–235, B240–242, B257–258, B260–263, B266–269, B271
1021343	MS1156	B179–181, B209–211, B213, B227–228, B233–234, B247–248, B257, B266–268, B271, C114
1021375	MS1158	B180, B182–183, B209–211, B213, B233–234
1021415	MS1282	U17–18
1021417	MS1284	U17
1021419	MS1285	C46–47
1021421	STCM9	B70–72, B92–93, B109, B115–117, B119, B139–141, B172–174, B355, B371
1021423	STCM11	B67, B90, B134, B164, U27–35, U40–49
1021451	STCM4	B61–63, B67–68, B91, B108–110, B114, B133–134, B151–152, B170, B172–173, B353–355
1021453	STCM5	B62, B67, B86, B90, B151, B162, B164, B172, B354
1021455	STCM8	B72, B115, B119, B170, B173–174, B353–355, B371, B378
1021463	STCM20	B61–63, B67–68, B72, B86, B90–91, B95, B108–110, B114, B133–134, B137, B151–153, B164
1021497	STCM26	B153
1021503	STCM32	U27–28, U30
1021505	STCM37	B139–141
1021507	STCM38	B70–72, B92, B115–119, B139–141, B375–378
1021511	STCM40	B72, B92, B115–117, B119
1021535	KLM43	B67, B70–72, B115–119, B164
1021537	KLM46	B61–63, B67–68, B70, B72, B92–93, B95, B108–110, B114, B133–134, B139–141, B151–152, B162, B164
1021539	KLM58	B61–63, B67, B72, B91, B108–109
1021541	KLM68	B61–63, B67–68, B72, B108–110, B114–115, B119
1021543	KLM33L	B90, B92, B139–141, B164
1021565	KLM34L	B62, B86, B90, B109, B133–134, B137, B139–141, B151–153, B162, B164
1021567	KLM46L	B86, B90–91
1021569	KLM46S	B70–72, B92–93, B115–117, B119
1021589	FT5	K74
1021591	FT7	K74–76, K81, K85, K120–121
1021593	FT8	K38, K81
1021605	FT15	K81, K120–121
1021607	FT20	K120–121
1021657	CM113	E38–40, E42–43
1021659	CM114	E38–39, E42
1021679	CM120	D32
1021681	CM121	D32
1021895	SU3	E59
1022071	CM158	E37–38
1022073	CM159	E37–38, E42
1022315	TT15	K38–39, T109
1022436	CKM37	B72, B115–117, B119
1022485	DT7	W40
1022487	DT8	U3, W29–31, W40, W42
1022489	DT9	V153–154
1022491	DT10	U3, W40–43
1022493	DT15	S60, S62, T79–81, U3, U17–18, V153–154
1022519	TT25	K38–39, V82, W40–43
1022521	TT30	K38–39, W41
1022691	KT6	V114–115
1022695	KT8	K72, V113–115
1022697	KT9	S72, S76, S79, S82
1022701	KT15	K72, K85, S144–147, V113–115, V130
1022703	KT20	V111–115, V128–130
1022727	KT27	K73–74, K84
1023055	S1006PKG	E59
1056234	SKSP453 K9	B233–234
1059784	MS1559	T50, T72, U32–35, U44–49
1059844	MS326	B386
1067613	CM74	C166, C168–171, D28–31, D33, D36–37, D39, D41–42
1067614	CM75	C166, C168–171, D28–31, D33, D36–37, D39, D41–42
1067630	CM146	C169, D36, D39–40
1067631	CM147	C169, D36, D39–40
1082671	SCFPR08CA06	B199
1086536	SCSPR08CA06	B204
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1093272	75HC080M	G85
1093273	75HC100M	G85
1093524	75HC120M	G85
1093525	75HC140M	G85
1093526	75HC160M	G85
1094300	MS1595	C36–37, C39–40, C43–44, C46–47, C112–115, C118–119
1095216	H16LSER3	D82
1095218	H20LSER3	D82
1095220	H24LSER3	D82
1095222	H32LSER3	D82
1095224	H24LSER4	D82
1095226	H32LSER4	D82
1097708	SCACR1010M06Q	B179
1097710	SCACR1212M06Q	B179
1097714	SCACR1616K09Q	B179
1097720	SDACR1616K11Q	B209
1097722	SVABR1010M11Q	B266
1097724	SVABR1212M11Q	B266
1097725	SVABL1212M11Q	B266
1097726	SVABR1616K16Q	B266
1097727	SVABL1616K16Q	B266
1097732	SWLCR2020K06	B271
1097750	CSBPR2020K12	B170, B353
1097754	CSDPN2020K12	B170, B353
1097755	CSDPN2525M12	B170, B353
1097762	CTGPR1212F11	B173, B355
1097763	CTGPR1616H11	B173, B355
1097764	CTGPR2020K16	B173, B355
1097765	CTGPR2525M16	B173, B355
1097775	CTCPN2510M11	B172, B354
1097776	CTCPN2514M16	B172, B354
1097778	CTCPN2520M22	B172, B354
1097781	CTCPN2518M22	B172, B354
1097788	SRGCR2525M12	B228
1097791	SRGCR1616H10	B228
1097792	SRGCR1616H06	B228
1097793	SRGCR2020K08	B228
1097794	SRGCR2020K10	B228
1097795	SRGCR2525M10	B228
1097796	SRGCR2525M08	B228
1097797	SVJBRF1010M11Q	B267
1097798	SVJBRF1212M11Q	B267
1097799	SVJBRF1616K16Q	B267
1097800	SVJBR1212N11	B267
1097801	SVJBR1616H11	B267
1097802	SVJBR2020K16	B267
1097803	SVJBR2525M16	B267
1097804	SVHBR1212N11	B266
1097805	SVHBR1616H11	B266
1097806	SVHBR2020K16	B266
1097807	SVHBR2525M16	B266
1097808	SSSCR1212N09	B234
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1810370	DFR205R3WD32M	J11
1810371	DFR210R3WD32M	J11
1810372	DFR230R3WD32M	J11
1810373	DFR240R3WD32M	J11
1816891	LT11NR14UNJ KC5025	D75
1816983	LT11NR16UNJ KC5025	D75
1816990	LT11NR18UNJ KC5025	D75
1817050	LT16NR16UNJ KC5025	D75
1817054	LT16NR12UNJ KC5025	D75
1817487	LT22ER5API403 KC5010	D55
1817512	LT22ER4API502 KC5010	D55
1817533	LT22ER4API503 KC5010	D55
1817570	NF3125LK KC5025	C159
1817571	NF3125RK KC5025	C159
1817572	CNMG120404FP KC5010	B49
1817588	NFD3125LK KC5025	C160
1817614	CNMG120408FP KC5010	B49
1817616	DNMG110404FP KC5010	B77
1817617	DNMG110408FP KC5010	B77
1817618	NG3189RK KC5025	C147
1817619	NG3M100LK KC5025	C148
1817620	NG3M100RK KC5025	C146
1817623	NG3M120LK KC5025	C148
1817626	NG3M120RK KC5025	C146
1817627	NG3M150LK KC5025	C148
1817629	NG3M150RK KC5025	C146
1817630	NG3M175LK KC5025	C148
1817631	NG3M175RK KC5025	C146
1817632	NG3M200LK KC5025	C148
1817635	NG3M200RK KC5025	C146
1817636	NG3M220LK KC5025	C148
1817637	NG3M220RK KC5025	C146
1817640	NG3M225RK KC5010	C146
1817658	NFD3125RK KC5025	C160

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1817662	NFD4189LK KC5025	C160
1817667	420.080	S143–144
1817675	NG3M250LK KC5025	C148
1817676	NG3M250RK KC5025	C146
1817678	NG3M275LK KC5025	C148
1817679	NG3M275RK KC5010	C147
1817680	NG3M275RK KC5025	C147
1817681	NG3M300LK KC5010	C148
1817682	NG3M300LK KC5025	C148
1817699	NG1047L KC5025	C155
1817700	NG1062L KC5025	C155
1817702	NG1094L KC5025	C155
1817703	NG3M300RK KC5010	C147
1817704	NG3M300RK KC5025	C147
1817705	NG3M320LK KC5025	C148
1817706	NG3M320RK KC5025	C147
1817707	NG3M325LK KC5025	C148
1817708	NG3M325RK KC5025	C147
1817709	NG3M350LK KC5025	C148
1817710	NG3M350RK KC5025	C147
1817713	NG2031LK KC5010	C147
1817718	NG2031LK KC5025	C147
1817719	NG2031RK KC5025	C146
1817720	NG2041L KC5025	C155
1817721	NG2041R KC5025	C154
1817722	NG2047LK KC5010	C147
1817740	NG3M400RK KC5010	C147
1817741	NG3M400RK KC5025	C147
1817965	NG3M425RK KC5025	C147
1817970	NG4125RK KC5010	C147
1817972	NG4189LK KC5010	C148
1817975	NG2047LK KC5025	C147
1817977	NG2047RK KC5010	C146
1817979	NG2047RK KC5025	C146
1817993	NG4189LK KC5025	C148
1817994	NG4189RK KC5025	C147
1818000	NG4250RK KC5010	C147
1818001	NG4250RK KC5025	C147
1818003	NG2058R KC5025	C154
1818005	NG2062LK KC5010	C147
1818006	NG2062LK KC5025	C147
1818007	NG2062RK KC5010	C146
1818008	NG2062RK KC5025	C146
1818009	NG2094LK KC5010	C147
1818010	NG2094LK KC5025	C147
1818011	NG2094RK KC5010	C146
1818037	NG2094RK KC5025	C146
1818039	NG2125LK KC5010	C148
1818041	NG2125LK KC5025	C148
1818042	NG2125RK KC5010	C146
1818050	NG4M400RK KC5010	C147
1818051	NG4M400RK KC5025	C147
1818052	NG4M450LK KC5025	C148
1818054	NG4M500LK KC5010	C148
1818073	NG2125RK KC5025	C146
1818075	NG2M080LK KC5025	C147
1818077	NG2M080RK KC5025	C146
1818078	NG2M100LK KC5010	C147
1818079	NG2M100LK KC5025	C147
1818080	NG2M100RK KC5010	C146
1818081	NG2M100RK KC5025	C146
1818082	NG2M120LK KC5010	C147
1818093	NG2M120LK KC5025	C147
1818094	NG2M120RK KC5010	C146
1818095	NG2M120RK KC5025	C146
1818097	NG2M140LK KC5025	C147
1818098	NG2M140RK KC5010	C146
1818099	NG2M140RK KC5025	C146
1818110	NGD3062LK KC5010	C149
1818111	NGD3062LK KC5025	C149
1818112	NGD3062RK KC5010	C149
1818113	NGD3062RK KC5025	C149
1818114	NGD3094LK KC5010	C149
1818115	NGD3094LK KC5025	C149
1818116	NGD3094RK KC5010	C149
1818117	NGD3094RK KC5025	C149
1818118	NGD3125LK KC5010	C149
1818119	NGD3125LK KC5025	C149
1818120	NGD3125RK KC5010	C149
1818121	NGD3189LK KC5010	C149
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1818262	NGD3189RK KC5010	C149
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1818355	NGD4125LK KC5025	C149
1818356	NGD4125RK KC5010	C149
1818357	NGD4125RK KC5025	C149
1818359	NGD4189LK KC5010	C149
1818360	NGD4189LK KC5025	C149
1818361	NGD4189RK KC5010	C149
1818362	NGD4189RK KC5025	C149
1818366	NG2M300RK KC5010	C146
1818368	NG2M325RK KC5025	C146
1818369	NG3047LK KC5010	C148
1818370	NG3047LK KC5025	C148
1818371	NG3062LK KC5025	C148
1818372	NG3072LK KC5010	C148
1818374	NGD4250LK KC5025	C149
1818375	NGD4250RK KC5010	C149
1818376	NGD4250RK KC5025	C149
1818425	NR2031L KC5025	C158
1818426	NR2031R KC5025	C158
1818434	NP2002RK KC5010	C151
1818435	NP2002RK KC5025	C151
1818437	NP3002RK KC5010	C151
1818439	NP3012RK KC5025	C151
1818440	NPD2002RK KC5010	C151
1818444	NRD4125L KC5025	C159
1818455	NG2M170LK KC5010	C147
1818456	NG2M170LK KC5025	C147
1818457	NG2M170RK KC5010	C146
1818458	NR3031LK KC5010	C150
1818459	NR3031LK KC5025	C150
1818460	NR3031RK KC5010	C150
1818461	NG2M170RK KC5025	C146
1818462	NR3031RK KC5025	C150
1818473	NR3047LK KC5010	C150
1818474	NG2M175LK KC5025	C147
1818476	NG2M195LK KC5010	C147
1818478	NR3062LK KC5010	C150
1818479	NG2M195RK KC5010	C146
1818480	NG2M195RK KC5025	C146
1818481	NR3062LK KC5025	C150
1818482	NG2M200LK KC5010	C147
1818483	NG2M200LK KC5025	C147
1818484	NG2M200RK KC5010	C146
1818485	NG2M200RK KC5025	C146
1818487	NG2M220RK KC5025	C146
1818489	NG2M225LK KC5025	C147
1818491	NG2M225RK KC5025	C146
1818492	NG2M250LK KC5025	C147
1818493	NG2M250RK KC5025	C146
1818494	NG2M275LK KC5010	C147
1818497	NG2M275RK KC5025	C146
1818498	NG2M300LK KC5010	C148
1818503	NG3072LK KC5025	C148
1818504	NG3072RK KC5010	C146
1818505	NG3072RK KC5025	C146
1818506	NG3078LK KC5010	C148
1818507	NG3078LK KC5025	C148
1818508	NG3078RK KC5010	C146
1818509	NG3078RK KC5025	C146
1818714	SPHX15T6ZCERGP KCK15	S80
1818721	SPHX15T6ZCTRGPK KY3500	S80
1818755	SPHX15T6ZCERGP4S KCK15	S80
1818766	NG3094LK KC5010	C148
1818768	NG3094LK KC5025	C148
1818769	NG3094RK KC5025	C146
1818824	NG3105R KC5025	C154
1818825	NG3110L KC5025	C155
1818827	NR3078LK KC5010	C150
1818828	NR3078LK KC5025	C150
1818829	NR3078RK KC5010	C150
1818831	NR3094L KC5010	C158
1818833	NR3094L KC5025	C158
1818834	NR3094R KC5010	C158
1818835	NR3094R KC5025	C158
1818836	NR4062LK KC5010	C150
1818838	NR4062RK KC5010	C150
1818840	NR4094LK KC5010	C150
1818841	NR4094LK KC5025	C150
1818842	NR4094RK KC5010	C150
1818854	NR4125LK KC5010	C150
1818856	NR4125RK KC5010	C150
1818857	NR4125RK KC5025	C150
1818858	NRD3031L KC5010	C159
1818859	NRD3031L KC5025	C159
1818860	NRD3031R KC5010	C159
1818861	NRD3031R KC5025	C159
1818862	NRD3062L KC5010	C159
1818863	NRD3062L KC5025	C159
1818864	NRD3062R KC5010	C159
1818865	NRD3062R KC5025	C159
1818866	NRD4062L KC5025	C159
1818874	NU3094L KC5025	C161
1818875	NU3094R KC5025	C161
1818876	NU3125L KC5025	C161
1818878	NU3156L KC5025	C161
1818891	NG3156LK KC5010	C148
1818892	NG3156LK KC5025	C148
1818913	NG3156RK KC5010	C147
1818914	NG3156RK KC5025	C147
1818916	NG3178R KC5025	C154
1818917	NG3185L KC5025	C155
1818919	NG3189LK KC5010	C148
1818920	NG3189LK KC5025	C148
1818921	NG3189RK KC5010	C147
1819108	SPHX15T6ZCTRGP4SK KY3500	S80
1819110	SPHX15T6ZCFRGN1W KCK15	S81
1819168	SPHX15T6PCTRGPK KY3500	S83
1819171	SPHX15T6PCFRGN1WK KY3500	S84
1819206	CNMG120404FP KT315	B49
1819207	CNMG120408FP KT315	B49
1819211	DNMG110408FP KT315	B77
1819335	DNMG150404FP KT315	B77
1819336	DNMG150408FP KT315	B77
1819340	DNMG150612FP KT315	B77
1819354	TNMG160404FP KT315	B124
1819355	TNMG160408FP KT315	B124
1819357	VNMG160404FP KT315	B145
1819358	VNMG160408FP KT315	B145
1819440	DNMG150404FP KC5010	B77
1819441	DNMG150408FP KC5010	B77
1819451	SPHX1205PCTRGPB KTPK20	S77
1819494	DNMG150604FP KC5010	B77
1819495	DNMG150608FP KC5010	B77
1819500	TNMG160404FP KC5010	B124
1819501	TNMG160408FP KC5010	B124
1819502	TNMG160412FP KC5010	B124
1819513	VNMG160404FP KC5010	B145
1819514	VNMG160408FP KC5010	B145
1819515	WNMG060404FP KC5010	B156
1819516	WNMG060408FP KC5010	B156
1819517	WNMG080404FP KC5010	B156
1819518	WNMG080408FP KC5010	B156
1819519	WNMG080412FP KC5010	B156
1819846	SPHX1205PCFRGN1WB KCK15	S78
1819848	SPHX1205PCFRGN1WB KC725M	S78
1819849	SPHX1205PCFRGN1WB KC520M	S78
1819850	SPHX1205PCFRGN1WB KTPK20	S78
1819852	SPHX1205PCFRGN1WBK KY3500	S78
1819853	SPHX1205ZCTRGP KTPK20	S73
1819858	SPHX1205ZCFRGN1W KCK15	S74
1819861	SPHX1205ZCFRGN1W KC520M	S74
1819864	SPHX1205ZCFRGN1WK KY3500	S74
1824861	TCMT16T308LF KC5010	B244
1824882	TCMT16T304LF KC5010	B244
1829218	TNMG160404FW KT315	B125
1829219	TNMG160408FW KT315	B125
1829220	TNMG160404FW KC5010	B125
1831439	841.142.200	K118–120
1831441	841.142.320	K118–119
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1831590	KM63XMZKR5060Y	K87
1831749	NG3062L KC5010	C155
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1832293	CNMG090308MP KC5010	B51
1832294	CNMG120404MP KC5010	B51
1832295	CNMG120408MP KC5010	B51
1832296	CNMG120412MP KC5010	B51
1832297	CNMG120416MP KC5010	B51
1832298	CNMG160608MP KC5010	B51
1832299	CNMG160612MP KC5010	B51
1832301	CNMG160616MP KC5010	B51
1832302	CNMG190608MP KC5010	B51
1832313	CNMG190612MP KC5010	B51
1832315	CNMG190616MP KC5010	B51
1832316	DNMG110408MP KC5010	B79
1832318	DNMG150404MP KC5010	B79
1832319	DNMG150408MP KC5010	B79
1832321	DNMG150412MP KC5010	B79
1832322	DNMG150604MP KC5010	B79
1832323	DNMG150608MP KC5010	B79
1832324	DNMG150612MP KC5010	B79
1832325	SNMG120408MP KC5010	B98
1832327	SNMG120412MP KC5010	B98
1832330	SNMG150612MP KC5010	B98
1832353	SNMG190616MP KC5010	B98
1832354	TNMG160404MP KC5010	B125
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1832356	TNMG160412MP KC5010	B125
1832357	TNMG220408MP KC5010	B125
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1832360	VNMG160404MP KC5010	B146
1832361	VNMG160408MP KC5010	B146
1832373	VNMG160412MP KC5010	B146
1832374	WNMG060404MP KC5010	B157
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1833500	SPHX1205PCERGNT1WB KB1340	S78, S84
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1845216	TCMT110204LF KC5010	B244
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1845227	CCMT09T304LF KC5010	B177
1845230	SCMT09T304LF KC5010	B230
1847935	CNGA120412T01020FW KY3500	B293
1848593	SPGX060304RHP KC7140	J89
1848597	SPGX070304RHP KC7140	J89
1848601	SPPX09T308RHP KC7140	J89
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1849275	KCGR110304L08 KC5010	E29
1849279	VBMR110304 KC5010	E32
1849281	VCGR160402 KC5010	E34
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1849998	KCGX110304R15 KC5025	E31
1850011	KCGX110304L15 KC5025	E31
1850012	KCGX110308R15 KC5025	E31
1850067	KCGR110304R08 KC5025	E29
1850070	KCGR110304L08 KC5025	E29
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1851268	CNGX120708T01020FW KY3500	B295
1851269	CNGX120712T01020FW KY3500	B295
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1854342	HTSR046R028M	J67
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1855476	NG2031RK KT315	C146
1855479	NG2047RK KT315	C146
1855504	NG2062RK KT315	C146
1855506	NG2094RK KT315	C146
1855508	NG2125RK KT315	C146
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1855576	NG3062RK KT315	C146
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1864543	VCMR160404 KC5025	E33
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1864562	VCMR160404 KT315	E33
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1864825	SNHX12L5PZTNGP KC725M	U15
1864829	SNHX11T3PZFNGE KC510M	U14
1864830	SNHX1203PZFNGE KC510M	U14
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1866014	RCMT1605M0 KC5010	B224
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2542520	A4M50R0314A068100	C125
2542521	A4M50R0314A090160	C125
2542522	A4M50R0314A130300	C125
2542523	A4M50R0314A290999	C125
2542524	A4M50L0314A036048	C126
2542527	A4M50L0314A068100	C126
2542528	A4M50L0314A090160	C126
2542529	A4M50L0314A130300	C126
2542530	A4M50L0314A290999	C126
2542531	A4M50R0414A048072	C125
2542532	A4M50R0414A064100	C125
2542533	A4M50R0414A092150	C125
2542534	A4M50R0414A132300	C125
2542535	A4M50R0414A290999	C125
2542537	A4M50L0414A064100	C126
2542538	A4M50L0414A092150	C126
2542539	A4M50L0414A132300	C126
2542540	A4M50L0414A290999	C126
2542541	A4M50R0519A058094	C125
2542542	A4M50R0519A080136	C125
2542543	A4M50R0519A120300	C125
2542544	A4M50R0519A250999	C125
2542545	A4M50L0519A058094	C126
2542546	A4M50L0519A080136	C126
2542547	A4M50L0519A120300	C126
2542548	A4M50L0519A250999	C126
2542822	KSEM2500PCM KC7135	H56, H87
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2544200	SPCT10T3PPERLD2 KC520M	T100, U36
2544251	B977F03500 KC7315	G143
2544413	SDCT1204PDERLD2 KC520M	T104, T111, U51
2545095	OFKT07L6AFENLB KCPK30	S54
2545097	OFKT07L6AFSNLB KCPK30	S54
2546816	BGHX15L5PCSRLET KD1410	S148
2548776	KTIP080R8SS10M	H31
2548777	KTIP090R8SS10M	H31
2548778	KTIP095R8SS10M	H31
2548779	KTIP100R8SS12M	H31
2548780	KTIP105R8SS12M	H31
2548781	KTIP110R8SS12M	H31
2548782	KTIP115R8SS12M	H31
2548913	KTIP120R8SS14M	H31
2548914	KTIP125R8SS14M	H31
2548915	KTIP130R8SS14M	H31
2548916	KTIP135R8SS14M	H31
2548917	KTIP140R8SS16M	H31
2548918	KTIP145R8SS16M	H31
2548919	KTIP150R8SS16M	H31
2548920	KTIP080R8SCF12M	H32
2548921	KTIP085R8SCF12M	H32
2548922	KTIP090R8SCF12M	H32
2548923	KTIP095R8SCF12M	H32
2548924	KTIP100R8SCF16M	H32
2548925	KTIP105R8SCF16M	H32
2548926	KTIP110R8SCF16M	H32
2548927	KTIP115R8SCF16M	H32
2548928	KTIP120R8SCF16M	H32
2548929	KTIP125R8SCF16M	H32
2548930	KTIP130R8SCF16M	H32
2548931	KTIP135R8SCF16M	H32
2548932	KTIP140R8SCF16M	H32
2548933	KTIP145R8SCF16M	H32
2548934	KTIP150R8SCF20M	H32
2548935	KTIP160R8SCF20M	H32
2549023	NG3047L KC5010	C155
2549978	OFPT07L6AFENGB KC520M	S55
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2582207	CTFPR20CA22	B378
2582790	B707A17000FBG KC7315	G115
2594849	B707A21000FBG KC7315	G115
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2598760	NG3072L KC5010	C155
2598761	NG3078R KC5010	C154
2598803	NG3088R KC5010	C154
2598804	NG3097R KC5010	C154
2598806	NG3105R KC5010	C154
2598807	NG3105L KC5010	C155
2598808	NG3125L KC5010	C155
2598809	NG3142R KC5010	C154
2598811	NG3156R KC5010	C154
2598813	NG3189L KC5010	C155
2598816	NGP3125R KC5010	C152
2598817	NGP3125L KC5010	C152
2598823	NGD3189L KC5010	C157
2598824	NG3062R KC5010	C154
2599495	NG4189R KC5010	C154
2599496	NR3031L KC5010	C158
2599497	NG4189L KC5010	C155
2599498	NG4250L KC5010	C155
2599501	NGP4250R KC5010	C152
2599504	NGD4250L KC5010	C157
2599505	NR4125R KC5010	C158
2599506	NR3047R KC5010	C158
2599507	NR3047L KC5010	C158
2599508	NR3062R KC5010	C158
2599509	NR3062L KC5010	C158
2599510	NRP3031R KC5010	C153
2599511	NRP3031L KC5010	C153
2599512	NRP3047R KC5010	C153
2599513	NRP3047L KC5010	C153
2599514	NRP3062R KC5010	C153
2599515	NRP3062L KC5010	C153
2599516	NRP3094R KC5010	C153
2599518	NRP3094L KC5010	C153
2599519	NG3047R KC5025	C154
2599521	NG3062R KC5025	C154
2599522	NG3062L KC5025	C155
2599523	NG3094R KC5025	C154
2599524	NG3094L KC5025	C155
2599525	NG3125L KC5025	C155
2599526	NG3156R KC5025	C154
2599527	NG3156L KC5025	C155
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2599529	NG3189L KC5025	C155
2599530	NR3031R KC5025	C158
2599531	NR3031L KC5025	C158
2599534	NR3062R KC5025	C158
2599535	NR3062L KC5025	C158
2599536	NRD4062R KC5010	C159
2599537	NRD4062L KC5010	C159
2599538	NRD4094R KC5010	C159
2599539	NRD4094L KC5010	C159
2599540	NRD4125L KC5010	C159
2599550	NR4125L KC5010	C158
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2599572	NG2031L KC5010	C155
2599743	NG2041R KC5010	C154
2599744	NG2041L KC5010	C155
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2599748	NG2094R KC5010	C154
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2599750	NG2125R KC5010	C154
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2599765	NG2062R KC5025	C154
2599887	B976A04100 KC7315	G138
2603030	KSEM2430HPGM KC7315	H43
2604354	RNMG120400RN KC5010	B94
2605709	B977F03000 KC7315	G143
2607377	B707A10000FBG KC7315	G115
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2613786	32A03R050A32SED18-200	T71
2613787	40A04R050A32SED18-200	T71
2613788	32A02R050A32SED18-200	T71
2613789	40A03R050A32SED18-200	T71
2613790	3.41020R904 KC7315	I16
2613791	3.41020R901 KC7315	I15
2613792	3.41020R902 KC7315	I15
2613858	B967A14000 KC7315	G134
2614817	B976A07100 KC7315	G139
2615043	3.41020R903 KC7315	I15
2615044	3.41220R904 KC7315	I16
2615045	3.41220R901 KC7315	I15
2615046	3.41220R902 KC7315	I15
2615047	3.41220R903 KC7315	I15
2616697	KSEM2215HPGM KC7315	H43
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2620169	B978A04600 KC7315	G146
2622232	20A02R039B20SED14	T48
2623070	B707A16000FBG KC7315	G115
2623553	B256A05100 KC7315	G63
2623860	KSEM2000PCM KC7135	H56, H87
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2623934	40A05RS90ED14D	T50
2623935	100A10RS90ED14D	T50
2623936	125B12RS90ED14D	T50
2623937	25A02R044B25SED14	T48
2623938	32A03R050B32SED14	T48
2623939	40A04R050B32SED14	T48
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2623963	80A07RS90ED14D	T50
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2623965	160C11RS90ED14D	T50
2625682	B256A07000 KC7315	G63
2625713	F3BA0600ADL40E180 K600	P125
2625714	F3BA0800ADL40E240 K600	P125
2625715	F3BA1000ADL40E300 K600	P125
2625716	F3BA1200ADL40E360 K600	P125
2625717	F3BA1600ADL40E480 K600	P125
2625718	F3BA2000ADL40E600 K600	P125
2625743	B256A08000 KC7315	G63
2627240	B967A12000 KC7315	G134
2627513	F4AW0400AWL38W040 KC633M	P22
2627514	F4AW0500AWL38W040 KC633M	P22
2627515	F4AW0600AWL38W040 KC633M	P22
2627516	F4AW0800AWL38W040 KC633M	P22
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2627519	F4AW0500AWL38W060 KC633M	P22
2627520	F4AW0600AWL38W060 KC633M	P22
2627521	F4AW0800AWL38W060 KC633M	P22
2627522	F4AW1000AWX38W060 KC633M	P22
2628928	B707A11570FBG KC7315	G115
2629032	B707A04900FBG KC7315	G114
2629368	B707A12000FBG KC7315	G115
2633016	B707A18000FBG KC7315	G115
2633730	KTIP080R3BF08M	I11
2633731	KTIP090R5BF10M	I13
2633732	KTIP160R3BF17M	I11
2634374	3.77000R224V	J75
2634375	3.77000R227V	J75
2634376	3.77000R229V	J75
2634377	3.77000R231V	J75
2634378	3.77000R239V	J75
2634379	3.77000R249V	J75
2634380	3.77000R251V	J75
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2634413	3.77000R276V	J75
2634414	3.77000R278V	J75
2634415	3.77000R280V	J75
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2634417	3.77000R284V	J75
2634418	3.77000R286V	J75
2634419	3.77000R288V	J75
2634568	B707A07500FBG KC7315	G114
2635436	B977A15300 KC7315	G141
2636514	B707A12800FBG KC7315	G115
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2637756	MS2060	S34
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2639144	B707A15250FBG KC7315	G115
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2641904	B966A16500 KC7315	G134
2643468	B977F03400 KC7315	G143
2646000	B707A15000FBG KC7315	G115
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2646067	KSEM1380PCM KC7135	H56
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2646072	KSEM1450PCM KC7135	H56
2646073	KSEM1460PCM KC7135	H56
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2646081	KSEM1600PCM KC7135	H56, H87
2646082	KSEM1620PCM KC7135	H56
2646083	KSEM1650PCM KC7135	H56
2646084	KSEM1700PCM KC7135	H56, H87
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2646101	KSEM2900PCM KC7135	H56, H87
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2646108	B343S12500HPG KC7315	I10
2646109	B343S12700HPG KC7315	I10
2646110	B343S12800HPG KC7315	I10
2646111	B343S13000HPG KC7315	I10
2646112	B343S06100HPG KC7315	I8
2646253	B343S06200HPG KC7315	I8
2646254	B343S06300HPG KC7315	I8
2646255	B343S06350HPG KC7315	I8
2646256	B343S06400HPG KC7315	I8
2646257	B343S06500HPG KC7315	I8
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2646274	B343S07938HPG KC7315	I9
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2646276	B343S03175HPG KC7315	I8
2646277	B343S03400HPG KC7315	I8
2646278	B343S03500HPG KC7315	I8
2646279	B343S03797HPG KC7315	I8
2646280	B343S03800HPG KC7315	I8
2646281	B343S03970HPG KC7315	I8
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2646440	B343S11800HPG KC7315	I10
2646441	B343S11900HPG KC7315	I10
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2647585	B977F03900 KC7315	G143
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2649365	B976A05575 KC7315	G139
2649366	B976A06350 KC7315	G139
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2649368	B976A07145 KC7315	G139
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2649555	R24FBHS06LF	K136
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2649557	R40FBHS06LF	K136
2649558	R51FBHS06LF	K136
2649559	R67FBHS09LF	K136
2649569	40A02R50A32SKE25	T79
2649571	50A02R100A32SKE25	T79
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2651013	B343S08100HPG KC7315	I9
2651014	B343S08200HPG KC7315	I9
2651015	B343S08300HPG KC7315	I9
2651016	B343S08334HPG KC7315	I9
2651017	B343S08400HPG KC7315	I9
2651018	B343S08433HPG KC7315	I9
2651019	B343S08500HPG KC7315	I9
2651020	B343S08600HPG KC7315	I9
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2651042	RS1605	K125
2651163	CFB10082	K131
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2651171	HFB2127SCFPR06	K126
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2651176	HFB14FBHS1440	K126
2651177	HFB16FBHS1640	K126
2651178	HFB19FBHS1840	K126
2652755	B707A09000FBG KC7315	G115
2652965	SYB24RBHT06F	K121
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3753828	TNMG160408MN KCP25	B125
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3755760	SNMM250924RH KCP25	B102
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3758794	SNMG120404FP KCM15	B97

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3758795	SNMG120408FP KCM15	B97
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3759627	B292A03100YPL KC7315	G94
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4112463	B225A12304HP KCPK15	G54
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4112472	B225A03400HP KCPK15	G51
4112483	B225A10300HP KCPK15	G53
4112484	B225A10320HP KCPK15	G53
4112485	B225A10400HP KCPK15	G53
4112486	B225A10500HP KCPK15	G53

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4114331	A4G0805M08U12GMN KCU25	C96
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4115437	DFT110508ST KD1425	J85
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4119229	HNPJ0604ANSNHD KC725M	S7, S13, S16
4119230	HNPJ0604ANSNHD KCK15	S7, S13, S16
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4119639	HNGJ060432ANENLD KCPK30	S6, S12, S15
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4119697	HNPJ0604ANSNGD KC522M	S7, S13, S16
4119699	HNPJ0604ANSNGD KCK15	S7, S13, S16
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4119701	HNPJ0604ANSNGD KC725M	S7, S13, S16
4119702	HNPJ0604ANSNHD KC520M	S7, S13, S16
4119703	HNPJ0604ANSNHD KC522M	S7, S13, S16
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4169752	A4SCL1616K0317	C114
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5515222	KSEMP3700HPGM KC7315	H87
5515223	KSEMP3800HPGM KC7315	H87
5515224	KSEMP3900HPGM KC7315	H87
5515225	KSEMP4000HPGM KC7315	H87
5515226	KSEM2900HPGM KCPM45	H46
5515746	LNGU15T612SRGE KC520M	T19
5515747	LNGU15T612SRGE KC522M	T19
5515748	LNGU15T612SRGE KC725M	T19
5515749	LNGU15T612SRGE KCK15	T19
5515759	LNGU15T608SRGE KC520M	T19
5515890	LNGU15T608SRGE KC522M	T19
5515891	LNGU15T608SRGE KC725M	T19
5515892	LNGU15T608SRGE KCK15	T19
5515893	LNGU15T608SRGE KCPK30	T19
5516070	LNGU15T612SRGE KCPK30	T19
5516073	LNGU15T604SRGE KC520M	T19
5516074	LNGU15T604SRGE KC522M	T19
5516075	LNGU15T604SRGE KC725M	T19
5516076	LNGU15T604SRGE KCK15	T19
5516077	LNGU15T604SRGE KCPK30	T19
5517575	RCGT2006M0SGFJ KCSM30	V83
5517600	SNMM190624RW KCP25B	B103
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5517761	RPET1204M0SGEJ KCSM30	V73
5517764	RPET1605M0SGEJ KCSM30	V79
5517767	W0EJ090512SRGD KCSM30	V41
5517773	RNGJ1204M0ELDJ KCSM30	V57
5517778	RNGJ10T3M0SGDJ KCSM30	V51
5518566	DNMG150612MR KCP25B	B80
5519287	EDPT070308PDSRGE KCSM30	T25
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5520687	SPCT10T316ENLD2 KCSM30	T100, U36
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5520737	T353M050X080R6HX-D1 KCK17	M59
5520738	T353M060X100R6HX-D1 KCK17	M59
5520739	T353M080X125R6HX-D1 KCK17	M59
5520790	T353M100X150R6HX-D1 KCK17	M59
5520791	T353M120X175R6HX-D6 KCK17	M59
5520792	T353M140X200R6HX-D6 KCK17	M59
5520793	T351M060X100R6HX-D1 KCK17	M58
5520794	T351M070X100R6HX-D1 KCK17	M58
5520795	T351M080X125R6HX-D1 KCK17	M58
5520796	T351M090X125R6HX-D1 KCK17	M58
5520798	T351M100X150R6HX-D1 KCK17	M58
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5520802	T351MF120X125R6HX-D4 KCK17	M58
5520803	T351MF120X150R6HX-D4 KCK17	M58
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5520805	T351MF140X125R6HX-D4 KCK17	M58
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5520807	T471M060X100R6HX-D1 KCN14	M61
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5528630	M4D025Z02B25LN15	T15
5528631	M4D032Z03B32LN15	T15
5528632	M4D040Z04S16LN15	T17
5528633	M4D050Z05S22LN15	T17
5528634	M4D050Z06S22LN15	T17
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5531238	CNMG190612MS KCU10	B52
5531240	SNMG150616MP KCU10	B98
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5531837	CNMG120404FN KCK15B	B49
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5531891	CNMG120408FP KCP10B	B49
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5531893	CNMG120412FN KCP25B	B49
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5531896	DNMG110404FN KCP10B	B77
5531897	DNMG110408FN KCP25B	B77
5531898	DNMG150404FN KCK15B	B77
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5531901	DNMG150604FN KCP10B	B77
5531902	DNMG150604FN KCK15B	B77
5531903	DNMG150604FN KCP25B	B77
5531904	DNMG150608FP KCP10B	B77
5531905	DNMG150608FP KCP25B	B77
5531906	DNMG150608FN KCP25B	B77
5531907	DNMG150608FN KCK15B	B77
5531908	DNMG150612FN KCP10B	B77
5531909	SNMG090308FN KCK15B	B97
5531910	SNMG120404FN KCP10B	B97
5531911	M4D025Z02M12LN15	T14
5531912	M4D032Z03M16LN15	T14
5531913	M4D040Z05M16LN15	T14
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5531917	M4D032Z03A32LN15L110	T16
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5532937	EG0251M02U02GUN KCU25	C22
5532941	EG0812M08U08GUP KCU25	C17
5532942	EG0812M08U12GUP KCU25	C17
5532944	EG0812M08U08GUN KCU25	C22
5532945	EG0812M08U12GUN KCU25	C22
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5533090	EC020M02N00CM02 KCU25	C26
5533093	EC060M06N00CM03 KCU25	C26
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5533097	EC080M08N00CR04 KCU25	C27
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5533124	EG0612M06U08GUP KCU25	C17
5533125	EG0612M06U04GUN KCU25	C22
5533127	EG0612M06U08GUN KCU25	C22
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5533139	EC040M04N00CL02 KCU25	C25
5533150	EC020M02L06CF02 KCU25	C24
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5533173	EC080M08L06CR04 KCU25	C27
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5533222	EG0512M05U08GUN KCU25	C22
5533223	EG1012M10U12GUN KCU25	C22
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5533370	ER255I06U00GUN KCU25	C24
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5533516	EC014M1BL06CF01 KCU25	C24
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5533648	SPHX060204R20 KCU40	J99
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5534276	ER0412M04U00GUP KCU25	C20
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5534290	ER0612M06U00GUP KCU25	C20
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5548041	LNPU15T608SRGE KCK15	T19
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5550702	HNPJ0604ANSNHD KCPM40	S7, S13, S16
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5642168	SNMG120416UN KCK20B	B102
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5642174	TNMG160412UN KCK20B	B128
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5650846	TPUN110304 KCK15B	B171
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5652140	XDLW120412EN422 SP6519	T119
5652239	XDLW090408SRD X400	V16
5652248	XDLT120512ERD411 X500	V24
5652249	XDLT090412ERD411 SP6519	V15
5652489	RPHT1204M0TX4 SP6519	V96
5652490	XDLT090408ERD41 SP6519	V14
5652729	XDLT120508ERD41 SC6525	V23
5652800	RPEX10T3M0F701X4 SP4019	V90
5652874	XPNT32320612RF SP6519	V105
5652878	XPNT4040T716RF SP6519	V105
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5653137	SDHT120412EN423 X500	T119
5653138	SDHT09T308EN422 X500	T116
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5653576	SDHT09T308EN422 SP6519	T116
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5653930	XDLT120508ERD41 X500	V23
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5654220	XDLT120508ERD41 SP6519	V23
5654267	XPLT060308ERD41 SP6519	V7
5654371	RPHT1204M0TX4 X500	V96
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5654744	RPMT1204M0E41X4 SP6519	V96
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5656242	RPEX10T3M0F701X4 GH1	V90
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5656377	7792VXD09-A050Z6R	V12–13
5656380	7792VXD12-A125Z8R	V20–22
5656381	RPMT10T3M0E41X4 X500	V91
5656383	7792VXD12-A052Z5R	V20–22
5656533	SDMT120412EN41 MP91M	T120
5656727	7792VXD09-A040Z3R	V12–13
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5656729	7792VXD12-A063Z4R	V20–22
5656730	7792VXD12-A080Z5R	V20–22
5656765	SDMT09T308EN41 X500	T117
5656911	RPHT10T3M0E421X4 X700	V90
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5656917	RPMW10T3M0TX4 X500	V91
5657226	RPMT1204M0E41X4 X500	V96
5657234	7792VXD09-A040Z4R	V12–13
5657235	7792VXD12-A063Z5R	V20–22
5657271	SDMT120412EN41 X500	T120
5657681	RPHT1204M0E442X5 X500	V96
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5665786	RPMW1204M0TX4 X500	V97
5665804	ZDET16M5PDFR721 GH1	T90
5665820	7792VXP06SA020Z2R35 S	V4, V6
5665928	RPEX1204M0E701X4 X500	V95
5665943	7792VXD12-A125Z11R	V20–22
5665949	ZDET16M508FR721 GH1	T90
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5665957	7792VXE16-160Z12R	V28–29
5665960	XE025MTN4-C SP4060	P72
5665964	7792VXP06SA025Z3R35 S	V4, V6
5665970	XER030NTN4-C SP4060	P73
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5666016	RPHT10T3M0E421X4 X500	V90
5666144	7792VXD12-A100Z9R	V20–22
5666187	7792VXD12-A052Z4R	V20–22
5666264	SDMT09T308EN41 MP91M	T117
5666365	XE200MN4-C SP4060	P72
5666376	ZDET16M516FR721 GH1	T90
5666394	RPMT10T3M0E41X4 MP91M	V91
5666409	7792VXP06CA025Z4R154	V5–6
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5667132	RPMT10T3M0E41X4 SP6519	V91
5667156	XER100NN4-C SP4060	P73
5667399	RPMT1204M0E41X4 MP91M	V96
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5672236	7713VR12SA025Z2R35 S	V93–94
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5672625	7713VR10-A042Z06R	V89
5672627	5505VX20CA25/020R40	V104
5672766	5720VZ16HA032Z3R75	T89
5672811	7713VR10CA020Z2R40	V88–89
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5672829	M-13-M8-CA16-130 S	V35
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5672864	5230VS12-A063Z4R57	T118
5672869	5720VZ16-A050Z03R	T88
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Per i riferimenti alle pagine F–X, vedere il volume II • Catalogo utensili rotanti.

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NG2M300LK KCP10B	C148
NG2M300LK KCP25B	C148
NG2M300LK KCU10	C148

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NG3M325LK KC5025	C148
NG3M325LK KCP25B	C148
NG3M325LK KCU25	C148

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NG3M350LK KC5025	C148
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NG3M350RK KC5025	C147
NG3M350RK KCP25B	C147
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NG3M400LK KCP25B	C148
NG3M400LK KCU10	C148
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NG4125LK KCP25B	C148
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Icone di tornitura

Codolo: KM-TS™ (ISO 26622)	Codolo: KM4X™	Codolo: Codolo VDI	Numero DIN 69880	Adduzione interna di refrigerante
Adduzione interna di refrigerante: 100 bar	Adduzione interna di refrigerante: 1500 psi	Adduzione interna di refrigerante: 80 bar	Adduzione interna di refrigerante: 1200 psi	ISO: 26622
ISO: 10889	Tornitura	Profilatura	Spianatura	Scanalatura frontale
Smussatura	Alesatura	Filettatura	Scanalatura	Troncatura
Tornitura interna	Smussatura interna	Spianatura interna	Scanalatura interna	Scanalatura frontale diam. int.
Scanalatura profonda	Filettatura I.D. interno			

Icone foratura

Svasatura/ smussatura	Foratura con punte coniche	Lamatura	Foratura	Foratura: Ingresso inclinato
Foratura: Uscita inclinata	Foratura: Uscita inclinata	Foratura: Fondo piatto	Foratura: Foratura a pacco	Foratura: Convesso
Foratura: Foro cieco	Foratura: Concavo	Foratura: Catena	Foratura: foro incrociato	Foratura: Semicilindrica
Foratura: Foratura su angoli a 45°	Alesatura: Foro passante	Alesatura: Foro cieco	Alesatura: In fori incrociati	Alesatura: Fori ciechi e passanti
Alesatura: Taglio interrotto	Profondità di foratura: 1 x D	Profondità di foratura: 3 x D	Profondità di foratura: 5 x D	Profondità di foratura: 8 x D
Profondità di foratura: 10 x D	Profondità di foratura: 12 x D	Profondità di foratura: 7 x D	Profondità di foratura: 4 x D	Profondità di foratura: 1,5 x D

(continua)

(Icone foratura — continua)

Tipo angolo: smussatura ad angolo	Tipo angolo: testa quadrata	Codolo: Cilindrico	Codolo: Cilindrico ≤h6	Codolo: Cilindrico Weldon®
Codolo: Cilindrico Whistle Notch	Codolo: Cilindrico Whistle Notch ≤h6	Codolo: Cilindrico Whistle Notch 2°	Codolo: Cilindrico con piano	Codolo piatto
Codolo SK: Rübig	Codolo: SK BT JIS B 6339	Codolo: SK CAT(CV) ANSI B5.50	Codolo: SK DV DIN 69871	Codolo: Cilindrico Whistle Notch con invito e flangia
Codolo: Cilindrico con piano e flangia	stelo KM™	Codolo: HSK DIN 69893	Codolo: HSK DIN 69893 modello A	Codolo: KM-TS™ (ISO 26622)
Codolo: KM-XMZ	Codolo: ER	Angolo elica: 0°	Angolo elica: 15°	Angolo elica: 30°
Angolo punta: 118°	Angolo punta: 130°	Bilanciamento (G 6.3/25,000)	Bilanciamento (G 6.3/10,000)	Bilanciamento (G 6.3/6,000)
Bilanciamento (G 16/20,000)	Numero DIN 6537	Numero DIN 6535	Numero DIN 69893	Numero DIN 69090-3
Foratura: Senza refrigerante	Adduzione interna di refrigerante: Radiale: Foratura	Adduzione interna di refrigerante: Radiale: Alesatura	Adduzione interna di refrigerante: Radiale: Foratura con inserti a fissaggio meccanico	Refrigerante fluido: Foratura
Adduzione interna di refrigerante: MQL (quantità minima di lubrificante): Foratura	Adduzione interna di refrigerante: Assiale: Foratura	Adduzione interna di refrigerante: Assiale: Alesatura	Adduzione interna di refrigerante: Ingresso refrigerante AD	Adduzione interna di refrigerante: Ingresso refrigerante AD/B
Dimensioni utensile: 2 vani/2 margini/ Refrigerante	Dimensioni utensile: 2 vani/2 margini/ Senza refrigerante	Dimensioni utensile: 2 vani/3 margini/ Refrigerante	Dimensioni utensile: 2 vani/4 margini/ Refrigerante	Dimensioni utensile: 2 vani/4 margini/ Senza refrigerante
Dimensioni utensile: 2 vani/4 margini/ X/Refrigerante	Dimensioni utensile: 3 vani/3 margini/ Refrigerante	Dimensioni utensile: 3 vani/3 margini/ Senza refrigerante	Dimensioni utensile: Configurazione del vano: 2	Dimensioni utensile: Configurazione del vano: 3
Dimensioni utensile: Configurazione del vano: 4				

Icone maschiatura

Svasatura/ smussatura	Foratura: Fondo piatto	Foratura: Foro cieco	Maschiatura:Foro passante	Maschiatura : Foro cieco
Filettatura: Foro passante	HSS-E: Acciaio super rapido con lega di cobalto per materiali di durezza elevata	HSS-E-PM: Acciaio super rapido con lega di cobalto per materiali di durezza elevata (PM = acciaio sinterizzato)	HM: (metallo duro)	Profondità di foratura: 2 x D
Forma smusso B (3.5–5.5)	Forma smusso C (2–3)	Forma smusso D (3.5–5)	Smusso forma E (1.5–2)	Imbocco con smusso forma B (3–5)
Angolo elica di maschiatura: 0°	Angolo elica di maschiatura: 10°	Angolo elica di maschiatura: L8°	Angolo elica di maschiatura: 15°	Angolo elica di maschiatura: L15°
Angolo elica di maschiatura: 25°	Angolo elica di maschiatura: 30°	Angolo elica di maschiatura: 42°	Angolo elica di maschiatura: 45°	Maschi multiuso: Punta a spirale
Tensione/ compressione	Numero DIN 371	Numero DIN 374	Numero DIN 376	Numero DIN 5156
Numero DIN 2174	Adduzione interna di refrigerante: Radiale: Maschiatura	Refrigerante a getto: Maschiatura	Adduzione interna di refrigerante: Assiale: Maschiatura	Specifiche del costruttore: ISO 2
Specifiche del costruttore: ISO 3	Specifiche del costruttore JIS	Classe di idoneità: 2B	Classe di idoneità: 3B	Classe di idoneità: 6H
Classe di idoneità: 6HX	Classe di idoneità: 6G	Classe di idoneità: 2BX	Classe di idoneità: 3BX	Filettatura unificata a passo stretto
Filettatura unificata a passo largo	Filettatura conica per tubi americana per filetti con materiale di tenuta a secco	Filettatura conica per tubi americana per filetti senza materiale di tenuta a secco	Filettatura per tubi Whitworth	Filettatura unificata passo largo: Profilo J
Filettatura unificata passo stretto: Profilo J	Filettatura a passo largo metrica ISO	Filettatura a passo stretto metrica ISO		

Icone fresatura a candela in metallo duro

Spianatura	Fresatura elicoidale	Fresatura a tuffo	Fresatura a tuffo: Testa sferica	Fresatura in rampa: Vuoto
Fresatura in rampa: Fino a 3º	Scanalatura: Testa sferica	Scanalatura: Testa sferica con dimensioni AP	Scanalatura: Testa quadrata	Scanalatura: Testa quadrata con dimensioni AP
Fresatura trocoidale	Fresatura trocoidale: Testa sferica	Contornatura/ fresatura a spallamento: Testa sferica	Contornatura/ fresatura a spallamento: Testa sferica con dimensioni AE/AP	Contornatura/ fresatura a spallamento: Testa quadrata
Contornatura/ fresatura a spallamento: Testa quadrata con dimensioni AE/AP	Contornatura/ fresatura a spallamento: Smusso leggero	Contornatura/ fresatura a spallamento: Smusso leggero con dimensioni AE/AP	Contornatura/ fresatura a spallamento: Finitura di precisione	Contornatura/ fresatura a spallamento: Finitura di precisione con dimensioni AE/AP
Contornatura/ fresatura a spallamento: Finitura	Contornatura/ fresatura a spallamento: Finitura con dimensioni AE/AP	Contornatura/ fresatura a spallamento: Fresatura a candela in metallo duro per pareti sottili	Contornatura/ spallamento: Raggio	Contornatura/ spallamento: Raggio con dimensioni AE/AP
Profilatura 3D	Profilatura 3D con dimensioni AE/AP	Profilatura 3D con fresa a candela quadra	Tipo angolo: testa sferica	Tipo angolo: smussatura ad angolo
Tipo angolo: Raggio di punta	Tipo angolo: testa quadrata	Tipo angolo: Toroide	Codolo: Cilindrico	Codolo: Cilindrico Weldon®
Codolo: SK BT JIS B 6339	Codolo: SK CAT(CV) ANSI B5.50	Codolo: HSK: CAT: Filettatura del tirante: 5/8–11 UNC	Codolo: HSK A/ DIN69893	Codolo: Safe-Lock™ ≤h6
Codolo: Safe-Lock™	Codolo: Codolo PSC	Attacco Duo-Lock™	Angolo elica: 0º	Angolo elica: 15º
Angolo elica: 20º	Angolo elica: 25º	Angolo elica: 30º	Angolo elica: 35º	Angolo elica: 38º
Angolo elica: 40º	Angolo elica: 45º	Angolo elica: 50º	Angolo elica: 60º	Angolo elica: 43º
Angolo elica: 36º	Angolo elica: 35º/38º	Angolo elica: 37º/39º	Equilibratura (G 2,5/25.000)	Numero DIN 6527
Numero DIN 6528	Foratura: Adduzione interna di refrigerante	Adduzione interna di refrigerante	Adduzione interna di refrigerante: Assiale: Fresa a candela in metallo duro	Dimensioni utensile: Configurazione del vano: X (variabile)

(continua)

(Icone fresatura a candela in metallo duro — continua)

ZU=2 Dimensioni utensile: Configurazione del vano: 2	ZU=3 Dimensioni utensile: Configurazione del vano: 3	ZU=4 Dimensioni utensile: Configurazione del vano: 4	ZU=5 Dimensioni utensile: Configurazione del vano: 5	ZU=6 Dimensioni utensile: Configurazione del vano: 6
ZU=1 Dimensioni utensile: Configurazione del vano: 1	ZU=12 Dimensioni utensile: Configurazione del vano: 12	ISO 26622 ISO 26622		

Icone per la fresatura a fissaggio meccanico

Lamatura	Spirale/circolare	Spianatura	Fresatura elicoidale	Fresatura a tuffo
Fresatura a tuffo: Testa sferica	Fresatura in rampa: Vuoto	Scanalatura: Testa sferica	Scanalatura: laterale	Scanalatura: Lato con dimensioni AE/AP
Scanalatura: Contornatura: Testa sferica	Scanalatura: Testa quadrata	Scanalatura: T	Scanalatura: T con dimensione AP	Contornatura/ fresatura a spallamento: Testa sferica
Contornatura/ fresatura a spallamento: Fondo dello spallamento	Contornatura/ fresatura a spallamento: Testa quadrata	Contornatura/ fresatura a spallamento: Smusso leggero	Scanalatura: Profilatura a spallamento	Scanalatura: Spallamento
Profilatura 3D	Profilatura 3D con fresa a candela quadra	PCD Utensile in PCD	Fresatura di tasche	Codolo: Cilindrico
Codolo: Cilindrico Weldon®	Codolo: cilindrico Weldon 2 piatto	Codolo: Screw-on	Codolo: HSK DIN 69893	Codolo a manicotto
Fresatura: Adduzione interna di refrigerante	Adduzione interna di refrigerante: Refrigerante ad aria compressa: Radiale: Fresatura a fissaggio meccanico			

P	Acciaio	N	Materiali non ferrosi	H	Materiali temprati
M	Acciaio inossidabile	S	Leghe resistenti al calore	C	Materiali CFRP
K	Ghisa				

materiale gruppo	descrizione	contenuto	alla trazione resistenza RM (MPa)*	durezza (HB)	durezza (HRC)	materiale numero
P0	Acciai a basso contenuto di carbonio, a truciolo lungo	C <0,25%	<530	<125	–	–
P1	Acciai a basso contenuto di carbonio, a truciolo corto, ad alta lavorabilità	C <0,25%	<530	<125	–	C15, Ck22, ST37-2, S235JR, 9SMnPb28, GS38
P2	Acciai a medio e alto contenuto di carbonio	C >0,25%	>530	<220	<25	ST52, S355JR, C35, GS60, Cf53
P3	Acciai legati e acciai per utensili	C >0,25%	600–850	<330	<35	16MnCr5, Ck45, 21CrMoV5-7, 38SMn28
P4	Acciai legati e acciai per utensili	C >0,25%	850–1400	340–450	35–48	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
P5	Acciai inossidabili ferritici, martensitici e ad indurimento per precipitazione (PH)	–	600–900	<330	<35	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
P6	Acciai inossidabili ferritici, martensitici e ad indurimento per precipitazione ad alta resistenza	–	900–1350	350–450	35–48	X102CrMo17, G-X120Cr29
M1	Acciaio inossidabile austenitico	–	<600	130–200	–	X5CrNi 18 10, X2CrNiMo 17 13 2, G-X25CrNiSi18 9, X15CrNiSi 20 12
M2	Acciai austenitici ad alta resistenza e acciai inossidabili fusi	–	600–800	150–230	<25	X2CrNiMo 13 4, X5NiCr 32 21, X5CrNiNb 18 10, G-X15CrNi 25-20
M3	Acciaio inossidabile duplex	–	<800	135–275	<30	X8CrNiMo27 5, X2CrNiMoN22 5 3, X20CrNiSi25 4, G-X40CrNiSi27 4
K1	Ghisa grigia	–	125–500	120–290	<32	GG15, GG25, GG30, GG40, GTW40
K2	Ghise duttili (nodulari) a bassa-media resistenza e ghise a grafite compatta (CGI)	–	<600	130–260	<28	GGG40, GTS35
K3	Ghise duttili ad alta resistenza e ghisa duttile austemperata (ADI)	–	>600	180–350	<43	GGG60, GTW55, GTS65
N1	Alluminio lavorato	–	–	–	–	AlMg1, Al99.5, AlCuMg1, AlCuBiPb, AlMgSi1, ALMgSiPb
N2	Leghe di alluminio a basso contenuto di silicio e leghe di magnesio	Si <12,2%	–	–	–	GAlSiCu4, GDAlSi10Mg
N3	Leghe di alluminio ad alto contenuto di silicio e leghe di magnesio	Si >12,2%	–	–	–	G-ALSi12, G-AlSi17Cu4, G-AlSi21CuNiMg
N4	A base di rame, ottone e zinco con indice di lavorabilità di 70–100	–	–	–	–	CuZn40, Ms60, G-CuSn5ZnPb, CuZn37, CuSi3Mn
N5	Nylon, materie plastiche, gomme, fenoli, resine, fibra di vetro	–	–	–	–	Lexan®, Hostalen™, polistirolo, Makrolon®
N6	Materiali compositi in carbonio e grafite, CFRP	–	–	–	–	CFK, GFK
N7	Compositi a matrice metallica (MMC)	–	–	–	–	–
S1	Leghe a base di ferro, resistenti al calore	–	500–1200	160–260	25–48	X1NiCrMoCu32 28 7, X12NiCrSi36 16, X5NiCrAlTi31 20, X40CoCrNi20 20
S2	Leghe a base di cobalto resistenti al calore	–	1000–1450	250–450	25–48	Haynes® 188, Stellite® 6,21,31
S3	Leghe a base di nichel resistenti al calore	–	600–1700	160–450	<48	INCONEL® 690, INCONEL 625, Hastelloy®, NIMONIC® 75
S4	Titanio e leghe di titanio	–	900–1600	300–400	33–48	Ti1, TiAl5Sn2, TiAl6V4, TiAl4Mo4Sn2
H1	Materiali temprati	–	–	–	44–48	GX260NiCr42, GX330NiCr42, GX300CrNiSi952, GX300CrMo153, Hardox® 400
H2	Materiali temprati	–	–	–	48–55	–
H3	Materiali temprati	–	–	–	56–60	–
H4	Materiali temprati	–	–	–	>60	–
C1	CFRP, CFRP/CFRP	–	–	–	–	–
C2	CFRP/Non ferroso	–	–	–	–	–
C3	CFRP/resistente al calore	–	–	–	–	–
C4	CFRP/acciaio inossidabile	–	–	–	–	–
C5	CFRP/non ferroso/resistente al calore	–	–	–	–	–

P0 Elenco dei materiali • Acciaio • P0

P0 Acciai a basso contenuto di carbonio, a truciolo lungo *Contenuto: C <.25%* *Resistenza alla trazione RM (MPa)*: <530* *Durezza (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
1013	USt 34-1	–	–	G10130	–	–	–	1233	–	–	1.0055	–
1010	C 10	045 M 10	S 10 C	G10100	C 10	XC 10	C 10	–	–	–	1.0301	–
1008	DD 11 (StW 22)	HR 3	SPHD	–	DD 11	1 C	–	–	–	–	1.0332	–
1020	C 22	050 A 20	S 22 C	G10200	1 C 22	C 20	C 20	1450	–	–	1.0402	–
1025	C 25	070 M 26	S 22 C	G10250	1 C 25	C 25	C 25	–	–	–	1.0406	–
1012	B 500 H	–	S 12 C	G10120	B 500 B	XC 12	B 500 B	1332	–	–	1.0439	–
1018	C16.8	080 A 17	–	G10180	–	–	–	–	–	–	1.0453	–
1108	10 S 20	210 M 15	–	G 11080	10 S 20	10 F 1	CF 10 S 20	–	–	–	1.0721	–
1010	Ck 10	040 A 10	S 10 C	G10100	2 C 10	XC 10	C 10	1265	–	–	1.1121	–
1022	20 Mn 5	120 M 19	SMn 420	G 10220	20 Mn 5	20 M 5	G 22 Mn 3	–	–	–	1.1133	–
1015	Ck 15	080 M 15	S 15 C	G 10150	2 C 15	XC 15	C 15	1370	–	–	1.1141	–
1021	22 B 2	–	SWRCHB 220	G10210	C 22 BE 69	21 B 3	–	–	–	–	1.5508	–
–	PS 275 TM	S 275 M	–	–	S 275 M	S 275 M	S 275 M	–	–	–	1.8818	–
–	DI-MC 355 B	–	–	–	S 355 M	E 355	S 355 M	–	–	–	1.8823	–
–	DI-MC 420 B	S 420 M	–	–	S 420 M	E 420	S 420 M	–	–	–	1.8825	–
–	S 460 M	S 460 M	–	–	S 460 M	E460; S460M	S460M	–	–	–	1.8827	–
–	BTStE 355 TM	S 355 ML	–	–	S 355 ML	E 355	S 355 ML	–	–	–	1.8834	–
–	BTStE 420 TM	S 420 MI	–	–	S 420 ML	E 420	S 420 ML	–	–	–	1.8836	–
–	St E 320-3Z	–	–	–	S 320 GD + ZA	–	–	–	–	–	1.0250	–

P1 Elenco dei materiali • Acciaio • P1

P1 Acciai a basso contenuto di carbonio, a truciolo corto, ad alta lavorabilità *Contenuto: C <.25%* *Resistenza alla trazione RM (MPa)*: <530* *Durezza (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	R St 34-2/ S 205 G2T	34/20CR	–	K02502	–	–	–	–	–	–	1.0034	–
–	St 33	HR 15	SS 330	K01400	–	A 33	Fe 320	–	–	–	1.0035	–
A 570 Gr. 33	USt 37-2	4360-40 B	SS 34	K 02502	S 235 JR G1	E 24-2	Fe 360 BFU	1311	–	–	1.0036	–
–	St 37-2	HS 37/23	STKR 400	K02702	S 235 JR	E 28-2	Fe 430 C	1412	–	–	1.0037	–
A 570 Gr. 36	R St 37-2/S235 JRG2	4260-40 C	SS 34	K 02502	S235 JR G 2	E 24-2 NE	Fe 360 BFN	1312	–	–	1.0038	–
–	S 235 JRH	S 235 JRH	–	–	S235JRH	E 24-2	S 235 JRH	–	–	–	1.0039	–
–	R St 42-1	–	–	K02507	–	–	–	–	–	–	1.0077	–
–	S235J2G3/Fe 360 D1	S 235 J 2 G 3	–	K01501	S 235 J2 G3	E 24-4	S 235 J2G3	1313	–	–	1.0161	–
–	C 10 Pb	–	–	–	C 10 GPb	–	–	–	–	–	1.0302	–
–	QSt 32-3	–	SWRCH6R	–	CB 4 FF KD	–	CB 4 F U	–	–	–	1.0303	–
–	St 35.8	–	STPT 38	K01201	–	–	–	–	–	–	1.0305	–
–	St 37-2	360	STKM 12 A	K02504	S 235 JR	E 24-2	Fe 360	1412	–	–	1.0308	–
–	C10D	–	SWRM 10	–	C 10 D	FM 10	C 10 D	–	–	–	1.0310	–
–	C12D	–	SWRM 12	–	C 12 D	–	C 12 D	–	–	–	1.0311	–
–	R St 15	FeP05	–	–	Fe P05	FeP05	FeP05	–	–	–	1.0312	–
–	D 6-2	0 1 5 A 03	SWRM 6	G10050	C 4 D	–	3 CD 5	–	–	–	1.0314	–
–	St 37.8	–	STB 35	–	–	–	Fe 37	–	–	–	1.0315	–
–	St 13	CR 3	SPCD	–	–	–	–	–	–	–	1.0333	–
–	D D 13 (StW 24)	H S 3	SPHE	–	D D 13	3C	–	–	–	–	1.0335	–
–	USt 4/DC 04 G	–	–	–	D C 04 G 1	–	–	–	–	–	1.0336	–
–	Ro St 4/DC 04 GT	–	–	–	DC 04 GT	–	–	–	–	–	1.0337	–
–	St 4	DC 04/FeP04	SPCE	–	Fe P04	Fe 14	DC04/FeP04	–	–	–	1.0338	–
–	DC01Cu	–	–	–	DC 01 Cu	–	–	–	–	–	1.0344	–
–	RR St 3	CR 3	SPCD	–	Fe P03	F 13	DC 03/FeP 03	–	–	–	1.0347	–
–	U H I/P 195GH	–	SGV 480	–	P 195 Gh	–	–	–	–	–	1.0348	–
–	St 14 Cu 3	–	–	–	DC 04 Cu	–	–	–	–	–	1.0354	–
–	–	3 CR	–	–	D D 12	D D 12	–	–	–	–	1.0398	–
1015	C 15	080 M 15	S 15 C	G10170	C 15	C 12	C 15	1350	–	–	1.0401	–
–	LSt 45.8	–	–	–	C 16	–	C 16	–	–	–	1.0407	–
–	C15D	–	SWRM 15	–	C 15 D	FM 15	C 15 D	–	–	–	1.0413	–
–	C20D	–	SWRM 20	–	C 20 D	FM 20	C 20 D	–	–	–	1.0414	–
–	C26D	–	SWRH 27	–	C 26 D	FM 26	C 26 D	–	–	–	1.0415	–
–	C18D	–	SWRM 17	–	C 18 D	FM 18	C 18 D	–	–	–	1.0416	–
–	RSt 44-2	440	–	G10160	–	–	–	–	–	–	1.0419	–
–	P265 NB	–	SG 295	–	P 265 NB	BS 2	–	–	–	–	1.0423	–
–	P 265 GH	151-400	SG 30	K02801	P 265 GH	A42CP	P 265 GH	1430	–	–	1.0425	–
–	C 22.3	–	–	–	C 22 G 1	–	–	–	–	–	1.0427	–
–	BSt 420 S	–	–	–	Fe B 400	–	–	–	–	–	1.0428	–
–	C 21	–	SFVC 1	K03504	P 305 GH	–	–	–	–	–	1.0432	–
–	GS-45	A1	SC 450	J03001	GE 230	E23-45M	–	1305	–	–	1.0446	–
–	TStE 275 (S 275 NL)	40EE	–	–	S 275 NL	S 275 NL	S 275 NL	–	–	–	1.0491	–
–	St 42.8	–	STPT 42	–	–	–	Fe 42	–	–	–	1.0498	–
–	S 335 N (StE 355)	50 E	–	–	S 355 N	E 355	S 355 N	2134	–	–	1.0545	–
–	S 355 NL (TStE 355)	50 E E	–	–	S 355 NL	E 355	S 355 N L	2135	–	–	1.0546	–
–	R 7 S 6/C 7 RG 2	–	–	–	C 7 RG 2	–	–	–	–	–	1.0709	–
B1112	9 S 20	220 M 07	SUM 21	G 11120	–	–	CF 9 S 22	–	–	–	1.0711	–
1213	9 SMn 28/11 SMn 30	230 M 07	SUM 22	G 12130	11 SMn 28	S 250	CF 9 SMn 28	1912	–	–	1.0715	–
12L13	9 SMnPb 28	–	SUM 22 L	G 12134	11 SMnPb 28	S 250 Pb	CF 9 SMnPb 28	1914	–	–	1.0718	–
–	15 S 22/15 S 20	En32M	SUM 32	–	15 S 22	–	–	1922	–	–	1.0723	–
–	15 SMn 13	15 SMn 13	–	–	15 SMn 13	15 SMn 13	–	–	–	–	1.0725	–
1215	9 SMn 36/11 S Mn 37	240 M 07	SUM 25	G 12150	11 SMn 37	S 300	CF 9 SMn 36	–	–	–	1.0736	–
12L14	9 SMnPb 36/11 SMnPb 37	–	–	G 12144	11 SMnPb 37	S 300 Pb	CF 9 SMnPb 36	1926	–	–	1.0737	–
–	11 SMnPbTe 37	11 SMn 37	–	–	11 SMn 37	–	–	–	–	–	1.0738	–
–	15 SPb 20/15 SPb 22	–	–	–	15 SPb 22	–	–	–	–	–	1.0753	–
–	36 SMn 14	36SMn14	–	–	36SMn14	36SMn14	–	–	–	–	1.0764	–
–	C10D2	–	–	–	C 10 D 2	FM 10	C 10 D 2	–	–	–	1.1114	–
–	Cq 10 (C 10 C)	–	SWRCH 10 K	–	C 10 KD	–	–	–	–	–	1.1122	–
–	C15D2	–	–	–	C 15 D 2	FM 15	C 15 D 2	–	–	–	1.1126	–
–	C 18D2	–	–	–	C 18 D 2	FM 18	C 18 D 2	–	–	–	1.1129	–

(continua)

P1 Elenco dei materiali • Acciaio • P1 *(continua)*

P1 Acciai a basso contenuto di carbonio, a truciolo corto, ad alta lavorabilità *Contenuto: C <.25%* *Resistenza alla trazione RM (MPa)*: <530* *Durezza (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	GS-16 Mn 5	–	–	–	G 17 Mn 5	G 17 Mn 5	G17Mn5	–	–	–	1.1131	–
–	C20D2	–	–	–	C 20 D 2	FM 20	C20D 2	–	–	–	1.1137	–
–	C26D2	–	–	–	C 26 D 2	FM 26	C26D 2	–	–	–	1.1139	–
–	GC 16 E/GS-Ck 16	–	–	–	GC 16 E	–	–	–	–	–	1.1142	–
–	C 16 E	C 16 E	–	–	C 16 E	XC 18	–	–	–	–	1.1148	–
–	Cm 22	070 M 20	C 22 R (3 C 22)	–	3 C 22	XC 18 u	C 22 R	–	–	–	1.1149	–
–	Ck 22	050 A 20	S 22 C	G10230	2 C 22	XC 25	C 20	–	–	–	1.1151	–
–	Cq 22	–	SWRCH20K	–	C 21 KD	–	CB 20 FF	–	–	–	1.1152	–
–	Ck 25	070 M 26	S 25 C	G10250	2 C 25	XC 25	C 25	–	–	–	1.1158	–
–	C2D1	–	–	–	C 2 D 1	–	C 2 D 1	–	–	–	1.1185	–
–	19 MnVS 6	–	–	–	19 MnVS 6	–	–	–	–	–	1.1301	–
–	PS 275 TM	S 275 M	–	–	S 275 M	S 275 M	S 275 M	–	–	–	1.8818	–
–	DI-MC 355 B	–	–	–	S 355 M	E 355	S 355 M	–	–	–	1.8823	–
–	DI-MC 420 B	S 420 M	–	–	S 420 M	E 420	S 420 M	–	–	–	1.8825	–
–	S 460 M	S 460 M	–	–	S 460 M	E460; S460M	S460M	–	–	–	1.8827	–
–	BTStE 355 TM	S 355 ML	–	–	S 355 ML	E 355	S 355 ML	–	–	–	1.8834	–
–	BTStE 420 TM	S 420 MI	–	–	S 420 ML	E 420	S 420 ML	–	–	–	1.8836	–
–	S 235 J 0 W (Allwesta 360)	S 235 J 0 W	SMA 400 BW	–	S 235 J0 W	S 235 J 0 W	–	–	–	–	1.8958	–
–	S 355 J 0 W (Allwesta 510)	WR 50 B	SMA 490 BW	–	S 235 J0 W	E24W-3	S 235 J0 W	–	–	–	1.8959	–
–	WTSt 37-2/S235JRW	WR 50 B	SMA 41 A	K11538	S 235 JR W	E 24 W-2	–	–	–	–	1.8960	–
–	WTSt 37-3	WR 50 C	SMA 50 A	–	S 235 J2 W	S 235 J 2 W	Fe 360 D FF	–	–	–	1.8961	–
–	USt 42-2	–	SS 41	–	–	HS 18-0-2-10	–	–	–	–	1.0040	–
–	St 37-2	–	–	–	S 235 JRC	E 24-2	S 235 JRC	–	–	–	1.0120	–
–	S 235 JR G1F	–	–	–	S 235 JRG 1 F	–	–	–	–	–	1.0160	–
–	St 12	DC 01/Fe P01	SPCC	–	Fe P01	DC 01/fe P01	DC 01/FeP0 1	–	–	–	1.0330	–
–	GS-38	A1	–	–	GE 200	230-400M	–	1306	–	–	1.0420	–
–	GS-20 Mn 5	–	SMnC 420	H15220	–	–	–	–	–	–	1.1120	–
–	G 20 Mn 5	–	–	–	G 20 Mn 5	–	G 20 Mn 5	–	–	–	1.6220	–

P2 Elenco dei materiali • Acciaio • P2

P2 Acciai a medio e alto contenuto di carbonio *Contenuto: C >.25%* *Resistenza alla trazione RM (MPa)*: >530* *Durezza (HB): <220 (HRC): <25*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	S 355 JR	En 50 B	SM 490 YA	–	S 1207	E36-2	Fe 510 BFN	–	–	–	1.0045	–
1035	C 35	060 A 35	S 35 C	G 10350	1 C 35	CC 35	C 35	1550	–	–	1.0501	–
1045	GS-C 45	080 M 46	S 45 C	G10450	1 C 45	CC 45	C 45	1650	–	–	1.0503	–
1040	C 40	080 M 40	S 40 C	G 10 400	1 C 40	C 40	C 40	–	–	–	1.0511	–
1046	S 355 K 2 G 4 Cu	–	–	G10460	S 355 K2 G4 Cu	–	–	–	–	–	1.0519	–
1030	C30	080 M 30	SUP 7	G 10 300	1 C 30	C C 32	C 30	–	–	–	1.0528	–
1055	C 55	070 M 55	S 55 C	J05000	1 C 55	C 55	C 55	1655	–	–	1.0535	–
1551	C 50 Pb	–	–	G15510	C 50 G Pb	–	–	–	–	–	1.0542	–
–	GS-60	A3	–	–	GE 300	320-560M	C 45	1606	–	–	1.0558	–
1037	36 Mn4	170 H 36	–	G10370	–	–	–	–	–	–	1.0561	–
–	PSt 52-3 (S 355 J2 G3 F)	–	–	–	S 355 J2 G3 F	–	FE 510 C	–	–	–	1.0572	–
–	S 355 J2H (RoSt 52-3)	50D	–	–	S355J2H	–	S355J2H	–	–	–	1.0576	–
1060	C 60	080 A 62	S 60 C-CSP	G 10600	1 C 60	AF 70 C 55	C 60	–	–	–	1.0601	–
1070	C 67	CS 70	S 70 C -CSP	G10700	1 CS 67	C 68	C 67	–	–	–	1.0603	–
1074	C 75	CS 80	–	G10740	1 CS 75	C 75	C 75	–	–	–	1.0605	–
1059	C58D	–	S 58 C	G10590	C 58 D	FM 58	C 58 D	–	–	–	1.0609	–
1075	C76D	–	–	G10750	C 76 D	FM 76	C 76 D	–	–	–	1.0614	–
1080	C86D	CS 80	–	G10860	C 86 D	FM 86	C 86 D	–	–	–	1.0616	–
1095	C92D	95 CS	–	G10950	C 92 D	–	C 92 D	–	–	–	1.0618	–
1110	U 10 S 10	–	SUM 12	G11100	–	–	–	–	–	–	1.0702	–
11L08	10 SPb 20	–	–	G 11084	10 SPb 20	10 Pb F 2	CF 10 SPb 20	–	–	–	1.0722	–
1140	35 S 20	212 M 36	–	G 11400	35 S 20	35 MF 4	–	1957	–	–	1.0726	–
1146	45 S 20	212 M 44	–	G 11460	45 S 20	45 MF 4	–	1973	–	–	1.0727	–
1151	60 S 20	–	–	G11510	60 S 20	60 MF 4	–	–	–	–	1.0728	–
1141	36 Mn 6	212 M 36	S Mn 443	G 11410	–	–	–	–	–	–	1.1127	–
1039	40 Mn 4	150 M 36	–	G10390	–	35 M 5	–	–	–	–	1.1157	–
1536	34 Mn 5	En15B	SS 55	G15360	–	–	–	–	–	–	1.1166	–
1030	Cq 35	–	F.1133 (C 35 DF)	G 10300	C 35 KD	–	CB 35	–	–	–	1.1172	–
1034	Ck 34	080 M 34	S 34 C	G 10340	2 C 34	–	C 34	–	–	–	1.1173	–
1038 H	Ck 38	–	–	G 10380	–	XF 38	–	–	–	–	1.1176	–
1030	Ck 30	080 M 30	S 30 C	G 10300	2 C 30	XC 32	C 30	–	–	–	1.1178	–
1034	Ck 35	080 M 36	S 35 C	G 10340	2 C 35	XC 38 H1	C 35	1572	–	–	1.1181	–
1035	Cf 35	060 A 35	S 35 C	G 10350	C 35 G	XC 38 TS	C 35	1572	–	–	1.1183	–
1040	Ck 40	080 A 40	S 40 C	G 10400	2 C 40	XC 42 H1	C 40	–	–	–	1.1186	–
1045	Cf 45	060 A 47	S 45 C	G10450	C 45 G	XC 42 TS	C 43	1672	–	–	1.1193	–
1055	Ck 55	070 M 55	S 55 C	G10550	2 C 55	XC 55 H1	C 55	1655	–	–	1.1203	–
1050	Ck 50	080 M 50	S 50 C	G10500	2 C 50	XC 48 H1	C 50	1674	–	–	1.1206	–
1055	Cm 55	070 M 55	–	G 10550	3 C 55	XC 55 H1	C 55 R	–	–	–	1.1209	–
1053	Ck 53	En43C	S 53 C	G 10530	–	–	–	–	–	–	1.1210	–
1050	Cf 53	060 A 57	S 50 C	G 10500	C 53 G	XC 48 TS	C 48	1674	–	–	1.1213	–
1060	Ck 60	060 A 62	S 58 C	G 10640	2 C 60	XC 60	C 60	1678	–	–	1.1221	–
1552	52 Mn 5	–	–	G15520	–	–	–	–	–	–	1.1226	–
1065	FD (Federstahldraht)	095 A 65	–	G10650	C 68 D	–	–	–	–	–	1.1230	–
1070	Ck 67	060 A 67	S 70 C-CSP	G 10700	C 67 S	XC 68	C 70	1770	–	–	1.1231	–
1069	Ck 68	–	–	G10690	C 70 D	–	–	–	–	–	1.1234	–
1080	Ck 75	060 A 78	C 75	G 10800	C 75 S	XC 75	C 75	1774	–	–	1.1248	–
–	Cf 70	–	–	–	C 70 G	XC 70	–	–	–	–	1.1249	–
1090	Ck 85	–	SK 5 -CSP	G 10900	C 85 S	XC 90	C 90	–	–	–	1.1269	–
1085	90 Mn 4	080 A 83	SUP4	G 10850	–	–	–	–	–	–	1.1273	–
1095	Ck 101	060 A 96	SUP_4	G 10950	C 100 S	XC 100	C 100	1870	–	–	1.1274	–
1050	C 50	080 M 50	S 50 C	G 10 500	1 C 50	C 50	C 50	1674	–	–	1.0540	–
–	St 52-3 G	4360-50 B	SM 50 YB	–	S 355 J 2 G 3	E 36-3	Fe 510 B	2132	–	–	1.0570	–
1078	C78D	–	SWRH 77 B	G10780	C 78 D	FM 78	C 78 D	–	–	–	1.0620	–
1035	Cm 35	080 M 36	–	G 10350	3 C 35	38 H1 k	C 35 R	1572-03	–	–	1.1180	–
1566	66 Mn 4	–	–	G15660	–	–	–	–	–	–	1.1260	–
1084	C 85 W	–	SK 5	G10840	C 90 U	Y3 90	–	–	–	–	1.1830	–

NOTA: Per la legenda, vedere a pagina Y217.

P3 Elenco dei materiali • Acciaio • P3

P3 Acciai legati e acciai per utensili *Contenuto: C >.25%* *Resistenza alla trazione RM (MPa)*: 600–850* *Durezza (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
1330	GS-30 Mn 5	120 M 36	SMn 433 H; SCMn 2	K13300	–	35 M 5	–	1330	–	–	1.1165	–
1330	28 Mn 6	150 M 28	SCMn 1	G 13300	28 Mn 6	35 M 5	C 28 Mn	–	–	–	1.1170	–
1335	36 Mn 5	150 M 36	SMn 438(H)	G13350	–	40 M 5	–	2120	–	–	1.1167	–
1345	StSch 90 C/GP 280 GH	–	–	G13450	GP 280 GH	GP 280 GH	GP 280 GH	–	–	–	1.0625	–
1513	P265	HR 40/30	–	G15130	–	12 M 5	–	–	–	–	1.0424	–
4142	43 CrMo 4	–	–	G41420	–	43 Cr Mo 4	–	–	–	–	1.3563	–
4147	48 CrMo 4	817 M 40	SNC 836	H41470	–	48 CrMo 4	–	–	–	–	1.3565	–
4419	GS-22 Mo 4	243-430	SCPH 11	G44190	G 20 Mo 5	G20Mo5	G 22 Mo 5	–	–	–	1.5419	–
4520	16 Mo 5	1503-245-420	SBC 690	K11522	–	–	16 Mo 5	–	–	–	1.5423	–
5015	15 Cr 3	523 M15	SCr 415 H	G50150	15 Cr 2	12 C 3	–	–	–	–	1.7015	–
5046	44 Cr 2	–	–	H50460	46 Cr 1 KD	44 Cr 2	–	–	–	–	1.3561	–
5115	16 MnCr 5	527 M 17	SCR 415	G 51150	16 MnCr 5 KD	16 MC 5	16 MnCr 5	2173	–	–	1.7131	–
5117	17 Cr 3	17 Cr 3	–	G51170	(15 Cr 2 KD)	18 C 3	–	–	–	–	1.7016	–
5130	28 Cr 4	530 A 30	–	G51300	28 Cr 4	30 CD 4	–	–	–	–	1.7030	–
5140	41 Cr 4	530 M 40	SCr 440 H	G51400	41 Cr 4	42 C 4	41 Cr 4	–	–	–	1.7035	–
5140	42 Cr 4	530 A 40	SCr 440	–	40 NiCrMo 3	42 C 4 TS	40 NiCrMo 3	2245	–	–	1.7045	–
9255	51 Si 7	250 A 53	–	G92550	–	51 S 7	48 Si 7	2090	–	–	1.0903	–
9255	55 Si 7	250 A 53	SKH 1; SKT 4	G92550	55 NiCrMoV 7	55 S 7	55 Si 8	2085	–	–	1.0904	–
9260	60 Si 7	251 A 60	–	G92600	60 Si 7	60 S 7	60 Si 7	–	–	–	1.5027	–
9262	60 SiCr 7	250 A 61	SUP 7	G92620	60 SiCr 8	60 SC 7	60 SiCr 8	–	–	–	1.0961	–
9262	60 SC 7	–	–	G92620	60 SiCr 8	61 SC 7	60 SiCr 8	–	–	–	1.5092	–
9262	60 SiCr 7	–	–	–	60 SiCr 8	–	–	–	–	–	1.7108	–
15B21 H	19 MnB 4	170 H 20	SWRCHB 420	H15211	19 MnB 4	20 MB 5	–	–	–	–	1.5523	–
15B21 H	20 MnB 5	–	SWRCHB 620	–	20 MnB 5	20 MnB 5	20 MnB 5	–	–	–	1.5530	–
50B40	37 CrB 1	120 M 36	SMnC 3 H	H50401	38 Cr 2	–	35 CB 1	–	–	–	1.7007	–
5130 H	34 Cr 4	530 A 32	SCr 430 H	G51300	34 Cr 4 KD	32 C 4	34 Cr 4 KB	–	–	–	1.7033	–
5132 H	37 Cr 4	530 A 36	SCr 435 H	G51320	37 Cr 4	38 C 4	36 CrMn 4	–	–	–	1.7034	–
A 204 Gr. A	15 Mo 3	1501-240	STFA 12	K11820	16 Mo 3	15 D3	16 Mo 3 KW	2912	–	–	1.5415	–
A 350-LF 5	10 Ni 14	503	SL 3 N 26	K31718	12 Ni 14	12Ni14	18 Ni 14 KT	–	–	–	1.5637	–
A 387 Gr. 12 Cl. 2	16 CrMo 4 4	–	–	K11564	–	–	A 18 CrMo 4 5 KW	–	–	–	1.7337	–
A 570 Gr. 36	St 37-3	4360-40 C	–	K01501	S 235 J2 G3	Fe 360 D1(2); E 24-3	Fe 360 D1(2)	1312	–	–	1.0116	–
A 570 Gr. 40	St 44-2	4360-43 B	SM 41 B	K 02502	S 275 JR	E 28-2	Fe 430 BFN	1412	–	–	1.0044	–
A 570 Gr. 50	St 50-2	4360-50 B	SS 50	–	E 295	A 50-2	Fe 490	2172	–	–	1.0050	–
A 573 Gr. 70	St 44-3	4360-43 C	SM 41 B	–	Fe 430 D1(2); S 275 J2 G3 (4)	Fe 430 D1(2); E 28-4	Fe 430 D FF	1414	–	–	1.0144	–
A 633 Gr. C	St E 355	P 355 N	SM 50 YB	K12000	P 355 N	E 355 R/FP	Fe E 355 KG	2132	–	–	1.0562	–
A 633 Gr. E	St E 420	S 420 N	SM 50 C	K02002	FeE 420 KGN	E 420-I	Fe E 420 KG	2143	–	–	1.8902	–
A 633 Gr. E	St E 460	P 460 N	SM 53 B	K02900	P 460 N	E 460-I	Fe E 460 KG	2143	–	–	1.8905	–
A-6	C 67 W	–	–	T30106	–	Y1 70	–	–	–	–	1.1744	–
E 52100	100 Cr 6	535 A 99	SUJ 2	G52986	100 Cr 6	100 C 6	100 Cr 6	2258	–	–	1.3505	–
O 2	90 MnCrV 8	BO 2	–	T31502	90 Mn V 8	90 MV 8	90 MnVCr 8 KU	–	–	–	1.2842	–
P21	90 Cr 3	–	–	T51621	–	–	–	–	–	–	1.2056	–
P3	10 NC 6	–	–	T51603	15 NiCr 6	10 NC 6	–	–	–	–	1.5713	–
P6	15 NiCr 14	–	SNC 22	T51606	–	10 NC 12	–	–	–	–	1.2735	–
T 8	C 80 W2	BW 1B	SKC 3	T12008	–	Y1 80	C 80 KU	–	–	–	1.1625	–
W 108	C 80 W1	–	–	T72301	C 80 U	Y1 90	C 80 KU	1880	–	–	1.1525	–
W 110	C 105 W1	B W 1 A	–	T72301	C 105 U	Y 105	C 100 KU	1880	–	–	1.1545	–
W 112	C 125 W	–	–	–	C 125 U	–	–	–	–	–	1.1563	–
W 112	C 125 W	–	SK 2	T72301	C 120 U	Y2 120	C 120 KU	–	–	–	1.1663	–
W 210	100 V 1	BW 2	SKS 43	T72302	100 V 2	Y1 105 V	102 V 2 KU	–	–	–	1.2833	–
–	St 50-1	–	–	–	–	–	–	–	–	–	1.0052	–
–	S 235 JO/ Fe 360 C	En 40C	–	–	S 235 JO	E24-3	Fe 360 CFN	–	–	–	1.0114	–
–	QSt 37-3	–	SWRCH 12R	–	–	–	–	–	–	–	1.0123	–
–	S 275 J0	En43C;S275J0	–	–	S 275 J0/ Fe 430 C	S 275 J0; E 28-3	S275J0; Fe430CFN	–	–	–	1.0143	–
–	S 275 J2 G4/ Fe 430 D 2	S 275 J2 G4	–	–	S 275 J2 G4	E28-4; S 275 J2 G4	S 275 J2 G4	1414	–	–	1.0145	–
–	Ro St 44-2	43C	–	–	S 275 J0 H	–	S 275 J0 H	–	–	–	1.0149	–
–	St 37.0	–	STPG 38	–	P 235 T1	–	–	–	–	–	1.0254	–
–	C9D	–	SWRM 8	–	C 9 D	FM 9	C 9 D	–	–	–	1.0304	–
–	C7D	C 7 D	SWRM 8	G10060	C 7 D	FM 8	C 7 D	–	–	–	1.0313	–
–	P235 GH	P 235 GH	SPV 50	K02503	P 235 GH	A 37 CP	Fe E 235	1330	–	–	1.0345	–
–	C 25 Pb	–	–	–	C 25 GPb	–	–	–	–	–	1.0411	–
–	L 245 MB	430	–	K03006	L 245 MB	L 245 MB	–	–	–	–	1.0418	–
–	P310 NB	224-410	SG 325	K02100	P280GH	BS 2	P 275 N	2103	–	–	1.0426	–
–	L 290 MB	–	–	–	L290MB	L 290 MB	–	–	–	–	1.0429	–
–	H III/P285NH	–	Sm 38	–	P 285 NH	–	–	–	–	–	1.0435	–
–	P310 NB	224-430	SG 325	K02100	P305GH	P 275 N	P 275 N	2103	–	–	1.0436	–
–	A St 41	P 275 N	STK 400	K02100	S 275 N	BS 3	P 275 N	2103	–	–	1.0437	–
–	B 500 A	–	SD 490	–	B 500 A	–	B 500 A	–	–	–	1.0438	–
–	H IV/P295NH	–	SG 37	K03102	–	–	Fe 460-2 KW	–	–	–	1.0445	–
–	StE 240.7	–	–	–	L 245 NB	L 245 NB	–	–	–	–	1.0457	–
–	TStE 255	–	–	K11535	–	–	–	–	–	–	1.0463	–
–	15 Mn 3 Al	–	–	–	C 14 GAl	–	–	–	–	–	1.0468	–
–	19 Mn 6/P 355 GH	P 355 GH	SGV 46	K03300	P355GH	A 52 CP	Fe E355-2	2101	–	–	1.0473	–
–	17 Mn 4/P 295 GH	224-460B	SG 37	K03501	P 295 GH	A 48 CP	Fe E 295	2102	–	–	1.0481	–
–	19 Mn 5	224-460	SG 37	K 03102	–	A 52 CP; AP; FP	Fe 460- 2 KW	–	–	–	1.0482	–
–	L 290 AG	–	–	–	L290GA	TS E 290	–	–	–	–	1.0483	–
–	L 290 NB	–	–	–	L290NB	L 290 NB	–	–	–	–	1.0484	–
–	21 Mn 6	–	–	K12320	–	–	–	–	–	–	1.0485	–
–	St E 285	P 275 N	SM 41 A	K 01802	P 275 N	P 275 N	Fe E 285 KG	–	–	–	1.0486	–
–	W St E 285	P 275 N	–	K 01802	P 275 NH	P 275 N	Fe E 285 KW	–	–	–	1.0487	–
–	T St E 285	P 275 NL 1	SLA 235 A	K 01803	P 275 NL 1	P 275 NL 1	Fe E 285 KT	–	–	–	1.0488	–
–	H 300/ZSt E 300	H280LA	–	–	H 280 LA	E 280 C	–	–	–	–	1.0489	–
–	S 275 NH	S 275 NH	–	–	S 275 NH	–	S 275 NH	–	–	–	1.0493	–
–	S 275 NLH	S275NLH	–	–	S 275 NLH	–	S275NLH	–	–	–	1.0497	–
–	C 35 Pb/C 35 GPb	–	–	–	C 35 Pb	–	–	–	–	–	1.0502	–
–	St E 315/P 315N	–	SM 50 A	K11506	P 315 N	–	Fe E 315 KG	–	–	–	1.0505	–
–	W St E 315	–	SNC 1	K02404	P 315 NH	–	Fe E 315 KW	2107	–	–	1.0506	–
–	St 55	–	STKM 16A	–	–	–	Fe 540	–	–	–	1.0507	–
–	T St E315	–	SLA 325 A	K02404	P 315 NL	–	–	2106	–	–	1.0508	–
–	C 40 Pb	–	–	–	C 40 G Pb	–	–	–	–	–	1.0512	–
–	C38D	–	SWRH 37	–	C 38 D	FM 38	C 38 D	–	–	–	1.0516	–
–	C48D	–	SWRH 48	–	C 48 D	FM 48	C 48 D	–	–	–	1.0517	–
–	C56D	–	–	–	C 56 D	FM 56	C 56 D	–	–	–	1.0518	–
–	S 355 NH	S 355 NH	–	–	S 355 NH	–	S 355 NH	–	–	–	1.0539	–
–	C42D	–	SWRH 42 B	–	C 42 D	FM 42	C 42 D	–	–	–	1.0541	–
–	S 355 JO H	50 C	–	–	S 355 JO H	–	S 355 JO H	–	–	–	1.0547	–
–	ZStE 340/ H 340	H 320 L A	–	–	H 320 LA	E 315 C	–	–	–	–	1.0548	–
–	S 335 NLH	50 EE	–	–	S 355 N LH	–	S 355 N L H	–	–	–	1.0549	–
–	S 355 JO	En 50 C; S 355 JO	SM 520 M	–	S 355 JO	S 355 JO; E 36-3	S 355 JO; Fe 510 C FN	–	–	–	1.0553	–
–	GS-70	50 C	–	–	S 355 JO C	E 36-3	Fe 510 C	–	–	–	1.0554	–

(continua)

P3

Elenco dei materiali • Acciaio • P3 *(continua)*

P3 Acciai legati e acciai per utensili *Contenuto: C >.25%* *Resistenza alla trazione RM (MPa)*: 600–850* *Durezza (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	ZStE 420/H 420	46/40HR,HS,CS	–	–	H 400 LA	H 400 LA	–	–	–	–	1.0556	–
–	P355 NB	–	SG 365	–	P 355 NB	BS 4	–	–	–	–	1.0557	–
–	W St E 355	P 355 NH	–	K01600	P 355 NH	P 355 NH	Fe E 355 KW	–	–	–	1.0565	–
–	T St E355	P 355 NL1	SLA 37	–	P 355 NL1	P 355 NL1	Fe E 355 KT	–	–	–	1.0566	–
–	P355 QH1	P 355 QH	–	–	P 355 QH	P 355 QH	–	–	–	–	1.0571	–
–	S 355 J 2 G 4	S 355 J 2 G 4	–	–	S 355 J 2 G 4	S 355 J 2 G 4	S 355 J 2 G 4	–	–	–	1.0577	–
–	L 360 MB	–	–	–	L 360 MB	L 360 MB	–	–	–	–	1.0578	–
–	St 52.4	–	STS 49	–	–	–	–	–	–	–	1.0581	–
–	L 360 NB/StE 360.7	–	–	–	L360NB	L 360 NB	–	–	–	–	1.0582	–
–	S 355 J 2 G 3 Cu/St 52-3 Cu3	–	–	–	S 355 J2 G3 Cu + CR	–	–	–	–	–	1.0585	–
–	C50D	–	–	–	C 50 D	FM 50	C 50 D	–	–	–	1.0586	–
–	QSt 52-3 Cu 3	–	–	–	S 355 J2 G3 Cu C	–	–	–	–	–	1.0587	–
–	D 53-2	–	SWRH 52 B	–	C 52 D	FM 52	C 52 D	–	–	–	1.0588	–
–	S 355 J 2 G 4 Cu	–	–	–	S 355 J2 G4 Cu	–	–	–	–	–	1.0592	–
–	S355k2G3/Fe 510 DD1 (MULTIST	S 355 K 2 G 3	SM 520 C	K02505	S 355 K 2 G 3	E36-4	S 355 K 2 G 3	–	–	–	1.0595	–
–	S355K2G4/Fe 510 DD 2 (MULTIS	S 355 K 2 G 4	–	–	S 355 K 2 G 4	S 355 K 2 G 4	S 355 K 2 G 4	–	–	–	1.0596	–
–	C62D	–	SWRH 62 B	–	C 62 D	FM 62	C 62 D	–	–	–	1.0611	–
–	C66D	–	–	–	C 66 D	FM 66	C 66 D	–	–	–	1.0612	–
–	C68D	–	SWRH 67 B	–	C 68 D	FM 68	C 68 D	–	–	–	1.0613	–
–	C70D	–	–	–	C 70 D	FM 70	C 70 D	–	–	–	1.0615	–
–	C72D	–	SWRH 72 B	–	C 72 D	FM 72	C 72 D	–	–	–	1.0617	–
–	GS-C 25	–	SCPH 1	–	GP 240 GH	GP 240 GH	GP 240 Gh	–	–	–	1.0619	–
–	C80D	–	–	–	C 80 D	FM 80	C 80 D	–	–	–	1.0622	–
–	C82D	–	SWRH 82 B	–	C 82 D	FM 82	C 82 D	–	–	–	1.0626	–
–	35 SPb 20	35 SPb 20	–	–	35 SPb 20	35 SPb 20	–	–	–	–	1.0756	–
–	45 SPb 20	–	–	–	46 SPb 20	–	–	–	–	–	1.0757	–
–	38 SMnPb 28	38 SMnPb 28	–	–	38 SMnPb 28	38 SMnPb 28	–	–	–	–	1.0761	–
–	44 SMn 28	44 SMn 28	–	–	44 SMn 28	44 SMn 28	–	–	–	–	1.0762	–
–	44 SMnPb 28	44 SMnPb 28	–	–	44 SMnPb 28	44 SMnPb 28	–	–	–	–	1.0763	–
–	36 SMnPb 14	36 SMnPb 14	–	–	36 SMnPb 14	36 SMnPb 14	–	–	–	–	1.0765	–
–	QSt E 690 TM (S 700 MC)	–	–	–	S 700 MC	S 690 MC	S 700 MC	–	–	–	1.0966	–
–	QSt E 260 N 7 S 260 NC	–	AE 275 NC	–	S 260 NC	–	S 260 NCX	–	–	–	1.0971	–
–	QSt E 300 TM/S 315 MC	43 F35 HR,HS,CS	–	–	S 315 MC	E 315 D	S 315 MC	–	–	–	1.0972	–
–	QSt E 300 N 7/ S 315 NC	–	AE 340 NC	–	S 315 NC	–	S 315 NC	–	–	–	1.0973	–
–	QSt E340 TM	HR 40/30	–	–	S 340 MC	E 335 D	–	–	–	–	1.0974	–
–	QSt E340 N	–	–	–	S 340 NC	–	Fe E 355 TD	–	–	–	1.0975	–
–	QSt E 360TM	–	–	–	S 355 MC	E 355 D	Fe E 355 TM	–	–	–	1.0976	–
–	QSt E360 N	–	–	–	S 355 NC	–	Fe E 355 TD	–	–	–	1.0977	–
–	QSt E380 TM	–	–	–	S 380 MC	E 390 D	–	–	–	–	1.0978	–
–	QSt E380 N	–	–	–	S 380 NC	–	Fe E 380 TD	–	–	–	1.0979	–
–	QSt E420 TM	HR 50 F 45	–	–	S 420 MC	E 430 D	Fe E 420 TM	–	–	–	1.0980	–
–	QSt E 420 N	–	–	–	S 420 NC	–	Fe E 420 TD	–	–	–	1.0981	–
–	QSt E 460 TM	50/45 HR	–	–	S 460 MC	E 445 D	–	–	–	–	1.0982	–
–	QSt E 460 N	–	–	–	S 460 NC	–	Fe E 460 TD	–	–	–	1.0983	–
–	QSt E500 TM	–	–	–	S 500 MC	E 490 D	Fe E 490 TM	2662	–	–	1.0984	–
–	QSt E500 N	–	–	–	S 500 NC	–	–	–	–	–	1.0985	–
–	QSt E550 TM	60/55 HS	–	–	S 550 MC	E 560 D	Fe E 560 TM	–	–	–	1.0986	–
–	QSt E550 N	–	–	–	S 550 NC	–	–	–	–	–	1.0987	–
–	EStE 285	P 275 NL 2	STK 400	–	P 275 NL 2	P 275 NL 2	P 275 NL 2	–	–	–	1.1104	–
–	EStE 315	–	–	–	S 315 NL 1	–	–	–	–	–	1.1105	–
–	EStE 355	P 355 NL 2	STK 500	–	P 355 NL 2	P 355 NL 2	P 355 NL 2	–	–	–	1.1106	–
–	C5D2	–	–	–	C 5 D 2	FM 6	C 5 D 2	–	–	–	1.1111	–
–	C8D2	–	–	–	C 8 D 2	FM 8	C 8 D 2	–	–	–	1.1113	–
–	C 10 E W/RSD 11	–	–	–	C 10 EW	–	–	–	–	–	1.1115	–
–	C32D2	–	–	–	C 32 D 2	FM 32	C 32 D 2	–	–	–	1.1143	–
–	C36D2	–	–	–	C 36 D 2	FM 36	C 36 D 2	–	–	–	1.1145	–
–	C40D2	–	–	–	C 40 D 2	FM 40	C 40 D 2	–	–	–	1.1153	–
–	C42D2	–	–	–	C 42 D 2	FM 42	C 42 D 2	–	–	–	1.1154	–
–	C46D2	–	–	–	C 46 D 2	FM 46	C46D 2	–	–	–	1.1162	–
–	C 25 R	C 25 R	–	–	C 25 R	C 25 R	C 25 R	–	–	–	1.1163	–
–	C48D2	–	–	–	C 48 D 2	FM 48	C48 D 2	–	–	–	1.1164	–
–	20 Mn 6	150 M 19	–	–	–	20 M 5	20 Mn 6	–	–	–	1.1169	–
–	C50D2	–	–	–	C 50 D 2	FM 50	C50D 2	–	–	–	1.1171	–
–	C 30 R	C 30 R	C 30 R (3 C 30)	–	C 30 R	C 30 R	C 30 R	–	–	–	1.1179	–
–	C3D1	–	–	–	C 3 D 1	–	C 3 D 1	–	–	–	1.1187	–
–	C40R/Cm 40	C 40 R	–	–	C 40 R	C 40 R	C 40	–	–	–	1.1189	–
–	Ck 45	080 M 46	S 45 C	–	2 C 45	XC 42	C 40	1672	–	–	1.1191	–
–	Cq 45	–	SWRCH45K	–	C 45 KD	–	–	–	–	–	1.1192	–
–	C 45 R	080 M 46	S 50 C	–	C 45 R	XC 48 H1u	C 45 R	1672	–	–	1.1201	–
–	C52D2	–	–	–	C 52 D 2	FM 52	C 52 D 2	–	–	–	1.1202	–
–	C 53 R/Cm 53	–	–	–	C 53 R	–	–	–	–	–	1.1205	–
–	C 10 R	C 10 R	–	–	C 10 R	C 10 R	–	–	–	–	1.1207	–
–	C 16 R	C 16 R	–	–	C 16 R	C 16 R	–	–	–	–	1.1208	–
–	C58D2	–	–	–	C 58 D 2	FM 58	C 58 D 2	–	–	–	1.1212	–
–	C62D2	–	–	–	C 62 D 2	FM 62	C 62 D 2	–	–	–	1.1222	–
–	Cm 60	C 60 R	–	–	3 C 60	C 60 R	C 60 R	–	–	–	1.1223	–
–	C60D2	–	–	–	C 60 D 2	FM 60	C 60 D 2	–	–	–	1.1228	–
–	C68D2	–	–	–	C 68 D 2	FM 68	C 68 D 2	–	–	–	1.1232	–
–	C66D2	–	–	–	C 66 D 2	FM 66	C 66 D 2	–	–	–	1.1236	–
–	C50R	C 50 R	–	–	C 50 R	FM 50	C 50 R	–	–	–	1.1241	–
–	C72D2	–	–	–	C 72 D 2	FM 72	C 72 D 2	–	–	–	1.1242	–
–	C70D2	–	–	–	C 70 D 2	FM 70	C 70 D 2	–	–	–	1.1251	–
–	C78D2	–	–	–	C 78 D 2	FM 78	C 78 D 2	–	–	–	1.1252	–
–	C76D2	–	–	–	C 76 D 2	FM 76	C 76 D 2	–	–	–	1.1253	–
–	C80D2	–	–	–	C 80 D 2	FM 80	C 80 D 2	–	–	–	1.1255	–

NOTA: Per la legenda, vedere a pagina Y217.

(continua)

P3 Elenco dei materiali • Acciaio • P3 *(continua)*

P3 Acciai legati e acciai per utensili *Contenuto: C >.25%* *Resistenza alla trazione RM (MPa)*: 600–850* *Durezza (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	C82D2	–	–	–	C 82 D 2	FM 82	C 82 D 2	–	–	–	1.1262	–
–	C86D2	–	–	–	C 86 D 2	FM 86	C 86 D 2	–	–	–	1.1265	–
–	C88D2	–	–	–	C 88 D 2	–	C 88 D 2	–	–	–	1.1272	–
–	C92D2	–	–	–	C 92 D 2	–	C 92 D 2	–	–	–	1.1282	–
–	C98D2	–	–	–	C 98 D 2	–	C 98 D 2	–	–	–	1.1283	–
–	46 MnVS 6	–	–	–	46 MnVS 6	–	–	–	–	–	1.1304	–
–	C 90 U	–	–	–	C90U	–	–	–	–	–	1.1535	–
–	85 Cr 1	–	–	–	–	Y1 100 C 2	–	–	–	–	1.2004	–
–	140 Cr 3	–	SKS 8	–	140 Cr 2	Y2 140 C	–	–	–	–	1.2008	–
–	21 MnCr 5	–	SCR 420 H	–	21 MnCr 5	20 NC 5	–	–	–	–	1.2162	–
–	40 CrMnNiMo 8 6 4	–	–	–	40 CrMnNiMo 8-6-4	–	–	–	–	–	1.2738	–
–	16 CrNiMo 6	820A16	–	–	–	16 NCD 6	16NiCrMo6	–	–	–	1.3531	–
–	100 CrMn 7 3	–	–	–	100 CrMnMo 7	100 CD 7	–	–	–	–	1.3536	–
–	100 CrMo 7	–	SUS 4	K19965	100 CrMo 7	100 CD 7	100CrMo7	–	–	–	1.3537	–
–	100 CrMnMo 8	–	–	–	–	100 CrMnMo 8	–	–	–	–	1.3539	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	12 CrMo 11 10	–	–	–	–	–	–	–	–	–	1.7305	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5,05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 500 M	–	–	–	S 500 m	–	–	–	–	–	1.8829	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/P460NI2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VA/S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	TStE 690 VB/S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–
–	WSt E 420/P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–

(continua)

P3

Elenco dei materiali • Acciaio • P3 *(continua)*

P3 Acciai legati e acciai per utensili *Contenuto: C >.25%* *Resistenza alla trazione RM (MPa)*: 600–850* *Durezza (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	12 CrMo 11 10	–	–	–	–	–	–	–	–	–	1.7305	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5,05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 500 M	–	–	–	S 500 m	–	–	–	–	–	1.8829	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/P460Nl2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VA/S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	TStE 690 VB/S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–

NOTA: Per la legenda, vedere a pagina Y217.

(continua)

P3 Elenco dei materiali • Acciaio • P3 *(continua)*

P3 Acciai legati e acciai per utensili *Contenuto: C >.25%* *Resistenza alla trazione RM (MPa)*: 600–850* *Durezza (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	WSt E 420/P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–

P4 Elenco dei materiali • Acciaio • P4

P4 Acciai legati e acciai per utensili *Contenuto: C>.25%* *Resistenza alla trazione RM (MPa)*: 850–1400* *Durezza (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
A 570 Gr. 40	St 44-2	4360-43 B	SM 41 B	K 02502	S 275 JR	E 28-2	Fe 430 BFN	1412	–	–	1.0044	–
–	S 235 J0/Fe 360 C	En 40C	–	–	S 235 J0	E24-3	Fe 360 CFN	–	–	–	1.0114	–
A 570 Gr. 36	St 37-3	4360-40 C	–	K01501	S 235 J2 G3	Fe 360 D1(2); E 24-3	Fe 360 D1(2)	1312	–	–	1.0116	–
–	QSt 37-3	–	SWRCH 12R	–	–	–	–	–	–	–	1.0123	–
–	S 275 J0	En43C;S275J0	–	–	S 275 J0/Fe 430 C	S 275 J0; E 28-3	S275J0;Fe430CFN	–	–	–	1.0143	–
A 573 Gr. 70	St 44-3	4360-43 C	SM 41 B	–	Fe 430 D1(2); S 275 J2 G3 (4)	Fe 430 D1(2); E 28-4	Fe 430 D FF	1414	–	–	1.0144	–
–	S 275 J2 G4/Fe 430 D 2	S 275 J2 G4	–	–	S 275 J2 G4	E28-4;S 275 J2 G4	S 275 J2 G4	1414	–	–	1.0145	–
–	Ro St 44-2	43C	–	–	S 275 J0 H	–	S 275 J0 H	–	–	–	1.0149	–
–	St 37.0	–	STPG 38	–	P 235 T1	–	–	–	–	–	1.0254	–
–	C9D	–	SWRM 8	–	C 9 D	FM 9	C 9 D	–	–	–	1.0304	–
–	C7D	C 7 D	SWRM 8	G10060	C 7 D	FM 8	C 7 D	–	–	–	1.0313	–
–	L 210 GA	–	–	–	L 210 GA	TS E 220 classe 2	–	–	–	–	1.0319	–
–	USD 7/C 8 G1 W	–	–	–	C 8 G 1 W	–	–	–	–	–	1.0323	–
–	RSD 7/C8G2W	–	–	–	C 8 G 2 W	–	–	–	–	–	1.0324	–
–	RSD 10 Si/C10WSi	–	–	–	C 10 W Si	–	–	–	–	–	1.0339	–
–	P235 GH	P 235 GH	SPV 50	K02503	P 235 GH	A 37 CP	Fe E 235	1330	–	–	1.0345	–
–	RRSD 10/C10 W	–	–	–	C 10 W	–	–	–	–	–	1.0351	–
–	St 45.8	–	STB 410	K02727	–	–	–	–	–	–	1.0405	–
–	C 25 Pb	–	–	–	C 25 GPb	–	–	–	–	–	1.0411	–
–	L 245 MB	430	–	K03006	L 245 MB	L 245 MB	–	–	–	–	1.0418	–
1513	P265	HR 40/30	–	G15130	–	12 M 5	–	–	–	–	1.0424	–
–	P310 NB	224-410	SG 325	K02100	P280GH	BS 2	P 275 N	2103	–	–	1.0426	–
–	L 290 MB	–	–	–	L290MB	L 290 MB	–	–	–	–	1.0429	–
–	H III/P285NH	–	Sm 38	–	P 285 NH	–	–	–	–	–	1.0435	–
–	P310 NB	224-430	SG 325	K02100	P305GH	P 275 N	P 275 N	2103	–	–	1.0436	–
–	A St 41	P 275 N	STK 400	K02100	S 275 N	BS 3	P 275 N	2103	–	–	1.0437	–
–	B 500 A	–	SD 490	–	B 500 A	–	B 500 A	–	–	–	1.0438	–
–	GS-45	–	SC 450	–	–	–	–	–	–	–	1.0443	–
–	H IV/P295NH	–	SG 37	K03102	–	–	Fe 460-2 KW	–	–	–	1.0445	–

(continua)

P4

Elenco dei materiali • Acciaio • P4 *(continua)*

P4 Acciai legati e acciai per utensili Contenuto: C>.25% Resistenza alla trazione RM (MPa): 850–1400 Durezza (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	StE 240.7	–	–	–	L 245 NB	L 245 NB	–	–	–	–	1.0457	–
–	HIII/L 235 GA	–	–	–	L 235 GA	–	–	–	–	–	1.0458	–
–	L 245 GA/RRStE 240.7	–	–	–	L 245 GA	TS E 250	–	–	–	–	1.0459	–
–	St E255	–	–	K01800	–	–	–	–	–	–	1.0461	–
–	TStE 255	–	–	K11535	–	–	–	–	–	–	1.0463	–
–	15 Mn 3 Al	–	–	–	C 14 GAl	–	–	–	–	–	1.0468	–
–	21 Mn 4	–	–	–	–	–	20 Mn 4	–	–	–	1.0469	–
–	19 Mn 6/P 355 GH	P 355 GH	SGV 46	K03300	P355GH	A 52 CP	Fe E355-2	2101	–	–	1.0473	–
–	17 Mn 4/P 295 GH	224-460B	SG 37	K03501	P 295 GH	A 48 CP	Fe E 295	2102	–	–	1.0481	–
–	19 Mn 5	224-460	SG 37	K 03102	–	A 52 CP; AP; FP	Fe 460- 2 KW	–	–	–	1.0482	–
–	L 290 AG	–	–	–	L290GA	TS E 290	–	–	–	–	1.0483	–
–	L 290 NB	–	–	–	L290NB	L 290 NB	–	–	–	–	1.0484	–
–	21 Mn 6	–	–	K12320	–	–	–	–	–	–	1.0485	–
–	St E 285	P 275 N	SM 41 A	K 01802	P 275 N	P 275 N	Fe E 285 KG	–	–	–	1.0486	–
–	W St E 285	P 275 N	–	K 01802	P 275 NH	P 275 N	Fe E 285 KW	–	–	–	1.0487	–
–	T St E 285	P 275 NL 1	SLA 235 A	K 01803	P 275 NL 1	P 275 NL 1	Fe E 285 KT	–	–	–	1.0488	–
–	H 300/ZSt E 300	H280LA	–	–	H 280 LA	E 280 C	–	–	–	–	1.0489	–
–	S 275 NH	S 275 NH	–	–	S 275 NH	–	S 275 NH	–	–	–	1.0493	–
–	S 275 NLH	S275NLH	–	–	S 275 NLH	–	S275NLH	–	–	–	1.0497	–
–	L 360 GA	–	–	–	L 360 GA	–	–	–	–	–	1.0499	–
–	C 35 Pb/C 35 GPb	–	–	–	C 35 Pb	–	–	–	–	–	1.0502	–
–	St E 315/P 315N	–	SM 50 A	K11506	P 315 N	–	Fe E 315 KG	–	–	–	1.0505	–
–	W St E 315	–	SNC 1	K02404	P 315 NH	–	Fe E 315 KW	2107	–	–	1.0506	–
–	St 55	–	STKM 16A	–	–	–	Fe 540	–	–	–	1.0507	–
–	T St E315	–	SLA 325 A	K02404	P 315 NL	–	–	2106	–	–	1.0508	–
–	C 40 Pb	–	–	–	C 40 G Pb	–	–	–	–	–	1.0512	–
–	C38D	–	SWRH 37	–	C 38 D	FM 38	C 38 D	–	–	–	1.0516	–
–	C48D	–	SWRH 48	–	C 48 D	FM 48	C 48 D	–	–	–	1.0517	–
–	C56D	–	–	–	C 56 D	FM 56	C 56 D	–	–	–	1.0518	–
–	StSch 700 (R 0 700)	–	–	–	R 0700	–	–	–	–	–	1.0521	–
–	StSch800 (R 0 800)	–	–	–	R 0800	–	–	–	–	–	1.0524	–
–	Cf 45 Pb	–	–	–	–	–	C 46	–	–	–	1.0526	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	GL-A 40 (S 390 G 1 S)	–	–	–	S 390 G 1 S	–	–	–	–	–	1.0532	–
–	S 355 NH	S 355 NH	–	–	S 355 NH	–	S 355 NH	–	–	–	1.0539	–
–	C42D	–	SWRH 42 B	–	C 42 D	FM 42	C 42 D	–	–	–	1.0541	–
–	Schienen 60 F(R 0600/ St Sch 60)	–	–	–	R 0600	–	–	–	–	–	1.0544	–
–	S 355 J0 H	50 C	–	–	S 355 J0 H	–	S 355 J0 H	–	–	–	1.0547	–
–	ZStE 340/H 340	H 320 L A	–	–	H 320 LA	E 315 C	–	–	–	–	1.0548	–
–	S 335 NLH	50 EE	–	–	S 355 N LH	–	S 355 N L H	–	–	–	1.0549	–
–	GS-52	A2	–	–	GE 260	–	–	–	–	–	1.0552	–
–	S 355 J0	En 50 C;S 355 J0	SM 520 M	–	S 355 J0	S 355 J0; E 36-3	S 355 J0; Fe 510 C FN	–	–	–	1.0553	–
–	GS-70	50 C	–	–	S 355 J0 C	E 36-3	Fe 510 C	–	–	–	1.0554	–
–	GS-62	–	–	–	S 355 GO 1	–	–	–	–	–	1.0555	–
–	ZStE 420/H 420	46/40HR,HS,CS	–	–	H 400 LA	H 400 LA	–	–	–	–	1.0556	–
–	P355 NB	–	SG 365	–	P 355 NB	BS 4	–	–	–	–	1.0557	–
–	GS-62.3	–	–	–	S 355 GO 2	–	–	–	–	–	1.0559	–
A 633 Gr. C	St E 355	P 355 N	SM 50 YB	K12000	P 355 N	E 355 R/FP	Fe E 355 KG	2132	–	–	1.0562	–
–	N 80	–	–	–	–	–	–	–	–	–	1.0564	–
–	W St E 355	P 355 NH	–	K01600	P 355 NH	P 355 NH	Fe E 355 KW	–	–	–	1.0565	–
–	T St E355	P 355 NL1	SLA 37	–	P 355 NL1	P 355 NL1	Fe E 355 KT	–	–	–	1.0566	–
–	32 Mn 3	–	–	–	–	–	–	–	–	–	1.0567	–
–	P355 QH1	P 355 QH	–	–	P 355 QH	P 355 QH	–	–	–	–	1.0571	–
–	ZStE 460/H 460	–	–	–	–	–	–	–	–	–	1.0574	–
–	S 355 J 2 G 4	S 355 J 2 G 4	–	–	S 355 J 2 G 4	S 355 J 2 G 4	S 355 J 2 G 4	–	–	–	1.0577	–
–	L 360 MB	–	–	–	L 360 MB	L 360 MB	–	–	–	–	1.0578	–
–	St 52.4	–	STS 49	–	–	–	–	–	–	–	1.0581	–
–	L 360 NB/StE 360.7	–	–	–	L360NB	L 360 NB	–	–	–	–	1.0582	–
–	S 355 J 2 G 3 Cu/St 52-3 Cu3	–	–	–	S 355 J2 G3 Cu + CR	–	–	–	–	–	1.0585	–
–	C50D	–	–	–	C 50 D	FM 50	C 50 D	–	–	–	1.0586	–
–	QSt 52-3 Cu 3	–	–	–	S 355 J2 G3 Cu C	–	–	–	–	–	1.0587	–
–	D 53-2	–	SWRH 52 B	–	C 52 D	FM 52	C 52 D	–	–	–	1.0588	–
–	FStE 355 OS 3/S355G03	–	–	K12000	S 355 G03	–	–	–	–	–	1.0591	–
–	S 355 J 2 G 4 Cu	–	–	–	S 355 J2 G4 Cu	–	–	–	–	–	1.0592	–
–	S355k2G3/Fe 510 DD1 (MULTIST)	S 355 K 2 G 3	SM 520 C	K02505	S 355 K 2 G 3	E36-4	S 355 K 2 G 3	–	–	–	1.0595	–
–	S355K2G4/Fe 510 DD 2 (MULTIST)	S 355 K 2 G 4	–	–	S 355 K 2 G 4	S 355 K 2 G 4	S 355 K 2 G 4	–	–	–	1.0596	–
–	C 30 Pb	–	–	–	C 3 0 GPb	–	–	–	–	–	1.0598	–
–	C 60 Pb	–	–	–	C 60 GPb	–	–	–	–	–	1.0602	–
–	C 67 GPb/C 67 Pb	–	–	–	C 67 GPb	–	–	–	–	–	1.0606	–
–	C 75 GPb/C 75 Pb	–	–	–	C 75 GPb	–	–	–	–	–	1.0607	–

NOTA: Per la legenda, vedere a pagina Y217.

(continua)

P4 Elenco dei materiali • Acciaio • P4 *(continua)*

P4 Acciai legati e acciai per utensili Contenuto: C>.25% Resistenza alla trazione RM (MPa): 850–1400 Durezza (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	C62D	–	SWRH 62 B	–	C 62 D	FM 62	C 62 D	–	–	–	1.0611	–
–	C66D	–	–	–	C 66 D	FM 66	C 66 D	–	–	–	1.0612	–
–	C68D	–	SWRH 67 B	–	C 68 D	FM 68	C 68 D	–	–	–	1.0613	–
–	C70D	–	–	–	C 70 D	FM 70	C 70 D	–	–	–	1.0615	–
–	C72D	–	SWRH 72 B	–	C 72 D	FM 72	C 72 D	–	–	–	1.0617	–
–	GS-C 25	–	SCPH 1	–	GP 240 GH	GP 240 GH	GP 240 Gh	–	–	–	1.0619	–
–	GP 240 GR	–	–	–	GP 240 GR	GP 240 GR	GP 240 GR	–	–	–	1.0621	–
–	C80D	–	–	–	C 80 D	FM 80	C 80 D	–	–	–	1.0622	–
–	StSch 900 A (R 0900)	–	–	–	R 0900	–	–	–	–	–	1.0623	–
–	StSch 900 B (R 0900 Mn)	–	–	–	R 0900 Mn	–	–	–	–	–	1.0624	–
1345	StSch 90 C/GP 280 GH	–	–	G13450	GP 280 GH	GP 280 GH	GP 280 GH	–	–	–	1.0625	–
–	C82D	–	SWRH 82 B	–	C 82 D	FM 82	C 82 D	–	–	–	1.0626	–
–	C88D	–	–	–	C 88 D	–	C 88 D	–	–	–	1.0628	–
–	StSch 1200 (R 1200)	–	–	–	R 1200	–	–	–	–	–	1.0631	–
–	C 61/60 Mn 3	–	–	–	C 61	–	C 61	–	–	–	1.0642	–
–	C 85/85 Mn 3	–	–	–	C 85	–	C 85	–	–	–	1.0647	–
–	35 SPb 20	35 SPb 20	–	–	35 SPb 20	35 SPb 20	–	–	–	–	1.0756	–
–	45 SPb 20	–	–	–	46 SPb 20	–	–	–	–	–	1.0757	–
–	38 SMnPb 28	38 SMnPb 28	–	–	38 SMnPb 28	38 SMnPb 28	–	–	–	–	1.0761	–
–	44 SMn 28	44 SMn 28	–	–	44 SMn 28	44 SMn 28	–	–	–	–	1.0762	–
–	44 SMnPb 28	44 SMnPb 28	–	–	44 SMnPb 28	44 SMnPb 28	–	–	–	–	1.0763	–
–	36 SMnPb 14	36 SMnPb 14	–	–	36 SMnPb 14	36 SMnPb 14	–	–	–	–	1.0765	–
9255	51 Si 7	250 A 53	–	G92550	–	51 S 7	48 Si 7	2090	–	–	1.0903	–
9255	55 Si 7	250 A 53	SKH 1; SKT 4	G92550	55 NiCrMoV 7	55 S 7	55 Si 8	2085	–	–	1.0904	–
–	StSch 1100 (R 1100 Cr)	–	–	–	R 1100 Cr	–	–	–	–	–	1.0915	–
9262	60 SiCr 7	250 A 61	SUP 7	G92620	60 SiCr 8	60 SC 7	60 SiCr 8	–	–	–	1.0961	–
–	QSt E 690 TM (S 700 MC)	–	–	–	S 700 MC	S 690 MC	S 700 MC	–	–	–	1.0966	–
–	QSt E 260 N 7 S 260 NC	–	AE 275 NC	–	S 260 NC	–	S 260 NCX	–	–	–	1.0971	–
–	QSt E 300 TM/S 315 MC	43 F35 HR,HS,CS	–	–	S 315 MC	E 315 D	S 315 MC	–	–	–	1.0972	–
–	QSt E 300 N 7/S 315 NC	–	AE 340 NC	–	S 315 NC	–	S 315 NC	–	–	–	1.0973	–
–	QSt E340 TM	HR 40/30	–	–	S 340 MC	E 335 D	–	–	–	–	1.0974	–
–	QSt E340 N	–	–	–	S 340 NC	–	Fe E 355 TD	–	–	–	1.0975	–
–	QSt E 360TM	–	–	–	S 355 MC	E 355 D	Fe E 355 TM	–	–	–	1.0976	–
–	QSt E360 N	–	–	–	S 355 NC	–	Fe E 355 TD	–	–	–	1.0977	–
–	QSt E380 TM	–	–	–	S 380 MC	E 390 D	–	–	–	–	1.0978	–
–	QSt E380 N	–	–	–	S 380 NC	–	Fe E 380 TD	–	–	–	1.0979	–
–	QSt E420 TM	HR 50 F 45	–	–	S 420 MC	E 430 D	Fe E 420 TM	–	–	–	1.0980	–
–	QSt E 420 N	–	–	–	S 420 NC	–	Fe E 420 TD	–	–	–	1.0981	–
–	QSt E 460 TM	50/45 HR	–	–	S 460 MC	E 445 D	–	–	–	–	1.0982	–
–	QSt E 460 N	–	–	–	S 460 NC	–	Fe E 460 TD	–	–	–	1.0983	–
–	QSt E500 TM	–	–	–	S 500 MC	E 490 D	Fe E 490 TM	2662	–	–	1.0984	–
–	QSt E500 N	–	–	–	S 500 NC	–	–	–	–	–	1.0985	–
–	QSt E550 TM	60/55 HS	–	–	S 550 MC	E 560 D	Fe E 560 TM	–	–	–	1.0986	–
–	QSt E550 N	–	–	–	S 550 NC	–	–	–	–	–	1.0987	–
–	FStE 355 OS 3/S355G04	–	–	–	S 355 G04	–	–	–	–	–	1.1102	–
–	EStE 285	P 275 NL 2	STK 400	–	P 275 NL 2	P 275 NL 2	P 275 NL 2	–	–	–	1.1104	–
–	EStE 315	–	–	–	S 315 NL 1	–	–	–	–	–	1.1105	–
–	EStE 355	P 355 NL 2	STK 500	–	P 355 NL 2	P 355 NL 2	P 355 NL 2	–	–	–	1.1106	–
–	C5D2	–	–	–	C 5 D 2	FM 6	C 5 D 2	–	–	–	1.1111	–
–	USD 5/C 8 E1 W	–	–	–	C 8 E 1 W	–	–	–	–	–	1.1112	–
–	C8D2	–	–	–	C 8 D 2	FM 8	C 8 D 2	–	–	–	1.1113	–
–	C 10 E W/RSD 11	–	–	–	C 10 EW	–	–	–	–	–	1.1115	–
–	USD 6/C 8 E2 W	–	–	–	C 8 E 2 W	–	–	–	–	–	1.1116	–
–	G 24 Mn 4/GS 24 Mn 4	–	–	–	G 24 Mn 4	–	–	–	–	–	1.1136	–
–	C32D2	–	–	–	C 32 D 2	FM 32	C 32 D 2	–	–	–	1.1143	–
–	C36D2	–	–	–	C 36 D 2	FM 36	C 36 D 2	–	–	–	1.1145	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 25 R	C 25 R	–	–	C 25 R	C 25 R	C 25 R	–	–	–	1.1163	–
–	C48D2	–	–	–	C 48 D 2	FM 48	C48 D 2	–	–	–	1.1164	–
1330	GS-30 Mn 5	120 M 36	SMn 433 H; SCMn 2	K13300	–	35 M 5	–	1330	–	–	1.1165	–
1335	36 Mn 5	150 M 36	SMn 438(H)	G13350	–	40 M 5	–	2120	–	–	1.1167	–
–	G 40 Mn 5/GS 40 Mn 5	–	–	–	G 40 Mn 5	–	–	–	–	–	1.1168	–
–	20 Mn 6	150 M 19	–	–	–	20 M 5	20 Mn 6	–	–	–	1.1169	–
–	C50D2	–	–	–	C 50 D 2	FM 50	C50D 2	–	–	–	1.1171	–
–	Ck 38 Pb	–	–	–	25 Mn 4	–	–	–	–	–	1.1177	–
–	C 30 R	C 30 R	C 30 R (3 C 30)	–	C 30 R	C 30 R	C 30 R	–	–	–	1.1179	–
–	Ck 35 Pb	–	–	–	S 355 G 13	–	–	–	–	–	1.1182	–
–	Ck 36	–	–	–	S 355 G 14	–	–	–	–	–	1.1184	–
–	C3D1	–	–	–	C 3 D 1	–	C 3 D 1	–	–	–	1.1187	–
–	C40R/Cm 40	C 40 R	–	–	C 40 R	C 40 R	C 40	–	–	–	1.1189	–
–	C52D2	–	–	–	C 52 D 2	FM 52	C 52 D 2	–	–	–	1.1202	–
–	C 53 R/Cm 53	–	–	–	C 53 R	–	–	–	–	–	1.1205	–
–	C 10 R	C 10 R	–	–	C 10 R	C 10 R	–	–	–	–	1.1207	–
–	C 16 R	C 16 R	–	–	C 16 R	C 16 R	–	–	–	–	1.1208	–
–	C58D2	–	–	–	C 58 D 2	FM 58	C 58 D 2	–	–	–	1.1212	–
–	Ck 53 Pb	–	–	–	C 90 S	–	–	–	–	–	1.1217	–
–	C62D2	–	–	–	C 62 D 2	FM 62	C 62 D 2	–	–	–	1.1222	–
–	Cm 60	C 60 R	–	–	3 C 60	C 60 R	C 60 R	–	–	–	1.1223	–
–	C60D2	–	–	–	C 60 D 2	FM 60	C 60 D 2	–	–	–	1.1228	–
–	C68D2	–	–	–	C 68 D 2	FM 68	C 68 D 2	–	–	–	1.1232	–
–	C66D2	–	–	–	C 66 D 2	FM 66	C 66 D 2	–	–	–	1.1236	–
–	C50R	C 50 R	–	–	C 50 R	FM 50	C 50 R	–	–	–	1.1241	–
–	C72D2	–	–	–	C 72 D 2	FM 72	C 72 D 2	–	–	–	1.1242	–
–	C70D2	–	–	–	C 70 D 2	FM 70	C 70 D 2	–	–	–	1.1251	–
–	C78D2	–	–	–	C 78 D 2	FM 78	C 78 D 2	–	–	–	1.1252	–
–	C76D2	–	–	–	C 76 D 2	FM 76	C 76 D 2	–	–	–	1.1253	–
–	C80D2	–	–	–	C 80 D 2	FM 80	C 80 D 2	–	–	–	1.1255	–
–	C82D2	–	–	–	C 82 D 2	FM 82	C 82 D 2	–	–	–	1.1262	–
–	C86D2	–	–	–	C 86 D 2	FM 86	C 86 D 2	–	–	–	1.1265	–
–	C88D2	–	–	–	C 88 D 2	–	C 88 D 2	–	–	–	1.1272	–
–	C92D2	–	–	–	C 92 D 2	–	C 92 D 2	–	–	–	1.1282	–
–	C98D2	–	–	–	C 98 D 2	–	C 98 D 2	–	–	–	1.1283	–
–	46 MnVS 6	–	–	–	46 MnVS 6	–	–	–	–	–	1.1304	–
–	C 90 U	–	–	–	C90U	–	–	–	–	–	1.1535	–
–	C 110 W	–	–	–	C 110 U	–	–	–	–	–	1.1554	–
–	C 120 U	–	–	–	C120U	–	–	–	–	–	1.1555	–
T 8	C 80 W2	BW 1B	SKC 3	T12008	–	Y1 80	C 80 KU	–	–	–	1.1625	–
–	C 105 W2	–	SK 3	–	–	–	–	–	–	–	1.1645	–
–	C 135 W	–	SK 1	–	–	Y2 140	C 140 KU	–	–	–	1.1673	–
A-6	C 67 W	–	–	T30106	–	Y1 70	–	–	–	–	1.1744	–

(continua)

P4

Elenco dei materiali • Acciaio • P4 *(continua)*

P4 Acciai legati e acciai per utensili *Contenuto: C>.25%* *Resistenza alla trazione RM (MPa)*: 850–1400* *Durezza (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	125 Cr 1	–	–	–	125 Cr 2	Y2 120 C	–	–	–	–	1.2002	–
–	85 Cr 1	–	–	–	–	Y1 100 C 2	–	–	–	–	1.2004	–
–	140 Cr 3	–	SKS 8	–	140 Cr 2	Y2 140 C	–	–	–	–	1.2008	–
–	105 Cr 4	–	SKC 11	–	–	–	–	–	–	–	1.2057	–
–	21 MnCr 5	–	SCR 420 H	–	21 MnCr 5	20 NC 5	–	–	–	–	1.2162	–
–	35 CrMo 7	–	–	–	35 CrMo 7	–	–	–	–	–	1.2302	–
–	48 CrMoV 67	–	–	–	–	45 CDV 6	–	–	–	–	1.2323	–
P6	15 NiCr 14	–	SNC 22	T51606	–	10 NC 12	–	–	–	–	1.2735	–
–	40 CrMnNiMo 8 6 4	–	–	–	40 CrMnNiMo 8-6-4	–	–	–	–	–	1.2738	–
–	57 NiCrMoV 7 7	–	–	–	55 NiCrMoV 7	–	–	–	–	–	1.2744	–
–	70 MnMoCr 8	–	–	–	70 MnMoCr 8	–	–	–	–	–	1.2824	–
–	95 MnWCr 5	–	–	–	95 MnWCr 5	–	–	–	–	–	1.2825	–
–	60 MnSi 4	–	–	–	–	60 MSC 4	–	–	–	–	1.2826	–
–	101 Cr 6	–	–	–	–	–	102 Cr 6 KU	–	–	–	1.3514	–
–	16 CrNiMo 6	820A16	–	–	–	16 NCD 6	16NiCrMo6	–	–	–	1.3531	–
–	100 CrMn 7 3	–	–	–	100 CrMnMo 7	100 CD 7	–	–	–	–	1.3536	–
–	100 CrMo 7	–	SUS 4	K19965	100 CrMo 7	100 CD 7	100CrMo7	–	–	–	1.3537	–
–	100 CrMnMo 8	–	–	–	–	100 CrMnMo 8	–	–	–	–	1.3539	–
5046	44 Cr 2	–	–	H50460	46 Cr 1 KD	44 Cr 2	–	–	–	–	1.3561	–
4142	43 CrMo 4	–	–	G41420	–	43 Cr Mo 4	–	–	–	–	1.3563	–
4147	48 CrMo 4	817 M 40	SNC 836	H41470	–	48 CrMo 4	–	–	–	–	1.3565	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
9259H	51 Si 7	–	–	–	50 Si 7	–	48 Si 7	2090	–	–	1.5025	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
9260	60 Si 7	251 A 60	–	G92600	60 Si 7	60 S 7	60 Si 7	–	–	–	1.5027	–
–	65 Si 7	–	SUP 7	–	–	–	–	–	–	–	1.5028	–
–	12 Mn 8	–	–	–	11 Mn 8 KE	–	–	–	–	–	1.5086	–
9262	60 SC 7	–	–	G92620	60 SiCr 8	61 SC 7	60 SiCr 8	–	–	–	1.5092	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	50 MnSi 4	–	–	K04800	–	–	–	–	–	–	1.5131	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
A 204 Gr. A	15 Mo 3	1501-240	STFA 12	K11820	16 Mo 3	15 D3	16 Mo 3 KW	2912	–	–	1.5415	–
4419	GS-22 Mo 4	243-430	SCPH 11	G44190	G 20 Mo 5	G20Mo5	G 22 Mo 5	–	–	–	1.5419	–
–	20 MnMo 3 5	–	–	K12121	–	–	–	–	–	–	1.5421	–
–	G 18 Mo 5	–	–	–	G18Mo5	–	G 18 Mo5	–	–	–	1.5422	–
4520	16 Mo 5	1503-245-420	SBC 690	K11522	–	–	16 Mo 5	–	–	–	1.5423	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	13 MnMo 8 5	–	–	K11423	11 MnMo 85 KE	–	–	–	–	–	1.5427	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
15B21 H	19 MnB 4	170 H 20	SWRCHB 420	H15211	19 MnB 4	20 MB 5	–	–	–	–	1.5523	–
15B21 H	20 MnB 5	–	SWRCHB 620	–	20 MnB 5	20 MnB 5	20 MnB 5	–	–	–	1.5530	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
A 350-LF 5	10 Ni 14	503	SL 3 N 26	K31718	12 Ni 14	12Ni14	18 Ni 14 KT	–	–	–	1.5637	–
P3	10 NC 6	–	–	T51603	15 NiCr 6	10 NC 6	–	–	–	–	1.5713	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	10 NiMnMo 6 5	–	–	K11160	–	–	–	–	–	–	1.6312	–
–	16 NiCrMO 12 6	–	–	–	–	16 NCD 13	–	–	–	–	1.6782	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
50B40	37 CrB 1	120 M 36	SMnC 3 H	H50401	38 Cr 2	–	35 CB 1	–	–	–	1.7007	–
–	13 Cr 2	–	–	–	–	–	–	–	–	–	1.7012	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
5015	15 Cr 3	523 M15	SCr 415 H	G50150	15 Cr 2	12 C 3	–	–	–	–	1.7015	–
5117	17 Cr 3	17 Cr 3	–	G51170	(15 Cr 2 KD)	18 C 3	–	–	–	–	1.7016	–
5130 H	34 Cr 4	530 A 32	SCr 430 H	G51300	34 Cr 4 KD	32 C 4	34 Cr 4 KB	–	–	–	1.7033	–
5132 H	37 Cr 4	530 A 36	SCr 435 H	G51320	37 Cr 4	38 C 4	36 CrMn 4	–	–	–	1.7034	–
5140	41 Cr 4	530 M 40	SCr 440 H	G51400	41 Cr 4	42 C 4	41 Cr 4	–	–	–	1.7035	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
5140	42 Cr 4	530 A 40	SCr 440	–	40 NiCrMo 3	42 C 4 TS	40 NiCrMo 3	2245	–	–	1.7045	–
–	54 SiCr 6	–	–	–	–	54 SC 6	–	–	–	–	1.7102	–
–	67 SiCr 5	–	–	–	67 SiCr 5	–	67 SiCr 5	–	–	–	1.7103	–
9262	60 SiCr 7	–	–	–	60 SiCr 8	–	–	–	–	–	1.7108	–
–	52 SiCrNi 5	–	–	–	–	52 SCN 5	–	–	–	–	1.7117	–
5115	16 MnCr 5	527 M 17	SCR 415	G 51150	16 MnCr 5 KD	16 MC 5	16 MnCr 5	2173	–	–	1.7131	–
–	49 CrMo 4	–	SCM 445	–	–	–	–	–	–	–	1.7238	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	10 CrMo 11	–	–	–	–	12 CD 10	–	–	–	–	1.7276	–
–	16 CrMo 9 3	–	–	–	–	20 CD 8	–	–	–	–	1.7281	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
A 387 Gr. 12 Cl. 2	16 CrMo 4 4	–	–	K11564	–	–	A 18 CrMo 4 5 KW	–	–	–	1.7337	–
–	12 CrMo 8 5	–	–	K21509	–	–	–	–	–	–	1.7358	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5,05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	12 CrMo 9 10	–	–	–	–	12 CrMo 9-10	–	–	–	–	1.7375	–
–	SG-CrMo 9	–	–	S50480	–	–	–	–	–	–	1.7388	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
6150	50 CrV 4	735 A 50	SUP 10	G61500	51 CrV 4	50 CV 4	50 CrV 4	2230	–	–	1.8159	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 355 G1 M	–	–	–	S 355 G 1 M	–	–	–	–	–	1.8822	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–

NOTA: Per la legenda, vedere a pagina Y217.

(continua)

P4 Elenco dei materiali • Acciaio • P4 *(continua)*

P4 Acciai legati e acciai per utensili Contenuto: C>.25% Resistenza alla trazione RM (MPa): 850–1400 Durezza (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	S 460 MLH	–	–	–	S 460 MLH	–	S 460 MLH	–	–	–	1.8850	–
–	FStE 355 OS 4/ S420G5Q	–	–	–	S 420 G 2	–	–	–	–	–	1.8853	–
–	P 550 QL	–	–	–	P 550 QL	–	–	–	–	–	1.8878	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
A 633 Gr. E	St E 420	S 420 N	SM 50 C	K02002	FeE 420 KGN	E 420-I	Fe E 420 KG	2143	–	–	1.8902	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
A 633 Gr. E	St E 460	P 460 N	SM 53 B	K02900	P 460 N	E 460-I	Fe E 460 KG	2143	–	–	1.8905	–
–	BGH 8906	55 F	–	–	S 460 QL	S 460 QL	S 460 QL	–	–	–	1.8906	–
–	St E 500	–	SM 58	K02001	–	–	–	–	–	–	1.8907	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	EStE 420/ S420NL1	–	STK 540	–	–	–	–	–	–	–	1.8913	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/ P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/ P460Nl2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/ S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VB/ S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/ TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	TStE 690 VD/ S690G3QL	–	–	–	S 690 G 3 QL	–	–	–	–	–	1.8929	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–
–	WSt E 420/ P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/ P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	P420 QH	–	–	–	P 420 QH	–	–	–	–	–	1.8936	–
–	TStE 770 V/ S770QL	–	–	–	S 770 QL	–	–	–	–	–	1.8938	–
–	EStE 790 V/ S790QL1	–	–	–	S 790 QL 1	–	–	–	–	–	1.8939	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 550 G 1 QL 1/ EStE 550 VA	–	–	–	S 550 G 1 QL 1	–	–	–	–	–	1.8944	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	EStE620VA/S 620 G 1 QL 1	–	–	–	S 620 G 1 QL 1	–	–	–	–	–	1.8954	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	EStE 690 VA	–	–	–	S 690 G1 QL1	–	–	–	–	–	1.8964	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–

(continua)

P4 Elenco dei materiali • Acciaio • P4 *(continua)*

P4 Acciai legati e acciai per utensili Contenuto: C>.25% Resistenza alla trazione RM (MPa): 850–1400 Durezza (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
A 570 Gr. 50	St 50-2	4360-50 B	SS 50	–	E 295	A 50-2	Fe 490	2172	–	–	1.0050	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	GL-E - 40 (S 390 G 3 S)	–	–	–	S 390 G 3 S	–	–	–	–	–	1.0560	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	C 64/64 Mn 3	–	–	–	C 64	–	–	–	–	–	1.0640	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
1330	28 Mn 6	150 M 28	SCMn 1	G 13300	28 Mn 6	35 M 5	C 28 Mn	–	–	–	1.1170	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 70 W2	–	–	–	C 70 U	–	–	–	–	–	1.1620	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
5130	28 Cr 4	530 A 30	–	G51300	28 Cr 4	30 CD 4	–	–	–	–	1.7030	–
–	S 420 G1 M	–	–	–	P 550 M	–	–	–	–	–	1.8830	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/ S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	TStE 690 VA/ S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	WSt E 380/ P380Nh	–	–	–	P 380 NH	–	Fe E 390 KW	2116	–	–	1.8930	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–

P5 Elenco dei materiali • Acciaio • P5

P5 Acciai inossidabili ferritici, martensitici e ad indurimento per precipitazione (PH) Resistenza alla trazione RM (MPa): 600–900 Durezza (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
410 S	X 7 Cr 14	–	–	–	–	–	–	–	–	–	1.4001	–
405	X 6 CrAl 13	405 S 17	SUS 405	S40500	X 6 CrAl 13	Z 6 CA 13	X 6 CrAl 13	2302	–	–	1.4002	–
–	X 2 CrNi 1 2	–	–	–	Hyfab3/12	CLC4003	F12N(Mn<1,50)	–	–	–	1.4003	–
416	X 12CrS 13	416 S 21	SUS416	S41600	X 12 CrS 13	Z 12 CF 13	X12CrS13	2380	–	–	1.4005	ATI 416™
410	X 12Cr 13	410 S 21	SUS410	S 41000	(X 12 Cr 13 KD)	Z 12 C 13	X12Cr13	2302	–	–	1.4006	ATI 410™
414	GX 8 CrNi 1 3	410 C 21	SCS 1	S41400	GX 7 CrNiMo 12-1	Z 12 CN 13 M	GX 12 Cr 13	–	–	–	1.4008	–
–	X 8 Cr 14	–	SUS Y 410	S41080	X 8 Cr 13 KE	–	–	–	–	–	1.4009	B13Fe
–	GX 12 Cr 1 2	–	–	–	GX12Cr12	GX12Cr12	–	–	–	–	1.4011	–
–	N 3 2 0 (LW)	–	–	–	3S62	–	–	–	–	–	1.4014	–
–	X 8 Cr 18	–	SUS Y 430	S43080	–	–	–	–	–	–	1.4015	B17Fe
430	X 8 Cr 17	430 S 15	SUS430	S 43000	X 8 Cr 17	Z8C17	X8Cr17	2320	–	–	1.4016	ATI 430™
–	X 6 CrNi 17 1	–	–	–	X6CrNi17-1	F17N	X6CrNi17-1	–	–	–	1.4017	–
420	X20Cr13	420 S 37	SUS 420J1	S42000	X 20 Cr 13	Z20C13	X20Cr13	2303	–	–	1.4021	ATI 420™
403	X 15 Cr 13	420 S 29	SUS 410 J1	J91201	X 15 Cr 13	Z 12 C 13 M	X 12 Cr 13	2301	–	A403M	1.4024	ATI 403™
–	GX 20 Cr 1 4	420 C 29	SCS 2	–	–	Z 20 C 13 M	–	–	–	A743-4	1.4027	–
420	X 40 Cr 13	–	SUS 420 J2	S42080	X 40 Cr 13	Z 40 C 14	X 40 Cr 14	2304	–	–	1.4031	–
–	GX 120 Cr 29	425 C 11	–	–	–	–	–	–	–	F30C	1.4086	–
430 F	X 12 CrMoS 17	441 S 29	SUS 430 F	S 43020	X 14 CrMoS 17	Z 10 CF 17	X 10 CrS 17	2383	–	–	1.4104	–
430	X 4 CrMoS 18	–	SUS 430F	–	X 6 CrMoS 17	Z 6 CDF 18 - 02	–	–	–	–	1.4105	–
–	X 2 CrMoSiS 18 2 1	–	–	J91151	–	–	–	–	–	CA15	1.4106	–
–	GX 8 CrNi 1 2	–	–	–	GX 8 CrNi 12	GX8CrNi 12	G X 8 CrNi 12	–	–	–	1.4107	–
434	X 6CrMo 17	434 S 17	SUS434	S43400	434S17	Z8CD17-01	X8CrMo17	2325	–	–	1.4113	AL 434
–	X 15 CrMo 13	–	–	–	–	–	–	–	–	–	1.4119	–
–	GX 70 CrMo 29 2	–	–	–	–	Z 60 CD 29.2 M	–	–	–	–	1.4136	–
–	X 2 CrNi 24 12	309 S 93	–	–	X 2 CrNi 24 13 KE	Z 2 CN 24-14	–	–	–	–	1.4332	CN23/12-IG
–	X 5 NiCr 32 21	–	–	S33200	–	–	–	–	–	B536	1.4333	H521
–	GX 5 CrNiMo 16 5	–	–	–	GX 4 CrNiMo 16-5-1	GX4CrNiMo 16-5-1	G X 4 CrNiMo 16-5-1	–	–	–	1.4405	–
–	ERO 4411 A	–	–	–	GX 4 CrNiMo 16-5-2	GX 4 CrNiMo 16-5-2	–	–	–	–	1.4411	–
–	X 38 CrMo 14	–	–	–	–	–	–	–	–	–	1.4419	–
–	X 8 CrTi 18	–	–	–	X 6 Cr 18 KE	–	–	–	–	–	1.4502	–
430 Nb	X 6 CrNb 17	–	SUS 430 LX	–	X 3 CrNb 17	Z 8 CNb 17	X 6 CrNb 17	–	–	–	1.4511	AXC525
409	X 6 CrTi 12	409 S 19	SUH 409	S40900	X 5 CrTi 12	Z 6 CT 12	X 6 CrTi 12	–	–	–	1.4512	–
–	X 6 CrNiTi 12	–	–	–	X 6 CrNiTi 12	X 6 CrNiTi 12	X 6 CrNiTi 12	–	–	–	1.4516	–
–	X 2 CrTi 17	–	SUS 430 LX	–	X 2 CrTi 17	F 20T	X 2 CrTi 17	–	–	–	1.4520	–
–	X 8 CrMoTi 17	–	–	–	X 2 CrMoTiS 18 2	X2CrMoTiS18-2	–	–	–	–	1.4523	1802
–	GX 5 CrNiCu 16 4	–	–	–	GX 5 CrNiCu 16-4	GX 5 CrNiCu 16-4	–	–	–	–	1.4525	–
–	X 6 CrMoNb 17 1	–	–	–	X 6 CrMoNb 17-1	X6CrMoNb 17-1	F 17 MNb	–	–	–	1.4526	–
904 L	X 1 NiCrMoCuN 25 20 5	904 S 13	–	N08904	X 1 NiCrMoCuN 25 20 5	Z 1 NCDU 25 20	–	2562	–	–	1.4539	ATI 904L™
348	X 5 CrNiNb 18 10	S 527	–	J92640	–	–	X 6 CrNiNb 18 11	–	–	–	1.4546	ATI 348™
–	X 5 CrNiNb 19 9	–	SUS Y 347	S34780	X 5 CrNiNb 20 10 KE	Z 6 CNNb 20-10	–	–	–	–	1.4551	–
–	GX 7 NiCrMoCuNb 42 20	–	–	–	GX 7 NiCrMoCuNb 4220	–	–	–	–	–	1.4559	–
–	X 5 CrNiMoNb 19 12	318 S 96	–	S31980	X 5 CrNiMoNb 19 12 03 KE	Z 4 CNDSNb 19-12-03	–	–	–	–	1.4576	–
–	X 2 CrAlTi 18 2	–	–	–	X 2 CrAlTi 18-2	DMV 59	X 2 CrAlTi 18-2	–	–	–	1.4605	–
–	X 10 CrAl 7	–	–	–	X 10 CrAl 7	–	–	–	–	–	1.4713	–

NOTA: Per la legenda, vedere a pagina Y217.

(continua)

P5 Elenco dei materiali • Acciaio • P5 *(continua)*

P5 Acciai inossidabili ferritici, martensitici e ad indurimento per precipitazione (PH) Resistenza alla trazione RM (MPa): 600–900 Durezza (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	X 215 Cr 12	–	–	–	–	–	–	–	–	–	1.4721	–
H-12	X 10 CrAl 13	BH 12	SUS 405	T20812	X 10 CrAl 13	Z 10 C 13	X 10 CrAl 12	–	–	–	1.4724	–
430	X 10 CrAl 18	(430 S 15)	SUH 21	S43000	–	Z 10 CAS 18	(X 8 Cr 17)	–	–	–	1.4742	–
446	X 10 CrAl 25	–	SUH 442	S44600	X 10 CrAl 24	Z 10 CAS 24	X 16 Cr 26	2322	–	–	1.4762	–
–	GX 40 CrNiSi 27 4	–	–	J92605	–	–	–	–	–	–	1.4823	–
–	X 12 CrNi 22 12	311 S 94	SUS Y 309	S30980	X 15 CrNi 23 13	–	X 16 CrNi 23 14	–	–	309	1.4829	–
–	X 9 CrNiSiNCe 21 11 2	–	–	–	X 9 CrNiSiNCe 21-11-2	–	–	–	–	–	1.4835	–
314	X 15 CrNiSi 25 20	314 S 25	SUH 310	S31400	X 15 CrNiSi 25 20	Z 15 CNS 25.20	X 16 CrNiSi 25 20	–	–	–	1.4841	Cronifer® 2520
–	X 12 CrNi 25 20	310 S 94	–	S31080	X 12 CrNi 26 21 KE	Z 12 CN 26-21	–	–	–	–	1.4842	–
–	CrNi 25 20	–	SCS 18	S31400	–	–	–	–	–	–	1.4843	–
310 S	X 12 CrNi 25 21	310 S 24	SUS 310 S	S31008	X 8 CrNi 25 21	Z 12 CN 25.20	X 6 CrNi 25 20	2361	–	–	1.4845	ATI 310S™
HK	X 40 CrNiSi 25 20	310 C 40	SCH 21	J94204	–	–	GX 40 CrNi 26 20	–	–	–	1.4848	–
–	GX 40 NiCrSiNb 38-18	–	–	–	3072.76	–	–	–	–	–	1.4849	–
–	GX 10 NiCrNb 32 20	–	–	J95151	–	–	–	–	–	–	1.4859	–
330	X 12 NiCrSi 35 16	NA 17	SUH 330	N08330	X 12 NiCrSi 35 1 6	Z 12 NCS 37.18	–	–	–	–	1.4864	–
–	X40NiCrSi38-18	330 C 40	SCH15/SCH16	J94605	330C11/330C40/331C40	–	GX50NiCr39-19	–	–	–	1.4865	–
–	GX 50 CrNi 30-30	–	–	N08801	–	Z5NCT3220	–	–	–	–	1.4868	–
B163	X 10 NiCrAlTi 32 20	NA 15	NCF800(TP)	–	NA15(H)	Z10NC32.21	–	–	B163	–	1.4876	B163
–	X 6 NiCrNbCe 32 27	–	–	–	X 6 NiCrNbCe 32-27	–	–	–	–	–	1.4877	–
–	X 12 NiCrSi 35 19	–	–	N08830	X1 0 NiCrSi 35 19	–	–	–	–	–	1.4886	330
–	X 10 NiCrSiNb 35 22	–	–	–	X10NiCrSiNb35-22	–	–	–	–	–	1.4887	–
–	X 10 CrMoV 9 1	–	–	S59180	X 10 CrMoV 9-1	–	–	–	–	–	1.4903	–
–	X 20 CrMoV 12 1	–	–	–	X 20 CrMoV 11-1	–	X 20 CrMoV 12 01 KW	2317	–	–	1.4922	–
–	GX 22 CrMoV 12 1	–	–	–	G-X 22 CrMoV 12 1	GX23CrMoV12-1	G X 23 CrMoV 12-1	–	–	–	1.4931	–
422	X 20 CrMoWV 12 1	–	SUH 616	S42200	–	–	X 22 CrMoWV 12 1	–	–	–	1.4935	–
661	X 12 CrCoNi 21 20	–	SUH 661	R30155	–	–	–	–	–	–	1.4971	–
R30155	X 12 CrCoNiMoWNb 21 20 20	–	–	R30155	X 12 CrCoNiMoWNb 21 20 20	Z 12 CKNDWNb 21.20.20	N-155	–	–	–	1.4974	–
–	X 40 CoCrNi 20 20	–	–	–	–	Z 42 CNKDWNb	–	–	–	–	1.4977	–
403	X 6 Cr 13	403 S 17	SUS 403	S 40300	X 6 Cr 13	Z 6 C 13	X 6 Cr 13	2301	–	A240	1.4000	ATI 410S™
439	X 6 CrTi 17	–	SUS 430 LX	S 43035	X 8 CrTi 1 7	Z 8 CT 1 7	X 6 CrTi 17	–	–	–	1.4510	430 Ti
–	X 22 CrMoV 1 -1 = ST12T	–	–	–	–	–	–	–	–	A437-76 qualità B4B	–	ATI FV448™
409 Cb	–	–	–	–	–	–	–	–	–	–	–	ATI 409Cb™
436 S	–	–	–	–	–	–	–	–	–	–	–	ATI 436S™
439 HP	–	–	–	S43035	–	–	–	–	–	–	–	ATI 439 HP™
441 HP	–	–	–	–	–	–	–	–	–	–	–	ATI 441 HP™
–	–	–	–	S44735	–	–	–	–	–	A240	–	AL 29-4C®
–	–	–	–	–	–	–	–	–	–	B625	–	ATI E-BRITE®
403Cb	–	–	–	–	–	–	–	–	–	–	–	T656
420 modificato	–	–	–	–	–	–	–	–	–	–	–	Stavax ESR
–	–	–	–	–	–	–	–	–	–	–	–	420HC
–	–	–	–	–	–	–	–	–	–	–	–	CPM 154
–	–	–	–	–	–	–	–	–	–	–	–	CPM® S30V®
–	–	–	–	–	–	–	–	–	–	–	–	CPM® S35VN®
420 V	–	–	–	–	–	–	–	–	–	–	–	CPM® S90V®
–	–	–	–	–	–	–	–	–	–	–	–	M390
422	–	–	–	S42200	–	–	–	–	–	–	–	616

P6

Elenco dei materiali • Acciaio • P6

P6 Acciai inossidabili ferritici, martensitici e ad indurimento per precipitazione ad alta resistenza
Resistenza alla trazione RM (MPa): 900–1350* *Durezza (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	17-7 PH	301 S 81	SUS 631	S17700	X 7 CrNiAl 17-7	X7CrNiAl17-7;Z9CNA17-07	X 7 CrNiAl 17-7	2388	–	A693	1.4564	ATI 17-7™
–	GX 22 CrNi 17	ANC 2	–	J91803	–	Z 20 CN 17.2 M	–	–	–	CB30	1.4059	–
–	GX 30 CrSi 6	–	–	–	–	–	–	–	–	–	1.4710	–
–	GX 4 CrNi 13 4	–	–	–	GX 4 CrNi 13-4	GX 4 CrNi 13-4	GX 4 CrNi 13-4	–	–	–	1.4317	–
–	GX 40 CrSi 17	–	–	–	–	–	GX 35 Cr 17	–	–	–	1.4740	–
–	GX 40 CrSi 24	–	SCH 1	–	–	–	GX 35 Cr 13	–	–	–	1.4745	–
–	GX 40 CrSi 28	452 C 11	SCH 2	J92605	–	–	GX 35 Cr 28	–	–	CC50	1.4776	–
–	X 105 CrCoMo 18 2	–	–	–	–	–	–	–	–	–	1.4528	N690
440 C	X 105CrMo 17	–	SUS 440C	S44004	X 105 CrMo 17	Z 100 CD 17	X 105 CrMo 17	–	–	–	1.4125	ATI 440C™
–	X 110 CrMoV 15	–	SUS 430 LX	–	–	Z 4 CN b 17	X 6 CrNb 17	–	–	–	1.4111	–
5718.9	X 12 CrNiMo 12	S.151	–	S64152	–	Z12CNDV12	–	–	–	–	1.4939	ATI Jethete™ M152
–	X 12 CrNiMoV 12 3	–	–	–	X 12 CrNiMoV 12-3	X 12 CrNiMoV 12-3	–	–	–	–	1.4938	T522
–	X 15 TN	–	–	–	420S25	Z40CDV16-02	X40CrMoVN16-2	–	–	F899	1.4123	X 15 TN
15-5 PH	X 15 U 5 W	–	–	S15500	–	Z6CNU15.05	–	–	–	A564/ A693/A705	1.4545	ATI 15-5™
–	X 19 CrMoNbVN 11 1	–	–	–	–	Z 21 CDNbV 11	–	–	–	–	1.4913	Jethete X19
431	X 19 CrNi 17 2	431 S 29	SUS 431	S 43100	X 19 CrNi 17 2	Z 15 CN 16.02	X 16 CrNi 16	2321	–	–	1.4057	431 (HT)
–	X 20 CrMo 17 1	–	–	–	–	–	–	–	–	–	1.4115	B17MoFe
420F Mod	X 22 CrMoNiS 13 1	–	–	–	–	–	–	–	–	–	1.4121	Bioline 4C27A
–	X 22 CrMoV 12 1	762	–	–	X 22 CrMoV 12-1	Z 21 CDV 12	X 22 CrMoV 12 1	–	–	–	1.4923	Jethete X20
420	X 29 CrS 13	416 S 37	SUS 416	–	X 29 CrS 13	Z29CF13	X 29 CrS 13	–	–	–	1.4029	–
–	X 3 CrNiCuTi 12 9	–	–	S45500	–	–	X 6 CrNiNb 18 11	–	–	–	1.4543	ATI 455™
13-8 PH	X 3 CrNiMoAl 13 8 2	–	–	S13800	–	Z4 CNDAT 13 09	–	–	–	–	1.4534	ATI 13-8Mo™
420 F	X 30 Cr 13	420 S 45	SUS420J2	S42020	X 30 Cr 13	Z 30 C 13	X 30 Cr 13	2304	–	CA40	1.4028	–
–	X 30CrMoN 15 1	–	–	–	420S45	Z33C13	–	2304	–	–	1.4108	N360
–	X 35 CrMo 17	–	–	–	X 39 CrMo 17 1	X39CrMo17-1	X 35 CrMo 17	–	–	–	1.4122	–
–	X 4 CrNiCuNb 16 4	–	–	J92200	–	Z 4 CNUNb 16.4 M	–	–	–	–	1.4540	–
415 M	X 4 CrNiMo 16 5 1	–	–	–	X 4 CrNiMo 16 5 1	Z 6 CND 16.05.01	–	2387	–	–	1.4418	APX4
–	X 40 CrNi 25 21	310 S 98	SCH 13	–	–	–	–	–	–	–	1.4846	–
–	X 40 CrSiMo 10 2	–	SUH3	–	X 40 CrSiMo 10-2	Z40CSD10	–	–	–	–	1.4731	–
420	X 45 Cr 13	(420 S45)	–	–	X 45 Cr 13	Z 40 C 14	X 40 Cr 14	–	–	–	1.4034	–
–	X 45 CrMoV 15	–	–	–	X 50 CrMoV 15	Z 50 CD 15	X 50 CrMo V 15	–	–	–	1.4116	UGI 4116N
HNV3	X 45 CrSi 9 3	–	SUH1	–	401S45	Z45CS9	X45CrSi8	–	HNV3	–	1.4718	–
HNV 2	X 45 SiCr 4	–	–	S64006	–	–	–	–	–	–	1.4704	–
CA 6-NM	X 5 CrNi 134	425 C 11	SCS 5	J91540	X 3 CrNiMo 13 4	Z 4 CDN 13.4	X 6 CrNi 13 04	2385	–	–	1.4313	–
630	X 5 CrNiCuNb 16 4	–	SUS 630	–	X 5 CrNiCuNb 16-4	Z6CNU17.04	–	–	–	CB7Cu	1.4542	UGIMA® 4542
17-4 PH	X 5 CrNiCuNb 17 4 4	–	SUS 630	S17400	X 5 CrNiCuNb 16-4	X5CrNiCuNb16.4	–	–	–	A693	1.4548	–
–	X 5 CrNiMoCuNb 14 5	–	–	–	X 5 CrNiMoCuNb 14-5	X 5 CrNiMoCuNb 14-5	X 5 CrNiMoCuNb 14-5	–	–	–	1.4594	–
–	X 50 CoCrNi 20 20	–	–	–	–	–	–	–	–	–	1.4978	–
EV8	X 53 CrMnNiN 2 9	349 S 54	SUH35/SUH36	S63008	349S54	Z52CMN21.09	X53CrMnNiN21-9	–	EV8	–	1.4871	–
–	X 55 CrMo 14	–	–	–	–	Z 50 CD 13	–	–	–	–	1.4110	–
–	X 60 CrMnMoVNbN 21 10	–	–	–	–	Z 60 CMDVNb 21-10 Az	–	–	–	–	1.4785	–
440 A	X 65 CrMo 14	–	SUS 440A	S44002	X 70 CrMo 15	Z 70 CD 14	–	–	–	–	1.4109	ATI 440A™
–	X 7 CrNiAl 17 7	301 S 81	SUS 631	S17700	X 7 CrNiAl 17-7	X7CrNiAl17-7;Z9CNA17-07	X 7 CrNiAl 17-7	2388	–	A693	1.4568	–
632	X 7 CrNiMoAl 15 7	–	–	S15700	–	–	–	–	–	–	1.4574	PH 15-7 Mo®
–	X 8 CrCoNiMo 10 6	Z 9 CKD 11	–	–	S152	Z10CKD10	–	–	–	–	1.4911	ATI FV535™
15-7 PH	X 8 CrNiMoAl 15 7 2	–	–	S15700	X 8 CrNiMoAl 15-7-2	Z8CNDA15.07	X 8 CrNiMoAl 15-7-2	–	–	A693	1.4532	ATI 15-7™
HNV 6	X 80 CrNiSi 20	443 S 65	SUH 4	S65006	X 80 CrNiSi 20	Z 80 CSN 20.02	X 80 CrSiNi 20	–	–	–	1.4747	–
–	X 85 CrMoV 18 2	–	–	–	X 85 CrMoV 18 2	Z 85 CDMV 18.02	X 85 CrMoV 19 3	–	–	–	1.4748	–
440 B	X 90 CrMoV 18	409 S 1 9	SUS 440 B	S44003	X 90 CrMoV 18	Z 3 CT 1 2	X 6 Cr Ti 1 2	–	–	–	1.4112	–
–	X45CrNiW18-9	331 S 40	SUH31	–	X 45 CrNiW 18 9	Z35CNWS14.14	X45CrNiW18-9	–	–	–	1.4873	–

NOTA: Per la legenda, vedere a pagina Y217.

M1 Elenco dei materiali • Acciaio inossidabile • M1

M1 Acciaio inossidabile austenitico Resistenza alla trazione RM (MPa): <600 Durezza (HB): 130–200*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
CF-8	X 6 CrNi 18 9	304 C 15	SCS 13	–	X 2 CrNiN 18 7	Z 6 CN 18.10 M	G X 5 CrNi 19-10	2333	–	CF8	1.4308	CF-8
–	X 2 NiCr 18 16	–	–	–	–	Z 3 CDT 18-02	–	–	–	–	1.4321	–
–	X 1 CrNi 25 21	–	–	–	X 1 CrNi 25 21	X 1 CrNi25-21	X 1 CrNi 25-21	–	–	–	1.4335	Uranus 65
610	X1CrNiSi 18-15-4	–	–	S30600	X 1 CrNiSi 18-15-4	Z1 CNS 17.5	X 1 CrNiSi 18-15-4	–	–	A240-97A	1.4361	ATI 610™
CF-8M	X 6 CrNiMo 18 10	316 C 16	SCS 14	J92900	GX 5 CrNiMo 19-11-2	GX5CrNiMo 19-11-2	G X 5 CrNiMo 19-11-2	2343	–	–	1.4408	–
–	GX 2 CrNiMo 19 11 2	–	–	–	GX 2 CrNiMo 19-11-2	GX 2 CrNiMo 19-11-2	GX 2 CrNiMo 19-11-2	–	–	–	1.4409	–
–	ERO 4412 AHMo	–	–	J92900	GX 5 CrNiMo19-11-3	GX 5 CrNiMo 19-11-3	–	–	–	A743CF8M	1.4412	–
–	ERO 4416 AHCRMo	–	–	–	GX 2 NiCrMoN 25-20-5	GX2NiCrMoN 25-20-5	–	–	–	–	1.4416	–
–	GX 6 CrNiMo 18 12	317 C 12	–	–	–	–	–	–	–	–	1.4437	–
–	X 2 CrNiMo 18 16 5	–	–	S31780	–	–	–	–	–	–	1.4440	–
–	GX 2 CrNiMoN 17 1 3 4	–	–	–	GX 2 CrNiMoN 17 1 3 4	–	–	–	–	–	1.4446	–
–	GX 6 CrNiMo 17 13	317 C 16	–	J93000	–	–	–	–	–	CG8M	1.4448	–
–	GX 2 NiCrMo 28 20 2	–	–	–	GX 2 NiCrMo 28-20-2	GX 2 NiCrMo 28-20-2	GX 2 NiCrMo 28-20-2	–	–	–	1.4458	–
–	GX 4 NiCrCuMo 30 20 4	–	–	–	GX 4 NiCrCuMo 30-20-4	GX 4 NiCrCuMo 30-20-4	–	–	–	–	1.4527	–
–	GX 5 CrNiNb 18 9	347 C 17	SCS 21	J92710	GX 5 CrNiNb 19-11	Z 4 CNNb 19.10 M	G-X 5 CrNiNb 19-11	–	–	–	1.4552	–
–	GX 2 CrNiMoCuN 20 18 6	–	–	–	GX 2 CrNiMoCuN 20-18-6	GX 2 CrNiMoCuN 20-18-6	–	–	–	–	1.4557	–
–	X 3 CrNiCuMo 17 11 3 2	–	–	–	X 3 CrNiCuMo17 11 3 2	X3CrNiCuMo 17-11-3-2	X 3 CrNiCuMo 17-11-3-2	–	–	–	1.4578	–
–	GX 5 CrNiMoNb 18 10	318 C 17	SCS 22	–	GX 5 CrNiMoNb 19-11-2	Z 4 CNDNb 18.12 M	GX 6 CRNOMONB 20 11	–	–	–	1.4581	–
–	GX 2 NiCrMoCu 25 2 0 5	–	–	–	GX 2 NiCrMoCu 25-20-5	GX 2 NiCrMoCu 25-20-5	–	–	–	–	1.4584	–
–	GX 7 CrNiMoCuNb 18 18	–	–	J94651	–	–	–	–	–	–	1.4585	–
–	GX 2 NiCrMoCuN 29 25 5	–	–	–	GX 2 NiCrMoCuN 29-25-5	GX 2 NiCrMoCuN 29-25-5	–	–	–	–	1.4587	–
–	GX 2 NiCrMoCuN 25 20 6	–	–	–	GX 2 NiCrMoCuN 25-20-6	GX 2 NiCrMoCuN 25-20-6	–	–	–	–	1.4588	–
–	GX 25 CrNiSi 18 9	302 C 35	–	J92602	–	–	G X 16 CrNi 20 10	–	–	CF20	1.4825	–
–	GX 40 CrNiSi 22 9	–	SCH 12	J92603	–	–	–	–	–	–	1.4826	–
–	GX 50 CrNiNb 25 22	–	–	–	–	–	–	–	–	–	1.4836	–
–	GX 40 CrNiSi 25 12	309 C 30	SCS 17	J93503	–	–	GX 35 CrNi 25 12	–	–	CE30	1.4837	–
334	X 8 CrNiAlTi 20 20	–	–	S33400	–	–	–	–	–	–	1.4847	ATI 334™
–	GX 40 NiCrSiNb 38 18	–	–	N08004	–	–	–	–	–	–	1.4849	–
–	GX 40 NiCrSiNb 35 25	–	–	–	–	–	–	–	–	–	1.4852	–
–	GX 40 NiCrSi 35 25	–	–	J95705	–	–	GX 50 NiCr 35 25	–	–	–	1.4857	–
105 MA	BGH 4892	–	–	–	–	–	–	–	–	–	1.4892	–
–	X 3 CrNi 18 11	–	–	–	–	–	X 2 CrNiN 18 11	–	–	–	1.4949	–
–	X 2 CrNiMo 19 12	316 S 93	–	S31683	x 2 CrNiMo 19 13 03 KE	Z 2 CND 19-12-03	–	–	–	–	1.4430	–
–	GX 7 NiCrMoCuNb 25 20	–	SCS 23	J95150	10.204.3.1B	Z 3 NCDU 25.20 M	GX 5 NiCrCuMo 29 21	–	–	–	1.4500	–
–	X 3 CrNiCu 19 9 2	–	–	–	S 124 M	PHYHQ 4560	304 RH1	–	–	–	1.4560	ACX276
–	–	–	–	S63198	–	–	–	–	19-9 DL	–	–	19-9 DL
–	X 2 CrNiMoN 17 13 3	–	–	–	–	Z 2 CND 17.13	X 2 CrNiMoN 17 13 3	–	–	–	–	–
332	–	–	–	N08800	–	–	–	–	–	–	–	ATI 332™
–	–	–	–	N08367	–	–	–	–	–	–	–	AL-6XN®
611	–	–	–	S30601	–	–	–	–	–	A240-97A	–	ATI 611™

M2 Elenco dei materiali • Acciaio inossidabile • M2

M2 Acciai austenitici ad alta resistenza e acciai inossidabili fusi Resistenza alla trazione RM (MPa): 600–800*
Durezza (HB): 150–230 (HRC): <25

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
304 H	X 5 CrNi 18 10	304 S 15	SUS 304	S30409	X 6 CrNi 18 10 KD	Z 6 CN 18.09	X 5 CrNi 18 10	2332	–	–	1.4301	–
–	X 5 CrNi 19 9	308 S 96	–	S30888	X 6CrNi 20 10 KE	–	–	–	–	–	1.4302	–
305	X 4 CrNi 18 12	305 S 19	SUS 305	S30500	X 4 CrNi18 12 KD	Z 5 CN 18.12	X 4 CrNi 19 10	–	–	–	1.4303	–
303	X 10 CrNiS 18 9	303 S 21	SUS 303	S30300	X 10 CrNiS 18 9	Z 10 CNF 18.09	X 10 CrNiS 18 09	2346	–	–	1.4305	ATI 303™
304 L	X 2 CrNi 19 11	304 C 12	SUS 304L	S30403	X 3 CrNi18 10 KD	Z 2 CN 18.09	GX 2 CrNi 19 10	2352	–	CF3	1.4306	ATI 304L™
304 L	X 2 CrNi 18 9	304 S 11	SUS 304L	–	X 2 CrNi 18 9	CLC18.9.L	X 2 CrNi 18-9	–	–	–	1.4307	–
–	GX 2 CrNi 19 11	304 C 12	–	J92500	GX2CrNi19-11	GX2CrNi19-11	GX2CrNi19-11	2352	–	CF3	1.4309	–
304 LN	X 2 CrNiN 18 10	304 S 62	SUS 304 LN	S30453	X 2 CrNiN 18 10	Z 8 CN 18.12	X 8 CrNi 19 10	2371	–	–	1.4311	–
305	GX 10 CrNi 18 8	302 C 25	SCS 12	–	–	Z 10 CN 18.9 M	–	–	–	–	1.4312	ATI 305™
308 L	X 2 CrNi 19 9	308 S 92	SUS Y 308L	S30883	X 2 CrNi 20 10 KE	Z 2 CN 20.10	–	–	–	–	1.4316	–
–	X 2 CrNiN 18 7	–	–	–	X 2 CrNiN 18-7	18-7L	18-7L	–	–	–	1.4318	–
302	X 10 CrNi 18 9	302 S 26	SUS 302	S20200	302S31	Z10CN18-09	X 10 CrNi 18 09	2330	–	–	1.4319	ATI 302™
301	X 10 CrNi 18 9	302 S 26	–	J92501	X 10 CrNi 18 9	–	–	–	–	–	1.4324	–
–	X 10 CrNi 30 9	312 S 94	–	–	X 12 CrNi 30 09 KE	Z 10 CN 31-10	–	–	–	–	1.4337	–
–	X 3 CrNi 13 4	–	–	S41086	X 3 CrNi 14 04 KE	–	–	–	–	–	1.4351	410NiMo
202	X 3CrMnNiN 18 8 7	–	–	–	284S16	Z8CMN18-08-05	–	–	–	–	1.4371	–
201	X 12 CrMnNiN 17 7 5	284 S 16	SUS 201	–	X 12 CrMnNiN 17-7-5	X 12 CrMnNiN17-7-5	X 12 CrMnNiN 17-7-5	–	–	–	1.4372	ACX060
316	X 5 CrNiMo 17 12 2	316 S 16	SUS 316	S31600	X6 CrNiMo 17 12 2 KD	Z 6 CND 17.11	X 5 CrNiMo 17 12	2347	–	–	1.4401	ATI 316™
316L	X 2 CrNiMo 17 13 2	316 S 12	SUS 316 L	S31603	GX 3 CrNiMo 17 12 2 KD	Z 3 CND 19.10 M	GX 2 CrNiMo 19 11	2348	–	–	1.4404	ATI 316L™
316 LN	X 2 CrNiMoN 17 12 2	316 S 61	SUS 316 LN	S31653	X 3 CrNiMoN 17 12 2	Z 2 CND 17.12 Az	X 2 CrNiMoN 17 12	2353	–	–	1.4406	ATI 316LN™
–	X 5 CrNiMo 13 4	–	–	J91550	–	Z 6 CND 16.05.01	–	–	–	–	1.4407	–
–	X12CrNiMoS18-11	–	–	–	–	Z3CNDF17-13	–	–	–	–	1.4427	Chronifer®speciale KL
316L	X 2 CrNiMo 17 12 3	316 S 13	SUS 316L	–	X 2 CrNiMo 17 12 2	Z 3 CND 17-13-30	X 2 CrNiMo 17-12-3	2348/2353/2354	–	–	1.4432	–
–	X 2 CrNiMoN 18 12 4	–	–	–	317 LN	CLC18.12.4.LN	X2CrNiMoN1812-4	–	–	–	1.4434	–
316 L	X 2 CrNiMo 18 14 3	316 S 11	SCS 16	S31603	X 2 CrNiMo 18 16	Z 2 CND 17.13	X 2 CrNiMo 17 13	2353	–	–	1.4435	–
316	X 5 CrNiMo 17 1 3 3	316 S 16	SUS 316	S31600	X6 CrNiMo 18 13 3 KD	Z 6 CND 17.12	X 5 CrNiMo 17 13	2343	–	–	1.4436	–
317 L	X 2 CrNiMo 18 16 4	317 S 12	SUS 317 L	S31703	X 3 CrNiMo 18 16 4	Z 2 CND 19.15	X 2 CrNiMo 18 15	2367	–	–	1.4438	ATI 317L™
–	X 2 CrNiMoN 17 13 5	–	–	–	X 3 CrNiMo 17 13 5	Z 3 CND 18.14-05 AZ	–	–	–	–	1.4439	–
–	X 2 CrNiMo 18 15 4	–	–	S31675	–	X 3 CrNiMoN 19-14	–	–	–	–	1.4442	–
317	X 5 CrNiMo 17 13	317 S 16	SUS 317	S31700	–	–	X 5 CrNiMo 18 15	–	–	–	1.4449	AL 317L+E55
–	X 5 CrNiCuNb 16 4	–	–	–	–	Z7CNU16.04	–	–	–	–	1.4452	–
–	–	–	–	S21904	–	–	–	–	–	A666	1.4454	ATI 219
–	X 2 CrNiMnMoN 20 16	–	–	–	X 2 CrNiMnMoN 20 15 08 KE	–	–	–	–	–	1.4455	–
–	X 1 CrNiMoN 25 2 5 2	–	–	S31050	–	–	–	–	–	–	1.4465	2RE69

(continua)

M2 ■ Elenco dei materiali • Acciaio inossidabile • M2 *(continua)*

M2 Acciai austenitici ad alta resistenza e acciai inossidabili fusi *Resistenza alla trazione RM (MPa)*: 600–800*
Durezza (HB): 150–230 (HRC): <25

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	X 1 CrNiMoN 25 22 2	–	–	–	725 LN	DMV 25.22.2	X 1 CrNiMoN 25-22-2	–	–	–	1.4466	–
–	X 1 NiCrMoCuN 25 20 6	–	–	–	–	–	–	–	–	–	1.4529	Uranus B26 6Mo
–	GX 2 NiCrMoCuN 25 20	–	–	J94650	GX 2 CrNiMoCuN 25-20-6	–	–	–	–	–	1.4536	–
–	X 1 CrNiMoCuN 25 25 5	–	–	–	X 1 CrNiMoCuN 25-25-5	X 1 CrNiMoCuN 25-25-5	X 1 CrNiMoCuN 25-25-5	–	–	–	1.4537	–
321	X 6 CrNiTi 18 10	321 S 12	SUS 321	S32100	X 6 CrNiTi 18 10	Z 6 CNT 18.10	X 6 CrNiTi 18 11	2337	–	–	1.4541	ATI 321™
321	A 700	304 S 31	–	J92630	–	Z 10 CNT 18 11	X 6 CrNiTi 18 11	–	–	–	1.4544	–
–	X 1 CrNiMoCuN 20 18 7	X 1 CrNiMoCuN 20 18 7	–	S31254	X 1 CrNiMoCuN 20-18-7	X 1 CrNiMoCuN 20-18-7	X 1 CrNiMoCuN 20-18-7	–	–	–	1.4547	Uranus B25 6Mo
–	X 2 NiCrAlTi 32 20	–	NCF 800 TB	–	–	–	–	–	–	–	1.4558	–
–	X 1 NiCrMoCuN 31 27 4	–	–	–	X 1 NiCrMoCu 31 27 4	X 1 NiCrMoCuN 31 -27-4	X 1 NiCrMoCuN 31 -27-4	2584	–	–	1.4563	–
–	X 3 CrNiCu 18 9 4	394 S 17	SUS XM7	–	X3CrNiCu18-9-4	304CU	304K	–	–	–	1.4567	–
316 Ti	X 6 CrNiMoTi 17 12 2	320 S 31	SUS 316Ti	–	X 6 CrNiMoTi 17 12 2	Z 6 CNDT 17.12	X 6 CrNiMoTi 17 12	2350	–	–	1.4571	ATI 316Ti™
–	GX 5 CrNiMoNb 23 9	–	–	–	–	–	–	–	–	–	1.4572	–
316 Ti	X 10 CrNiMoTi 18 12	320 S 33	SUS 316Ti	S31635	–	–	X 6 CrNiMoTi 17 13	–	–	–	1.4573	–
318	X 10 CrNiMoNb 18 12	–	–	–	–	–	X 6 CrNiMoNb 17 13	–	–	–	1.4583	–
–	X 2 CrNiCu 19 10	–	–	–	X 2 CrNiCu 19-10	TX 304L	–	–	–	–	1.4650	–
–	X1CrNiMoCuN24-22-8	–	–	S32654	–	–	–	–	–	–	1.4652	654 SMO®
–	153 MA	–	–	S30415	X 6 CrNiSiNCe 19 10	–	–	–	–	–	1.4818	153 MA™
–	X 20 CrNiSi 25 4	–	–	S44635	X 15 CrNiSi 25 4	Z 20 CNS 25.04	X 20 CrNiSi 25 4	–	–	–	1.4821	–
309	X 15 CrNiSi 20 12	309 S 24	SUH 309	S30900	X 15 CrNiSi 20 12	Z 15 CNS 20.12	X 16 CrNiSi 25,20	–	–	–	1.4828	ATI 309™
309 S	X 7 CrNi 23 14	309 S 24	SUS 309 S	J93400	X 12 CrNi 23 13	Z 15 CN 24.13	X 6 CrNi 23 14	–	–	–	1.4833	–
–	353 MA	–	–	S35315	X 6 NiCrSiNCe 35-25	–	–	–	–	–	1.4854	353 MA®
–	X 8 NiCrSi 38 18	NA 17	–	N08330	–	Z 12 NCS 37.18	–	–	–	–	1.4862	–
–	X 33 CrNiMnN 23 8	–	–	–	X 33 CrNiMnN 23-8	X 33 CrNiMnN 23-8	–	–	–	–	1.4866	–
EV 12	X 55 CrMnNiN 20 8	–	–	S63012	X 55 CrMnNiN 20-8	Z 55 CMN 20.08 Az	–	–	–	–	1.4875	–
321	X 12 CrNiTi 18 9	321 S 20	SUS 321	S32100	X 10 CrNiTi 18 10	Z 6 CNT 18.12	X 6 CrNiTi 18.11	2337	–	–	1.4878	ACX315
EV 11	X 70 CrMnNiN 21 6	–	–	S63011	–	–	X 70 CrMnNiN 21 6	–	–	–	1.4881	–
–	X 50 CrMnNiNbN 21 9	–	–	–	X 50 CrMnNiNbN 21-9	Z 50 CMNNb 21.09	–	–	–	–	1.4882	–
–	X 7 CrNiNb 18 10	–	SUS347H	S34709	X7CrNiNb18-10	X7CrNiNb18-10	–	–	–	–	1.4912	–
316 H	X 6 CrNiMo 17 13	316 S 51	–	S31609	X 6 CrNiMo 17 12 2	Z 6 CND 17-13 B	–	–	–	–	1.4919	–
321 H	X 8 CrNiTi 18 10	–	–	–	X 6 CrNiTiB 18-10	Z 6 CNT 18-10 B	X 6 CrNiTiB 11	–	–	–	1.4941	–
A660	X 4 NiCrTi 25 15	HR251	SUH 660	S66286	–	Z 6 NCTDV 25.15 B	–	–	–	–	1.4943	Discaloy
–	X 6 CrNiWNb 16 16	–	–	–	–	–	–	–	–	–	1.4945	–
–	X 6 CrNi 18 11	304 S 51	–	S30480	X 6 CrNi 18 10	Z 6 CN 18-09	X 5 CrNi 18 10 KW	2333	–	–	1.4948	–
–	X 6 CrNi 25 20	–	–	–	310 H	–	–	–	–	–	1.4951	–
–	X 8 CrNiNb 16 13	347 S 51	–	–	–	–	–	–	–	–	1.4961	–
–	Esshete12 50	–	–	S21500	X 10 CrNiMoMnNbVB 15-10-1	X 10 CrNiMoMnNbVB 15-10-1	–	–	–	A213	1.4982	Esshete 1250
–	X 8 CrNiMoBNb 16 16	–	–	–	X 7 CrNiMoBNb 16-16	–	–	–	–	–	1.4986	–
301	X 12 CrNi 17 7	301 S 21	SUS 301	S30100	X 12 CrNi 17 7	Z 12 CN 17.07	X 12 CrNi 17 07	2331	–	–	1.4310	ATI 301™
–	GX 40 CrNi 27 4	–	–	J92615	–	–	GX 35 CrNi 28 05	–	–	–	1.4340	–
304	X 5 CrNi 18 9	304 S 31	SUS 304	S30400	1	Z6CN18.09	X5CrNi1810	2332/2333	–	A276	1.4350	ATI 304™
–	X 15 CrNiMn 18 8	307 S 98	–	–	X 15 CrNiMn 18 08 KE	Z 8 CNM 19-09-07	–	–	–	–	1.4370	–
S32750	GX 10 CrNiMo 18 9	–	SCS 14 A	S32750	X 2 CrNiMoN 25-7-4	Z 5 CND 20.10 M	X 2 CrNiMoN 25-7-4	–	–	–	1.4410	–
–	X 5 CrNiMo 18 11	315 S 16	–	–	–	–	–	2340	–	–	1.4420	–
347	X 6 CrNiNb 18 10	347 S 17	SUS 347	S34700	X 6 CrNiNb 18 10	Z 6 CNNb 18.10	X 6 CrNiNb 18 11	2338	–	–	1.4550	ATI 347™
316 Cb	X 6 CrNiMoNb 17 12 2	318 S 17	–	–	X 6 CrNiMoNb 17 12 2	Z 6 CNDNb 17.12	X 6 CrNiMoNb 17 12	–	–	–	1.4580	–
–	X 3 CrNiMoN 17 13	–	–	–	X 3 CrNiMoN 17-13-3	–	X 2 CrNiMoN 17 12	–	–	–	1.4910	–
–	X 6 CrNi 23 13	–	–	–	309 H	–	–	–	–	–	1.4950	–
A286	X 6 NiCrTiMoVB 25-15-2	286 S 31	–	S66286	X 6 NiCrTiMoVB 21-15-2	–	–	–	–	–	1.4980	Incoloy A 286
XM-19	–	–	–	S20910	–	–	–	–	–	F1314	–	ATI XM-19™
303 plus X	–	–	–	S30310	–	–	–	–	–	XM-5	–	303 plus X
–	X 2 CrNi 18 13 3	–	–	–	–	–	–	–	–	–	–	Staybrite® 4435NCu
218	–	–	–	S21800	–	–	–	–	–	–	–	Nitronic 60
201LN	–	–	–	S20153	–	–	–	–	–	–	–	ATI 201LN™-MIL
–	X 2 CrNiMoN 17 13 3	–	–	–	–	Z 2 CND 17.13	X 2 CrNiMoN 17 13 3	–	–	–	–	AL 316LXN
–	–	–	–	S31675	–	–	–	–	–	F1586	–	ATI REX 734™
–	–	–	–	–	–	–	–	–	–	–	–	P558
–	X 1 NiCrMoCu 22 24 6	–	–	–	–	–	–	–	–	–	–	Uranus B66
–	–	–	–	–	–	–	–	–	–	–	–	ATI Datalloy 2®
–	–	–	–	–	–	–	–	–	–	–	–	ATI Staballoy® AG17®
–	–	–	–	–	–	–	–	–	–	–	–	P530
–	X 1 NiCrMoCu 31 27 4	–	–	N08028	–	–	–	–	–	–	–	Uranus B28
–	–	–	–	–	–	–	–	–	–	–	–	P750
–	–	–	–	–	–	–	–	–	–	–	–	P750-I
–	X 4 CrNiMoN 21 9 4	–	–	–	–	–	–	–	–	F1586	–	M30NW
–	–	–	–	–	–	–	–	–	–	–	–	P550
–	–	–	–	–	–	–	–	–	–	–	–	P580
–	–	–	–	–	–	–	–	–	–	–	–	P650
–	–	–	–	–	–	–	–	–	–	–	–	ATI Datalloy HP™

NOTA: Per la legenda, vedere a pagina Y217.

M3 Elenco dei materiali • Acciaio inossidabile • M3

M3 Acciaio inossidabile duplex *Resistenza alla trazione RM (MPa)*: <800* *Durezza (HB): 135–275 (HRC): <30*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	GX 120 CrMo 29 2	–	–	–	–	–	–	–	–	F30M	1.4138	PK324
–	X 2 CrMnNiN 21 5 1	–	–	S32101	–	–	–	–	–	–	1.4162	LDX2101
–	GX 6 CrNiN 26 7	–	–	–	GX 6 CrNiN 26-7	–	–	–	–	–	1.4347	–
S32304	X 2 CrNiN 23 4	–	–	S32304	SAF 2304	35 N	X 2 CrNiN 23-4	2327	–	A240	1.4362	ATI 2304™
S31500	X 2 CrNiMoSi 19 5	–	–	S39215	GX 2 CrNiMoN 25-7-3	GX 2 CrNiMoN 25-7-3	–	2376	–	–	1.4417	–
S31803	X 2 CrNiMoN 22 5 3	318 S 13	SUS 329J 3L	S31803 & S32205	X 2 CrNiMoN 22 5 3	Z 3 CND 22.05 AZ	X 2 CrNiMoN 22-5-3	2377	F51	2205	1.4462	ATI 2205™
–	GX 6 CrNiMo 24 8 2	–	–	–	–	–	–	–	–	–	1.4463	–
–	GX 2 CrNiMoN 25 6 3	–	–	–	GX 2 CrNiMoN 25-6-3	GX 2 CrNiMoN 25-6-3	–	–	–	–	1.4468	–
–	GX 2 CrNiMoN 26 7 4	–	–	J93404	GX 2 CrNiMoN 26-7-4	GX 2 CrNiMoN 26-7-4	GX 2 CrNiMoN 26-7-4	–	–	–	1.4469	–
–	X 2 CrNiMoCuWN 25 7 4	–	–	S32760	X 2 CrNiMoCuWN 25 7 4	X 2 CrNiMoCuWN 25-7-4	X 2 CrNiMoCuWN 25-7-4	–	–	F 55	1.4501	F55
2507	X 2 CrNiMoCuN 25 6 3	–	–	–	X 2 CrNiMoCuN 25-6-3	DMV25.7Cu	329SK	–	–	–	1.4507	Uranus 52N+
–	GX 2 CrNiMoCuWN 25 8 4	–	–	–	X 6 CrNiCu 18 10 4 KD	Z 4 CNUD 17-11-03 FF	–	–	–	–	1.4508	–
–	GX 2 CrNiMoCuN 25 6 3 3	–	–	–	GX 2 CrNiMoCuN 25-6-3-3	GX 2 CrNiMoCuN 25-6-3-3	GX 2 CrNiMoCuN 25-6-3-3	–	–	–	1.4517	–
–	X 4 CrNiMoNb 25 7	–	SCS 22	–	–	–	–	–	–	–	1.4582	PK343
–	BGH 4593	–	–	–	GX 3 CrNiMoCuN 24 6 2 3	–	–	–	–	–	1.4593	Noridur®
329	X 4 CrNiMo 27 5 2	–	SUS 329 J1	S32900	X 3 CrNiMo 27 5 2	X 2 CrNiMo 25-7-3	X 3 CrNiMo 27-5-2	2324	–	A240	1.4460	10RE51
–	GX 2 CrNiMoN 22 5 3	–	–	–	GX 2 CrNiMoN 22-5-3	GX 2 CrNiMoN 22-5-3	GX 2 CrNiMoN 22-5-3	–	–	–	1.4470	–
S32550	–	–	–	S32550	–	–	–	–	–	–	–	Lega Ferralium® 255
–	–	–	–	S32003	–	–	–	–	–	–	–	ATI 2003®
–	–	–	–	S80211	–	–	–	–	–	–	–	ATI 2102™
–	–	–	–	S32550	–	–	–	–	–	–	–	ATI 255™
–	–	–	–	S34565	–	–	–	–	–	–	–	ATI 4565™
–	X 2 CrNiMoN 25 6 3	–	–	–	–	–	–	–	–	–	–	Uranus 47N+
–	–	–	–	–	–	–	F60	–	–	32760	–	Zeron® 100

Ghisa

K1 Elenco dei materiali • Ghisa • K1

K1 Ghisa grigia *Resistenza alla trazione RM (MPa)*: 125–500* *Durezza (HB): 120–290 (HRC): <32*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	GG-150HB	–	–	–	GJL-HB 170	–	–	–	–	–	0.6012	–
A48-25 B	GG-15	Qualità 150	FC 150	–	GJL-150	FGL 150	G 15	0115-00	–	A 48 classe 25	0.6015	–
–	GG-170HB	–	–	N06985	GJL-HB 205	–	–	–	–	–	0.6017	–
–	GG-190HB	–	–	N06022	GJL-HB 230	–	–	–	–	–	0.6022	–
A48-35 B	GG-25	Qualità 260	FC 250	–	GJL-250	FGL 250	G 25	0125-00	–	A 48 classe 35	0.6025	–
–	GG-26	–	FC260	–	–	–	G 26	0126-00	–	–	0.6026	–
–	GG-220HB	–	–	W06027	GJL-HB 250	FGL 250	–	–	–	–	0.6027	–
–	GG-240HB	–	–	–	GJL-HB 275	–	–	–	–	–	0.6032	–
A48-50 B	GG-35	Qualità 350	FC 350	–	GJL-350	FGL 350	G 35	0135-00	–	A 48 classe 50	0.6035	–
–	GG-260HB	–	–	–	GJL-HB 275	–	–	–	–	–	0.6037	–
A48-20 B	GG-10	Qualità 100	FC 100	–	GJL-100	FGL 100	G 10	0110-00	–	A 48 classe 20	0.6010	–
A48-30 B	GG-20	Qualità 220	FC 200	W06020	GJL-200	FGL 200	G 20	0120-00	–	A 48 classe 30	0.6020	–
A48-45 B	GG-30	Qualità 300	FC 300	–	GJL-300	FGL 300	G 30	0130-00	–	A 48 classe 45	0.6030	–
A48-55 B	GG-40	Qualità 400	–	–	GJL-400	FGL 400	–	0140-00	–	A 48 classe 55	0.6040	–
A48-40	–	–	–	–	–	–	–	–	–	A 48 classe 40	–	–
A48-60	–	–	–	–	–	–	–	–	–	A 48 classe 60	–	–
–	–	–	–	–	–	–	–	–	G1800	A 159 G1800	–	–
–	–	–	–	–	–	–	–	–	G3000	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G10H18	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G11H18	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G3500	A 159 G3500	–	–
–	–	–	–	–	–	–	–	–	G11H20	A 159 G3500	–	–
–	–	–	–	–	–	–	–	–	G4000	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G13H19	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G12H21	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G9H12	A 159 G1800	–	–
–	GG-26-Cr	–	–	–	–	–	–	–	–	–	–	–
–	GG-25-Cr	–	–	–	–	–	–	–	–	–	–	–

K2 Elenco dei materiali • Ghisa • K2

K2 Ghise duttili (nodulari) a bassa-media resistenza e ghise a grafite compatta (CGI) *Resistenza alla trazione RM (MPa)*: <600*
Durezza (HB): 130–260 (HRC): <28

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	GGL-NiMn137	L-NiMn 13 7	FCA NiMn 13 7	F43000	GJLA-XNiMn 13-7	L-NM 13 7	–	–	–	–	0.6652	–
A 436 tipo 1	GGL- NiCuCr1562	L-NiCuCr 15 6 2	FCA -NiCuCr 15 6 2	F41000	GJLA-XNiCuCr 15-6-2	L-NUC 15 6 2	–	–	–	–	0.6655	–
A 436 tipo 1b	GGL-NiCuCr1563	L-NiCuCr 15 6 3	FCA-NiCuCr 15 6 3	F41001	GJLA-XNiCuCr 15-6-3	L-NUC 15 6 3	–	–	–	–	0.6656	–
A 436 tipo 2b	GGL-NiCr203	L-NiCr 20 3	FCA-NiCr 20 3	F41003	GJLA-XNiCr 20-3	L-NC 20 3	–	–	–	–	0.6661	–
–	GGL-NiSiCr2053	L-NiSiCr 20 5 3	FCA-NiSiCr 20 5 3	–	GJLA-XNiSiCr 20-5-3	L-NSC 20 5 3	–	–	–	–	0.6667	–
A 436 tipo 3	GGL- NiCr303	L-NiCr 30 3	FCA-NiCr 30 3	F41004	GJLA-XNiCr 30-3	L-NC 30 3	–	–	–	–	0.6676	–
–	GGG-35.3	–	–	–	GJS-350-22	–	–	0717-15	–	–	0.7033	–
–	GGG-40.3	SNG 370/17	FCD 370	–	GJS-400-18	FGS 370-17	GSO 42/15	0717-15	–	–	0.7043	–
–	GGG-45	–	FCD 450	–	–	–	–	–	–	–	0.7045	–
–	–	–	–	–	–	FGS450.10	–	–	–	–	0.7049	–
–	GGG-65	–	–	–	–	–	–	–	–	–	0.7065	–
–	GGG-NiMn137	S-NiMn 13 7	FCDA-NiMn 13 7	–	GJSA-XNiMn 13-7	S-Mn 13 7	–	0772-00	–	–	0.7652	–
–	GGG-NiCrNb202	S2W	FCDA-NiCrNb 20 2	–	GJSA-XNiCrNb 20-2	–	–	–	–	–	0.7659	–
A 439 tipo D-2B	GGG-NiCr203	S-NiCr 20 3	FCDA-NiCr 20 3	F43001	GJSA-XNiCr 20-3	–	–	–	–	–	0.7661	–
–	GGG-NiSiCr2052	S-NiSiCr 20 5 2	FCDA-NiSiCr 20 5 2	–	GJSA-XNiSiCr 20-5-2	S-NSC 20 5 2	–	–	–	–	0.7665	–
A 571 tipo D-2M	GGG-NiMn234	S-NiMn 23 4	FCDA-NiMn 23 4	–	GJSA-XNiMn 23-4	S-NM 23 4	–	–	–	–	0.7673	–
A 439 tipo D-3	GGG-NiCr303	S-NiCr 30 3	FCDA-NiCr 30 3	F43003	GJSA-XNiCr 30-3	S-NC 30 3	–	–	–	–	0.7676	–
A 439 tipo D-3A	GGG-NiCr301	S-NiCr 30 1	FCDA-NiCr 30 1	F43004	GJSA-XNiCr 30-1	S-NC 30 1	–	–	–	–	0.7677	–
–	GGG-NiSiCr3055	–	FCDA-NiSiCr 30 5 5	–	GJSA-XNiSiCr 30-5-5	–	–	–	–	–	0.7679	–
A 439 Typ D-5	GGG-Ni35	S-Ni 35	FCDA-Ni 35	F43006	GJSA-XNi 35	S-N 35	–	–	–	–	0.7683	–
A 439 tipo D-5A	GGG-NiCr353	S-NiCr 35 3	FCDA-NiCr 35 3	F43007	GJSA-XNiCr 35-3	S-NC 35 3	–	–	–	–	0.7685	–
–	GGG-NiSiCr3552	–	FCDA-NiSiCr 35 5 2	–	GJSA-XNiSiCr 35-5-2	FGS Ni35 Si 5 Cr2	–	–	–	–	0.7688	–
–	GTW-35-04	W 35-04	FCMW 330 classe 1	–	GJMW-35-0-4	MB 35-7	W 35-04	–	–	–	0.8035	–
–	GTW-S-38-1 2	W 38-12	–	–	GJMW-360-12	MB 300-12	–	–	–	–	0.8038	–
–	GTW-45-07	W 45-07	FCMWP 440 classe 3	–	GJMW-450-7	MB 450-7	GMB 45	–	–	–	0.8045	–
–	GTW-55	–	–	–	–	–	GMB 55	–	–	–	0.8055	–
–	GTW-65	–	–	–	–	–	GMB 65	–	–	–	0.8065	–
32510	GTS-35-10	B 340/12	FCMP 330	–	GJMB-350-10	MN 350-10	–	815	–	–	0.8135	–
40010	GTS-45-06	P 440/7	FCMP 440	–	GJMB-450-6	MN 450 - 6	P 45-06	852	–	–	0.8145	–
50005	GTS-55-04	P 510/4	FCMP 490	–	GJMB-550-4	MN 550-4	P 55-04	854	–	–	0.8155	–
70003	GTS-65-02	P 570/3	FCMP 540	–	GJMB-650-2	MN 650-3	P 65-02	0858-00, 0856-00	–	–	0.8165	–
90001	GTS-70-02	P 690/2	FCMP 690	–	GJMB-700-2	MN 700-2	P 70-02	0862-03; 0864-03	–	–	0.8170	–
–	GGV-30	–	–	–	GJV-300	–	–	–	–	–	0.9991	–
A 436 tipo 2	GGL-NiCr202	L-NiCr 20 2	FCA-NiCr 20 2	F41002	GJLA-XNiCr 20-2	L-NC 20 2	–	0523-00	–	–	0.6660	–
A 436 tipo 4	GGL- NiSiCr3055	L-NiSiCr 30 5 5	FCA-NiSiCr 30 5 5	F41005	GJLA-XNiSiCr 30-5-5	L-NSC 30 5 5	–	–	–	–	0.6680	–
60-40-18	GGG-40	SNG 420/12	FCD 400 classe 1	F32800	GJS-400-15	FGS400-12	GS400-12	0717-02	60-40-18	60-40-18	0.7040	–
65-45-12	GGG-50	SNG 500/7	FCD 500	F33100	GJS-500-7	FGS 500-7	GS 500/7	0727-02	65-45-12	65-45-12	0.7050	–
–	GGG-60	SNG 600/3	FCD 600-3	–	GJS-600-3	–	GS 600/3	–	80-55-06	80-55-06	0.7060	–
100-70-03	GGG-70	SNG 700/2	FCD 700	F34800	GJS-700-2	FGS 700-2	GS 700-2	0737-01	100-70-03	100-70-03	0.7070	–
120-90-02	GGG-80	SNG 800/2	FCD 800	F36200	GJS-800-2	FGS 800-2	GS 800-2	–	120-90-02	120-90-02	0.7080	–
A 439 tipo D-2	GGG-NiCr202	L-NiCuCr 20 2	FCDA-NiCr 20 2	–	GJSA-XNiCr 20-2	L-NC 20 2	–	0523-00	–	–	0.7660	–
A 439 tipo D-2C	GGG-Ni22	S-Ni 22	FCDA-Ni 22	F43002	GJSA-XNi 22	S-N 22	–	–	–	–	0.7670	–
A 439 tipo D-4	GGG-NiSiCr3053	S-NiSiCr 30 5 5	FCDA-NiSiCr 30 5 4	F43005	GJSA-XNiSiCr 30-5-3	S-NSC 30 5 5	–	–	–	–	0.7680	–
–	GTW-40-05	W 40-05	FCMW 370	–	GJMW-400-5	MB 400-5	GMB 40	–	–	–	0.8040	–
–	GGV-40	–	–	–	GJV-400	–	–	–	–	–	0.9990	–
80-55-06	–	–	–	F33800	–	FGS 350-22	–	0732-03	D5506	–	–	–
–	–	–	–	–	–	–	–	–	D4018	–	–	–
–	–	–	–	–	–	–	–	–	D400	–	–	–
–	–	–	–	–	–	–	–	–	D4512	–	–	–
–	–	–	–	–	–	–	–	–	D450	–	–	–
–	–	–	–	–	–	–	–	–	M3210	–	–	–
–	–	–	–	–	–	–	–	–	M4504	–	–	–
–	–	–	–	–	–	–	–	–	M5003	–	–	–
–	–	–	–	–	–	–	–	–	M5503	–	–	–
–	–	–	–	–	–	–	–	–	M7002	–	–	–
–	–	–	–	–	–	–	–	–	D7003	–	–	–
–	–	–	–	–	–	–	–	–	M8501	A 602 M8501	–	–
–	GGV-45	–	–	–	GJV-450	–	–	–	–	–	–	–
–	GGG--SiMo3.08	–	–	–	–	–	–	–	–	–	–	–
–	GGG--SiMo4.10	–	–	–	–	–	–	–	–	–	–	–
–	GGG--SiMo5.10	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	HPI C13 06
–	GGV-35	–	–	–	GJV-350	–	–	–	–	–	–	–
–	GGV-50	–	–	–	GJV-500	–	–	–	–	–	–	–

K3 Elenco dei materiali • Ghisa • K3

K3 Ghise duttili ad alta resistenza e ghisa duttile austemperata (ADI) *Resistenza alla trazione RM (MPa)*: >600* *Durezza (HB): 180–350 (HRC): <43*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	–	–	–	–	–	–	–	–	–	A 897 125-80-10	–	–
–	–	–	–	–	–	–	–	–	–	A 897 150-100-7	–	–
–	–	–	–	–	–	–	–	–	–	A 897 175-125-4	–	–
–	–	–	–	–	–	–	–	–	–	A 897 200-150-1	–	–
–	–	–	–	–	–	–	–	–	–	A 897 230-185	–	–

NOTA: Per la legenda, vedere a pagina Y217.

N1 Elenco dei materiali • Metalli non ferrosi • N1

N1 Alluminio lavorato

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
1080	Al99.8	–	1A	–	–	–	–	–	–	–	3.0128	–
1050	Al99.5	L 31	1B	–	–	A 59050 C	–	–	–	–	3.0255	–
–	SG-Al 99,5	–	–	–	–	–	–	–	–	–	3.0259	–
1070	Al99.7	–	–	–	–	–	4508	–	–	–	3.0275	–
3103	AlMn	–	N3	–	–	–	–	–	–	–	3.0515	–
3003	AlMnCu	–	–	–	–	–	–	–	–	–	3.0517	–
3005	AlMn1Mg0.5	–	–	–	–	–	–	–	–	–	3.0525	–
3004	AlMn1Mg1	–	–	–	–	–	–	–	–	–	3.0526	–
–	AlMgSiPb	–	–	–	–	–	–	–	–	–	3.0615	–
–	SG-Al 99,5Ti	–	–	–	–	–	–	–	–	–	3.0805	–
–	SG-Al 99,5 Ti	–	–	–	–	–	–	–	–	–	3.0805	–
2014	AlCuSiMn	–	H15	–	–	A-U4SG	3581	–	–	–	3.1255	–
2017	AlCuMg 1	–	–	–	AW-2017 A	A-U4G	3579	–	–	–	3.1325	–
2024	AlCuMg 2	–	L97	–	AW-2024	A-U4G1	–	–	–	–	3.1355	–
–	AlCuMgPb	–	–	–	–	–	–	–	–	–	3.1645	–
2011	AlCuBiPb	–	FC1	–	–	A-U5PbBi	6362	–	–	–	3.1655	–
6082	AlMgSi 1	–	H30	–	AW-6005 A	A-SGM0.7	3571	–	–	–	3.2315	–
6060	AlMgSi 0.5	–	–	–	–	–	–	–	–	–	3.3206	–
6063	AlMgSi0.7	–	H9	–	–	A-GS	3569	–	–	–	3.3206	–
6463	EAlMgSi0.5	–	91E	–	–	–	–	–	–	–	3.3207	–
5005	AlMg 1	–	N41	–	AW-6082	A-G0.6	5764-66	–	–	–	3.3315	–
5050	–	–	–	–	–	–	–	–	–	–	3.3316	–
5052	AlMg2.5	–	2L56	–	–	A-G2.5C	4574	–	–	–	3.3523	–
5754	AlMg 3	–	N5	–	–	A-G3M	3575	–	–	–	3.3535	–
5454	AlMg2.5Mn	–	N51	–	–	A-G2.5MC	7789	–	–	–	3.3537	–
5086	AlMg4Mn	–	–	–	–	–	–	–	–	–	3.3545	–
–	SG-Al Mg 4,5 Mn Zr	–	–	–	–	–	–	–	–	–	3.3546	–
5083	AlMg4,5Mn	–	N8	–	–	A-G4.5MC	7790	–	–	–	3.3547	–
5056	AlMg5	–	N6	–	–	A-G5	3576	–	–	–	3.3549	–
–	AlMg 5	–	–	–	–	–	–	–	–	–	3.3555	–
7050	AlZnMgCu0,5	L 86	–	–	–	AZ 4 GU/9051	811-04	–	–	–	3.4144	–
7020	AlZn4.5Mg1	–	H17	–	–	A-Z5G	–	–	–	–	3.4335	–
7022	AlZnMgCu0.5	–	–	–	–	–	–	–	–	–	3.4345	–
–	AlZn5,5MgCu	–	–	–	–	–	–	–	–	–	3.4365	–
7075	AlZnMgCu 1.5	–	DTD5074	A97075	AL-P7075	A-Z5GU	3735	–	7075	–	3.4365	–
1000	Al99.5H	L31	–	–	–	A59050C	–	–	–	–	3.0250	–
–	Al99.8	–	–	–	–	–	–	–	–	–	3.0280	–
–	AlMg3Mn	–	–	–	–	–	–	–	–	–	–	–
2025	–	–	A 2025 FD	A92025	–	–	–	–	2025	B 247 2025	–	–
1100	–	–	–	–	–	–	–	–	–	–	–	–
3105	–	–	–	–	–	–	–	–	–	–	–	–
5657	AlMg0.8Si	–	–	–	–	–	–	–	–	–	–	–
6070	–	–	–	–	–	–	–	–	–	–	–	–
6262	–	–	–	–	–	–	–	–	–	–	–	–
7003	–	–	–	–	–	–	–	–	–	–	–	–
2050	–	–	–	–	–	–	–	–	–	–	–	–
7475	–	–	–	–	–	–	–	–	–	–	–	–
7175	–	–	–	–	–	–	–	–	–	–	–	–
7178	–	–	–	–	–	–	–	–	–	–	–	–
5251	AlMg2Mo3	–	N4	–	–	A-G2M	3574	–	–	–	–	–
6151	–	–	–	–	–	–	–	–	–	–	–	–
7001	–	–	–	–	–	–	–	–	–	–	–	–
7040	–	–	–	–	–	–	–	–	–	–	–	–

N2 Elenco dei materiali • Metalli non ferrosi • N2

N2 Leghe di alluminio a basso contenuto di silicio e leghe di magnesio *Contenuto: Si <12,2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	SG-Al99.8	–	–	–	–	–	–	–	–	–	3.0286	–
–	G-AlCu 4 TiMg	–	–	–	–	–	–	–	–	–	3.1371	–
–	G-AlCu 4 TiMg	–	–	–	–	–	–	–	–	–	3.1371	–
–	G-AlCu 5 Ni 1,5	–	–	–	–	–	–	–	–	–	3.1754	–
–	G-AlCu 4 Ti	–	–	–	–	–	–	–	–	–	3.1841	–
–	G-AlSi 5 Cu 1	–	–	–	–	–	–	–	–	–	3.2131	–
–	G-AlSi 6 Cu 4	–	–	–	–	–	–	–	–	–	3.2151	–
–	G-AlSi 8 Cu 3	–	–	–	–	–	–	–	–	–	3.2161	–
–	G-AlSi 9 Cu 3	–	–	–	–	–	–	–	–	–	3.2163	–
–	G-AlSi 1 1	–	–	–	–	–	–	–	–	–	3.2211	–
–	SG-AlSi 5	–	–	–	–	–	–	–	–	–	3.2245	–
–	SG-AlSi 5	–	–	–	–	–	–	–	–	–	3.2245	–
–	G-AlSi 5 Mg	–	–	–	–	–	–	–	–	–	3.2341	–
4218 B	G-AlSi 7 Mg	–	–	–	–	–	–	–	–	–	3.2371	–
–	G-AlSi 9 Mg	–	–	–	–	–	–	–	–	–	3.2373	–
–	G-AlSi 10 Mg	–	–	–	–	–	–	–	–	–	3.2381	–
–	G-D AlSi 10 Mg	–	–	–	–	–	–	–	–	–	3.2382	–
A 360.2	G-AlSi 10 Mg(Cu)	LM 9	–	–	–	–	–	4253	–	–	3.2383	–
A 413.0	G-D AlSi 12	–	–	–	–	–	–	4247	–	–	3.2582	–
–	SG-AlSi 12	–	–	–	–	–	–	–	–	–	3.2585	–
–	G-D AlSi 12(Cu)	–	–	–	–	–	–	–	–	–	3.2982	–
6061	AlMgSiCu	–	H20	–	–	A-GSUC	6170	–	–	–	3.3211	–
–	G-AlMg 3 Si	–	–	–	–	–	–	–	–	–	3.3241	–
–	G-AlMg 5 Si	–	–	–	–	–	–	–	–	–	3.3261	–
–	G-D AlMg 9	–	–	–	–	–	–	–	–	–	3.3292	–
–	G-AlMg5Si(Cu,Mn)	–	–	–	–	–	–	–	–	–	3.3458	–
–	SG-AlMg 3	–	–	–	–	–	–	–	–	–	3.3536	–

(continua)

N2 Elenco dei materiali • Metalli non ferrosi • N2 *(continua)*

N2 Leghe di alluminio a basso contenuto di silicio e leghe di magnesio *Contenuto: Si <12,2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	G-AlMg 3	–	–	–	–	–	–	–	–	–	3.3541	–
–	SG-AlMg 4,5 Mn	–	–	–	–	–	–	–	–	–	3.3548	–
–	SG-AlMg 5	–	–	–	–	–	–	–	–	–	3.3556	–
–	G-AlMg 5	–	–	–	–	–	–	–	–	–	3.3561	–
ZE 41	G-MgZn 4 SE 1 Zr 1	MAG 5	–	–	MCMgZn 4 RE 1 Zr	G-Z 4 TR	–	–	–	–	3.5101	–
–	G-MgZn 5 Th 2 Zr 1	–	–	–	–	–	–	–	–	–	3.5102	–
EZ 33	MgSE 3 Zn 2 Zr 1	MAG 6	–	–	MCMgRE 3 Zn 2 Zr	G-TR 3 Z 2	–	–	–	–	3.5103	–
–	MgAl 9 Zn 1	–	–	–	–	–	–	–	–	–	3.5104	–
–	G-MgTh 3 Zn 2 Zr 1	–	–	–	–	–	–	–	–	–	3.5105	–
QE 22	G-MgAg 3 SE 2 Zr 1	MAG 12	–	–	MCMgRE 2 Ag 2 Zr	G-Ag 22,5	–	–	–	–	3.5106	–
–	G-D MgAl 6 Zn 1	–	–	–	–	–	–	–	–	–	3.5612	–
–	G-D MgAl 6	–	–	–	–	–	–	–	–	–	3.5662	–
AZ 81	G-MgAl 8 Zn 1	MAG 1	–	–	MCMgAl 8 Zn 1	G-A 9	–	–	–	–	3.5812	–
AZ 91	G-MgAl 9 Zn 1	MAG 7	–	–	MCMgAl 9 Zn 1	G-A 9 Z 1	–	–	–	–	3.5912	–
–	G-MgAl 8 Zn 1	–	–	–	–	–	–	–	–	–	3.5200	–
AS 41	G-D MgAl 4 Si 1	–	–	–	MCMgAl4Si	G-A4S 1	–	–	–	–	3.5470	–
–	G-AlZn10Si8Mg	–	–	–	–	–	–	–	–	–	–	–
AS 7 G	AlSi7Mg	–	–	–	–	–	–	–	–	–	–	–
2117	–	–	–	–	–	–	–	–	–	–	–	–
2218	AlCuMgNi2	–	–	–	–	–	–	–	–	–	–	–
2091	–	–	–	–	–	–	–	–	–	–	–	–
8090	–	–	–	–	–	–	–	–	–	–	–	–
2090	–	–	–	–	–	–	–	–	–	–	–	–
2224	–	–	–	–	–	–	–	–	–	–	–	–
2094	–	–	–	–	–	–	–	–	–	–	–	–
2095	–	–	–	–	–	–	–	–	–	–	–	–
2097	–	–	–	–	–	–	–	–	–	–	–	–
2098	–	–	–	–	–	–	–	–	–	–	–	–
2099	–	–	–	–	–	–	–	–	–	–	–	–
2195	–	–	–	–	–	–	–	–	–	–	–	–
2196	–	–	–	–	–	–	–	–	–	–	–	–
2197	–	–	–	–	–	–	–	–	–	–	–	–
2198	–	–	–	–	–	–	–	–	–	–	–	–
2297	–	–	–	–	–	–	–	–	–	–	–	–
2397	–	–	–	–	–	–	–	–	–	–	–	–
8017	–	–	–	–	–	–	–	–	–	–	–	–
8024	–	–	–	–	–	–	–	–	–	–	–	–
8091	–	–	–	–	–	–	–	–	–	–	–	–
8093	–	–	–	–	–	–	–	–	–	–	–	–
2199	–	–	–	–	–	–	–	–	–	–	–	–

N3 Elenco dei materiali • Metalli non ferrosi • N3

N3 Leghe di alluminio ad alto contenuto di silicio e leghe di magnesio *Contenuto: Si >12,2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
A 413.1	G-AlSi 12(Cu)	LM 20	–	–	–	–	–	4260	–	–	3.2583	–
A 413.2	G-AlSi 12	LM 6	–	–	–	–	–	4261	–	–	3.2581	–
–	G-AlSi17Cu4Mg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi18CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi21CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi12CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi25CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	G-AlSi 21 CuNiMg	–	–	–	–	–	–	–	–	–	–	–
4032	–	–	–	–	–	–	–	–	–	–	–	–

N4 Elenco dei materiali • Metalli non ferrosi • N4

N4 A base di rame, ottone e zinco con indice di lavorabilità di 70–100

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
C 11000	E-Cu 58	C 101	–	–	–	Cn-a2	–	–	–	–	2.0065	–
C 81100	G-CuL 45	HCC 1	–	–	–	–	–	–	–	–	2.0082	–
C 81100	G-Cu L 50	HCC 1	–	–	–	–	–	–	–	–	2.0085	–
–	CuZn 40 MnPb	–	–	–	–	–	–	–	–	–	2.0241	–
C 26000	CuZn 30	CZ 102	C 2600	–	–	CuZn 30	–	–	–	–	2.0265	–
C 27200	CuZn 37	CZ 108	–	–	–	CuZn 37	C 2720	–	–	–	2.0321	–
–	CuZn 36 Pb 1.5	–	–	–	–	–	–	–	–	–	2.0331	–
–	S-CuZn40	–	–	–	–	–	–	–	–	–	2.0366	–
–	CuZn 39 Pb 3 + D567	–	–	–	–	–	–	–	–	–	2.0401	–
–	CuZn 40 Pb 2	–	–	–	–	–	–	–	–	–	2.0402	–
B-198	G-CuZn 15Si 4	–	–	–	–	–	–	–	–	–	2.0492	–
–	CuZn 40Al 1	–	–	–	–	–	–	–	–	–	2.0561	–
–	G-KCuZn 38 Al	–	–	–	–	–	–	–	–	–	2.0591	–
C 86500	G-CuZn 35 Al 1	HTB 1	–	–	–	U-Z 36 N 3	–	–	–	–	2.0592	–
–	G-KCuZn 37 Al 1	–	–	–	–	–	–	–	–	–	2.0595	–
C 86200	G-CuZn 34 Al 2	HTB 1	–	–	–	U-Z 36 N 3	–	–	–	–	2.0596	–
–	G-CuZn 25 Al 5	–	–	–	–	–	–	–	–	–	2.0598	–
–	S-CuNi 30 Fe	–	–	–	–	–	–	–	–	–	2.0837	–
–	CuNi 10 Fe 1 Mn	–	–	–	–	–	–	–	–	–	2.0872	–

NOTA: Per la legenda, vedere a pagina Y217.

(continua)

N4 Elenco dei materiali • Metalli non ferrosi • N4 *(continua)*

N4 A base di rame, ottone e zinco con indice di lavorabilità di 70–100

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	S - CuNi 10 Fe	–	–	–	–	–	–	–	–	–	2.0873	–
–	CuNi 30 Mn 1 Fe	–	–	–	–	–	–	–	–	–	2.0882	–
–	SG-Cu Al 8	–	–	–	–	–	–	–	–	–	2.0921	–
–	SG-CuAl 8 Ni 2	–	–	–	–	–	–	–	–	–	2.0922	–
–	SG-CuAl 9 Ni5 Fe	–	–	–	–	–	–	–	–	–	2.0927	–
–	CuAl 10 Fe 3 Mn 2	CA 103	–	–	–	U-A 10 Fe	–	–	–	–	2.0936	–
–	SG-Cu Al 10 Fe	–	–	–	–	–	–	–	–	–	2.0937	–
C 63000	CuAl 10 Ni 5 Fe 4	Ca 104	–	–	–	U-A 10 N	–	–	–	–	2.0966	–
B-148-52	G-CuAl 10 Ni	–	–	–	–	–	–	–	–	–	2.0975	–
–	SG-Cu Sn	–	–	–	–	–	–	–	–	–	2.1006	–
–	SG-Cu Sn 6	–	–	–	–	–	–	–	–	–	2.1022	–
C 90800	G-CuSn 12	Pb 2	–	–	–	UE 12 P	–	–	–	–	2.1052	–
–	G-CuSn 12 Pb	–	–	–	–	–	–	–	–	–	2.1061	–
–	G-CuSn 10 Zn	–	–	–	–	–	–	–	–	–	2.1086	–
C 93200	G-CuSn 7 ZnPb	–	–	–	–	U-E 7 Z 5 Pb 4	–	–	–	–	2.1091	–
–	G-CuSn 6 ZnNi	LG 4	–	–	–	–	–	–	–	–	2.1093	–
C 83600	G-CuSn 5 ZnPb	LG 2	–	–	–	U-E 5 Pb 5 Z 5	–	–	–	–	2.1096	–
–	G-CuSn 2 ZnPb	–	–	–	–	–	–	–	–	–	2.1098	–
C 93700	G-CuPb 10 Sn	LB 2	–	–	–	U-E 10 Pb 10	–	–	–	–	2.1176	–
C 93800	G-CuPb 15 Sn	LB 1	–	–	–	U-Pb 15 E 8	–	–	–	–	2.1182	–
C 94100	G-CuPb 20 Sn	LB 5	–	–	–	U-Pb 20	–	–	–	–	2.1188	–
C 81500	G-CuCrF 35	CC1-FF	–	–	–	–	–	–	–	–	2.1292	–
C 18200	CuCrZr	CC 102	–	–	–	U-Cr 0,8 Zr	–	–	–	–	2.1293	–
–	SG-Cu Mn 13 Al 7	–	–	–	–	–	–	–	–	–	2.1367	–
–	SG-Cu Si 3	–	–	–	–	–	–	–	–	–	2.1461	–
CuSi 3 Mn	–	–	–	–	–	–	–	–	–	–	2.1525	–
–	OF-Cu	–	–	–	–	–	–	–	–	–	2.0040	–
B-120	E-Cu 57	–	–	–	–	–	–	–	–	–	2.0060	–
C 10300	SE-Cu	C 101	–	–	–	Cu-c1	–	–	–	–	2.0070	–
–	CuZn 5	–	–	–	–	–	–	–	–	–	2.0220	–
C 23000	CuZn 15	CZ 102	C 2300	–	–	CuZn 15	–	–	–	–	2.0240	–
–	G-CuZn 33 Pb	–	–	–	–	–	–	–	–	–	2.0290	–
–	CuZn 36 Pb 2	–	–	–	–	–	–	–	–	–	2.0330	–
–	G-CuZn 37 Pb	–	–	–	–	–	–	–	–	–	2.0340	–
–	CuZn 40	–	–	–	–	–	–	–	–	–	2.0360	–
–	CuZn 39 Pb 2	–	–	–	–	–	–	–	–	–	2.0380	–
–	CuZn 20 Al 2	–	–	–	–	–	–	–	–	–	2.0460	–
–	CuZn 37Al 1	–	–	–	–	–	–	–	–	–	2.0510	–
–	CuZn 40 Al 2	–	–	–	–	–	–	–	–	–	2.0550	–
–	G-CuZn 40 Fe	–	–	–	–	–	–	–	–	–	2.0590	–
–	G-CuAl 10 Fe	–	–	–	–	–	–	–	–	–	2.0940	–
C 90700	G-CuSn 10	CT 1	–	–	–	–	–	–	–	–	2.1050	–
C 91700	G-CuSn 12 Ni	–	–	–	–	–	–	–	–	–	2.1060	–
–	C35100	–	–	–	–	–	–	–	–	–	–	–
–	17665	–	–	C95500	–	–	–	–	–	–	–	–
–	MS60	–	–	–	–	–	–	–	–	–	–	–

N5 Elenco dei materiali • Metalli non ferrosi • N5

N5 Nylon, materie plastiche, gomme, fenoli, resine, fibra di vetro

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	LEXAN	–	–	–	–	–	–	–	–	–	–	–
–	HOSTALEN	–	–	–	–	–	–	–	–	–	–	–
–	Polistirolo	–	–	–	–	–	–	–	–	–	–	–
–	Makralon	–	–	–	–	–	–	–	–	–	–	–

N6 Elenco dei materiali • Metalli non ferrosi • N6

N6 Materiali compositi in carbonio e grafite, CFRP

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	GFK	–	–	–	–	–	–	–	–	–	–	–
–	CFK	–	–	–	–	–	–	–	–	–	–	–
Grafite	–	–	–	–	–	–	–	–	–	–	–	–
CFRP	–	–	–	–	–	–	–	–	–	–	–	–

S1 Elenco dei materiali • Leghe resistenti al calore • S1

S1 Leghe a base di ferro resistenti al calore *Resistenza alla trazione RM (MPa)*: 500–1200* *Durezza (HB): 160–260 (HRC): 25–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	X 10 Cr 25	–	–	–	–	–	–	–	–	–	1.3811	–
–	D 1 a	–	–	–	–	–	–	–	–	–	1.3915	–
–	D 3	BD 3	–	–	X 210 Cr 1 2	Z 200 C 12	X 205 Cr 12 KU	–	–	–	1.3916	–
–	RNi 12	–	–	–	–	–	–	–	–	–	1.3926	–
–	RNi 8	–	–	–	–	–	–	–	–	–	1.3927	–
–	GX 2 NiCoMoTi1 7 10	–	–	–	–	–	–	–	–	–	1.6351	Maraging
6501, 6512, 6520	X 2 NiCoMo 18 8 5	–	–	UNS K92890	S162	Z2NKD18.8	–	–	–	ASTM A646	1.6359	ATI VascoMax® C-250
–	X 2 NiCoMo 18-8-5	–	–	K92890	–	–	–	–	–	–	1.6359	Maraging
–	X 1 CrNiCoMo 13 8 5	–	–	–	–	–	–	–	–	–	–	Maraging
–	Ni 36	–	–	–	–	–	–	–	–	–	1.3910	Magnifer 36
–	Ni 46	–	–	–	–	–	–	–	–	–	1.3920	–
–	X 2 CrNiCoMo 12 8 5	–	–	–	–	–	–	–	–	–	1.6980	Maraging
ASTM B463	–	–	–	UNS N08020	–	–	–	–	–	ASTM B463	2.4660	20CB-3
ASTM A666	–	–	–	–	–	–	–	–	–	ASTM A666	–	6/21/09
ASTM B753	–	–	–	–	–	–	–	–	–	ASTM B753	–	AL 4750
S66286	–	–	NAS 660	UNS S66286	–	–	A-286	–	–	–	–	ATI A286™
–	–	–	–	UNS K92810	–	–	–	–	–	–	–	ATI VascoMax® C-200
6514	–	–	–	UNS K93120	–	–	–	–	–	–	–	ATI VascoMax® C-300
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® C-350
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-200
6518, 6519, 6591	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-250
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-300
5725	–	–	–	–	–	Z3NCT25	–	–	SAE 16-25-6	–	–	Discaloy 16-25-6
ASTM A638	–	–	–	–	–	Z3NCT25	–	–	Discaloy	ASTM A638	–	Discaloy 24
–	–	–	–	R30556	–	–	–	–	–	–	–	Haynes® 556
5768	X 12 CrCoNi 21 20	–	–	–	–	Z12CKNDWNb21.20.20	–	–	–	–	–	Haynes 556
ASTM F30	–	–	–	–	–	–	–	–	Invar	ASTM F30	–	Invar 42
5768	–	–	–	UNS R30155	–	Z12CNKDW20	–	–	–	–	–	Multimet N-155
–	–	–	–	–	–	–	–	–	–	–	–	Multimet N-156
5533	X 40 CoCrNi 20 20	–	–	–	–	Z42CKNDW	–	–	–	–	–	S 590
–	X 2 NiCrAlTi 32 20	–	–	–	–	–	–	–	–	–	–	Sanicro 30
AISI:665	–	–	–	–	–	Z8NCTDA2613	–	–	–	–	–	W-545

S2 Elenco dei materiali • Leghe resistenti al calore • S2

S2 Leghe a base di cobalto resistenti al calore *Resistenza alla trazione RM (MPa)*: 1000–1450* *Durezza (HB): 250–450 (HRC): 25–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	CoCr 26 Ni 9 Mo	–	–	–	–	–	–	–	–	–	2.4681	–
–	CoCr 25 NiW	–	–	–	–	KC25WN	–	–	–	ASTM A567	2.4682	Stellite® 31 (X40)
–	CoCr 22 NiW	–	–	–	–	–	–	–	–	–	2.4683	–
–	CoCr 28 Mo	–	–	–	–	KC27D5NFe	–	–	–	ASTM F-75	2.4691	HS 21
–	CoCr 20 Ni 15 Mo	–	–	–	–	–	–	–	–	–	2.4711	–
–	CoCr 29 Mo	–	–	–	–	–	–	–	–	–	2.4723	–
–	CoCr 33 W	–	–	–	–	–	–	–	–	–	2.4775	–
–	CoCr 28	–	–	–	–	–	–	–	–	–	2.4778	–
–	CoCr 28 Nb	–	–	–	–	–	–	–	–	–	2.4779	–
–	–	–	–	–	–	–	–	–	–	ASTM F90	2.4964	F 90
–	–	–	–	R30605	–	KC20WN	–	–	–	–	2.4964	Haynes 25
–	CoCr 20 W 15 Ni	HR 240	–	R30605	–	KC20WN	–	–	–	5759	2.4964	L 605
–	CoCr 20 W 15 Ni	–	–	Versione CAST di L605	–	KC20WN	–	–	–	5759	2.4964	Stellite 25
AMS 5399	NiCr 19 Co 11 MoTi	–	–	–	–	NC 19 KDT	–	–	–	–	2.4973	–
–	CoCr 20 Ni 20 W	–	–	–	–	–	–	–	–	5534	2.4979	S 816
–	CoCr20NiW	–	–	–	–	–	–	–	–	–	2.4989	–
–	–	–	–	R31537 & R31538	–	CoCr28Mo	–	–	–	ASTM F1537	–	F 1537
–	–	–	–	–	–	–	–	–	–	ASTM F562	–	F 562
–	–	–	–	–	–	–	–	–	–	ASTM F563	–	F 563
–	–	–	–	R30188	–	KC22N22W14Fe	–	–	–	–	–	Haynes 188
AISI 670	CoCr 20 W 15 Ni	–	–	–	–	KC20WN	–	–	–	–	–	HS 25
–	CoCr 26 Ni 14 Mo	–	–	–	–	–	–	–	–	5380	–	HS 30
–	CoCr 19 W 14 NiB	–	–	–	–	–	–	–	–	–	–	HS 36
–	–	–	–	–	–	–	–	–	–	–	–	L 251
–	CoCrW 10 TaZrB	–	–	–	–	KC21W10Ta9	–	–	–	–	–	MAR-M 302
–	CoCr 22 W 9 TaZrNb	–	–	–	–	KC21W9Ta	–	–	–	–	–	MAR-M 322
–	CoCr 24 Ni 10 WTaZrB	–	–	–	–	KC23N10W7Ta	–	–	–	–	–	MAR-M 509
–	–	–	–	–	–	KC20N20Ta7	–	–	–	–	–	MAR-M 905
–	CoCr 20 Ni 20 Ta	–	–	–	–	KC20N20Ta7	–	–	–	–	–	MAR-M 918
–	–	–	–	R30159	–	–	–	–	–	–	–	MP159
–	–	–	–	R30035	–	–	–	–	–	–	–	MP35N
–	–	–	–	–	–	KC33W13	–	–	–	–	–	Stellite 1
–	–	–	–	–	–	KC28W8	–	–	–	–	–	Stellite 12
–	–	–	–	–	–	KC22N22W14Fe	–	–	–	–	–	Stellite 188
–	–	–	–	–	–	KC26NW	–	–	–	–	–	Stellite 6
–	–	–	–	–	–	–	–	–	–	–	–	Stellite 8 (F75)
–	CoCr 25 Ni 20 MoWNb	–	–	–	–	KC25N20DFeWNb	–	–	–	–	–	V-36
–	CoCr 21 Mo 11 W	–	–	–	–	KC21W11ANbT	–	–	–	–	–	WI-52
–	–	–	–	–	–	KC25N10W7Fe	–	–	–	–	–	X 45
–	–	–	–	–	–	–	–	–	J-1570	–	–	–
–	K13C20N126Fe15D7	–	–	R3003 & R3008	–	K13C20N126Fe15D7	–	–	–	ASTM F1058	–	–

NOTA: Per la legenda, vedere a pagina Y217.

S3 Elenco dei materiali • Leghe resistenti al calore • S3

S3 Leghe a base di nichel resistenti al calore *Resistenza alla trazione RM (MPa)*: 600–1700* *Durezza (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	X 7 NiCrCoMo 54 20	–	–	–	–	–	–	–	–	–	1.2789	–
–	Ni 99,7 Mg 0,07	–	–	J24053	–	–	–	–	–	A 915 J24053	2.4053	–
–	LC-Ni 99,6	–	–	N02201	–	–	–	–	–	–	2.4061	–
–	–	–	–	N02200	–	–	–	–	–	–	2.4066	200
Nichel 200	Ni 99,2	NA 11	–	N02200	–	–	–	–	–	–	2.4066	–
–	–	–	–	N02201	–	–	–	–	–	–	2.4068	201
Nichel 201	LC-Ni 99	NA 12	–	–	–	–	–	–	–	–	2.4068	–
–	NiMn 1	–	–	–	–	–	–	–	–	–	2.4106	–
–	NiMn 1 C	–	–	–	–	–	–	–	–	–	2.4108	–
–	NiMn 1,5	–	–	–	–	–	–	–	–	–	2.4109	–
–	NiMn 3 Al	–	–	–	–	–	–	–	–	–	2.4122	–
–	NiMn 3 SiMg	–	–	–	–	–	–	–	–	–	2.4126	–
–	NiCr 2 Mn	–	–	–	–	–	–	–	–	–	2.4145	–
–	NiCr 2 MnSi	–	–	–	–	–	–	–	–	–	2.4146	–
–	NiCr 5 MnSi	–	–	–	–	–	–	–	–	–	2.4151	–
–	SG-NiTi 4	NA32	–	–	NA 32	–	–	–	–	–	2.4155	–
CZ-100	G-Ni 93 C	–	–	–	–	–	–	–	–	–	2.4175	–
–	NiCr 4 Mn	–	–	–	–	–	–	–	–	–	2.4199	–
M 35-1/2	G-NiCu 30 Nb	–	–	N24030	–	–	–	–	–	–	2.4365	–
–	EL-NiCu 30 Mn	–	–	N04402	–	–	–	–	–	–	2.4366	–
M 30-H	G-NiCu 30 Si 3	–	–	–	–	–	–	–	–	–	2.4367	–
M-255	G-NiCu 30 Si 4	–	–	–	–	–	–	–	–	–	2.4368	–
–	NiCu 30 Al	–	–	–	–	–	–	–	–	–	2.4374	–
–	NiCu 30 Al	NA 18	–	N05500	3072.76	NU 30 AT	–	–	–	–	2.4375	Monel® K500
–	SG-NiCu 30 MnTi	NA 33	–	–	–	–	–	–	–	–	2.4377	–
–	NiFe 16 CuCr	–	–	–	–	–	–	–	–	–	2.4501	–
–	G-NiMo 16 CrW	–	–	–	–	–	–	–	–	–	2.4537	–
–	NiCr 21 Mo 14 W	–	–	N26022	–	–	–	–	–	–	2.4602	INCONEL® alloy 622
–	NiCr 30 FeMo	–	–	–	–	–	–	–	–	–	2.4603	Hastelloy® G-30
–	–	–	–	N06059	–	–	–	–	–	ASTM B575	2.4605	Allcorr
–	NiCr 23 Mo 16 Al	–	–	–	–	–	–	–	–	–	2.4605	–
–	SG/UP-NiCr 23 Mo 16	–	–	–	–	–	–	–	–	–	2.4607	–
–	NiCr 26 MoW	–	–	–	–	–	–	–	–	–	2.4608	–
–	SG-NiMo 27	–	–	–	–	–	–	–	–	–	2.4615	–
–	NiMo 28	–	–	N10665	–	NiMo 28	–	–	–	–	2.4617	–
–	NiCr 22 Mo 6 Cu	–	–	–	–	–	–	–	–	–	2.4618	–
–	–	–	–	N06985	–	–	–	–	–	–	2.4619	Hastelloy G-3
–	NiCr 22 Mo 7 Cu	–	–	N06985	–	–	–	–	–	–	2.4619	–
–	SG-NiCr 23 Al	NA 49	–	–	–	–	–	–	–	–	2.4626	–
–	SG-NiCr 22 Co 12 Mo	NA 50	–	–	–	–	–	–	–	–	2.4627	–
–	NiCr 20 Ti	HR5	–	N06075	HR5, 203.4	NC 20 T	–	–	–	–	2.4630	Nimonic® 75
–	NiCr 20 TiAl	NA 20	NCF 80A	N07080	HR401, 601	NC 20 TA	–	–	–	–	2.4631	Nimonic 80A
–	NiCr 20 Co 18 Ti	NA 36	–	N07090	HR2, 202	NC20KTA	–	–	–	–	2.4632	Nimonic 90
–	NiCo 20 Cr 15 MoAlTi	–	–	N13021	HR3	NCKD20ATV	–	–	–	–	2.4634	Nimonic 105
–	NiCo 15 Cr 15 MoAlTi	HR4	–	–	HR401, 601	NCVK15ATD	–	–	–	–	2.4636	Nimonic 115
AISI 687	NiCo 15 Cr 15 MoAlTi	–	–	–	–	NCKD20AT	–	–	–	–	2.4636	Udimet® 700
–	NiCr 22 Mo 8 AlCuTi	–	–	–	–	–	–	–	–	–	2.4637	–
–	SG-NiCr 20	NA 34	–	–	–	–	–	–	–	–	2.4639	–
–	NiCr 21 Mo 6 Cu	–	NCF 600 TP	–	–	–	–	–	–	–	2.4641	–
–	NiCr 29 Fe	–	NCF 690	N06690	–	NC 30 Fe	–	–	–	–	2.4642	Lega INCONEL® 690
–	NiCr 25 FeAlYC	–	–	–	–	–	–	–	–	–	2.4647	–
–	NiCr 20 CoMoTi	NA 38	NCF 690	N07263	HR10	NCK 20 D	–	–	–	–	2.4650	Nimonic C263
–	EL-NiCr 26 Mo	–	–	–	–	–	–	–	–	–	2.4652	–
–	NiCr 19 Co 14 Mo 4 Ti	–	–	N07001	–	NC20K14Y	–	–	–	–	2.4654	Waspaloy
–	SG-NiCr 29 Mo	–	–	–	–	–	–	–	–	–	2.4656	–
–	NiCr 70 30	–	–	N06008	–	–	–	–	–	–	2.4658	–
–	SG-NiCr 30 Mo 5 W	–	–	–	–	–	–	–	–	–	2.4659	–
–	EL-NiCr 29 Mo 5 W	–	–	–	–	–	–	–	–	–	2.4661	–
–	NiFe 35 Cr 14 MoTi	–	–	N09901	–	Z8NCDT42	–	–	–	–	2.4662	INCOLOY® 901
–	NiCr 13 Mo 6 Ti 3	–	–	N09901	–	Z8NCDT42	–	–	–	–	2.4662	Nimonic 901
–	NiCr 23 Co 12 Mo	–	–	N06617	–	NC22K12D9A	–	–	–	–	2.4663	Lega INCONEL® 617
–	NiCr 22 FeMo	–	–	N06002	HR6, 204	NC22FeD	–	–	–	–	2.4665	Hastelloy X
–	NiCr 22 Fe 18 Mo	NA 40	–	N06002	–	NC22FeD	–	–	–	–	2.4665	Lega INCONEL HX
–	NiCr 18 CoMo	–	–	–	–	NKCD20ATU	–	–	–	–	2.4666	Nimonic PK25
–	SG-NiCr 19 NbMoTi	NA 51	–	–	–	–	–	–	–	–	2.4667	–
–	NiCr 19 FeNbMo	–	–	N07718	HR8	NC 19 Fe Nb	–	–	–	–	2.4668	Lega INCONEL 718
–	NiCr 15 Fe 7 TiAl	–	–	N07750	–	NC 15 Fe 7 TA	–	–	–	–	2.4669	Lega INCONEL X750
–	G-NiCr 12 Al 6 MoNb	–	–	–	–	–	–	–	–	–	2.4671	–
–	G-NiCr 20 Co 20 MoTi	–	–	–	–	–	–	–	–	–	2.4672	–
–	NiCo 15 Cr 10 MoAlTi	–	–	N13100	–	NK15CAT	–	–	–	–	2.4674	IN 100
–	NiCo 15 Cr 10 MoAlTi	–	–	–	–	NK15C10A5T	–	–	–	–	2.4674	René 100
–	G-NiCo 15 Cr 10 AlTiMo	–	–	–	–	–	–	–	–	–	2.4674	–
–	G-NiCo 10 W 10 CrAlNb	–	–	–	–	–	–	–	–	–	2.4676	–
–	G-NiCr 50	–	–	–	–	–	–	–	–	–	2.4678	–
–	G-NiCr 35	–	–	–	–	–	–	–	–	–	2.4679	–
–	–	–	–	N10665	–	–	–	–	–	N7M	2.4685	Hastelloy B-2
CW-12 MW	G-NiMo 17 CrW	–	–	–	–	–	–	–	–	–	2.4686	–
–	NiCr 25 Mo 7 Ti	–	–	–	–	–	–	–	–	–	2.4693	–
–	NiCr 16 Fe 7 TiAl	–	–	N 07751	–	–	–	–	–	–	2.4694	Lega INCONEL 751
–	G-NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4697	–
–	NiCr 22 W 14 Mo	–	–	–	–	–	–	–	–	–	2.4733	–
–	NiCr 20 AlY	–	–	–	–	–	–	–	–	–	2.4764	–
–	NiCr 17 AlWY	–	–	–	–	–	–	–	–	–	2.4765	–
–	SG-NiCr 20 Nb	NA 35	–	–	–	–	–	–	–	–	2.4806	–
–	G-NiCr 50 Nb	–	–	–	–	–	–	–	–	–	2.4813	–
–	NiCr 15 Fe	NA 14	NCF 600	N06600	3072.76	NC 15 Fe	–	–	–	–	2.4816	Lega INCONEL 600
–	G-NiMo 30	–	–	N10276	–	NC 15 D 14 KFe	–	–	–	–	2.4819	Hastelloy C-276
ASME SB575	NiMo 16 Cr 15 W	–	–	N10276	–	NC 17 D	–	–	–	–	2.4819	Nimonic C276

(continua)

S3 Elenco dei materiali • Leghe resistenti al calore • S3 *(continua)*

S3 Leghe a base di nichel resistenti al calore *Resistenza alla trazione RM (MPa)*: 600–1700* *Durezza (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	SG-NICr 21 Mo 9 Nb	–	–	–	–	–	–	–	–	–	2.4831	–
–	NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4836	–
–	SG-NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4839	–
–	–	–	–	N06601	–	–	–	–	–	–	2.4851	Haynes® 601
–	NiCr 23 Fe	–	NCF 601	N06601	–	NC 23 Fe 14 A	–	–	–	–	2.4851	Lega INCONEL 601
–	NiFe 33 Cr 25 Co	–	–	–	–	–	–	–	–	–	2.4854	–
–	NiCr 19 Mo 9 Si	–	–	–	–	–	–	–	–	–	2.4855	–
ASME SB443	NiCr 22 Mo 9 Nb	–	–	N06625	–	NC 22 Fe DNb	–	–	–	–	2.4856	Haynes 625
ASME SB443.4	NiCr 22 Mo 9 Nb	NA 21	NCF 625	N06625	–	NC 22 Fe DNb	–	–	–	–	2.4856	Lega INCONEL 625
ASME SB163	NiCr 21 Mo	–	–	N08825	3072.76	NC21FeDU	–	–	–	–	2.4858	INCOLOY® 825
–	NiCr 60 15	–	–	–	–	–	–	–	–	–	2.4867	–
–	NiCr 80 20	–	–	–	–	–	–	–	–	–	2.4869	–
–	NiCr 20 AlSi	–	–	–	–	–	–	–	–	–	2.4872	–
–	G-NiCr 28 W	–	–	–	–	–	–	–	–	–	2.4879	Centralloy® 4879
–	NiCr 17 Mo 17 FeW	–	–	N10002	–	NC17DWY	–	–	–	CW12MW	2.4883	Hastelloy C
–	G-NiMo 16 Cr	–	–	–	–	–	–	–	–	–	2.4883	–
–	SG-NiMo 16 cr 16 W	NA 48	–	–	–	–	–	–	–	–	2.4886	–
–	G-NiCr 13 MoAl	–	–	–	–	–	–	–	–	–	2.4888	–
–	NiCr 20 Ti	HR 5	–	N06621	–	NC 20 T	–	–	–	–	2.4951	–
–	NiCr 20 TiAl	NA 20	NCF 80 A	N07080	–	NC 20 TA	–	–	–	–	2.4952	–
–	NiFe 25 Cr 20 NbTi	–	–	–	NiFe 25 Cr 20 NbTi	–	–	–	–	–	2.4955	–
–	NiCr 20 Co 18 Ti	NA 19	–	N07090	–	–	–	–	–	–	2.4969	–
–	NiCr 22 W 12 Fe	–	–	–	–	–	–	–	–	–	2.4972	–
–	NiCr 19 Co 11 MoTi	–	–	N07041	–	NC19KDT	–	–	–	–	2.4973	René 41
–	NiFeCr 12 Mo	–	–	–	–	–	–	–	–	–	2.4975	–
–	NiCr 20 Mo	–	–	–	–	–	–	–	–	–	2.4976	–
–	NiCr 20 CoMo	–	–	–	–	–	–	–	–	–	2.4982	–
–	NiCr 18 Co	–	–	N07500	–	–	–	–	–	–	2.4983	Co500
AISI 684	NiCr 18 CoMoAlTi	–	–	N07500	–	NCK19DAT	–	–	–	–	2.4983	Udimet® 500
–	Ni 99,6	NA 46	–	–	–	–	–	–	–	–	2.4060	–
–	NiMn 2	–	–	–	–	–	–	–	–	–	2.4110	–
SZ-100	G-Ni 95	–	–	–	–	–	–	–	–	–	2.4170	–
–	G-Ni 93 Si	–	–	–	–	–	–	–	–	–	2.4180	–
–	NiCu 30 Fe	–	–	N04400	3072.76	NU30	–	–	–	–	2.4360	Monel® 400
–	NiCu 30 Ti	–	–	–	–	–	–	–	–	–	2.4370	Monel 60
–	NiFe 44	–	–	–	–	–	–	–	–	–	2.4420	Magnifer 53
–	NiFe 16 CuMo	–	–	–	–	–	–	–	–	–	2.4530	Perm 77
–	NiFeK 6040	–	–	–	–	–	–	–	–	–	2.4560	–
–	NiMo 16 Cr 16 Ti	NA 45	–	N26455	–	–	–	–	–	–	2.4610	Hastelloy C-4
–	–	–	–	–	–	20CB-3	–	–	–	ASTM B463	2.4660	INCOLOY 020
–	NiCr 20 CuMo	–	–	N08020	–	–	–	–	–	–	2.4660	–
–	G-NiCr 13 Al 16 MoNb	–	–	–	HC203	NC13AD	–	–	–	–	2.4670	Nimocast 713
–	G-NiCr 50 Nb	–	–	–	–	–	–	–	–	–	2.4680	–
–	NiMo 23 Cr 8 Fe	–	–	–	–	–	–	–	–	–	2.4710	–
–	NiMo 30	–	–	–	–	ND27FeV	–	–	–	N-12 MV	2.4810	Hastelloy B
–	NiCr 45 23	–	–	–	–	–	–	–	–	–	2.4890	–
–	–	–	–	N13017	–	NK17C15D5AT	–	–	–	–	–	Astroloy
–	–	–	–	–	–	–	–	–	–	–	–	Centralloy® 60HTD
AISI 686	–	–	–	–	–	NC15Fe10D5AT	–	–	–	–	–	GMR 235
–	NiCr 16 MoAl	–	–	–	–	NC15D5FeAT	–	–	–	–	–	GMR 235-D
–	–	–	–	–	–	–	–	–	–	CW6M	–	Hastelloy C-22
–	–	–	–	N06007	–	NC22Fe19D6KTa	–	–	–	–	–	Hastelloy G
–	–	–	–	N10003	–	–	–	–	–	–	–	Hastelloy N
–	–	–	–	N06635	–	NC15D14KFe	–	–	–	–	–	Hastelloy S
–	–	–	–	N10004	–	–	–	–	–	–	–	Hastelloy W
–	–	–	–	N07263	–	NC20K20D6T	–	–	–	–	–	Haynes® 263
–	–	–	–	–	–	–	–	–	–	–	–	Haynes 282
–	NiCr 15 Fe	–	–	N06600	–	–	–	–	–	–	–	Haynes 600
–	–	–	–	–	–	–	–	–	–	–	–	Haynes 75
–	NiCo 32 Cr 26 Mo	–	–	–	–	–	–	–	–	–	–	HS27
–	–	–	–	N06102	–	–	–	–	–	–	–	IN 102
ASME SB409	X 10 NiCrAlTi 32-20	–	–	N08800	3082.76	Z10NC3221	–	–	–	–	–	INCOLOY 800
–	–	–	–	–	–	Z4NC3221	–	–	–	–	–	INCOLOY 802
–	–	–	–	–	–	NC29Fe25	–	–	–	–	–	INCOLOY 804
–	NiFe 42 K 15 Nb	–	–	N19903	–	Z3NK28	–	–	–	–	–	INCOLOY 903
–	–	–	–	N19907	–	–	–	–	–	–	–	INCOLOY 907
–	–	–	–	N09925	–	–	–	–	–	–	–	INCOLOY 925
–	–	–	–	N09945	–	–	–	–	–	–	–	INCOLOY 945
ASME SB575	–	–	–	–	–	NiMo16Cr15	–	–	–	–	–	LEGA INCONEL 22
–	–	–	–	–	–	–	–	–	–	–	–	LEGA INCONEL 230
–	–	–	–	–	–	–	–	–	–	–	–	LEGA INCONEL 600SP
–	–	–	–	–	–	–	–	–	–	–	–	LEGA INCONEL 62
–	–	–	–	N06626	–	–	–	–	–	–	–	LEGA INCONEL 625LCF
–	–	–	–	–	–	NC15A	–	–	–	–	–	LEGA INCONEL 702
–	–	–	–	N09706	–	NFe10C16NbT	–	–	–	–	–	LEGA INCONEL 706
–	–	–	–	N07718	–	–	–	–	–	–	–	LEGA INCONEL 718 OP
–	–	–	–	–	–	NC16Fe8TM	–	–	–	–	–	LEGA INCONEL 721
–	NiCr 16 FeTi	–	–	N07722	–	NC16FeTi	–	–	–	–	–	LEGA INCONEL 722
–	–	–	–	R30783	–	–	–	–	–	–	–	LEGA INCONEL 783
–	–	–	–	N09925	–	–	–	–	–	B983 N09925	–	LEGA INCONEL 925
–	–	–	–	N10276	–	–	–	–	–	–	–	LEGA INCONEL C-276
–	–	–	–	N07754	–	–	–	–	–	–	–	LEGA INCONEL MA754
–	–	–	–	N07751	–	–	–	–	–	–	–	LEGA INCONEL X751
–	–	–	–	K93600 K93603	–	–	–	–	–	ASTM F1684	–	INVAR® 36
–	NiCr 20 Co 18 Ti	–	–	–	–	–	–	–	–	–	–	Jessop G81
–	G-NiCr 19 Co	–	–	N07252	–	–	–	–	–	–	–	M 252
–	–	–	–	N04405	–	–	–	–	–	–	–	Monel® R405

NOTA: Per la legenda, vedere a pagina Y217.

(continua)

S3 Elenco dei materiali • Leghe resistenti al calore • S3 *(continua)*

S3 Leghe a base di nichel resistenti al calore *Resistenza alla trazione RM (MPa)*: 600–1700* *Durezza (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
–	NiFe 33 Cr 17 Mo	–	–	–	–	–	–	–	–	–	–	Nimocast PD16
–	–	–	–	–	HC202	NC20N13	–	–	–	–	–	Nimocast PE10
–	–	–	–	–	–	NC19K18Fe5TA	–	–	–	–	–	Nimonic® 95
ASME SB575	–	–	–	N06022	–	–	–	–	–	–	–	Nimonic C22
–	NiCr 22 Fe 18 Mo	–	–	–	HR6, 204	NC22FeD	–	–	–	–	–	Nimonic PE13
–	NiFe 33 Cr 17 Mo	–	–	–	HR207	NW11AC	–	–	–	–	–	Nimonic PE16
–	NiCr 20 Co 16 MoTi	–	–	–	–	NC19KDUN	–	–	–	–	–	Nimonic PK33
–	–	–	NCF 3015	–	–	–	–	–	–	–	–	NiReVa 3015
AISI 686	–	–	–	–	–	–	–	–	–	–	–	R-235
AISI 690	–	–	–	–	–	Z6NKCDT38	–	–	–	–	–	Refractaloy 26
–	–	–	–	–	–	NK10C8W7ATaTD	–	–	–	–	–	René 125
–	–	–	–	–	–	NK15C14D6AWT	–	–	–	–	–	René 65
–	–	–	–	–	–	NC15K15ADT	–	–	–	–	–	René 77
–	–	–	–	–	–	NC14K9T5DWA	–	–	–	–	–	René 80
–	–	–	–	–	–	NC14K8	–	–	–	–	–	René 95
–	NiTa 9 Co 8 W 6 CrAl	–	–	–	–	NTa9K7C6W5A5DT	–	–	–	–	–	TRW VIA
–	NiCr 19 NbMo	–	–	–	–	NC18Fe18Nb6DWT	–	–	–	–	–	Udimet® 630
–	–	–	–	–	–	NCK18TDA	–	–	–	–	–	Udimet 710
–	–	–	–	–	–	NC18K15TDA	–	–	–	–	–	Udimet 720

S4 Elenco dei materiali • Leghe resistenti al calore • S4

S4 Titanio e leghe di titanio *Resistenza alla trazione RM (MPa)*: 900–1600* *Durezza (HB): 300–400 (HRC): 33–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
R 50250	Ti-99.8	2 TA 1	–	UNS R50250	TA6, TA7, TA8, TA9	AIR:9182T35	–	–	–	ASTM B381F1	3.7025	ATI 30 CP qualità 1
R 50400	Ti-99.7	2 TA 2-5	–	UNS R50400	TA2.5	AIR:9182T40	–	–	–	ASTM B381F2	3.7035	ATI 40 CP qualità 2
–	SG-Ti 2	–	–	–	–	–	–	–	–	–	3.7036	–
R 50550	Ti-99.6	TA 3	–	UNS R50550	TA2, TA3, TA4, TA5	AIR:9182T50	–	–	–	ASTM B381F3	3.7055	ATI 55 CP qualità 3
R 50700	Ti-99.5	2 TA 6-9	–	UNS R50700	–	AIR:9182T60	–	–	–	ASTM B381F4	3.7065	ATI 70 CP qualità 4
–	TiNi 0,8 Mo 0,3	–	–	UNS R53400	–	–	–	–	Ti-3Al-1.5Mn	ASTM qualità 12	3.7105	–
Ti 5Al-2.5Sn	TiAl 5 Sn 2,5	–	–	UNS R54520	TA 14,17	T-A5E	–	–	Ti-5Al-2.5Sn	–	3.7115	ATI qualità 6
–	TiCu 2	2 TA 21-24	–	–	–	–	–	–	Ti-2Cu	–	3.7124	–
R 54620	TiAl 6 Sn 2 Zr 4 Mo 2 Si	–	–	ASTM R54620	–	–	–	–	Ti-6Al-2Sn-2Zr-4Mo-2Si	–	3.7145	–
–	TiAl 6 ZrMo 0,5	TA 43	–	–	–	–	–	–	Ti-6-5-0.5	–	3.7155	–
R 56400	TiAl 6 V 4	TA 10-13	TC4	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V	–	–	Ti-6Al-4V	–	3.7164	ATI 6-4™
–	TiAl 6 V4	–	TC4	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V (Beta)	–	3.7164	–
R 56620	TiAl 6 V 6 Sn2	–	–	UNS R56620	–	–	–	–	Ti-6Al-6V-2Sn	–	3.7175	ATI 6-6-2™
–	TiAl 4 Mo 4 Sn 2	TA 45-51	–	–	–	–	–	–	Ti-4Al-4Mo-2Sn	–	3.7185	–
–	TiAl 3 V2.5	–	–	UNS R56320	–	–	–	–	Ti-3Al-2.5V	ASTM qualità 9	3.7195	ATI 3-2.5-MIL™
R 52250	Ti 1 Pd	TP 1	–	UNS R 52250	–	–	–	–	–	ASTM qualità 11	3.7225	–
R 52400	Ti 2 Pd	–	–	UNS R 52400	–	–	–	–	–	ASTM qualità 7	3.7235	–
–	Ti 3 Pd	–	–	–	–	–	–	–	–	–	3.7255	–
–	TiAl 5 Fe 2,5	–	–	–	–	–	–	–	Ti-5Al-2.5Fe	–	3.7110	–
–	TiV13Cr11Al3	–	–	–	–	–	–	–	Ti-13V-11Cr-3Al	–	–	11/13/03
–	Ti-10V-2Fe-3Al	–	–	–	–	–	–	–	Ti-10.2.3	–	–	ATI 10-2-3™
–	–	–	–	UNS R58153	–	–	–	–	Ti-15-333	–	–	ATI 15-333™
–	–	–	–	–	–	–	–	–	Ti-15Mo (Alfa + Beta)	–	–	ATI 15Mo™ (Alfa + Beta)
–	–	–	–	–	–	–	–	–	Ti-15Mo (Beta)	–	–	ATI 15Mo™ (Beta)
–	Ti5Al2Sn2Zr4Cr4Mo	–	–	UNS R58650	–	–	–	–	–	–	–	ATI 17™
–	TIAl 3 V 8 Cr 6 Mo 4 Z 4	–	–	–	–	–	–	–	Ti-3Al-8V-6Cr-4Mo-4Zr	ASTN qualità 19	–	ATI 38-644™
–	–	–	–	UNS R54250	–	–	–	–	Ti-425	ASTM B265	–	ATI 425®
–	–	–	–	–	–	–	–	–	Ti-425 MIL	–	–	ATI 425®-MIL
–	TiAl 4 Mo 4 Sn 2 Si 0.5	–	–	–	5103	T-A4DE	–	–	Ti-4Al-4Mo-2Sn-0.5Si	–	–	ATI 4-4-2™
–	–	–	–	–	–	–	–	–	Ti-45Nb	–	–	ATI 45Nb™
–	–	–	–	–	–	–	–	–	Ti-5Al-5V-5Mo-3Cr	–	–	ATI 5-5-5-3 PM™
–	–	–	–	–	–	–	–	–	Ti-6Al-2Sn-2Zr-2Mn-2Cr-0.2Si	–	–	ATI 6-2222™
–	–	–	–	UNS R54620	–	–	–	–	Ti-6Al-4Zr-2Mo-2Sn	–	–	ATI 6-2-4-2 PM™
–	TiAl6Zr4Mo2Sn2	–	–	UNS R54620 modificato	–	–	–	–	Ti-6Al-4Zr-2Mo-2Sn-0.2Si	–	–	ATI 6-2-4-2-Si PM™
–	–	–	–	UNS R56260	–	–	–	–	Ti-6-2-4-6	–	–	ATI 6-2-4-6™
–	–	–	–	UNS R56401	–	–	–	–	Ti-6Al-4V ELI	–	–	ATI 6-4 ELI™
–	TiAl 6 V4	–	–	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V MIL	–	–	ATI 6-4-MIL™
–	TiAl 6 V4	–	–	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V MIL (HT)	–	–	ATI 6-4-MIL™
–	–	–	–	UNS R56700	–	–	–	–	Ti-6-7	ASTM F 1295	–	ATI 6-7™
–	TiAl8Mo1V1	–	–	UNS R54810	–	–	–	–	Ti-8Al-1Mo-1V	–	–	ATI 8-1-1™
–	–	–	–	–	–	–	–	–	Ti-15Mo-3Nb-3Al-0.2Si	ASTM qualità 21	–	Beta 21-S
–	–	–	–	–	–	–	–	–	Ti-12Mo-6Zr-2Fe	–	–	TMZF
–	TiAl7Nb	–	–	–	–	–	–	–	Ti-6Al-7Nb	–	–	–
–	TiAl7Mo4	–	–	–	–	–	–	–	–	ASTM B381	–	–
–	TiAl 4 Mo 4 Sn 4 Si 0.5	–	–	–	5203	–	–	–	Ti-4Al-4Mo-4Sn-0.5Si	–	–	–
–	TiA6Zr5Mo0.5Si0.25	–	–	–	–	T.AGZ.50	–	–	Ti-6Al-5Zr-0.5Mo-0.25Si	–	–	–
–	TiAl6Zr5Mo4CuSi0.2	–	–	–	M201	–	–	–	Ti-6Al-5Zr-4Mo-Cu-0.2Si	–	–	–
–	–	–	TC18	–	–	–	–	–	Ti-5Al-5Mo-5V-1Cr-1Fe	–	–	–
–	–	–	–	UNS %58210	–	–	–	–	Ti Beta 21 S	ASTM qualità 21	–	–
Ti 98.8	Ti 98.8	–	–	–	–	–	–	–	–	–	–	–
Ti 99.9	Ti 99.9	–	–	–	–	–	–	–	–	–	–	–
–	TiAL 6 Sn 2 Zr 4 Mo 2	–	–	–	–	–	–	–	–	–	–	–

NOTA: Per la legenda, vedere a pagina Y217.

H1 Elenco dei materiali • Ghise e acciai temprati • H1

H1 Materiali temprati *Durezza (HRC): 44–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
H 11	X 38 CrMoV 5 H1	BH 11	SKD 6	T20811	X 38 CrMoV 5 H1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	–	–	–	1.2343	–
H11	X 38 CrMoV 5 H1	BH 11	SKD 6	T20811	X 38 CrMoV 5 H1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	–	–	–	1.2343	–
H 13	X 40 CrMoV 5 1	BH 13	SKD 61	T20813	X 40 CrMoV 5 1	Z 40 CDV 5	X 40 CrMoV 5 1 1 KU	2242	–	–	1.2344	–
H 10	X 32 CrMoV 3 3	BH 10	SKD 7	T 20810	X 32 CrMoV 12H-28	32 DCV 28	30 CrMoV 12 27 KU	–	–	–	1.2365	–
H19	X 45 CrCoVW 5 5 5	–	–	–	–	–	–	–	–	–	1.2678	–
A 532 I B NiCr-LC	GX 260 NiCr 42	Qualità 2 A	0512-00	F45001	GJH-X260NiCr 4-2	–	–	0512-00	–	–	0.9620	–
L6	–	–	–	–	–	55 NCDV 07 (HT)	–	–	–	–	–	–

H2 Elenco dei materiali • Ghise e acciai temprati • H2

H2 Materiali temprati *Durezza (HRC): 48–55*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
A 532 I A NiCr-HC	G-X 330 NiCr 42	Qualità 2 B	0513-00	F45000	GJH-X330NiCr 4-2	FB Ni 4 Cr2 HC	–	0513-00	–	–	0.9625	–
H 21	X 30 WCrV 93	BH 21	SKD 5	T 20821	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	–	–	–	1.2581	–
H 12	X 37 CrMoW 5 1	BH 12	SKD 62	T20812	–	Z 35 CWDV 5	X 35 CrMoW 05 KU	–	–	–	1.2606	–
–	G-X 300 NiMo 3 Mg	–	–	–	GJH-X300NiMo 3 Mg	–	–	–	–	–	0.9610	–
A 532 I B NiCr-LC	GX 260 NiCr 42	Qualità 2 A	0512-00	F45001	GJH-X260NiCr 4-2	–	–	0512-00	–	–	0.9620	–
A 532 III A 25% Cr	GX 260 Cr 27	Qualità 3 D	0466-00	–	GJH-X260Cr 27	–	–	–	–	–	0.9650	–
–	X 2 NiCoMoTi 180905	–	–	–	–	Z 2 NKD 180905	–	–	–	–	–	Durimphy
K12	–	–	–	–	–	–	–	–	–	–	–	ATI K12 MIL

H3 Elenco dei materiali • Ghise e acciai temprati • H3

H3 Materiali temprati *Durezza (HRC): 56–60*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
A 532 IIC15% CrMo-HC	G-X 300CrMo 15 3	Qualità 3 A	–	–	GJH-X300CrMo 15-3	–	–	–	–	–	0.9635	–
–	G-X 300 CrMoNi 15 2 1	Qualità 3 B	–	F45005	GJH-X300CrMoNi15-2-1	–	–	–	–	–	0.9640	–
A 532 IID20% CrMo-LC	GX 260 CrMoNi 20 2 1	Qualità 3 C	–	F45007	GJH-X260CrMoNi20-2-1	–	–	–	–	–	0.9645	–
A 532 III A 25% Cr	G-X 300 CrMo 27 1	Qualità 3 E	–	–	GJH-X300CrMo 27-1	–	–	–	–	–	0.9655	–
A 2	X 100 CrMoV 5 1	SKD 12	–	–	BA 2	Z 100 CDV 5 (HT)	X 100 CrMoV 51 KU	2260	–	–	1.2363	–
D7 (HT)	–	–	–	T30407	–	Z 230 CVA 12 04	–	–	–	–	1.2378	–
O 2	90 MnCrV 8	BO 2	–	T31502	90 MnV 8	90 MnV 8	90 MnVCr 8 KU	–	–	–	1.2842	–
A 532 I D Ni-HiCr	G-X 300 CrNiSi 95 2	Qualità 2 C	0457-00	F45003	GJH-X300CrNiSi 9-5-2	–	–	–	–	–	0.9630	Nihard tipo 4
S 1	60 WCrV 7	BS 1	–	–	6020 WCrV 8	55 WC 20	55 WCrV 8 KU	–	–	–	1.2550	–
S 1	60 WCrV 7	BS 1	–	–	60 WCrV 8	55 WC 20	55 WCrV 8 UK	–	–	–	1.2550	–
S 7	50 CrMoV 13 14	–	–	–	–	–	–	–	–	–	–	Cryodur 2357
K 12 (HT)	–	–	–	–	–	–	–	–	–	–	–	ATI K12-MIL

H4 Elenco dei materiali • Ghise e acciai temprati • H4

H4 Materiali temprati *Durezza (HRC): >60*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Numero materiale	Riferimento Produttore
W 108	C 80 W 1	–	–	T72301	C 80 U	Y1 90	C 80 KU	1880	–	–	1.1525	–
D 2	X 155 CrVMo 12 1	BD 2	SKD §§	T 30402	X 153 CrMoV 12	Z 160 CDV 12	X 155 CrVMo 12 1 KU	2310	–	–	1.2379	–
–	100 WV4	–	SKS 21	–	–	–	–	–	–	–	1.2515	–
D 3	X 210 Cr 12	BD 3	SKD 1	T30403	X 210 Cr 1 2	Z 200 C 12	X 205 Cr 12 KU	–	–	–	1.2080	–
O 7	110 WCrV 5	–	–	–	–	–	–	–	–	–	–	–
–	Mh97 + Pb	–	–	–	–	–	–	–	–	–	–	LAW 100 Pb

Legenda elenco dei materiali

* 1 Mpa = 145 psi.
** Include specifiche per materiale ASTM e SAE.
AISI — Istituto americano per il ferro e l'acciaio
AFNOR — Organizzazione nazionale francese per la standardizzazione
AMS — Specifiche per i materiali utilizzati nell'industria aerospaziale
ASTM — Associazione statunitense degli ingegneri meccanici
BS — Standard britannici
DIN — Istituto tedesco per la standardizzazione
EN — Standard europei
JIS — Standard industriali giapponesi
SAE — Associazione degli ingegneri automobilistici
SIS — Istituto svedese di standardizzazione
UNI — Organizzazione italiana per la standardizzazione
UNS — Sistema di numerazione unificato

Servizio e supporto

Customer Application Support (CAS)

Subito una risposta affidabile ai problemi più difficili di taglio dei metalli

Il team Customer Application Support (CAS), è la più importante risorsa help-desk nell'industria della lavorazione dei metalli per soluzioni applicative di utensileria e risoluzione dei problemi.

Facile accesso a una collaudata competenza nella lavorazione dei metalli!

I tecnici Kennametal Customer Application forniscono assistenza ai clienti e ai gruppi tecnici di tutto il mondo con consigli sulla scelta competente di utensili e applicazioni in relazione all'intera gamma di utensili Kennametal.

ECCELLENZA NEL LIVELLO DI SERVIZIO	Risposta telefonica veloce. Soluzioni tecniche rapide. Gestione efficiente del caso.
SERVIZI	Parametri di funzionamento. Ottimizzazione dei processi. Supporto hardware. Scelta degli utensili. Soluzione dei problemi.
UTENSILI E TECNOLOGIA DI SUPPORTO ECCELLENTI	Database dei materiali. Calcolatrici per applicazioni. Esperti nel rendimento degli utensili.

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Cina	Cinese	400 889 2238	k-cn.techsupport@kennametal.com
Danimarca	Inglese	808 89298	na.techsupport@kennametal.com
Finlandia	Inglese	0800 919412	na.techsupport@kennametal.com
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I numeri elencati sono validi solo per il paese corrispondente.

SICUREZZA NEL TAGLIO DEI METALLI

ISTRUZIONI IMPORTANTI SULLA SICUREZZA

Leggere prima dell'utilizzo degli utensili presentati in questo catalogo.

Pericoli legati a rotture e schegge vaganti:

Le moderne operazioni di taglio dei metalli richiedono potenza, velocità di taglio, temperature e forze di taglio elevate. I trucioli di metallo caldo potrebbero staccarsi dal pezzo in lavorazione durante il taglio dei metalli. Anche se gli utensili da taglio sono progettati e realizzati per resistere alle forze di taglio e alle temperature elevate, possono essere soggetti a frammentazione durante l'esercizio, soprattutto se subiscono sollecitazioni eccessive o impatti violenti o se utilizzati comunque in modo scorretto.

Per evitare lesioni:

- Indossare sempre i dispositivi di protezione personale adeguati, tra cui gli occhiali di protezione, quando si utilizzano le macchine per il taglio dei metalli o si lavora nelle vicinanze.
- Assicurarsi sempre che tutti i sistemi di protezione della macchina siano attivi e in funzione.

Pericoli legati alla respirazione e al contatto con la pelle:

La rettifica del metallo duro o di altri moderni materiali da taglio produce polvere o vapori contenenti particelle metalliche. L'inalazione di queste polveri e vapori, soprattutto per lungo tempo, potrebbe causare l'insorgere di patologie polmonari temporanee o permanenti, oppure peggiorarne di già esistenti. Il contatto con questo tipo di polveri o vapori può irritare gli occhi, la pelle e le mucose, aggravando eventuali problemi cutanei esistenti.

Per evitare lesioni:

- Indossare sempre la mascherina e gli occhiali di protezione durante la rettifica.
- Garantire il controllo della ventilazione; raccogliere e smaltire correttamente polveri, vapori e i residui della rettifica.
- Evitare il contatto della polvere o del vapore con la pelle.

Per ulteriori informazioni, leggere la scheda sulla sicurezza dei materiali fornita da Kennametal e consultare le normative generiche per la salute e la sicurezza sul lavoro (parte 1910, articolo 29 del codice normativo federale).

Queste istruzioni per la sicurezza rappresentano indicazioni generiche. Molte variabili influiscono sulle operazioni di lavorazione. È pertanto impossibile affrontare ogni specifica situazione. Le informazioni tecniche inserite nel presente catalogo e i consigli di lavorazione potrebbero non essere pertinenti all'operazione in atto. Per ulteriori informazioni, consultare l'opuscolo di Kennametal sulla sicurezza nel taglio di metalli, fornito gratuitamente da Kennametal chiamando il numero 724 539 5747 o inviando un fax al numero 724 539 5439. Per domande relative alla sicurezza del prodotto e dell'ambiente, contattare l'ufficio Corporate Environmental Health and Safety al numero 724 539 5066 o numero di fax 724 539 5372.

Kennametal, la K stilizzata, A2, A4, AluMill, Beyond, Beyond Blast, Beyond Drive, Beyond Evolution, Blue Box, CTR, DFC, DFR, DFS, DFSP, DFT, Dodeka, Dodeka MAX, Drill Fix, ERICKSON, Fix-Perfect, GOdrill, GOmill, GOtap, Green Box, HARVI, HexaCut, HTS, HydroForce, K10, K715, KB1345, KB5630, KBK45, KC5010, KC5025, KC522M, KC625M, KC633M, KC635M, KC637M, KC639M, KC643M, KC7135, KC7210, KC7225, KC725M, KC7315, KC7320, KC7325, KC7410, KC9105, KCK10, KCM15, KCMS, KCMS35, KCN05, KCP15, KCPK10, KCPK15, KCPK20, KCPK30, KCPM15, KCPM40, KCPM45, KCSM15, KCU10, KCU25, KCU40, KCU45, KD1400, KD1405, KD1415, KD1420, KD1425, KDF400, KDMB, KDMT, KenClamp, Kendex, KenFeed, Kenlever, Kenloc, Kenna Perfect, Kenna Universal, KenTIP, KF1, KGEM, KIPR, K-Lock, KM, KM25, KM40, KM40TS, KM4X, KM4X100, KM-TS, KN25, KNS, KP6505, KP6525, KSCM, KSEM, KSEM PLUS, KSOM, KSRM, KSSM, KSSM8+, KSSR, KSSS, KTMS, KTP10, KU25T, KVNS, KY1310, KY3500, KYK10, KYK25, KYS40, Load Optimised Insert Spacing, MaxiMet, MEGA, Mill 1-7, Mill 1-10, Mill 1-14, Mill 1-18, Mill 1-25, Mill 4, Mill 4-11, Mill 4-15, Mill 16, ModBORE, NOVO, RIQ, RHR, Rodeka, Romicron, RMS, SIF, SEFAS, Stellite, Stellram, Top Notch, Wedgelock, X-Grade, e Y-TECH sono marchi registrati di Kennametal, Inc. e come tali sono utlizzati in questo documento. L'eventuale assenza di un prodotto, del nome di un servizio o di un logo dal presente elenco non costituisce una rinuncia da parte di Kennametal al marchio registrato o a qualsiasi altro diritto derivante da proprietà intellettuale riguardante tale nome o logo.

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