KENNAMETAL®



SPRING 2026

inch

INNOVATIONS

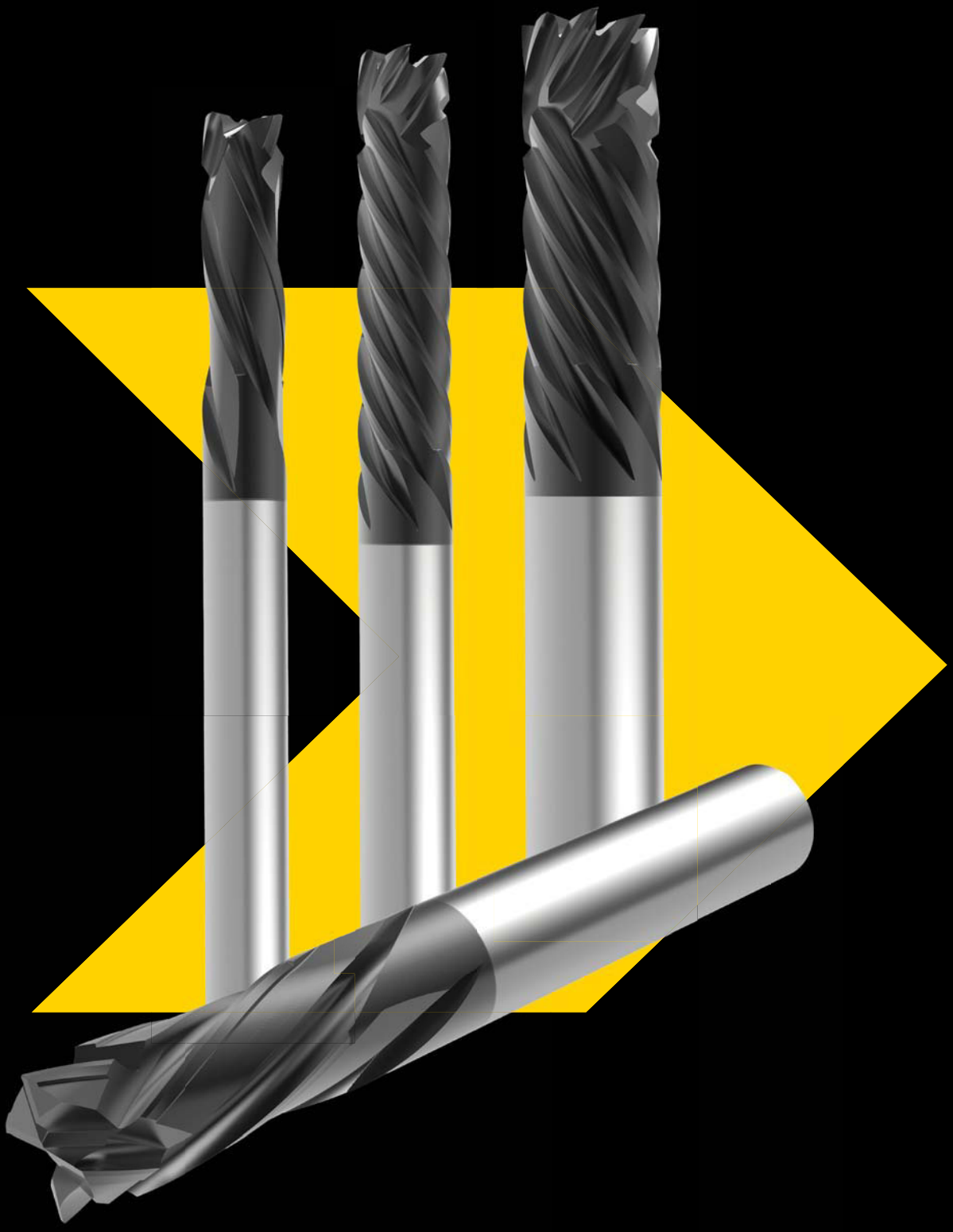


TABLE OF CONTENTS

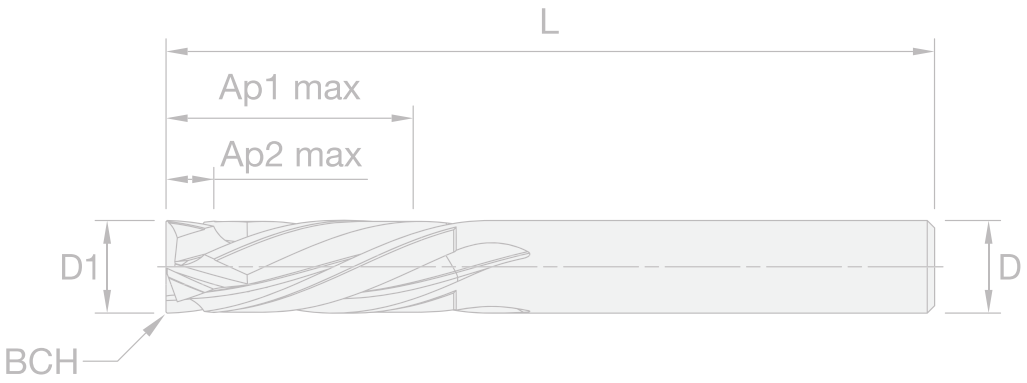
MILLING 3
ROCO™ Compression Routers 4

HOLEMAKING 11
KenDrill™ CSF 12
Drill Fix MULTI™ 18
KSEM PLUS™ HPP Inserts 26
KSEM™ HPR Inserts 32
KenTIP™ FS Straight Flute Drill Bodies 38
KenTIP FS HP Inserts 46

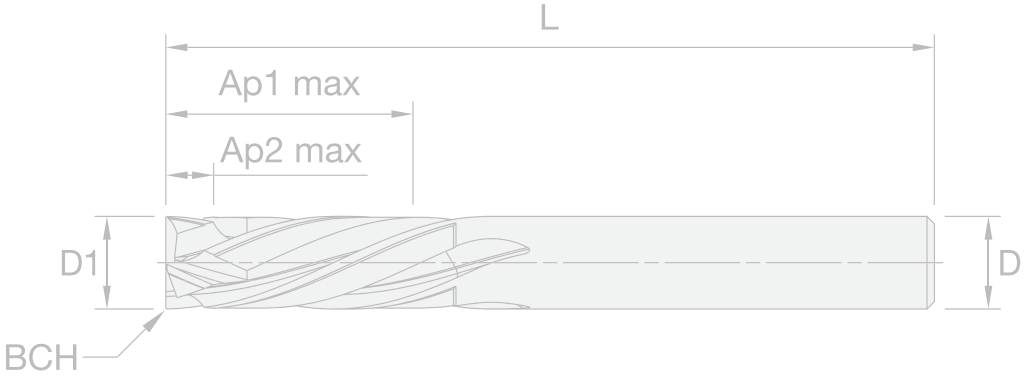
SYSTEMS 53
Face Coolant Shrink Fit Adapters 54
PSC32 & PSC40 Laydown Threading Cutting Units 64




L
Ap1 max
Ap2 max
D1
D
BCH


L
Ap1 max
Ap2 max
D1
D
BCH


L
Ap1 max
Ap2 max
D1
D
BCH


L
Ap1 max
Ap2 max
D1
D
BCH

ROCO™ COMPRESSION ROUTERS

Now Featuring 25° and 35° Helix Angle Compression Styles

Kennametal continues to boost its comprehensive composites machining offering with two new compression routers for the high-performance ROCO lineup—stamping the platform as the reliable, one stop shop for all composite routing needs. Two helix angle options provide the best quality surface finish on the top and bottom of the part across different material matrixes.



Features & Benefits

- Compression style geometry for stable cutting conditions in trimming applications
- Up cut/down cut geometry directs cutting forces into the workpiece to prevent delamination
- Protected with enhanced KCC05A grade for longer, more consistent tool life
- Now offering 25° and 35° helix angle style compression routers for more comprehensive, versatile performance

Materials

PRIMARY

C Composite Materials

SECONDARY

N Non-Ferrous Materials

Industries

Aerospace

Automotive

Oil & Gas

Wind & Solar

General Engineering

Applications

PRIMARY

Trimming/ Side Milling

Helical Milling

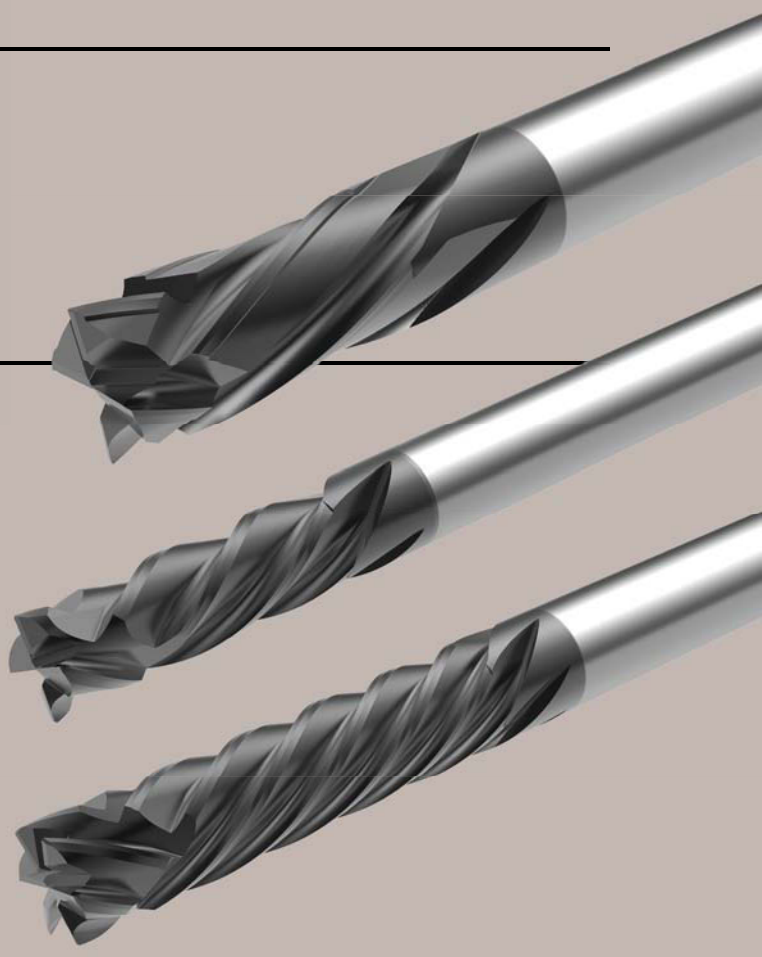
Pocketing

Slotting

Ramping

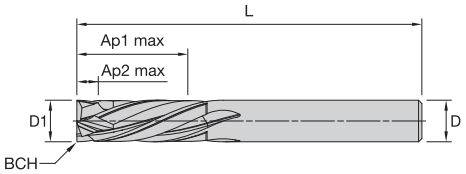
SECONDARY

Drilling

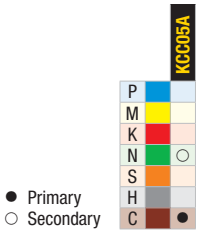


EXPLORE ROCO



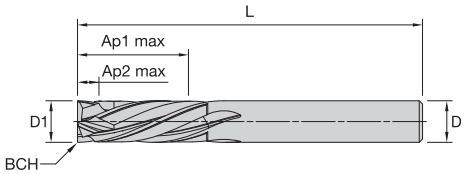


ROCO CS • Compression Slow Helix • Chamfered • 3-4 Flutes • Plain Shank • Metric

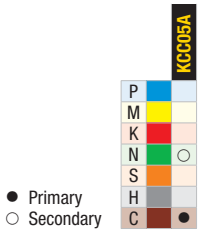


Catalog Number	D1	D	Ap1 Max	Ap2 Max	L	BCH	Z U	KCC05A
ROCS3CH0600R018HAM	6.00	6.00	18.00	3.00	63.00	0.13	3	7380369
ROCS4CH1000S016HAM	10.00	10.00	16.00	5.00	75.00	0.13	4	7380426
ROCS4CH1000R026HAM	10.00	10.00	26.00	5.00	83.00	0.13	4	7380427
ROCS4CH1200S016HAM	12.00	12.00	16.00	6.00	75.00	0.13	4	7380428
ROCS4CH1200R038HAM	12.00	12.00	38.00	6.00	100.00	0.13	4	7380429



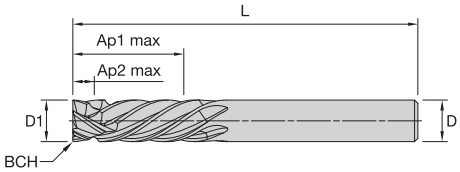


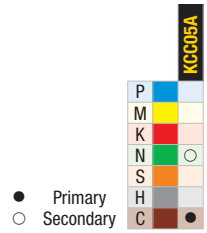
ROCO CM • Compression Medium Helix • Chamfered • 4-8 Flutes • Plain Shank • Metric



Catalog Number	D1	D	Ap1 Max	Ap2 Max	L	BCH	Z U	KCC05A
ROCM4CH0600R018HAM	6.00	6.00	18.00	4.50	63.00	0.13	4	7380402
ROCM6CH1000S016HAM	10.00	10.00	16.00	7.50	75.00	0.13	6	7380403
ROCM6CH1000R026HAM	10.00	10.00	26.00	7.50	83.00	0.13	6	7380404
ROCM8CH1200S016HAM	12.00	12.00	16.00	9.00	75.00	0.13	8	7380405
ROCM8CH1200R038HAM	12.00	12.00	38.00	9.00	100.00	0.13	8	7380406



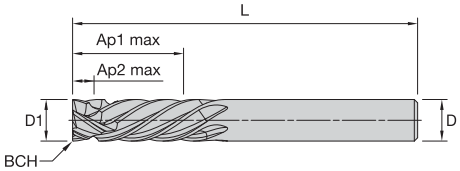


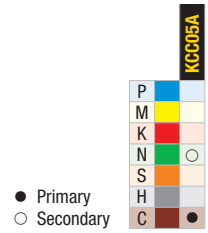


ROCO CM • Compression Medium Helix • Chamfered • 4-8 Flutes • Plain Shank • Inch

Catalog Number	D1	D	Ap1 Max	Ap2 Max	L	BCH	Z U	KCC05A
ROCM4CH0250R075HA	1/4	1/4	3/4	0.188	2 1/2	0.005	4	7380147
ROCM6CH0375S075HA	3/8	3/8	3/4	0.281	3	0.005	6	7380148
ROCM6CH0375R150HA	3/8	3/8	1 1/2	0.281	3 1/2	0.005	6	7380149
ROCM8CH0500S113HA	1/2	1/2	1 1/8	0.375	3 1/2	0.005	8	7380150
ROCM8CH0500R150HA	1/2	1/2	1 1/2	0.375	4	0.005	8	7380401







ROCO CS • Compression Slow Helix • Chamfered • 3-4 Flutes • Plain Shank • Inch

Catalog Number	D1	D	Ap1 Max	Ap2 Max	L	BCH	Z U	KCC05A
ROCS3CH0250R075HA	1/4	1/4	3/4	0.125	2 1/2	0.005	3	7380364
ROCS4CH0375S075HA	3/8	3/8	3/4	0.188	3	0.005	4	7380365
ROCS4CH0375R150HA	3/8	3/8	1 1/2	0.188	3 1/2	0.005	4	7380366
ROCS4CH0500S113HA	1/2	1/2	1 1/8	0.250	3 1/2	0.005	4	7380367
ROCS4CH0500R150HA	1/2	1/2	1 1/2	0.250	4	0.005	4	7380368

ROCO CM & ROCO CS
Application Data • Metric

Material Group		 Side Milling		 Slotting	KCC05A Cutting Speed Vc m/min		Recommended Feed per Tooth (Fz=mm/th) is for Side Milling (A). For Slotting (B) Reduce Fz by 20%.			
								D1 Diameter		
		Ap	Ae	Ap	min	max	mm	6.0	10.0	12.0
N	N6	Ap1 Max	0.5xD	1.0xD	100	150	Fz	0.018	0.030	0.036
C	C1	Ap1 Max	0.5xD	1.0xD	100	150	Fz	0.018	0.030	0.036

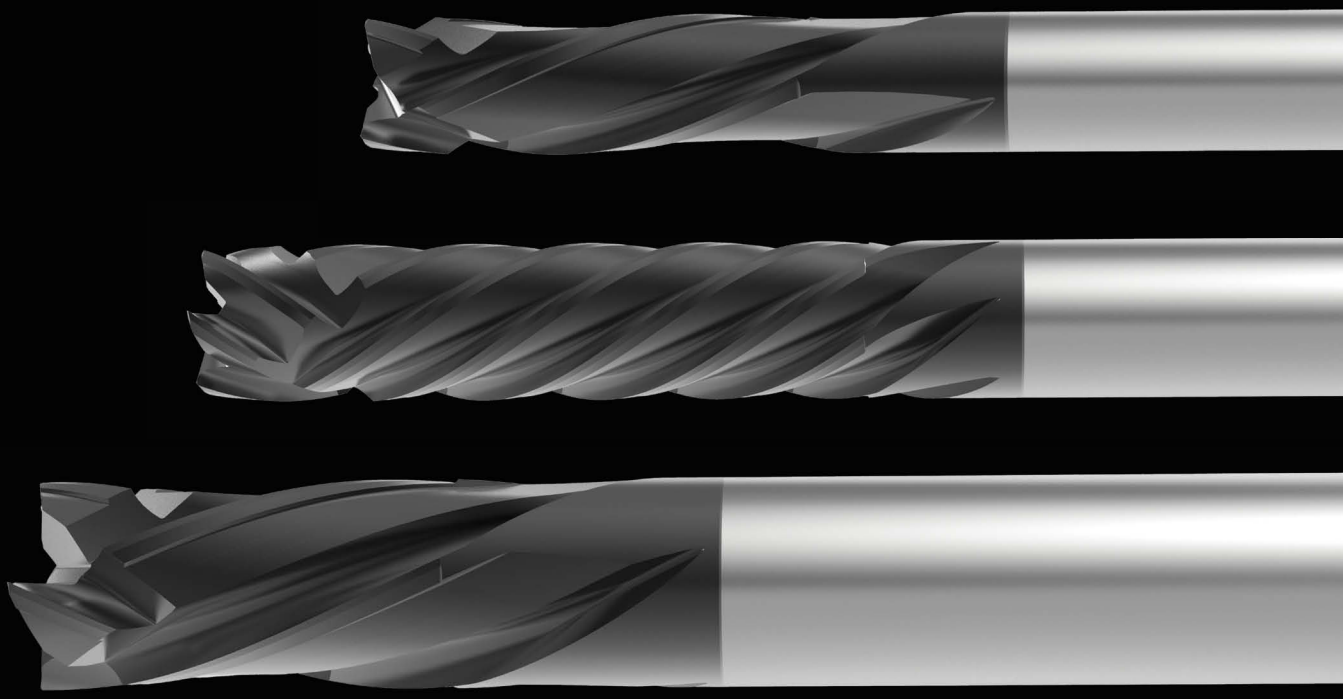
Maximum ramping capability is 2°.

ROCO CM & ROCO CS
Application Data • Inch

Material Group		 Side Milling		 Slotting	KCC05A Cutting Speed Vc SFM		Recommended Feed per Tooth (Fz = in/th) is for Side Milling (A). For Slotting (B) Reduce Fz by 20%.			
								D1 Diameter		
		Ap	Ae	Ap	min	max	Fraction	1/4	3/8	1/2
N	N6	Ap1 Max	0.5xD	1.0xD	330	500	IPT	0.0007	0.0012	0.0014
C	C1	Ap1 Max	0.5xD	1.0xD	330	500	IPT	0.0007	0.0012	0.0014

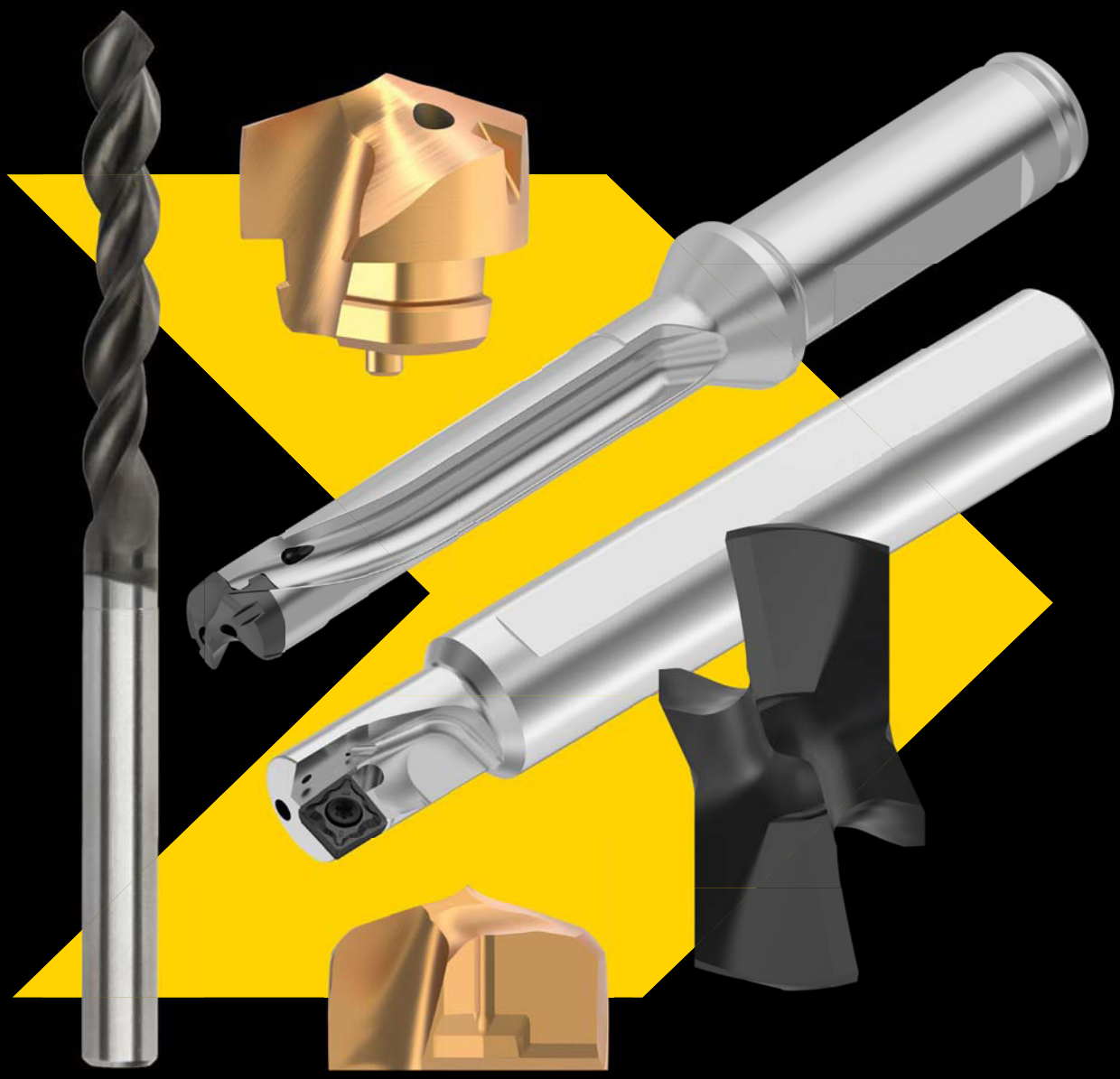
Maximum ramping capability is 2°.

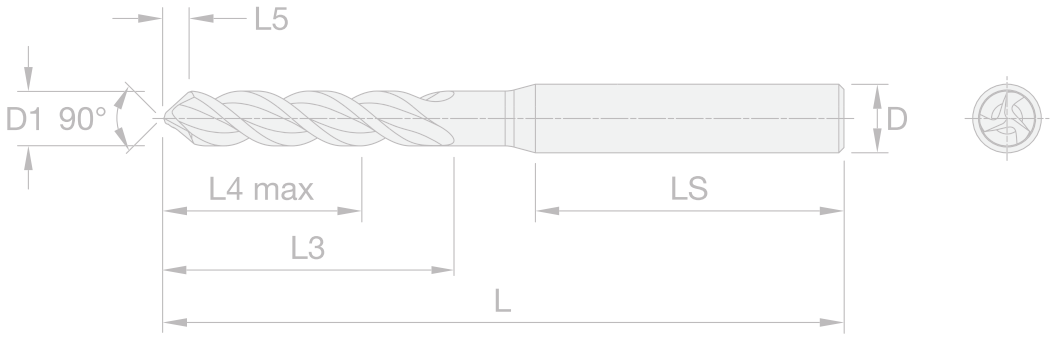
ROCO COMPRESSION ROUTERS

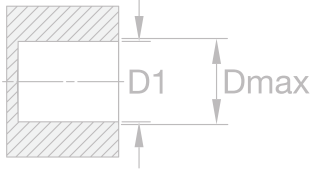


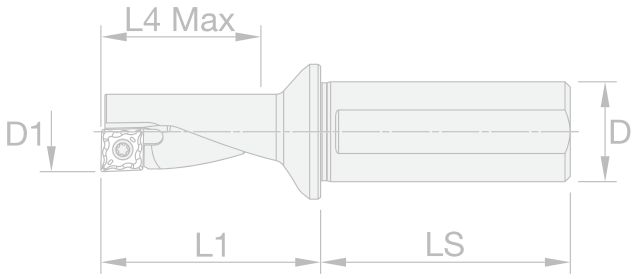
LET'S TAKE YOUR **MANUFACTURING**
TO THE **NEXT LEVEL**

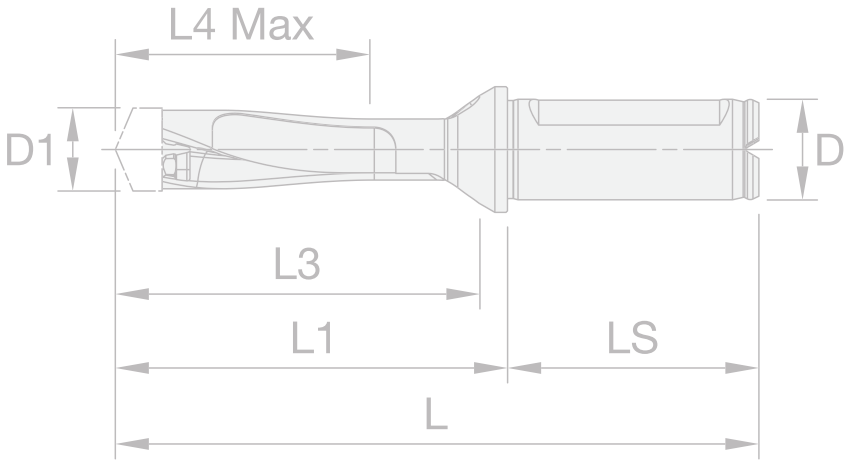
kennametal.com/**ROCO**

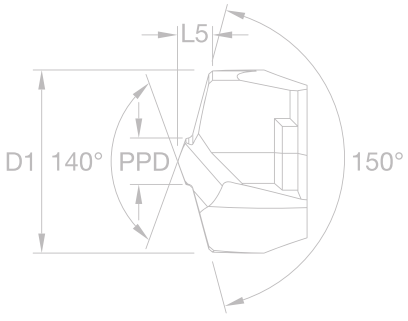


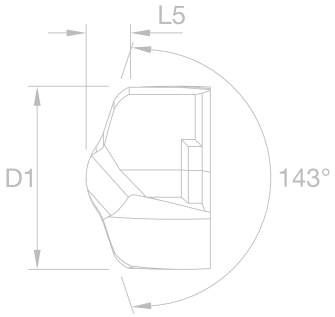

L5
D1 90°
D
L4 max
LS
L3
L

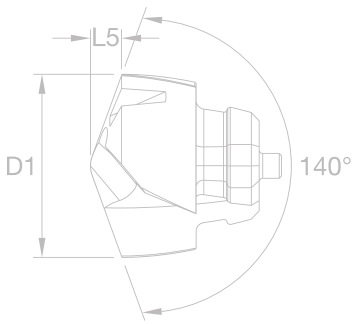

D1
Dmax


L4 Max
D1
D
L1
LS


L4 Max
D1
D
L3
L1
LS
L


L5
D1
140°
PPD
150°

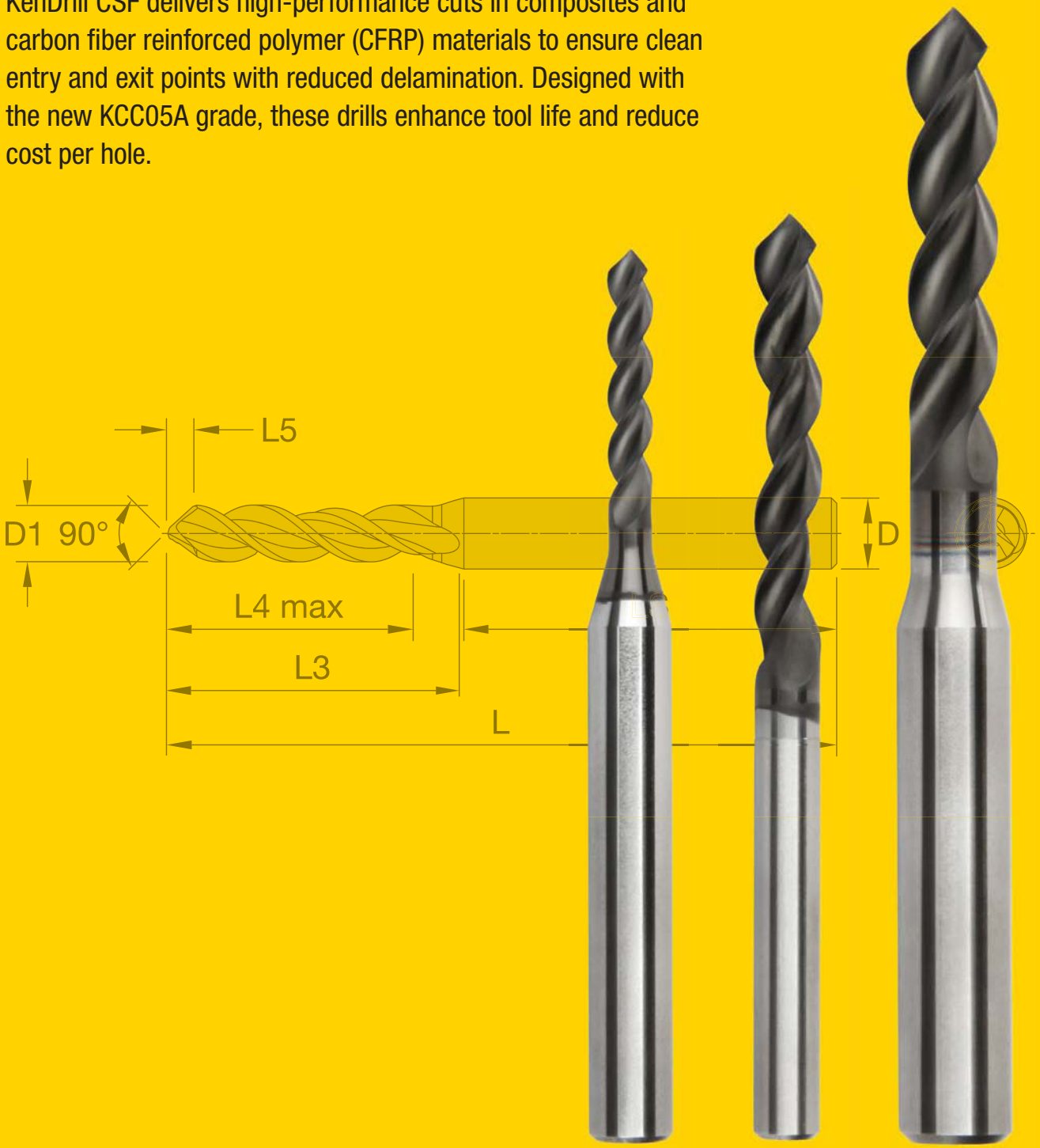

L5
D1
143°


L5
D1
140°

KenDrill™ CSF

Achieve a Clean Cut in Composites Aerospace Machining

KenDrill CSF delivers high-performance cuts in composites and carbon fiber reinforced polymer (CFRP) materials to ensure clean entry and exit points with reduced delamination. Designed with the new KCC05A grade, these drills enhance tool life and reduce cost per hole.



Features & Benefits

- Three-flute drill design for extraordinary hole positioning and cylindricity
- 90° point angle lowers axial forces and prevents delamination
- 40° helix angle prevents uncut fibers on hole exit
- Advanced margin land design reduces heat and improves hole quality
- KCC05A grade provides superb tool life in highly abrasive fiber reinforced materials
- Available with straight cylindrical shanks as well as for Kennametal's HiPACS combination tool

Materials

PRIMARY

C1 Carbon-Fiber-Reinforced Polymers (CFRP)

SECONDARY

N5 Nylon, Plastics, Phenolics, Resins, Fiberglass

N6 Carbon, Graphite, Composites

Industries

Aerospace | General Engineering | Medical | Automotive | EV

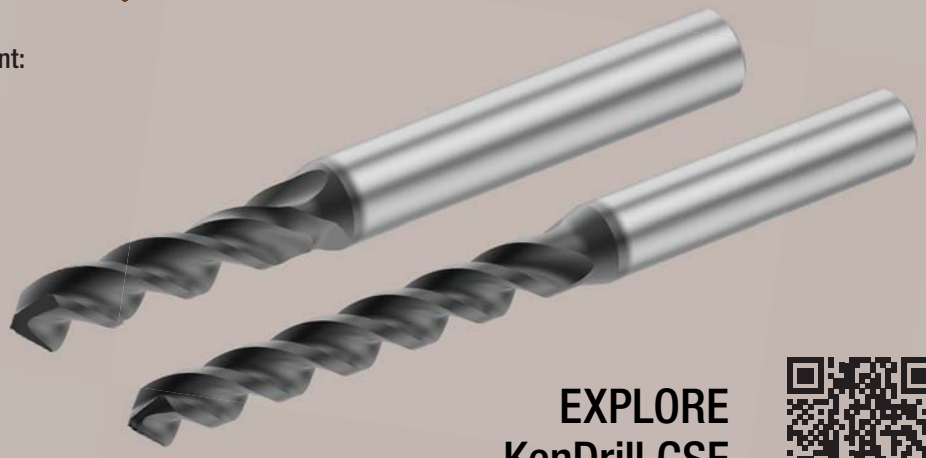
Machine Tools

CNC | ADU | Robot

Applications

Drilling | Drilling: Stacked Plates | Fastener Hole Drill/Countersinking

Coolant: Dry Drill | Flood Coolant: Drilling



EXPLORE KenDrill CSF

PRIMARY

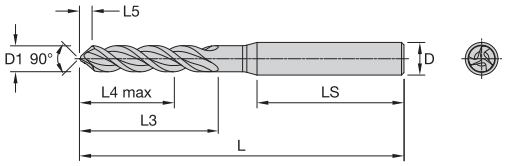
C1 Carbon-Fiber-Reinforced Polymers (CFRP)

SECONDARY

N5 Nylon, Plastics, Phenolics, Resins, Fiberglass

N6 Carbon, Graphite, Composites





KenDrill CSF • B521 • 3 x D • Straight Shank

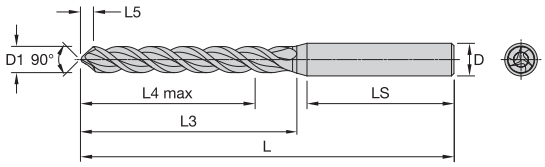
KCC05A

C1	●
N5	○
N6	○

● Primary
○ Secondary

	D1								
Catalog Number	mm	in	L4 max	L3	L	L5	LS	D	KCC05A
B521A02502CSF	2.502	0.0985	11.00	16.00	50.00	1.32	28.00	4.00	7318527
B521A03200CSF	3.200	0.1260	14.00	20.00	62.00	1.77	36.00	6.00	7397154
B521A03300CSF	3.300	0.1299	14.00	20.00	62.00	1.83	36.00	6.00	7397155
B521A04000CSF	4.000	0.1575	17.00	24.00	66.00	2.19	36.00	6.00	7397156
B521A04864CSF	4.864	0.1915	20.00	28.00	66.00	2.52	36.00	6.00	7318528
B521A05000CSF	5.000	0.1969	20.00	28.00	66.00	2.71	36.00	6.00	7397157
B521A06000CSF	6.000	0.2362	20.00	28.00	66.00	3.23	36.00	6.00	7397158
B521A06376CSF	6.376	0.2510	24.00	34.00	79.00	3.29	36.00	8.00	7318529
B521A06400CSF	6.400	0.2520	24.00	34.00	79.00	3.43	36.00	8.00	7397192
B521A07938CSF	7.938	0.3125	29.00	41.00	79.00	4.22	36.00	8.00	7397193
B521A07963CSF	7.963	0.3135	29.00	41.00	79.00	4.09	36.00	8.00	7318530
B521A09551CSF	9.551	0.3760	35.00	47.00	89.00	4.88	40.00	10.00	7318531
B521A11138CSF	11.138	0.4385	40.00	55.00	102.00	5.68	45.00	12.00	7318532
B521A12725CSF	12.725	0.5010	43.00	60.00	107.00	6.47	45.00	14.00	7318533





KenDrill CSF • B522 • 5 x D • Straight Shank

KCC05A

C1	●
N5	○
N6	○

● Primary
○ Secondary

	D1								
Catalog Number	mm	in	L4 max	L3	L	L5	LS	D	KCC05A
B522A02502CSF	2.502	0.0985	17.00	22.00	58.00	1.32	28.00	4.00	7318534
B522A03600CSF	3.600	0.1417	23.00	28.00	66.00	1.98	36.00	6.00	7397194
B522A04864CSF	4.864	0.1915	35.00	44.00	82.00	2.52	36.00	6.00	7318535
B522A06376CSF	6.376	0.2510	43.00	53.00	91.00	3.29	36.00	8.00	7318536
B522A07200CSF	7.200	0.2835	43.00	53.00	91.00	3.85	36.00	8.00	7397197
B522A07963CSF	7.963	0.3135	43.00	53.00	91.00	4.09	36.00	8.00	7318537

PRIMARY

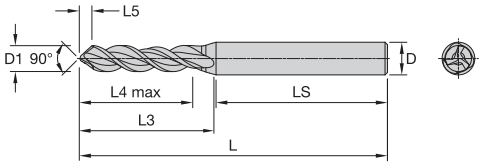
C1 Carbon-Fiber-Reinforced Polymers (CFRP)

SECONDARY

N5 Nylon, Plastics, Phenolics, Resins, Fiberglass

N6 Carbon, Graphite, Composites





KenDrill CSF • B521 • HiPACS Version • Straight Shank

	KCC05A
C1	●
N5	○
N6	○

● Primary
○ Secondary

	D1								
Catalog Number	mm	in	L4 max	L3	L	L5	LS	D	KCC05A
B521H04864CSFP	4.864	0.1915	25.00	33.00	75.00	2.64	42.00	6.00	7318516
B521H06376CSFP	6.376	0.2510	25.00	33.00	75.00	3.42	42.00	8.00	7318517
B521H07963CSFP	7.963	0.3135	25.00	33.00	75.00	4.24	42.00	8.00	7318518
B521H09551CSFP	9.551	0.3760	25.00	33.00	75.00	5.05	42.00	10.00	7318519

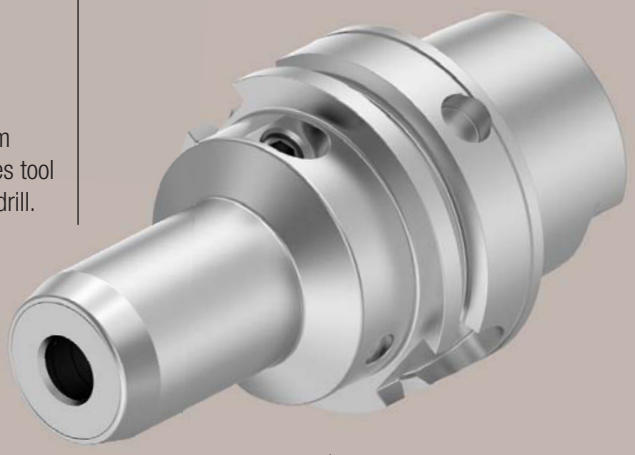
HiPACS

Aerospace Fastener Hole Drilling and Countersinking System

The straight shank enables length adjustment of 10mm (.394").

Designed to be clamped in a standard hydraulic chuck.

Replaces expensive custom solution step drill, separates tool life and cost of insert and drill.



PCD-tipped drills provide best tool life in stable conditions with high runout accuracy, ex: gantry machines and machining centers.



True 360° clamping through hydraulic chuck clamping mechanism.

Cost-effective solution, easy and fast to assemble.



High-precision system to drill and chamfer in one operation.

Diamond coated carbide drills offer competitive tool life in less stable conditions like on robot end effectors.

EXPLORE HiPACS

CSF Drills • B52_ Series • Grade KCC05A • Dry Applications
Drill Diameters 2.5 mm – 12.7 mm
Application Data • Metric

Material Group		Cutting Speed - Vc Range - m/min		Metric Recommended Feed Rate by Revolution								
		min	max		2.5	4.0	6.0	8.0	10.0	12.0	16.0	20.0
C	1	90	150	mm/r	0.03-0.10	0.04-0.12	0.04-0.14	0.05-0.16	0.05-0.18	0.06-0.20	–	–
N	5	For cutting data recommendations for other material groups, please contact your Kennametal representative.										
N	6											

CSF Drills • B52_ Series • Grade KCC05A • Dry Applications
Drill Diameters .985" – .5010"
Application Data • Inch

Material Group		Range - sfm Range - m/min		INCH Recommended Feed Rate by Revolution								
					#40	3/16	1/4	5/16	3/8	1/2	5/8	3/4
		min	max		.0984	.188	.250	.313	.375	.500	.625	.750
C	1	300	490	ipr	.001-.004	.002-.005	.002-.006	.002-.006	.002-.007	.002-.008	–	–
N	5	For cutting data recommendations for other material groups, please contact your Kennametal representative.										
N	6											

KenDrill CSF

LET'S TAKE YOUR **MANUFACTURING**
TO THE **NEXT LEVEL**

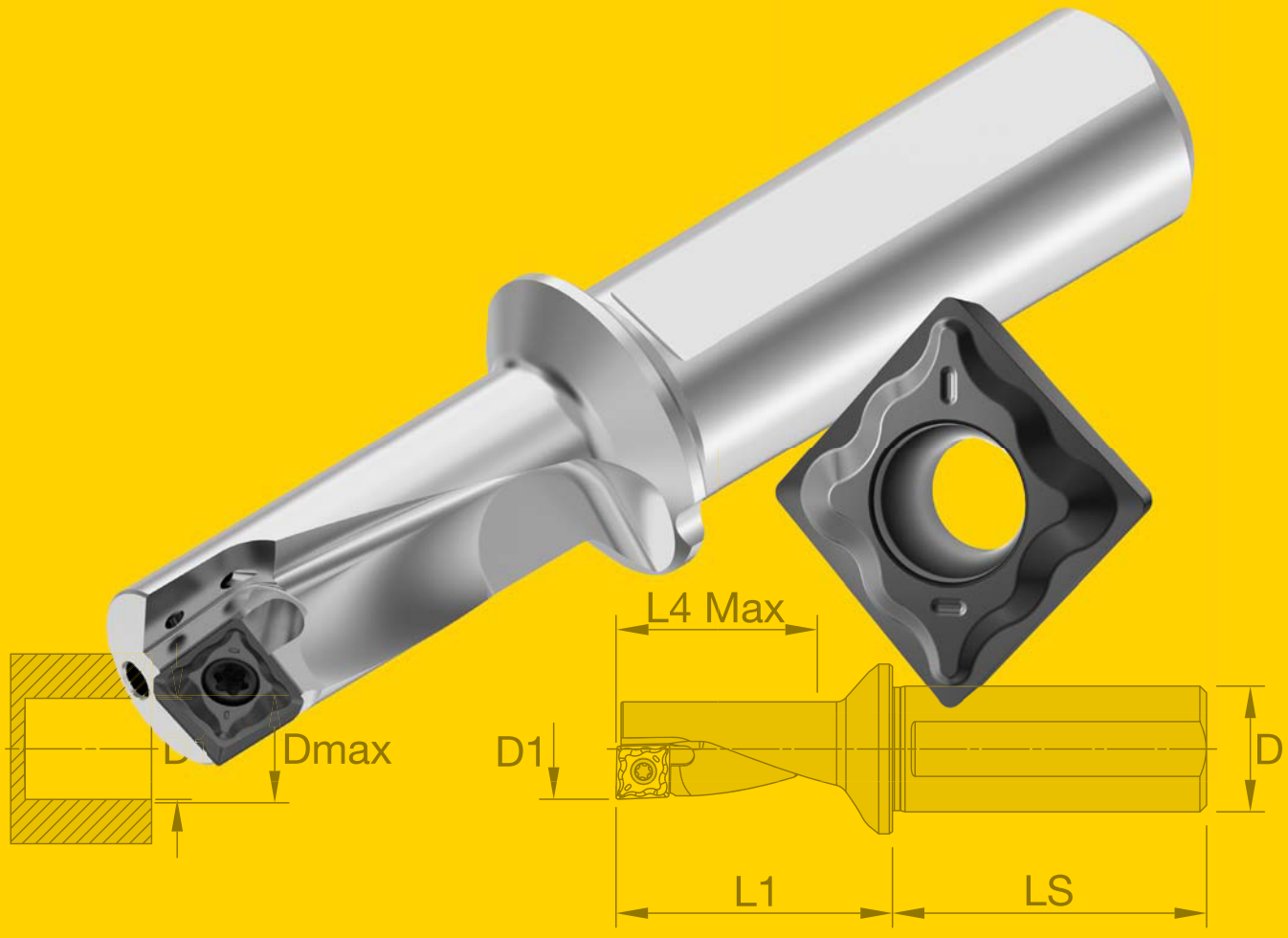
kennametal.com/**CSF**



Drill Fix MULTI™

Cut Through Complexity

Experience new levels of productivity with Drill Fix MULTI. This innovative platform combines multiple operations like drilling, internal/external turning and facing into a single, high-performance tool, reducing setup time, minimizing tool changes and maximizing productivity. Whether it's for small to medium-sized components, this tooling system delivers consistent, high-quality results across several materials.



Features & Benefits

- Reduces cycle time and the number of tool changes
- Can be used in small parts production with small lathes and Swiss-type machines
- For drilling, internal turning, external turning, facing and chamfering
- Insert grade KCU30 is the first choice generally and where drilling is the focus
- Insert grade KCPK25 is the first choice where turning is the focus, delivering higher productivity
- Ideal for general engineering and transportation industry machining
- 9 metric cutting diameters ranging from 8mm to 32mm

Materials

P Steels

M Stainless Steels

S High-Temp Alloys

Industries

General Engineering

Automotive

EV

Oil & Gas

Wind & Solar

Aerospace

Applications

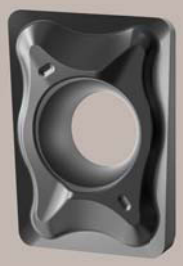
Drilling

I.D. Turning

O.D. Turning

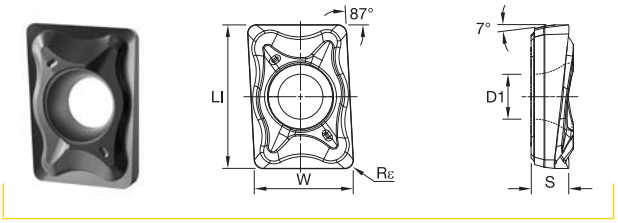
Facing

Chamfering

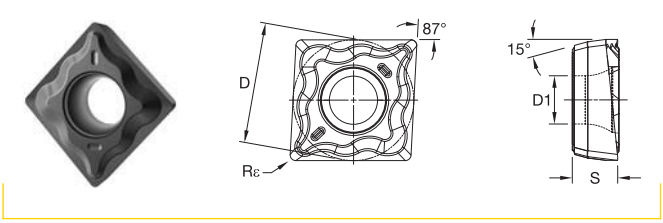




EXPLORE
Drill Fix MULTI



Valid for smallest insert
DFM04...**R** (**R**H only)



Valid for remaining larger sizes
DFM(>04)...**N** (**N**eutral RH – LH)

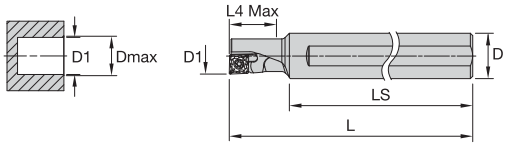
	KCU30	KCPK25
P	●	○
M	●	○
K		
N		
S	●	○
H		

● Primary
○ Secondary

Drill Fix MULTI • Carbide Insert • MP Geometry

	D		LI		W		D1		S		Rε			
ISO Catalog Number	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	KCU30	KCPK25
DFM040104MPR	—	—	6.40	0.252	4.40	0.173	2.00	0.079	1.69	0.066	0.40	0.016	7381729	7381928
DFM050204MPN	5.65	0.222	—	—	—	—	2.00	0.079	1.98	0.078	0.40	0.016	7381730	7381929
DFM060204MPN	6.40	0.252	—	—	—	—	2.45	0.097	2.30	0.091	0.40	0.016	7381921	7381930
DFM070304MPN	7.50	0.295	—	—	—	—	2.80	0.110	3.10	0.122	0.40	0.016	7381922	7381941
DFM080304MPN	8.40	0.331	—	—	—	—	3.35	0.132	3.15	0.124	0.40	0.016	7381923	7381942
DFM09T304MPN	9.45	0.372	—	—	—	—	3.40	0.134	3.90	0.154	0.40	0.016	7381924	7381943
DFM10T308MPN	10.40	0.409	—	—	—	—	4.40	0.173	3.80	0.150	0.80	0.032	7381925	7381944
DFM130408MPN	13.35	0.526	—	—	—	—	5.30	0.209	4.70	0.185	0.80	0.032	7381926	7381945
DFM170508MPN	17.30	0.681	—	—	—	—	5.30	0.209	5.45	0.215	0.80	0.032	7381927	7381946

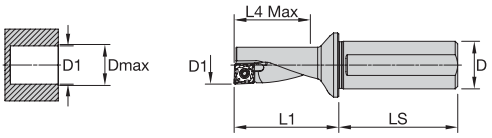




Drill Fix MULTI • Drill Body • 1.5 x D • Weldon Shank • Metric

Order Number	ISO Catalog Number	D1	D1 Max	L	L4 Max	LS	D	Insert
7387807	DFM08R150WB12M	7.85	8.30	80.00	12.00	62.10	12.00	DFM040104MPR
7387808	DFM10R150WB12M	9.85	10.50	90.00	15.00	71.70	12.00	DFM050204MPN
7387809	DFM12R150WB16M	12.50	11.85	100.00	18.00	75.90	16.00	DFM060204MPN
7387810	DFM14R150WB16M	13.80	14.50	110.00	21.00	85.50	16.00	DFM070304MPN
7387821	DFM16R150WB20M	15.80	16.50	125.00	24.00	96.50	20.00	DFM080304MPN
7387822	DFM18R150WB25M	17.80	18.50	135.00	27.00	103.20	25.00	DFM09T304MPN
7387824	DFM20R150WB25M	19.75	20.50	150.00	30.00	115.90	25.00	DFM10T308MPN
7387825	DFM25R150WB32M	24.75	25.80	180.00	37.50	136.40	32.00	DFM130408MPN
7387826	DFM32R150WB40M	31.75	33.00	200.00	48.00	143.20	40.00	DMF170508MPN

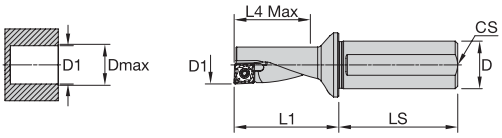




Drill Fix MULTI • Drill Body • 2.25 x D • Weldon Shank • Metric

Order Number	ISO Catalog Number	D1	D1 Max	L1	L	L4 Max	LS	D	Insert 1 Outside
7387827	DFM08R225WB10M	7.85	8.30	22.00	60.00	18.00	38.00	10.00	DFM040104MPR
7387828	DFM10R225WB12M	9.85	10.50	27.50	69.50	22.50	42.00	12.00	DFM050204MPN
7387829	DFM12R225WB16M	11.85	12.50	33.00	78.00	27.00	45.00	16.00	DFM060204MPN
7387830	DFM14R225WB16M	13.80	14.50	38.50	83.50	31.50	45.00	16.00	DFM070304MPN
7387831	DFM16R225WB20M	15.80	16.50	44.00	94.00	36.00	50.00	20.00	DFM080304MPN
7387832	DFM18R225WB25M	17.80	18.50	53.50	109.50	40.50	56.00	25.00	DFM09T304MPN
7387833	DFM20R225WB25M	19.75	20.50	55.00	111.00	45.00	56.00	25.00	DFM10T308MPN
7387834	DFM25R225WB32M	24.75	25.80	69.00	129.00	56.25	60.00	32.00	DFM130408MPN
7387835	DFM32R225WB40M	31.75	33.00	88.00	158.00	72.00	70.00	40.00	DMF170508MPN

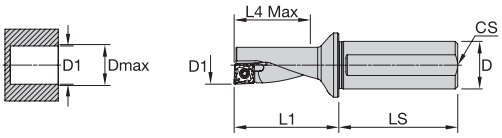




Drill Fix MULTI • Drill Body • 2.25 x D • Weldon Shank • Swiss Machines • Metric

Order Number	ISO Catalog Number	D1	D1 Max	L1	L	L4 Max	LS	D	CS	Insert 1 Outside
7387846	DFM08R225WB22M	7.85	8.30	25.00	85.00	18.00	60.00	22.00	G 1/8	DFM040104MPR
7387847	DFM10R225WB22M	9.85	10.50	30.00	90.00	22.50	60.00	22.00	G 1/8	DFM050204MPN
7387848	DFM12R225WB22M	11.85	12.50	35.00	95.00	27.00	60.00	22.00	G 1/8	DFM060204MPN
7387849	DFM14R225WB22M	13.80	14.50	38.50	98.50	31.50	60.00	22.00	G 1/8	DFM070304MPN
7387850	DFM16R225WB22M	15.80	16.50	44.00	104.00	36.00	60.00	22.00	G 1/8	DFM080304MPN
7387851	DFM18R225WB22M	17.80	18.50	54.00	114.00	40.50	60.00	22.00	G 1/8	DFM09T304MPN
7387852	DFM20R225WB22M	19.75	20.50	55.00	115.00	45.00	60.00	22.00	G 1/8	DFM10T308MPN





Drill Fix MULTI • Drill Body • 2.25 x D • Weldon Shank • Inch

Order Number	ISO Catalog Number	D1	D1 Max	L1	L	L4 Max	LS	D	CS	Insert 1 Outside
7387836	DFM0315R225WB050	0.315	0.327	1.085	2.485	0.709	1.615	0.500	G 1/16	DFM040104MPR
7387837	DFM0394R225WB050	0.388	0.413	1.085	2.700	0.886	1.615	0.500	G 1/16	DFM050204MPN
7387838	DFM0472R225WB063	0.492	0.467	1.300	2.993	1.063	1.693	0.625	G 1/8	DFM060204MPN
7387839	DFM0551R225WB063	0.543	0.571	1.520	3.213	1.240	1.693	0.625	G 1/8	DFM070304MPN
7387840	DFM0630R225WB075	0.650	0.622	1.730	3.700	1.417	1.970	0.750	G 1/8	DFM080304MPN
7387841	DFM0709R225WB100	0.728	0.701	2.110	4.315	1.595	2.205	1.000	G 1/8	DFM09T304MPN
7387842	DFM0787R225WB100	0.807	0.778	2.170	4.375	1.772	2.205	1.000	G 1/8	DFM10T308MPN
7387843	DFM0984R225WB125	1.016	0.974	2.715	5.000	2.215	2.285	1.250	G 1/8	DFM130408MPN
7387844	DFM1260R225WB150	1.250	1.299	3.460	6.196	2.835	2.736	1.500	G 1/8	DMF170508MPN

Drill Fix MULTI • Face Turning • Drill Diameters 8.0 mm to 32 mm
Application Data • Metric

Material Group		Cutting Speed - Vc Range - m/min KCU30 Min	KCU30 Max	KCPK25 Min	KCPK25 Max	Feed - fz mm/rev	Recommended Feed Rate by Diameter Ø8mm DFM-040104MPR Min	Ø8mm DFM-040104MPR Max	Ø10mm DFM-050204MPN Min	Ø10mm DFM-050204MPN Max	Ø12mm DFM-060204MPN Min	Ø12mm DFM-060204MPN Max	Ø14mm DFM-070304MPN Min	Ø14mm DFM-070304MPN Max	Ø16mm DFM-080304MPN Min	Ø16mm DFM-080304MPN Max	Ø18mm DFM09T-304MPN Min	Ø18mm DFM09T-304MPN Max	Ø20mm DFM10T-308MPN Min	Ø20mm DFM10T-308MPN Max	Ø25mm DFM-130408MPN Min	Ø25mm DFM-130408MPN Max	Ø32mm DFM-170508MPN Min	Ø32mm DFM-170508MPN Max
P	0	95	220	95	240	mm/r	0.03	0.09	0.03	0.12	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.03	0.22	0.04	0.24	0.04	0.27
	1	95	220	95	240	mm/r	0.03	0.09	0.03	0.12	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.03	0.22	0.04	0.24	0.04	0.27
	2	95	220	95	240	mm/r	0.03	0.09	0.03	0.12	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.03	0.22	0.04	0.24	0.04	0.27
	3	80	210	80	230	mm/r	0.03	0.09	0.03	0.12	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.03	0.22	0.04	0.24	0.04	0.27
	4	70	200	70	220	mm/r	0.03	0.09	0.03	0.12	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.03	0.22	0.04	0.24	0.04	0.27
	5	60	190	60	210	mm/r	0.03	0.09	0.03	0.12	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.03	0.22	0.04	0.24	0.04	0.27
	6	60	190	60	210	mm/r	0.03	0.09	0.03	0.12	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.03	0.22	0.04	0.24	0.04	0.27
M	1	70	210	70	230	mm/r	0.03	0.07	0.03	0.10	0.03	0.12	0.03	0.13	0.03	0.14	0.03	0.16	0.03	0.18	0.04	0.20	0.04	0.22
	2	65	205	65	225	mm/r	0.03	0.07	0.03	0.10	0.03	0.12	0.03	0.13	0.03	0.14	0.03	0.16	0.03	0.18	0.04	0.20	0.04	0.22
	3	55	190	55	210	mm/r	0.03	0.07	0.03	0.10	0.03	0.12	0.03	0.13	0.03	0.14	0.03	0.16	0.03	0.18	0.04	0.20	0.04	0.22
S	1	25	75	25	80	mm/r	0.03	0.06	0.03	0.08	0.03	0.10	0.03	0.11	0.03	0.12	0.03	0.14	0.03	0.15	0.04	0.17	0.04	0.19
A_p						mm	0.50-1.90		0.50-2.20		0.70-2.70		0.80-3.00		0.90-3.40		0.90-3.80		1.00-4.20		1.00-5.00		1.00-6.00	

For unstable and interrupted cuts, reduce maximum feed rate and starting feed rate (mean value between minimum and maximum) by 20%.
For unstable and interrupted cuts, start with minimum cutting speed.

Drill Fix MULTI • Int/Ext Turning • Drill Diameters 8.0 mm to 32 mm
Application Data • Metric

Material Group		Cutting Speed - Vc Range - m/min KCU30 Min	KCU30 Max	KCPK25 Min	KCPK25 Max	Feed - fz mm/rev	Recommended Feed Rate by Diameter Ø8mm DFM-040104MPR Min	Ø8mm DFM-040104MPR Max	Ø10mm DFM-050204MPN Min	Ø10mm DFM-050204MPN Max	Ø12mm DFM-060204MPN Min	Ø12mm DFM-060204MPN Max	Ø14mm DFM-070304MPN Min	Ø14mm DFM-070304MPN Max	Ø16mm DFM-080304MPN Min	Ø16mm DFM-080304MPN Max	Ø18mm DFM09T-304MPN Min	Ø18mm DFM09T-304MPN Max	Ø20mm DFM10T-308MPN Min	Ø20mm DFM10T-308MPN Max	Ø25mm DFM-130408MPN Min	Ø25mm DFM-130408MPN Max	Ø32mm DFM-170508MPN Min	Ø32mm DFM-170508MPN Max
P	0	95	220	95	240	mm/r	0.03	0.13	0.03	0.15	0.03	0.16	0.03	0.18	0.03	0.2	0.03	0.22	0.03	0.24	0.04	0.26	0.04	0.3
	1	95	220	95	240	mm/r	0.03	0.13	0.03	0.15	0.03	0.16	0.03	0.18	0.03	0.2	0.03	0.22	0.03	0.24	0.04	0.26	0.04	0.3
	2	95	220	95	240	mm/r	0.03	0.13	0.03	0.15	0.03	0.16	0.03	0.18	0.03	0.2	0.03	0.22	0.03	0.24	0.04	0.26	0.04	0.3
	3	80	210	80	230	mm/r	0.03	0.13	0.03	0.15	0.03	0.16	0.03	0.18	0.03	0.2	0.03	0.22	0.03	0.24	0.04	0.26	0.04	0.3
	4	70	200	70	220	mm/r	0.03	0.13	0.03	0.15	0.03	0.16	0.03	0.18	0.03	0.2	0.03	0.22	0.03	0.24	0.04	0.26	0.04	0.3
	5	60	190	60	210	mm/r	0.03	0.13	0.03	0.15	0.03	0.16	0.03	0.18	0.03	0.2	0.03	0.22	0.03	0.24	0.04	0.26	0.04	0.3
	6	60	190	60	210	mm/r	0.03	0.13	0.03	0.15	0.03	0.16	0.03	0.18	0.03	0.2	0.03	0.22	0.03	0.24	0.04	0.26	0.04	0.3
M	1	70	210	70	230	mm/r	0.03	0.11	0.03	0.12	0.03	0.13	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.04	0.22	0.04	0.25
	2	65	205	65	225	mm/r	0.03	0.11	0.03	0.12	0.03	0.13	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.04	0.22	0.04	0.25
	3	55	190	55	210	mm/r	0.03	0.11	0.03	0.12	0.03	0.13	0.03	0.14	0.03	0.16	0.03	0.18	0.03	0.20	0.04	0.22	0.04	0.25
S	1	25	75	25	80	mm/r	0.03	0.09	0.03	0.1	0.03	0.11	0.03	0.12	0.03	0.14	0.03	0.15	0.03	0.17	0.04	0.19	0.04	0.21
A_p						mm	0.50-2.70		0.50-3.20		0.70-3.70		0.80-4.00		0.90-4.20		0.90-4.70		1.00-5.30		1.00-6.50		1.00-7.00	

For unstable and interrupted cuts, reduce maximum feed rate and starting feed rate (mean value between minimum and maximum) by 20%.
For unstable and interrupted cuts, start with minimum cutting speed.

Drill Fix MULTI • Holemaking • Drill Diameters 8.0 mm to 32 mm
Application Data • Metric

Material Group		Cutting Speed - Vc				Feed - fz mm/rev	Recommended Feed Rate by Diameter															
		Range - m/min					Ø8mm		Ø10mm		Ø12mm		Ø14mm		Ø16mm		Ø18mm		Ø20mm		Ø25mm		Ø32mm	
		KCU30		KCPK25			DFM-040104MPR		DFM-050204MPN		DFM-060204MPN		DFM-070304MPN		DFM-080304MPN		DFM09T-304MPN		DFM10T-308MPN		DFM-130408MPN		DFM-170508MPN	
		Min	Max	Min	Max		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	0	95	220	95	240	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
	1	95	220	95	240	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
	2	95	220	95	240	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
	3	80	210	80	230	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
	4	70	200	70	220	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
	5	60	190	60	210	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
	6	60	190	60	210	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
M	1	70	210	70	230	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
	2	65	205	65	225	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
	3	55	190	55	210	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15
S	1	25	75	25	80	mm/r	0.03	0.06	0.03	0.06	0.03	0.07	0.03	0.08	0.03	0.08	0.03	0.09	0.03	0.10	0.04	0.12	0.04	0.15

For unstable and interrupted cuts, reduce maximum feed rate and starting feed rate (mean value between minimum and maximum) by 20%.
For unstable and interrupted cuts, start with minimum cutting speed.

Drill Fix MULTI • Face Turning • Drill Diameters .315" to 1.26"
Application Data • Inch

Material Group		Cutting Speed - Vc				Feed - fz in/rev	Recommended Feed Rate (mm) by Diameter															
		Range - SFM					0.315 in		0.394 in		0.472 in		0.551 in		0.630 in		0.709 in		0.787 in		0.984 in		1.260 in	
		KCU30		KCPK25			DFM-040104MPR		DFM-050204MPN		DFM-060204MPN		DFM-070304MPN		DFM-080304MPN		DFM09T-304MPN		DFM10T-308MPN		DFM-130408MPN		DFM-170508MPN	
		Min	Max	Min	Max		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	0	310	720	310	785	in/rev	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.002	0.009	0.002	0.011
	1	310	720	310	785	in/rev	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.002	0.009	0.002	0.011
	2	310	720	310	785	in/rev	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.002	0.009	0.002	0.011
	3	260	685	260	750	in/rev	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.002	0.009	0.002	0.011
	4	225	655	225	720	in/rev	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.002	0.009	0.002	0.011
	5	195	620	195	685	in/rev	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.002	0.009	0.002	0.011
	6	195	620	195	685	in/rev	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.002	0.009	0.002	0.011
M	1	225	685	225	750	in/rev	0.001	0.003	0.001	0.004	0.001	0.005	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.002	0.008	0.002	0.009
	2	210	670	210	735	in/rev	0.001	0.003	0.001	0.004	0.001	0.005	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.002	0.008	0.002	0.009
	3	180	620	180	685	in/rev	0.001	0.003	0.001	0.004	0.001	0.005	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.002	0.008	0.002	0.009
S	1	80	245	80	260	in/rev	0.001	0.002	0.001	0.003	0.001	0.004	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.002	0.007	0.002	0.007
A_p						in	0.020 - 0.075		0.020 - 0.087		0.028 - 0.106		0.031 - 0.118		0.035 - 0.134		0.035 - 0.150		0.039 - 0.165		0.039 - 0.197		0.039 - 0.236	

For unstable and interrupted cuts, reduce maximum feed rate and starting feed rate (mean value between minimum and maximum) by 20%.
For unstable and interrupted cuts, start with minimum cutting speed.

Drill Fix MULTI • Int/Ext Turning • Drill Diameters .315" to 1.26"
Application Data • Inch

Material Group		Cutting Speed - Vc Range - SFM KCU30 Min	KCU30 Max	KCPK25 Min	KCPK25 Max	Feed - fz in/rev	Recommended Feed Rate (mm) by Diameter 0.315 in DFM-040104MPR Min	0.315 in DFM-040104MPR Max	0.394 in DFM-050204MPN Min	0.394 in DFM-050204MPN Max	0.472 in DFM-060204MPN Min	0.472 in DFM-060204MPN Max	0.551 in DFM-070304MPN Min	0.551 in DFM-070304MPN Max	0.630 in DFM-080304MPN Min	0.630 in DFM-080304MPN Max	0.709 in DFM09T-304MPN Min	0.709 in DFM09T-304MPN Max	0.787 in DFM10T-308MPN Min	0.787 in DFM10T-308MPN Max	0.984 in DFM-130408MPN Min	0.984 in DFM-130408MPN Max	1.260 in DFM-170508MPN Min	1.260 in DFM-170508MPN Max
P	0	310	720	310	785	in/rev	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.001	0.009	0.002	0.010	0.002	0.012
	1	310	720	310	785	in/rev	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.001	0.009	0.002	0.010	0.002	0.012
	2	310	720	310	785	in/rev	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.001	0.009	0.002	0.010	0.002	0.012
	3	260	685	260	750	in/rev	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.001	0.009	0.002	0.010	0.002	0.012
	4	225	655	225	720	in/rev	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.001	0.009	0.002	0.010	0.002	0.012
	5	195	620	195	685	in/rev	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.001	0.009	0.002	0.010	0.002	0.012
	6	195	620	195	685	in/rev	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.001	0.009	0.002	0.010	0.002	0.012
M	1	225	685	225	750	in/rev	0.001	0.004	0.001	0.005	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.002	0.009	0.002	0.010
	2	210	670	210	735	in/rev	0.001	0.004	0.001	0.005	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.002	0.009	0.002	0.010
	3	180	620	180	685	in/rev	0.001	0.004	0.001	0.005	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.001	0.008	0.002	0.009	0.002	0.010
S	1	80	245	80	260	in/rev	0.001	0.004	0.001	0.004	0.001	0.004	0.001	0.005	0.001	0.006	0.001	0.006	0.001	0.007	0.002	0.007	0.002	0.008
A_p						in	0.020 - 0.106		0.020 - 0.126		0.028 - 0.146		0.031 - 0.157		0.035 - 0.165		0.035 - 0.185		0.039 - 0.209		0.039 - 0.256		0.039 - 0.276	

For unstable and interrupted cuts, reduce maximum feed rate and starting feed rate (mean value between minimum and maximum) by 20%.
For unstable and interrupted cuts, start with minimum cutting speed.

Drill Fix MULTI • Holemaking • Drill Diameters .315" to 1.26"
Application Data • Inch

Material Group		Cutting Speed - Vc Range - SFM KCU30 Min	KCU30 Max	KCPK25 Min	KCPK25 Max	Feed - fz in/rev	Recommended Feed Rate (mm) by Diameter 0.315 in DFM-040104MPR Min	0.315 in DFM-040104MPR Max	0.394 in DFM-050204MPN Min	0.394 in DFM-050204MPN Max	0.472 in DFM-060204MPN Min	0.472 in DFM-060204MPN Max	0.551 in DFM-070304MPN Min	0.551 in DFM-070304MPN Max	0.630 in DFM-080304MPN Min	0.630 in DFM-080304MPN Max	0.709 in DFM09T-304MPN Min	0.709 in DFM09T-304MPN Max	0.787 in DFM10T-308MPN Min	0.787 in DFM10T-308MPN Max	0.984 in DFM-130408MPN Min	0.984 in DFM-130408MPN Max	1.260 in DFM-170508MPN Min	1.260 in DFM-170508MPN Max
P	0	310	720	310	785	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
	1	310	720	310	785	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
	2	310	720	310	785	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
	3	260	685	260	750	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
	4	225	655	225	720	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
	5	195	620	195	685	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
	6	195	620	195	685	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
M	1	225	685	225	750	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
	2	210	670	210	735	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
	3	180	620	180	685	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006
S	1	80	245	80	260	in/rev	0.001	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.002	0.005	0.002	0.006

For unstable and interrupted cuts, reduce maximum feed rate and starting feed rate (mean value between minimum and maximum) by 20%.
For unstable and interrupted cuts, start with minimum cutting speed.

Drill Fix MULTI

LET'S TAKE YOUR **MANUFACTURING**
TO THE **NEXT LEVEL**

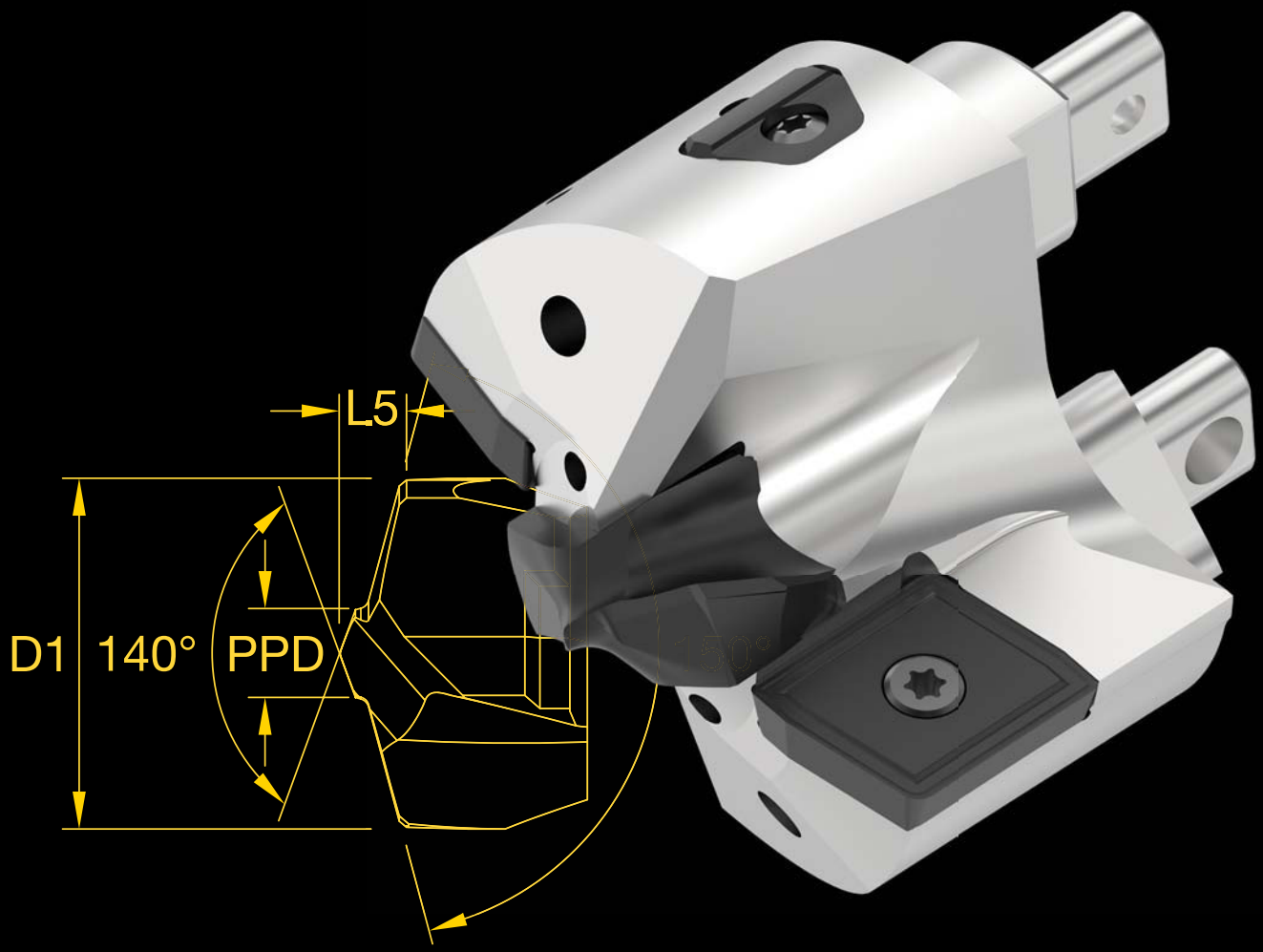
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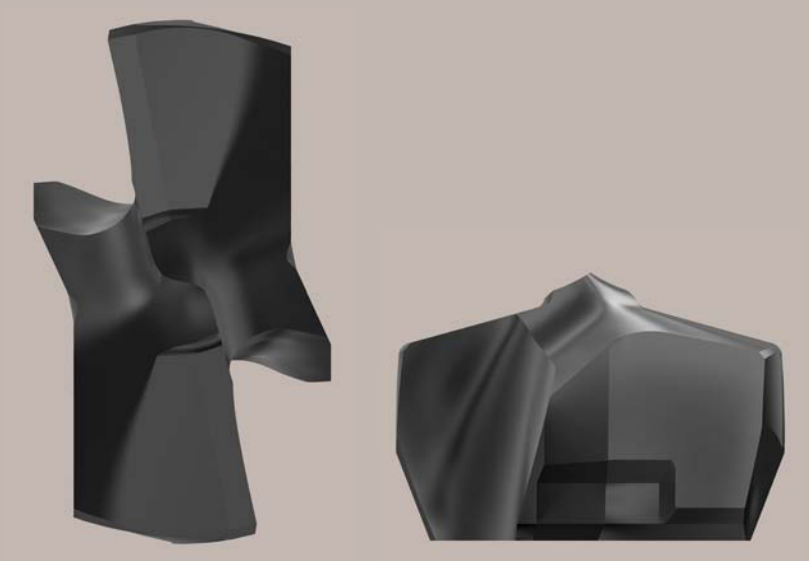
KSEM PLUS™ HPP INSERTS

Large & Deep-Hole Drilling Without Pilot Holes

The KSEM PLUS lineup is getting bigger and better. The new HPP inserts feature a raised center point that supports deep-hole drilling without the need for pilot holes, delivering significantly faster machining capabilities. Developed with leaders in the energy industry, these inserts are ideal for manufacturers that are drilling hundreds of large and deep holes on a daily basis.



PUT PILOT HOLES IN THE PAST



Features & Benefits

- KC7315: TiAlN coated wear-resistant fine-grain carbide for premium tool life under regular drilling conditions
- KCPM45: TiAlN coated medium-grain carbide with maximum chipping resistance for best-in-class tool life under unstable cutting conditions

Materials

PRIMARY	SECONDARY
P Steels	K Cast Iron

Industries

Oil & Gas

Wind & Solar

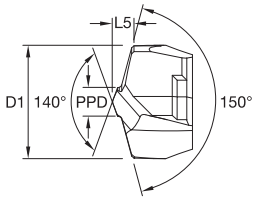
General Engineering

Applications

PRIMARY	SECONDARY	
Drilling	Drilling Inclined Exit	Drilling Stacked Plates

EXPLORE KSEM PLUS





KSEM PLUS • Center Insert • HPP Geometry • Steel and Cast Iron • Deep Hole Drilling

● Primary
○ Secondary

	KC7315	KCPM45
P	●	●
M	○	○
K	○	○
N		
S	○	○
H		

	D1		L5		PPD				
ISO Catalog Number	mm	in	mm	in	mm	in	Insert Size	KC7315	KCPM45
KSEMP1300HPPM	13.00	0.512	2.55	0.100	3.06	0.121	C	7331873	7331970
KSEMP1400HPPM	14.00	0.551	2.72	0.107	3.29	0.130	B	7331874	7332111
KSEMP1500HPPM	15.00	0.591	2.91	0.115	3.53	0.139	A	7331875	7332112
KSEMP1600HPPM	16.00	0.630	3.15	0.124	4.00	0.158	1	7331876	7332113
KSEMP1700HPPM	17.00	0.669	3.28	0.129	4.00	0.158	1	7331877	7332114
KSEMP1800HPPM	18.00	0.709	3.42	0.135	4.00	0.158	1	7331878	7332115
KSEMP1900HPPM	19.00	0.748	3.63	0.143	4.47	0.176	2	7331879	7332116
KSEMP2000HPPM	20.00	0.787	3.87	0.152	4.93	0.194	3	7331880	7332117
KSEMP2100HPPM	21.00	0.827	4.01	0.158	4.93	0.194	3	7332071	7332118
KSEMP2200HPPM	22.00	0.866	4.14	0.163	4.93	0.194	3	7332072	7332119
KSEMP2300HPPM	23.00	0.906	4.36	0.172	5.41	0.213	4	7332073	7332120
KSEMP2400HPPM	24.00	0.945	4.50	0.177	5.41	0.213	4	7332074	7332121
KSEMP2500HPPM	25.00	0.984	4.73	0.186	5.88	0.232	5	7332075	7332122
KSEMP2600HPPM	26.00	1.024	4.86	0.191	5.88	0.232	5	7332076	7332123
KSEMP2700HPPM	27.00	1.063	5.10	0.201	6.35	0.250	6	7332077	7332124
KSEMP2800HPPM	28.00	1.102	5.23	0.206	6.35	0.250	6	7332078	7332125
KSEMP2900HPPM	29.00	1.142	5.45	0.215	6.82	0.269	7	7332079	7332126
KSEMP3000HPPM	30.00	1.181	5.59	0.220	6.82	0.269	7	7332080	7332127
KSEMP3100HPPM	31.00	1.221	5.82	0.229	7.29	0.287	8	7332091	7332128
KSEMP3200HPPM	32.00	1.260	5.96	0.235	7.29	0.287	8	7332092	7332129
KSEMP3300HPPM	33.00	1.299	6.23	0.245	7.99	0.315	9	7332093	7332130
KSEMP3400HPPM	34.00	1.339	6.36	0.250	7.99	0.315	9	7332094	7332131
KSEMP3500HPPM	35.00	1.378	6.50	0.256	7.99	0.315	9	7332095	7332132
KSEMP3600HPPM	36.00	1.417	6.63	0.261	7.99	0.315	9	7332096	7332133
KSEMP3700HPPM	37.00	1.457	6.96	0.274	8.93	0.352	10	7332097	7332134
KSEMP3800HPPM	38.00	1.496	7.09	0.279	8.93	0.352	10	7332098	7332135
KSEMP3900HPPM	39.00	1.535	7.22	0.284	8.93	0.352	10	7332099	7332136
KSEMP4000HPPM	40.00	1.575	7.36	0.290	8.93	0.352	10	7332100	7332137

KSEM PLUS • HPP Geometry
Application Data • Metric

Material Group		Condition	Cutting Speed - Vc		KSEM PLUS METRIC Recommended Feed Rate by Revolution									
			Range - m/min			KSEM 14….17 DFR/ DFC 04... 28.00 - 31.74		KSEM 15….18 DFT/DFC 05.. 31.75 - 35.99		KSEM 13….22 DFT/DFC 06... 36.00 - 44.99		KSEM 18….28 DFT/DFC 07... 45.00 - 55.99		KSEM 20….40 DFT/DFC 06 to 09... 56.00 - 102.35	
			min	max	Ø	min	max	min	max	min	max	min	max	min	max
P	0	S	90	230	mm/r	0.130	0.250	0.130	0.250	0.160	0.320	0.160	0.340	0.180	0.400
		U	70	170	mm/r	0.130	0.250	0.130	0.250	0.160	0.320	0.160	0.340	0.180	0.400
		I	50	110	mm/r	0.130	0.250	0.130	0.250	0.160	0.320	0.160	0.340	0.180	0.400
	1	S	90	230	mm/r	0.130	0.250	0.130	0.250	0.160	0.320	0.160	0.340	0.180	0.400
		U	70	170	mm/r	0.130	0.250	0.130	0.250	0.160	0.320	0.160	0.340	0.180	0.400
		I	50	110	mm/r	0.130	0.250	0.130	0.250	0.160	0.320	0.160	0.340	0.180	0.400
	2	S	90	230	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		U	70	170	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		I	50	110	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
	3	S	90	230	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		U	70	170	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		I	50	105	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
	4	S	90	220	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		U	70	160	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		I	50	110	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
	5	S	90	210	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		U	70	150	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		I	50	100	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
	6	S	70	180	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		U	50	120	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
		I	40	100	mm/r	0.130	0.280	0.130	0.280	0.160	0.320	0.160	0.400	0.180	0.450
K	1	S	90	230	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480
		U	60	160	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480
		I	40	90	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480
	2	S	90	220	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480
		U	60	160	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480
		I	40	100	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480
	3	S	90	210	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480
		U	60	150	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480
		I	35	90	mm/r	0.180	0.300	0.180	0.300	0.210	0.360	0.240	0.420	0.300	0.480

KSEM PLUS • HPP Geometry
Application Data • Inch

Material Group		Condition	Cutting Speed - Vc		KSEM PLUS INCH Recommended Feed Rate by Revolution									
			Range - sfm			KSEM 14….17 DFR/DFC 04... 28.00 - 31.74		KSEM 15….18 DFT/DFC 05.. 31.75 - 35.99		KSEM 13….22 DFT/DFC 06... 36.00 - 44.99		KSEM 18….28 DFT/DFC 07... 45.00 - 55.99		KSEM 20….40 DFT/DFC 06 to 09... 56.00 - 102.35	
			min	max	Ø	min	max	min	max	min	max	min	max	min	max
P	0	S	295	755	ipr	0.005	0.010	0.005	0.010	0.006	0.013	0.006	0.013	0.007	0.016
		U	233	558	ipr	0.005	0.010	0.005	0.010	0.006	0.013	0.006	0.013	0.007	0.016
		I	164	361	ipr	0.005	0.010	0.005	0.010	0.006	0.013	0.006	0.013	0.007	0.016
	1	S	295	755	ipr	0.005	0.010	0.005	0.010	0.006	0.013	0.006	0.013	0.007	0.016
		U	233	558	ipr	0.005	0.010	0.005	0.010	0.006	0.013	0.006	0.013	0.007	0.016
		I	164	361	ipr	0.005	0.010	0.005	0.010	0.006	0.013	0.006	0.013	0.007	0.016
	2	S	295	755	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		U	233	558	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		I	164	361	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
	3	S	295	755	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		U	230	558	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		I	164	361	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
	4	S	295	722	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		U	230	525	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		I	264	361	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
	5	S	295	689	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		U	230	689	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		I	164	492	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
	6	S	230	591	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		U	164	394	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
		I	131	328	ipr	0.005	0.011	0.005	0.011	0.006	0.013	0.006	0.016	0.007	0.018
K	1	S	295	755	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019
		U	197	525	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019
		I	131	295	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019
	2	S	295	722	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019
		U	197	525	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019
		I	131	328	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019
	3	S	295	689	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019
		U	197	492	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019
		I	115	295	ipr	0.007	0.012	0.007	0.012	0.008	0.014	0.009	0.017	0.012	0.019

KSEM PLUS HPP Inserts



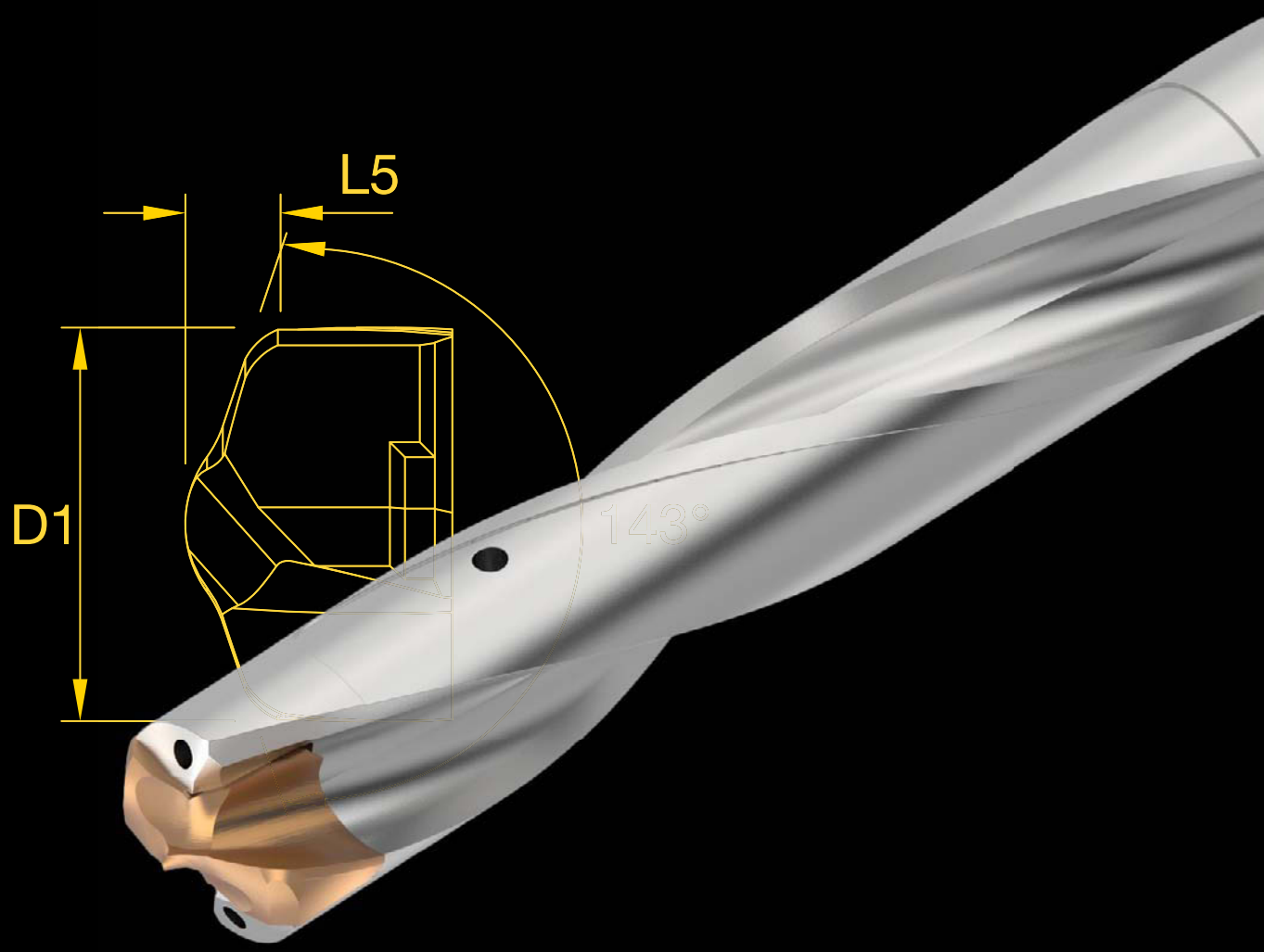
LET'S TAKE YOUR **MANUFACTURING** TO THE **NEXT LEVEL**

kennametal.com/**KSEMPLUS**

KSEM™ HPR Inserts

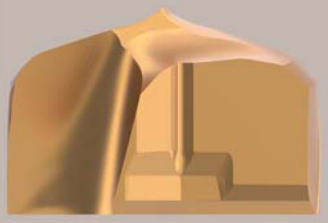
High-Performance Modular Drilling

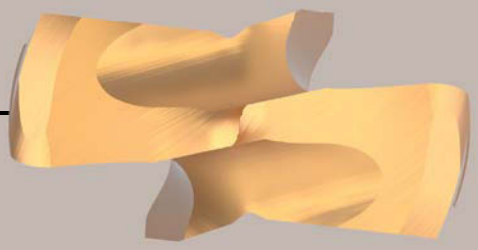
We are enhancing the KSEM portfolio with the proven HPR geometry, delivering next-level drilling performance in cast iron and steels. The HPR point geometry enables drilling at the highest feed rates and delivers excellent centering capabilities for achieving maximum metal removal rates and precision-hole positioning.



Features & Benefits

- Featuring the proven HPR geometry for maximum productivity and precision
- Advanced HPR corner radius for superior tool life and surface finish
- KCPK15A grade provides exceptional wear resistance and enhances process reliability





Materials

PRIMARY

K Cast Iron

SECONDARY

P Steels

Industries

General Engineering

Automotive

EV

Oil & Gas

Wind & Solar

Applications

PRIMARY

Drilling

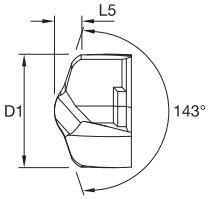
SECONDARY

Drilling Inclined Exit

Drilling Stacked Plates

EXPLORE KSEM





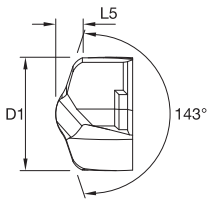


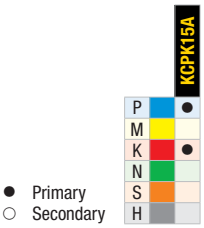
● Primary
○ Secondary

KSEM • Carbide Insert • HPR Geometry

	D1		L5			
ISO Catalog Number	mm	in	mm	in	Insert Size	KCPK15A
KSEM1250HPRM	12.50	0.492	3.13	0.123	C	7382534
KSEM1270HPRM	12.70	0.500	3.18	0.125	C	7382535
KSEM1300HPRM	13.00	0.512	3.25	0.128	C	7382536
KSEM1350HPRM	13.50	0.532	3.38	0.133	C	7382537
KSEM1400HPRM	14.00	0.551	3.50	0.138	B	7382538
KSEM1420HPRM	14.20	0.559	3.55	0.140	B	7382539
KSEM1429HPRM	14.29	0.563	3.57	0.141	B	7382540
KSEM1450HPRM	14.50	0.571	3.63	0.143	B	7382541
KSEM1500HPRM	15.00	0.591	3.75	0.148	A	7382542
KSEM1550HPRM	15.50	0.610	3.88	0.153	A	7382543
KSEM1560HPRM	15.60	0.614	3.90	0.154	A	7382544
KSEM1588HPRM	15.88	0.625	3.97	0.156	1	7382545
KSEM1600HPRM	16.00	0.630	4.00	0.158	1	7382546
KSEM1609HPRM	16.09	0.634	4.02	0.158	1	7382547
KSEM1650HPRM	16.50	0.650	4.13	0.163	1	7382548
KSEM1667HPRM	16.67	0.656	4.17	0.164	1	7382550
KSEM1700HPRM	17.00	0.669	4.25	0.167	1	7382551
KSEM1746HPRM	17.46	0.687	4.37	0.172	1	7382552
KSEM1750HPRM	17.50	0.689	4.38	0.172	1	7382553
KSEM1786HPRM	17.86	0.703	4.47	0.176	1	7382554
KSEM1800HPRM	18.00	0.709	4.50	0.177	1	7382555
KSEM1826HPRM	18.26	0.719	4.57	0.180	2	7382556
KSEM1850HPRM	18.50	0.728	4.63	0.182	2	7382557
KSEM1900HPRM	19.00	0.748	4.75	0.187	2	7382558
KSEM1905HPRM	19.05	0.750	4.76	0.187	2	7382559
KSEM1925HPRM	19.25	0.758	4.81	0.189	2	7382560
KSEM1927HPRM	19.27	0.759	4.82	0.190	2	7382571
KSEM1945HPRM	19.45	0.766	4.86	0.191	2	7382572
KSEM1950HPRM	19.50	0.768	4.88	0.192	2	7382573
KSEM1984HPRM	19.84	0.781	4.96	0.195	2	7382574
KSEM2000HPRM	20.00	0.787	5.00	0.197	3	7382575
KSEM2024HPRM	20.24	0.797	5.06	0.199	3	7382576
KSEM2050HPRM	20.50	0.807	5.13	0.202	3	7382577
KSEM2064HPRM	20.64	0.813	5.16	0.203	3	7382578
KSEM2100HPRM	21.00	0.827	5.25	0.207	3	7382579
KSEM2120HPRM	21.20	0.835	5.30	0.209	3	7382580
KSEM2150HPRM	21.50	0.847	5.38	0.212	3	7382581
KSEM2200HPRM	22.00	0.866	5.50	0.217	3	7382565
KSEM2223HPRM	22.23	0.875	5.56	0.219	4	7382566
KSEM2250HPRM	22.50	0.886	5.63	0.222	4	7382568
KSEM2300HPRM	23.00	0.906	5.75	0.226	4	7382569
KSEM2350HPRM	23.50	0.925	5.88	0.232	4	7382570
KSEM2381HPRM	23.81	0.937	5.95	0.234	4	7382591
KSEM2400HPRM	24.00	0.945	6.00	0.236	4	7382592
KSEM2450HPRM	24.50	0.965	6.13	0.241	5	7382593
KSEM2500HPRM	25.00	0.984	6.25	0.246	5	7382594
KSEM2540HPRM	25.40	1.000	6.32	0.249	5	7382595
KSEM2550HPRM	25.50	1.004	6.34	0.250	5	7382596
KSEM2560HPRM	25.60	1.008	6.36	0.250	5	7382597
KSEM2567HPRM	25.67	1.011	6.37	0.251	5	7382598
KSEM2600HPRM	26.00	1.024	6.43	0.253	5	7382599
KSEM2619HPRM	26.19	1.031	6.46	0.254	6	7382600
KSEM2650HPRM	26.50	1.043	6.52	0.257	6	7382601
KSEM2700HPRM	27.00	1.063	6.61	0.260	6	7382602
KSEM2750HPRM	27.50	1.083	6.70	0.264	6	7382603
KSEM2800HPRM	28.00	1.102	6.79	0.267	6	7382604







● Primary
○ Secondary

KSEM • Carbide Insert • HPR Geometry • Continued

	D1		L5			
ISO Catalog Number	**mm**	**in**	**mm**	**in**	**Insert Size**	**KCPK15A**
KSEM2850HPRM	28.50	1.122	6.88	0.271	7	7382605
KSEM2858HPRM	28.58	1.125	6.89	0.271	7	7382606
KSEM2900HPRM	29.00	1.142	6.97	0.274	7	7382607
KSEM3000HPRM	30.00	1.181	7.15	0.282	7	7382608
KSEM3016HPRM	30.16	1.187	7.17	0.282	8	7382609
KSEM3100HPRM	31.00	1.221	7.33	0.289	8	7382610
KSEM3175HPRM	31.75	1.250	7.46	0.294	8	7382611
KSEM3200HPRM	32.00	1.260	7.50	0.295	8	7382612
KSEM3300HPRM	33.00	1.299	7.68	0.302	9	7382614
KSEM3334HPRM	33.34	1.313	7.74	0.305	9	7382615
KSEM3400HPRM	34.00	1.339	7.86	0.309	9	7382616
KSEM3493HPRM	34.93	1.375	8.03	0.316	9	7382617
KSEM3500HPRM	35.00	1.378	8.04	0.317	9	7382618
KSEM3600HPRM	36.00	1.417	8.22	0.324	9	7382619
KSEM3700HPRM	37.00	1.457	8.40	0.331	10	7382620
KSEM3800HPRM	38.00	1.496	8.58	0.338	10	7382621
KSEM3810HPRM	38.10	1.500	8.60	0.339	10	7382622
KSEM3900HPRM	39.00	1.535	8.76	0.345	10	7382623
KSEM4000HPRM	40.00	1.575	8.94	0.352	10	7382624

KSEM HPR Inserts
Application Data • Metric

Material Group		Cutting Speed - Vc Range - m/min		Metric Recommended Feed Rate by Revolution						
		Min	Max		12.5	16.0	20.0	25.4	32.0	40.0
P	0	75	140	mm/r	0.125 - 0.238	0.146 - 0.290	0.170 - 0.350	0.202 - 0.431	0.242 - 0.530	0.290 - 0.650
	1	75	140	mm/r	0.150 - 0.338	0.171 - 0.390	0.195 - 0.450	0.227 - 0.531	0.267 - 0.630	0.315 - 0.750
	2	90	150	mm/r	0.150 - 0.338	0.171 - 0.390	0.195 - 0.450	0.227 - 0.531	0.267 - 0.630	0.315 - 0.750
	3	50	100	mm/r	0.150 - 0.288	0.171 - 0.340	0.195 - 0.400	0.227 - 0.481	0.267 - 0.580	0.315 - 0.700
	4	55	95	mm/r	0.123 - 0.300	0.140 - 0.342	0.160 - 0.390	0.187 - 0.455	0.220 - 0.534	0.260 - 0.630
	5	50	80	mm/r	0.080 - 0.169	0.094 - 0.188	0.110 - 0.210	0.132 - 0.240	0.158 - 0.276	0.190 - 0.320
	6	50	80	mm/r	0.123 - 0.235	0.140 - 0.270	0.160 - 0.310	0.187 - 0.364	0.220 - 0.430	0.260 - 0.500
K	1	80	200	mm/r	0.188 - 0.440	0.198 - 0.510	0.210 - 0.590	0.226 - 0.698	0.246 - 0.830	0.270 - 0.990
	2	60	180	mm/r	0.188 - 0.440	0.198 - 0.510	0.210 - 0.590	0.226 - 0.698	0.246 - 0.830	0.270 - 0.990
	3	40	100	mm/r	0.138 - 0.428	0.176 - 0.494	0.220 - 0.570	0.279 - 0.673	0.352 - 0.798	0.440 - 0.950

KSEM HPR Inserts
Application Data • Inch

Material Group		Cutting Speed - Vc Range - sfm		INCH Recommended Feed Rate by Revolution						
		Min	Max		.125	.188	.250	.313	.625	.750
P	0	250	460	ipr	0.005 - 0.009	0.006 - 0.011	0.007 - 0.014	0.008 - 0.017	0.010 - 0.021	0.011 - 0.026
	1	250	460	ipr	0.006 - 0.013	0.007 - 0.015	0.008 - 0.018	0.009 - 0.021	0.011 - 0.025	0.012 - 0.030
	2	300	490	ipr	0.006 - 0.013	0.007 - 0.015	0.008 - 0.018	0.009 - 0.021	0.011 - 0.025	0.012 - 0.030
	3	160	330	ipr	0.006 - 0.011	0.007 - 0.013	0.008 - 0.016	0.009 - 0.019	0.011 - 0.023	0.012 - 0.028
	4	180	310	ipr	0.005 - 0.012	0.006 - 0.014	0.006 - 0.015	0.007 - 0.018	0.009 - 0.021	0.010 - 0.025
	5	160	260	ipr	0.003 - 0.007	0.004 - 0.007	0.004 - 0.008	0.005 - 0.009	0.006 - 0.011	0.008 - 0.013
	6	160	260	ipr	0.005 - 0.009	0.006 - 0.011	0.006 - 0.012	0.007 - 0.014	0.009 - 0.017	0.010 - 0.020
K	1	260	660	ipr	0.007 - 0.017	0.008 - 0.020	0.008 - 0.023	0.009 - 0.028	0.010 - 0.033	0.011 - 0.039
	2	200	590	ipr	0.007 - 0.017	0.008 - 0.020	0.008 - 0.023	0.009 - 0.028	0.010 - 0.033	0.011 - 0.039
	3	130	330	ipr	0.005 - 0.017	0.007 - 0.019	0.009 - 0.022	0.011 - 0.027	0.014 - 0.031	0.017 - 0.037

KSEM HPR Inserts

LET'S TAKE YOUR **MANUFACTURING**
TO THE **NEXT LEVEL**

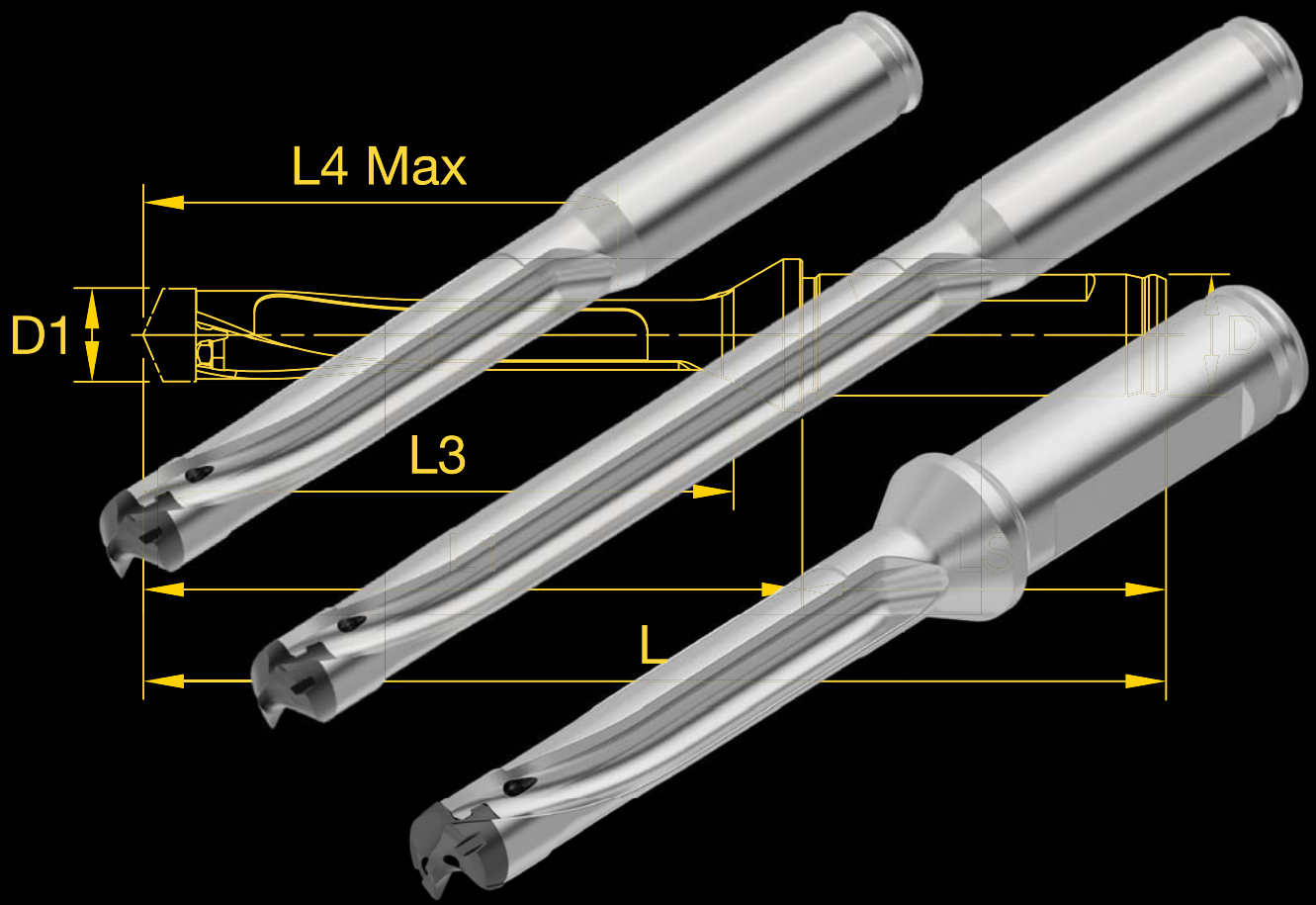
kennametal.com/**KSEM**



KenTIP™ FS STRAIGHT FLUTE DRILL BODIES

Get More Stability and Versatility in Modular Drilling Operations

Available with SCF shanks in 3xD, 5xD, 8xD and SS shanks in 5xD and 8xD, the expanded KenTIP FS straight flute drill body lineup is designed to boost both versatility and performance. Engineered for seamless integration on mills and lathes, these new additions deliver precision and reliability.



Features & Benefits

- For drilling applications on mills or lathes
- Straight chip flutes guarantee hassle-free chip evacuation
- 4-exit coolant delivery system provides excellent temperature control
- Clamping system allows for quick and easy insert change to reduce machine downtime

Materials

UNIVERSAL

P M K N S

Industries

General Engineering

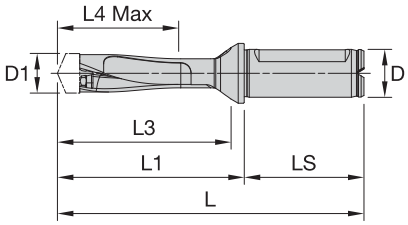
Automotive

Applications

Drilling

EXPLORE KenTIP FS

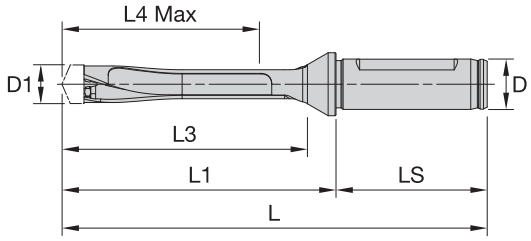




KenTIP FS • Drill Body • 3 x D • Straight Flute • Flanged Shank with Flat

		D1		D1 max								
Order Number	Catalog Number	mm	in	mm	in	L	L4 max	L3	L1	LS	D	SSC
7303491	KTFS080S03SCF12M	8.00	.315	8.50	.335	92.0	26.0	41.5	47.0	45.0	12.0	F
7303492	KTFS085S03SCF12M	8.50	.335	9.00	.354	93.0	27.0	42.5	48.0	45.0	12.0	G
7303493	KTFS090S03SCF12M	9.00	.354	9.50	.374	95.0	29.0	44.5	50.0	45.0	12.0	H
7303494	KTFS095S03SCF12M	9.50	.374	10.00	.394	96.0	30.0	45.5	51.0	45.0	12.0	I
7303495	KTFS100S03SCF16M	10.00	.394	10.50	.413	104.0	32.0	50.5	56.0	48.0	16.0	J
7303496	KTFS105S03SCF16M	10.50	.413	11.00	.433	105.0	33.0	51.5	57.0	48.0	16.0	K
7303497	KTFS110S03SCF16M	11.00	.433	11.50	.453	107.0	35.0	53.5	59.0	48.0	16.0	L
7303498	KTFS115S03SCF16M	11.50	.453	12.00	.472	108.0	36.0	54.5	60.0	48.0	16.0	M
7303499	KTFS120S03SCF16M	12.00	.472	12.50	.492	110.0	38.0	56.5	62.0	48.0	16.0	N
7303500	KTFS125S03SCF16M	12.50	.492	13.00	.512	111.0	39.0	57.5	63.0	48.0	16.0	O
7303501	KTFS130S03SCF16M	13.00	.512	13.50	.531	113.0	41.0	59.5	65.0	48.0	16.0	P
7303502	KTFS135S03SCF16M	13.50	.532	14.00	.551	114.0	42.0	60.5	66.0	48.0	16.0	Q
7303503	KTFS140S03SCF16M	14.00	.551	14.50	.571	116.0	44.0	62.5	68.0	48.0	16.0	R
7303504	KTFS145S03SCF16M	14.50	.571	15.00	.591	117.0	45.0	63.5	69.0	48.0	16.0	S
7303505	KTFS150S03SCF20M	15.00	.591	16.00	.630	125.0	48.0	69.5	75.0	50.0	20.0	T
7303506	KTFS160S03SCF20M	16.00	.630	17.00	.669	128.0	51.0	72.5	78.0	50.0	20.0	U
7303507	KTFS170S03SCF20M	17.00	.669	18.00	.709	131.0	54.0	75.5	81.0	50.0	20.0	V
7303508	KTFS180S03SCF25M	18.00	.709	19.00	.748	143.0	57.0	81.5	87.0	56.0	25.0	W
7303509	KTFS190S03SCF25M	19.00	.748	20.00	.787	146.0	60.0	84.5	90.0	56.0	25.0	X
7303510	KTFS200S03SCF25M	20.00	.787	21.00	.827	149.0	63.0	87.5	93.0	56.0	25.0	Y
7303511	KTFS210S03SCF25M	21.00	.827	22.00	.866	152.0	66.0	90.5	96.0	56.0	25.0	Z
7303512	KTFS220S03SCF25M	22.00	.866	23.00	.905	155.0	69.0	93.5	99.0	56.0	25.0	ZA
7303513	KTFS230S03SCF25M	23.00	.906	24.00	.945	158.0	72.0	96.5	102.0	56.0	25.0	ZB
7303514	KTFS240S03SCF25M	24.00	.945	25.00	.984	161.0	75.0	99.5	105.0	56.0	25.0	ZC
7303515	KTFS250S03SCF25M	25.00	.984	26.00	1.024	164.0	78.0	102.5	108.0	56.0	25.0	ZD

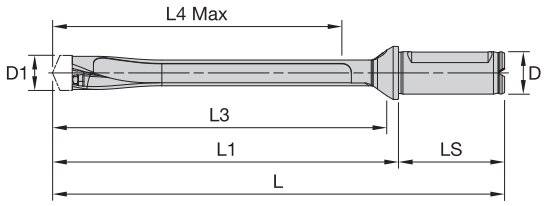




KenTIP FS • Drill Body • 5 x D • Straight Flute • Flanged Shank with Flat

		D1		D1 max								
Order Number	Catalog Number	mm	in	mm	in	L	L4 max	L1	LS	L5	D	SSC
6953931	KTFS080S05SCF12M	8.00	.315	8.50	.335	109.0	43.0	64.0	45.0	1.6	12.0	F
6953932	KTFS085S05SCF12M	8.50	.335	9.00	.354	111.0	45.0	66.0	45.0	1.7	12.0	G
6953933	KTFS090S05SCF12M	9.00	.354	9.50	.374	114.0	48.0	69.0	45.0	1.8	12.0	H
6953934	KTFS095S05SCF12M	9.50	.374	10.00	.394	116.0	50.0	71.0	45.0	1.9	12.0	I
6953935	KTFS100S05SCF16M	10.00	.394	10.50	.413	125.0	53.0	77.0	48.0	2.0	16.0	J
6953936	KTFS105S05SCF16M	10.50	.413	11.00	.433	127.0	55.0	79.0	48.0	2.1	16.0	K
6953937	KTFS110S05SCF16M	11.00	.433	11.50	.453	130.0	58.0	82.0	48.0	2.2	16.0	L
6953938	KTFS115S05SCF16M	11.50	.453	12.00	.472	132.0	60.0	84.0	48.0	2.3	16.0	M
6953939	KTFS120S05SCF16M	12.00	.472	12.50	.492	135.0	63.0	87.0	48.0	2.4	16.0	N
6953940	KTFS125S05SCF16M	12.50	.492	13.00	.512	137.0	65.0	89.0	48.0	2.5	16.0	O
6953941	KTFS130S05SCF16M	13.00	.512	13.50	.531	140.0	68.0	92.0	48.0	2.6	16.0	P
6953942	KTFS135S05SCF16M	13.50	.532	14.00	.551	142.0	70.0	94.0	48.0	2.7	16.0	Q
6953943	KTFS140S05SCF16M	14.00	.551	14.50	.571	145.0	73.0	97.0	48.0	2.8	16.0	R
6953944	KTFS145S05SCF16M	14.50	.571	15.00	.591	147.0	75.0	99.0	48.0	2.9	16.0	S
6953945	KTFS150S05SCF20M	15.00	.591	16.00	.630	157.0	80.0	107.0	50.0	3.0	20.0	T
6953946	KTFS160S05SCF20M	16.00	.630	17.00	.669	162.0	85.0	112.0	50.0	3.2	20.0	U
6953947	KTFS170S05SCF20M	17.00	.669	18.00	.709	167.0	90.0	117.0	50.0	3.4	20.0	V
6953948	KTFS180S05SCF25M	18.00	.709	19.00	.748	181.0	95.0	125.0	56.0	3.6	25.0	W
6953949	KTFS190S05SCF25M	19.00	.748	20.00	.787	186.0	100.0	130.0	56.0	3.8	25.0	X
6953950	KTFS200S05SCF25M	20.00	.787	21.00	.827	191.0	105.0	135.0	56.0	4.0	25.0	Y
6953951	KTFS210S05SCF25M	21.00	.827	22.00	.866	196.0	110.0	140.0	56.0	4.2	25.0	Z
6953952	KTFS220S05SCF25M	22.00	.866	23.00	.905	201.0	115.0	145.0	56.0	4.4	25.0	ZA
6953953	KTFS230S05SCF25M	23.00	.906	24.00	.945	206.0	120.0	150.0	56.0	4.5	25.0	ZB
6953954	KTFS240S05SCF25M	24.00	.945	25.00	.984	211.0	125.0	155.0	56.0	4.8	25.0	ZC
6953955	KTFS250S05SCF25M	25.00	.984	26.00	1.024	216.0	130.0	160.0	56.0	4.9	25.0	ZD

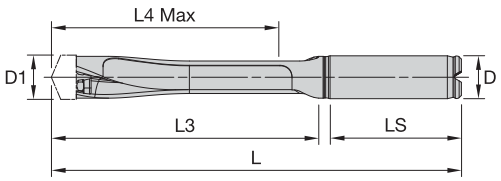




KenTIP FS • Drill Body • 8 x D • Straight Flute • Flanged Shank with Flat

		D1		D1 max								
Order Number	Catalog Number	mm	in	mm	in	L	L4 max	L3	L1	LS	D	SSC
7303438	KTFS080S08SCF12M	8.00	.315	8.50	.335	134.0	68.0	83.5	89.0	45.0	12.0	F
7303439	KTFS085S08SCF12M	8.50	.335	9.00	.354	138.0	72.0	87.5	93.0	45.0	12.0	G
7303440	KTFS090S08SCF12M	9.00	.354	9.50	.374	142.0	76.0	91.5	97.0	45.0	12.0	H
7303551	KTFS095S08SCF12M	9.50	.374	10.00	.394	146.0	80.0	95.5	101.0	45.0	12.0	I
7303552	KTFS100S08SCF16M	10.00	.394	10.50	.413	156.0	84.0	102.5	108.0	48.0	16.0	J
7303553	KTFS105S08SCF16M	10.50	.413	11.00	.433	160.0	88.0	106.5	112.0	48.0	16.0	K
7303554	KTFS110S08SCF16M	11.00	.433	11.50	.453	164.0	92.0	110.5	116.0	48.0	16.0	L
7303555	KTFS115S08SCF16M	11.50	.453	12.00	.472	168.0	96.0	114.5	120.0	48.0	16.0	M
7303556	KTFS120S08SCF16M	12.00	.472	12.50	.492	172.0	100.0	118.5	124.0	48.0	16.0	N
7303557	KTFS125S08SCF16M	12.50	.492	13.00	.512	176.0	104.0	122.5	128.0	48.0	16.0	O
7303558	KTFS130S08SCF16M	13.00	.512	13.50	.531	180.0	108.0	126.5	132.0	48.0	16.0	P
7303559	KTFS135S08SCF16M	13.50	.532	14.00	.551	184.0	112.0	130.5	136.0	48.0	16.0	Q
7303560	KTFS140S08SCF16M	14.00	.551	14.50	.571	188.0	116.0	134.5	140.0	48.0	16.0	R
7303561	KTFS145S08SCF16M	14.50	.571	15.00	.591	192.0	120.0	138.5	144.0	48.0	16.0	S
7303562	KTFS150S08SCF20M	15.00	.591	16.00	.630	205.0	128.0	149.5	155.0	50.0	20.0	T
7303563	KTFS160S08SCF20M	16.00	.630	17.00	.669	213.0	136.0	157.5	163.0	50.0	20.0	U
7303564	KTFS170S08SCF20M	17.00	.669	18.00	.709	221.0	144.0	165.5	171.0	50.0	20.0	V
7303565	KTFS180S08SCF25M	18.00	.709	19.00	.748	238.0	152.0	176.5	182.0	56.0	25.0	W
7303566	KTFS190S08SCF25M	19.00	.748	20.00	.787	246.0	160.0	184.5	190.0	56.0	25.0	X
7303567	KTFS200S08SCF25M	20.00	.787	21.00	.827	254.0	168.0	192.5	198.0	56.0	25.0	Y
7303568	KTFS210S08SCF25M	21.00	.827	22.00	.866	262.0	176.0	200.5	206.0	56.0	25.0	Z
7303569	KTFS220S08SCF25M	22.00	.866	23.00	.905	270.0	184.0	208.5	214.0	56.0	25.0	ZA
7303570	KTFS230S08SCF25M	23.00	.906	24.00	.945	278.0	192.0	216.5	222.0	56.0	25.0	ZB
7303581	KTFS240S08SCF25M	24.00	.945	25.00	.984	286.0	200.0	224.5	230.0	56.0	25.0	ZC
7303582	KTFS250S08SCF25M	25.00	.984	26.00	1.024	294.0	208.0	232.5	238.0	56.0	25.0	ZD

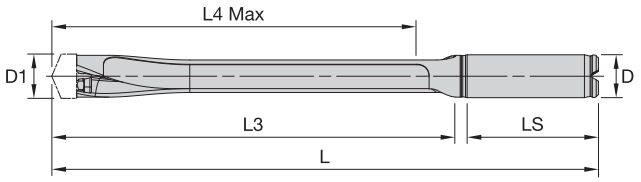




KenTIP FS • Drill Body • 5 x D • Straight Flute • Straight Round Shank

		D1		D1 max							
Order Number	Catalog Number	mm	in	mm	in	L	L4 max	L3	LS	D	SSC
7303521	KTFS080S05SS10M	8.00	.315	8.50	.335	98.0	43.0	54.0	41.0	10.0	F
7303522	KTFS085S05SS10M	8.50	.335	9.00	.354	100.0	45.0	56.0	41.0	10.0	G
7303523	KTFS090S05SS10M	9.00	.354	9.50	.374	103.0	48.0	59.0	41.0	10.0	H
7303524	KTFS095S05SS10M	9.50	.374	10.00	.394	105.0	50.0	61.0	41.0	10.0	I
7303525	KTFS100S05SS12M	10.00	.394	10.50	.413	115.0	53.0	66.0	46.0	12.0	J
7303526	KTFS105S05SS12M	10.50	.413	11.00	.433	117.0	55.0	68.0	46.0	12.0	K
7303527	KTFS110S05SS12M	11.00	.433	11.50	.453	120.0	58.0	71.0	46.0	12.0	L
7303528	KTFS115S05SS12M	11.50	.453	12.00	.472	122.0	60.0	73.0	46.0	12.0	M
7303529	KTFS120S05SS14M	12.00	.472	12.50	.492	127.0	63.0	78.0	46.0	14.0	N
7303530	KTFS125S05SS14M	12.50	.492	13.00	.512	129.0	65.0	80.0	46.0	14.0	O
7303531	KTFS130S05SS14M	13.00	.512	13.50	.531	132.0	68.0	83.0	46.0	14.0	P
7303532	KTFS135S05SS14M	13.50	.532	14.00	.551	134.0	70.0	85.0	46.0	14.0	Q
7303533	KTFS140S05SS16M	14.00	.551	14.50	.571	141.0	73.0	89.0	49.0	16.0	R
7303534	KTFS145S05SS16M	14.50	.571	15.00	.591	143.0	75.0	91.0	49.0	16.0	S
7303535	KTFS150S05SS16M	15.00	.591	16.00	.630	148.0	80.0	96.0	49.0	16.0	T
7303536	KTFS160S05SS16M	16.00	.630	17.00	.669	153.0	85.0	101.0	49.0	16.0	U
7303537	KTFS170S05SS20M	17.00	.669	18.00	.709	163.0	90.0	109.0	51.0	20.0	V
7303538	KTFS180S05SS20M	18.00	.709	19.00	.748	168.0	95.0	114.0	51.0	20.0	W
7303539	KTFS190S05SS20M	19.00	.748	20.00	.787	173.0	100.0	119.0	51.0	20.0	X

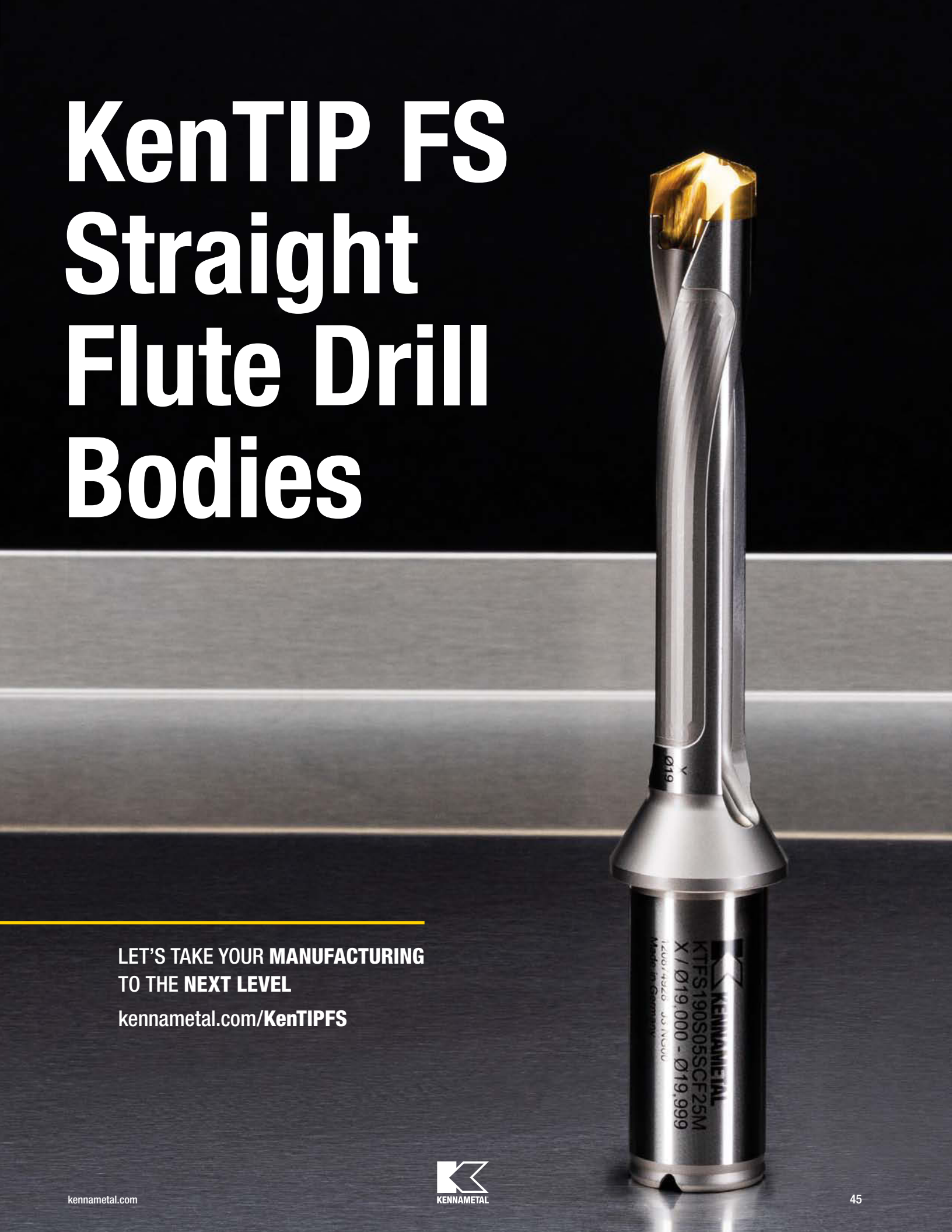




KenTIP FS • Drill Body • 8 x D • Straight Flute • Straight Round Shank

		D1		D1 max							
Order Number	Catalog Number	mm	in	mm	in	L	L4 max	L3	LS	D	SSC
7303583	KTFS080S08SS10M	8.00	.315	8.50	.335	123.0	68.0	79.0	41.0	10.0	F
7303584	KTFS085S08SS10M	8.50	.335	9.00	.354	127.0	72.0	83.0	41.0	10.0	G
7303585	KTFS090S08SS10M	9.00	.354	9.50	.374	131.0	76.0	87.0	41.0	10.0	H
7303587	KTFS095S08SS10M	9.50	.374	10.00	.394	135.0	80.0	91.0	41.0	10.0	I
7303588	KTFS100S08SS12M	10.00	.394	10.50	.413	146.0	84.0	97.0	46.0	12.0	J
7303589	KTFS105S08SS12M	10.50	.413	11.00	.433	150.0	88.0	101.0	46.0	12.0	K
7303590	KTFS110S08SS12M	11.00	.433	11.50	.453	154.0	92.0	105.0	46.0	12.0	L
7303592	KTFS115S08SS12M	11.50	.453	12.00	.472	158.0	96.0	109.0	46.0	12.0	M
7303593	KTFS120S08SS14M	12.00	.472	12.50	.492	164.0	100.0	115.0	46.0	14.0	N
7303594	KTFS125S08SS14M	12.50	.492	13.00	.512	168.0	104.0	119.0	46.0	14.0	O
7303595	KTFS130S08SS14M	13.00	.512	13.50	.531	172.0	108.0	123.0	46.0	14.0	P
7303596	KTFS135S08SS14M	13.50	.532	14.00	.551	176.0	112.0	127.0	46.0	14.0	Q
7303597	KTFS140S08SS16M	14.00	.551	14.50	.571	184.0	116.0	132.0	49.0	16.0	R
7303598	KTFS145S08SS16M	14.50	.571	15.00	.591	188.0	120.0	136.0	49.0	16.0	S
7303599	KTFS150S08SS16M	15.00	.591	16.00	.630	196.0	128.0	144.0	49.0	16.0	T
7303600	KTFS160S08SS16M	16.00	.630	17.00	.669	204.0	136.0	152.0	49.0	16.0	U
7303601	KTFS170S08SS20M	17.00	.669	18.00	.709	217.0	144.0	163.0	51.0	20.0	V
7303602	KTFS180S08SS20M	18.00	.709	19.00	.748	225.0	152.0	171.0	51.0	20.0	W
7303603	KTFS190S08SS20M	19.00	.748	20.00	.787	233.0	160.0	179.0	51.0	20.0	X

KenTIP FS Straight Flute Drill Bodies



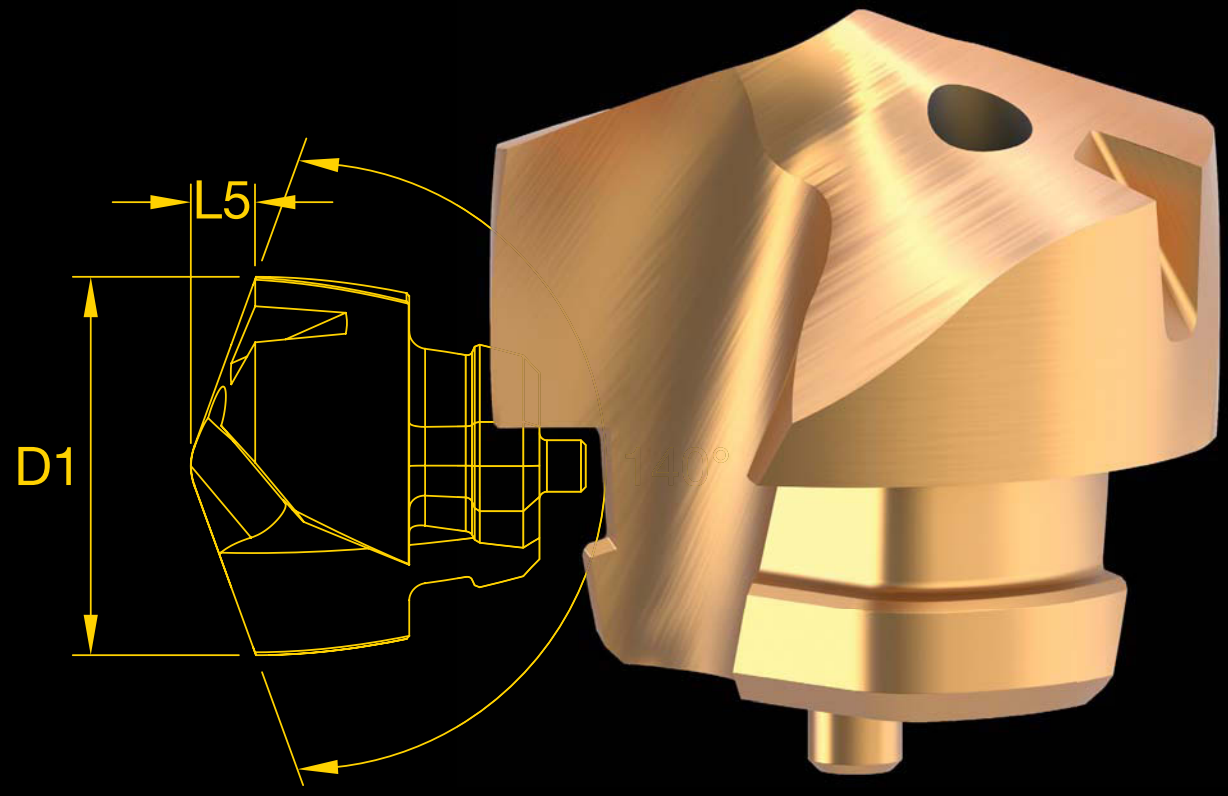
LET'S TAKE YOUR **MANUFACTURING** TO THE **NEXT LEVEL**

kennametal.com/**KenTIPFS**

KenTIP™ FS HP Inserts

Experience the Perfect Blend of Performance and Versatility

When it comes to modular drilling, KenTIP FS HP inserts stand out across a wide range of steel applications. Engineered with internal coolant channels, an advanced design enhances thermal control and lubrication at the insert's cutting edge, improving wear resistance and maintaining strength under high-temperature conditions.



Features & Benefits

- HP geometry enables high productivity in a wide range of materials
- KCPK15A coating provides superior wear resistance and enhances tool life
- Clamping system allows for quick and easy insert change to reduce machine downtime
- 2-margin lands ensure tool stability, providing excellent surface finish and hole straightness

Materials

PRIMARY	SECONDARY
P Steels	K Cast Iron

Industries

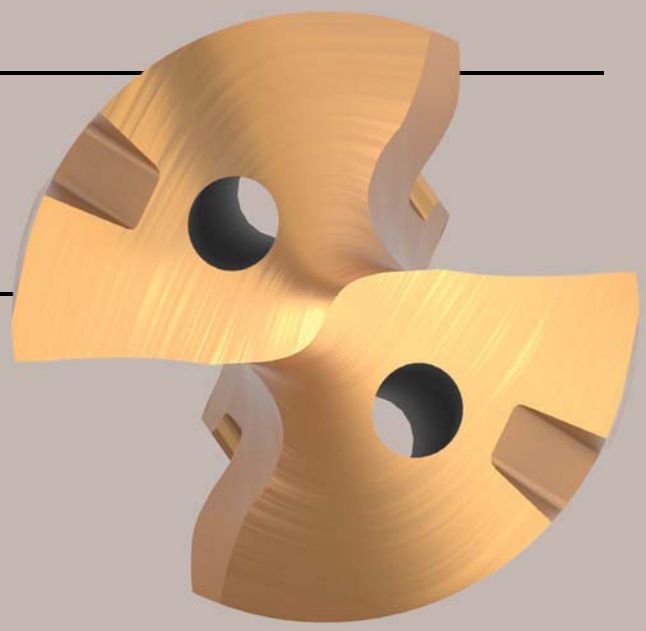
General Engineering

Automotive

EV

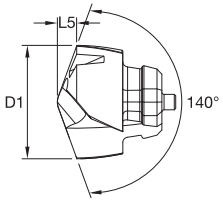
Applications

Drilling



EXPLORE KenTIP FS





KCPK15A

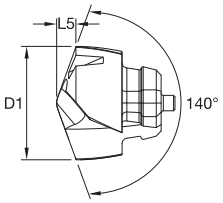
P	●
M	○
K	●
N	
S	○
H	

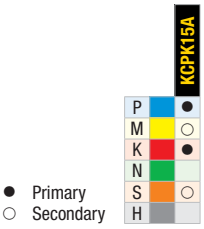
● Primary
○ Secondary

KenTIP FS • Insert • HP Geometry • Steel and Cast Iron

	D1		L5			
ISO Catalog Number	mm	in	mm	in	Insert Size	KCPK15A
KTFST07938HPM	7.94	0.313	1.37	0.054	E	7383137
KTFST08000HPM	8.00	0.315	1.38	0.054	F	7383138
KTFST08500HPM	8.50	0.335	1.47	0.058	G	7383139
KTFST09000HPM	9.00	0.354	1.55	0.061	H	7383140
KTFST09500HPM	9.50	0.374	1.64	0.065	I	7383201
KTFST09525HPM	9.53	0.375	1.64	0.065	I	7383202
KTFST09900HPM	9.90	0.390	1.71	0.067	I	7383203
KTFST10000HPM	10.00	0.394	1.72	0.068	J	7383204
KTFST10200HPM	10.20	0.402	1.76	0.069	J	7383205
KTFST10300HPM	10.30	0.406	1.78	0.070	J	7383206
KTFST10400HPM	10.40	0.409	1.80	0.071	J	7383208
KTFST10500HPM	10.50	0.413	1.81	0.071	K	7383209
KTFST10600HPM	10.60	0.417	1.83	0.072	K	7383210
KTFST10800HPM	10.80	0.425	1.86	0.073	K	7383211
KTFST11000HPM	11.00	0.433	1.90	0.075	L	7383212
KTFST11100HPM	11.10	0.437	1.91	0.075	L	7383213
KTFST11113HPM	11.11	0.438	1.92	0.076	L	7383214
KTFST11200HPM	11.20	0.441	1.93	0.076	L	7383215
KTFST11300HPM	11.30	0.445	1.95	0.077	L	7383216
KTFST11500HPM	11.50	0.453	1.98	0.078	M	7383217
KTFST11800HPM	11.80	0.465	2.04	0.080	M	7383218
KTFST12000HPM	12.00	0.472	2.07	0.082	N	7383219
KTFST12500HPM	12.50	0.492	2.16	0.085	O	7383220
KTFST12600HPM	12.60	0.496	2.17	0.085	O	7383221
KTFST12700HPM	12.70	0.500	2.19	0.086	O	7383222
KTFST12800HPM	12.80	0.504	2.21	0.087	O	7383165
KTFST13000HPM	13.00	0.512	2.24	0.088	P	7383166
KTFST13096HPM	13.10	0.516	2.26	0.089	P	7383167
KTFST13200HPM	13.20	0.520	2.28	0.090	P	7383168
KTFST13300HPM	13.30	0.524	2.30	0.091	P	7383169
KTFST13380HPM	13.38	0.527	2.31	0.091	P	7383170
KTFST13492HPM	13.49	0.531	2.33	0.092	P	7383231
KTFST13500HPM	13.50	0.532	2.33	0.092	Q	7383232
KTFST13600HPM	13.60	0.535	2.35	0.093	Q	7383233
KTFST13700HPM	13.70	0.539	2.36	0.093	Q	7383234
KTFST13800HPM	13.80	0.543	2.38	0.094	Q	7383235
KTFST14000HPM	14.00	0.551	2.41	0.095	R	7383236
KTFST14200HPM	14.20	0.559	2.45	0.097	R	7383237
KTFST14288HPM	14.29	0.563	2.47	0.097	R	7383238
KTFST14500HPM	14.50	0.571	2.50	0.098	S	7383239
KTFST14600HPM	14.60	0.575	2.52	0.099	S	7383240
KTFST15000HPM	15.00	0.591	2.59	0.102	T	7383241
KTFST15100HPM	15.10	0.595	2.60	0.102	T	7383242
KTFST15200HPM	15.20	0.598	2.62	0.103	T	7383243
KTFST15300HPM	15.30	0.602	2.64	0.104	T	7383244
KTFST15479HPM	15.48	0.609	2.67	0.105	T	7383245
KTFST15500HPM	15.50	0.610	2.68	0.106	T	7383246
KTFST15875HPM	15.88	0.625	2.75	0.108	T	7383247
KTFST16000HPM	16.00	0.630	2.76	0.109	U	7383248
KTFST16500HPM	16.50	0.650	2.85	0.112	U	7383249
KTFST16600HPM	16.60	0.654	2.87	0.113	U	7383150
KTFST16670HPM	16.67	0.656	2.88	0.113	U	7383261
KTFST16800HPM	16.80	0.661	2.90	0.114	U	7383262
KTFST17000HPM	17.00	0.669	2.93	0.115	V	7383263
KTFST17100HPM	17.10	0.673	2.95	0.116	V	7383264
KTFST17200HPM	17.20	0.677	2.97	0.117	V	7383265







KenTIP FS • Insert • HP Geometry • Steel and Cast Iron • Continued

	D1		L5			
ISO Catalog Number	mm	in	mm	in	Insert Size	KCPK15A
KTFST17463HPM	17.46	0.688	3.02	0.119	V	7383266
KTFST17500HPM	17.50	0.689	3.02	0.119	V	7383267
KTFST17600HPM	17.60	0.693	3.04	0.120	V	7383268
KTFST17700HPM	17.70	0.697	3.06	0.121	V	7383270
KTFST18000HPM	18.00	0.709	3.10	0.122	W	7383271
KTFST19000HPM	19.00	0.748	3.28	0.129	X	7383272
KTFST19500HPM	19.50	0.768	3.37	0.133	X	7383273
KTFST20000HPM	20.00	0.787	3.45	0.136	Y	7383274
KTFST20638HPM	20.64	0.813	3.56	0.140	Y	7383275
KTFST21000HPM	21.00	0.827	3.62	0.143	Z	7383276
KTFST21500HPM	21.50	0.847	3.71	0.146	Z	7383277
KTFST22000HPM	22.00	0.866	3.79	0.149	ZA	7383278
KTFST22225HPM	22.23	0.875	3.83	0.151	ZA	7383279
KTFST22500HPM	22.50	0.886	3.88	0.153	ZA	7383280
KTFST23000HPM	23.00	0.906	3.97	0.156	ZB	7383281
KTFST24000HPM	24.00	0.945	4.14	0.163	ZC	7383282
KTFST25000HPM	25.00	0.984	4.31	0.170	ZD	7383283
KTFST25400HPM	25.40	1.000	4.38	0.172	ZD	7383284
KTFST26000HPM	26.00	1.024	4.48	0.176	ZD	7383285

KenTIP FS HP Inserts
Application Data • Metric

Material Group		Cutting Speed - Vc Range - m/min		Metric Recommended Feed Rate by Revolution							
		min	max	6.0	8.0	10.0	12.0	16.0	20.0	24.0	26.0
P	0	80	160	0.09 - 0.18	0.12 - 0.24	0.14 - 0.28	0.16 - 0.33	0.20 - 0.41	0.23 - 0.47	0.26 - 0.53	0.28 - 0.56
	1	80	160	0.09 - 0.18	0.12 - 0.24	0.14 - 0.28	0.16 - 0.33	0.20 - 0.41	0.23 - 0.47	0.26 - 0.53	0.28 - 0.56
	2	80	160	0.09 - 0.18	0.12 - 0.24	0.14 - 0.28	0.16 - 0.33	0.20 - 0.41	0.23 - 0.47	0.26 - 0.53	0.28 - 0.56
	3	60	130	0.09 - 0.18	0.12 - 0.24	0.14 - 0.28	0.16 - 0.33	0.20 - 0.41	0.23 - 0.47	0.26 - 0.53	0.28 - 0.56
	4	60	130	0.09 - 0.18	0.12 - 0.24	0.14 - 0.28	0.16 - 0.33	0.20 - 0.41	0.23 - 0.47	0.26 - 0.53	0.28 - 0.56
	5	50	100	0.07 - 0.14	0.10 - 0.19	0.12 - 0.24	0.14 - 0.28	0.18 - 0.36	0.21 - 0.43	0.24 - 0.49	0.26 - 0.52
	6	50	80	0.07 - 0.14	0.10 - 0.19	0.12 - 0.24	0.14 - 0.28	0.18 - 0.36	0.21 - 0.43	0.24 - 0.49	0.26 - 0.52
M	1	30	70	0.06 - 0.10	0.08 - 0.13	0.10 - 0.15	0.11 - 0.17	0.14 - 0.20	0.16 - 0.23	0.18 - 0.26	0.19 - 0.27
	2	30	70	0.06 - 0.10	0.08 - 0.13	0.10 - 0.15	0.11 - 0.17	0.14 - 0.20	0.16 - 0.23	0.18 - 0.26	0.19 - 0.27
	3	20	60	0.06 - 0.10	0.08 - 0.13	0.10 - 0.15	0.11 - 0.17	0.14 - 0.20	0.16 - 0.23	0.18 - 0.26	0.19 - 0.27
K	1	100	180	0.12 - 0.27	0.15 - 0.32	0.18 - 0.38	0.21 - 0.42	0.26 - 0.50	0.30 - 0.58	0.34 - 0.64	0.36 - 0.67
	2	90	170	0.12 - 0.27	0.15 - 0.32	0.18 - 0.38	0.21 - 0.42	0.26 - 0.50	0.30 - 0.58	0.34 - 0.64	0.36 - 0.67
	3	70	110	0.10 - 0.20	0.13 - 0.26	0.15 - 0.30	0.18 - 0.34	0.22 - 0.41	0.26 - 0.48	0.29 - 0.54	0.31 - 0.56
S	1	10	30	0.05 - 0.09	0.06 - 0.10	0.07 - 0.12	0.08 - 0.13	0.10 - 0.15	0.11 - 0.17	0.12 - 0.19	0.13 - 0.21
	2	10	30	0.05 - 0.09	0.06 - 0.10	0.07 - 0.12	0.08 - 0.13	0.10 - 0.15	0.11 - 0.17	0.12 - 0.19	0.13 - 0.21
	3	15	35	0.05 - 0.09	0.06 - 0.10	0.07 - 0.12	0.08 - 0.13	0.10 - 0.15	0.11 - 0.17	0.12 - 0.19	0.13 - 0.21
	4	20	40	0.04 - 0.07	0.05 - 0.09	0.05 - 0.10	0.07 - 0.12	0.08 - 0.13	0.08 - 0.13	0.09 - 0.15	0.10 - 0.17

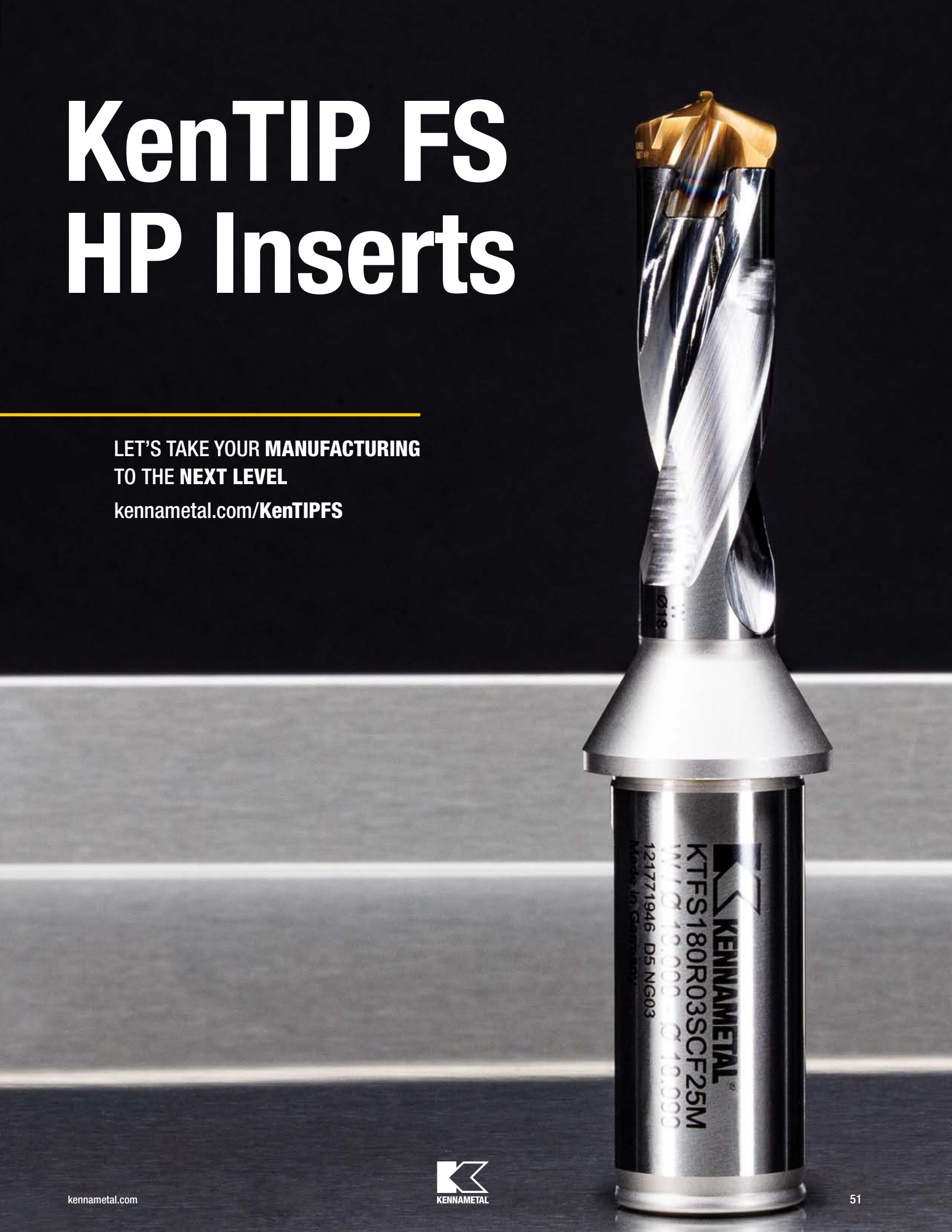
KenTIP FS HP Inserts
Application Data • Inch

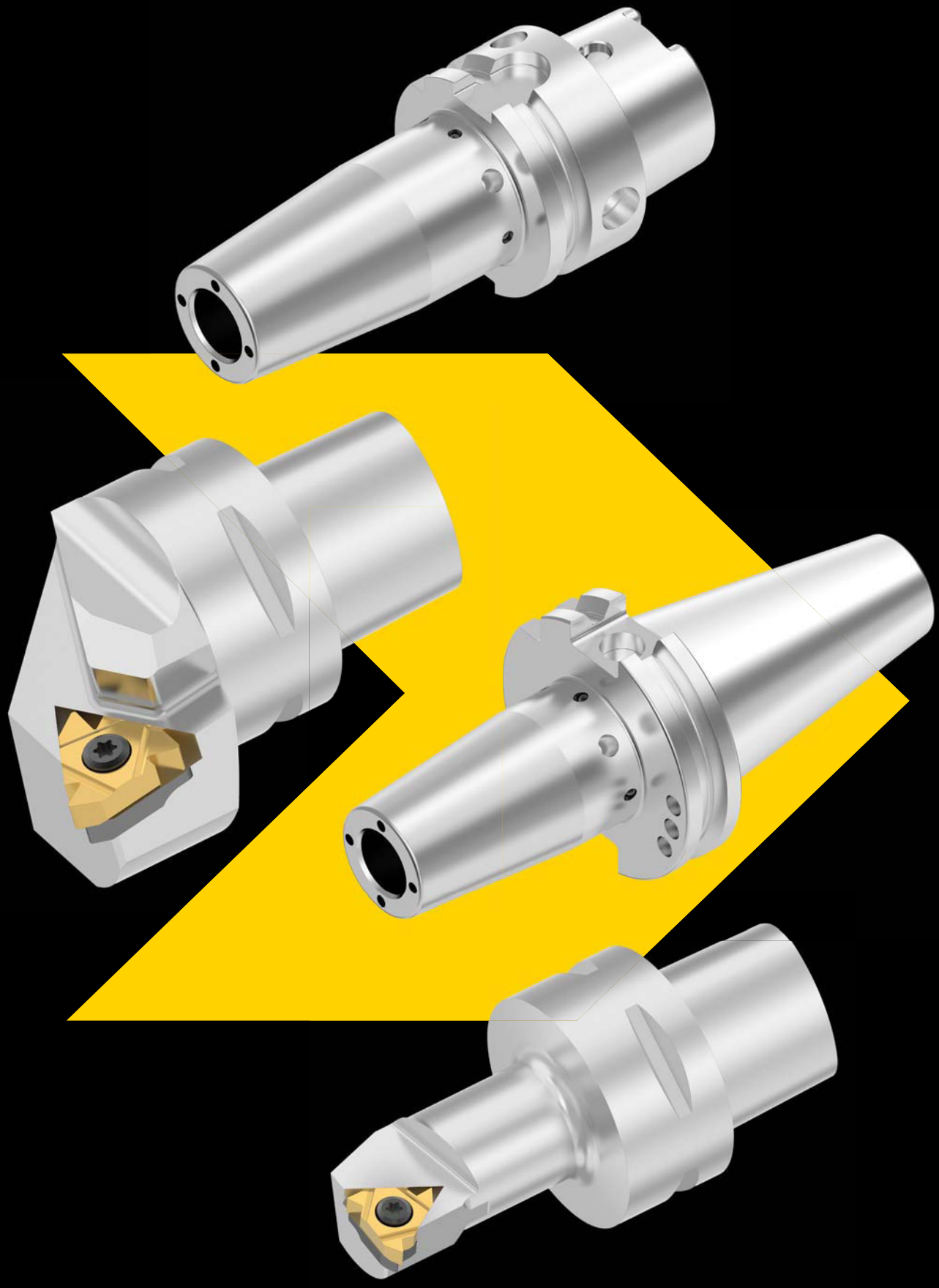
Material Group		Cutting Speed - Vc Range - sfm		INCH Recommended Feed Rate by Revolution								
		min	max		0.236	0.315	0.394	0.472	0.630	0.787	0.945	1.024
P	0	260	520	ipr	.004 - .007	.005 - .009	.006 - .011	.006 - .013	.008 - .016	.009 - .019	.010 - .021	.011 - .022
	1	260	520	ipr	.004 - .007	.005 - .009	.006 - .011	.006 - .013	.008 - .016	.009 - .019	.010 - .021	.011 - .022
	2	260	520	ipr	.004 - .007	.005 - .009	.006 - .011	.006 - .013	.008 - .016	.009 - .019	.010 - .021	.011 - .022
	3	200	430	ipr	.004 - .007	.005 - .009	.006 - .011	.006 - .013	.008 - .016	.009 - .019	.010 - .021	.011 - .022
	4	200	430	ipr	.004 - .007	.005 - .009	.006 - .011	.006 - .013	.008 - .016	.009 - .019	.010 - .021	.011 - .022
	5	160	330	ipr	.003 - .006	.004 - .008	.005 - .009	.006 - .011	.007 - .014	.008 - .017	.009 - .019	.010 - .021
	6	160	260	ipr	.003 - .006	.004 - .008	.005 - .009	.006 - .011	.007 - .014	.008 - .017	.009 - .019	.010 - .021
M	1	100	230	ipr	.002 - .004	.003 - .005	.004 - .006	.004 - .007	.006 - .008	.006 - .009	.007 - .010	.008 - .011
	2	100	230	ipr	.002 - .004	.003 - .005	.004 - .006	.004 - .007	.006 - .008	.006 - .009	.007 - .010	.008 - .011
	3	70	200	ipr	.002 - .004	.003 - .005	.004 - .006	.004 - .007	.006 - .008	.006 - .009	.007 - .010	.008 - .011
K	1	330	590	ipr	.005 - .011	.006 - .013	.007 - .015	.008 - .017	.010 - .020	.012 - .023	.013 - .025	.014 - .026
	2	300	560	ipr	.005 - .011	.006 - .013	.007 - .015	.008 - .017	.010 - .020	.012 - .023	.013 - .025	.014 - .026
	3	230	360	ipr	.004 - .008	.005 - .010	.006 - .012	.007 - .013	.009 - .016	.010 - .019	.011 - .021	.012 - .022
S	1	30	100	ipr	.002 - .004	.002 - .004	.003 - .005	.003 - .005	.004 - .006	.004 - .007	.005 - .008	.005 - .008
	2	30	100	ipr	.002 - .004	.002 - .004	.003 - .005	.003 - .005	.004 - .006	.004 - .007	.005 - .008	.005 - .008
	3	50	110	ipr	.002 - .004	.002 - .004	.003 - .005	.003 - .005	.004 - .006	.004 - .007	.005 - .008	.005 - .008
	4	70	130	ipr	.002 - .003	.002 - .004	.002 - .004	.003 - .005	.003 - .005	.003 - .005	.004 - .006	.004 - .007

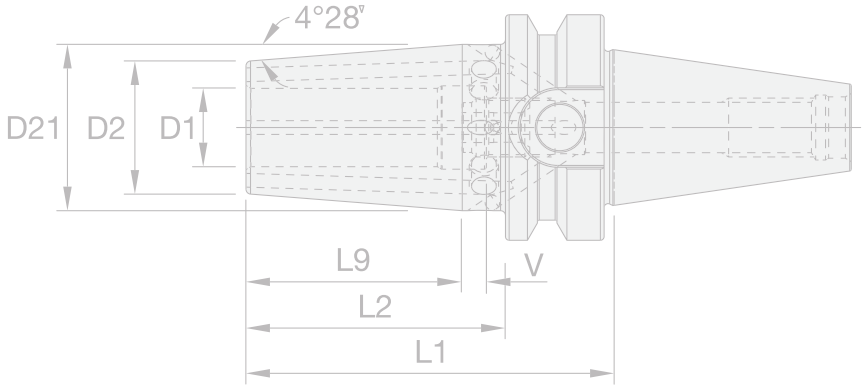
KenTIP FS HP Inserts

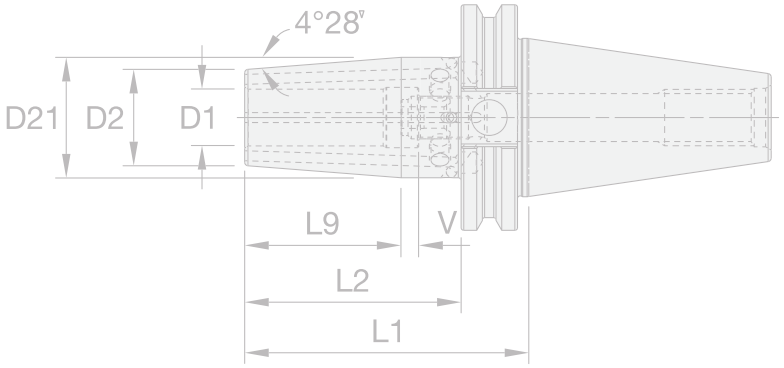
LET'S TAKE YOUR **MANUFACTURING** TO THE **NEXT LEVEL**

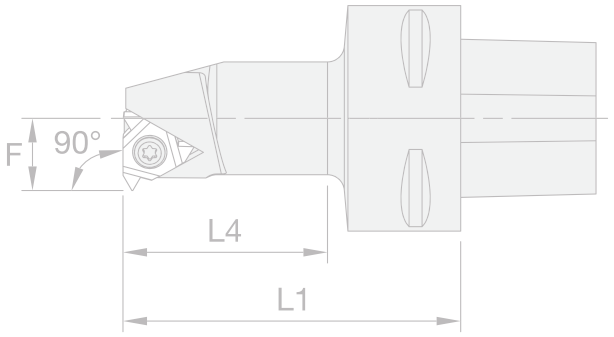
kennametal.com/**KenTIPFS**

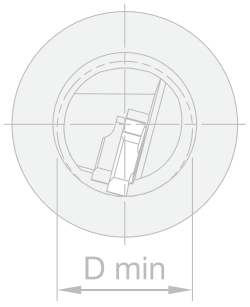


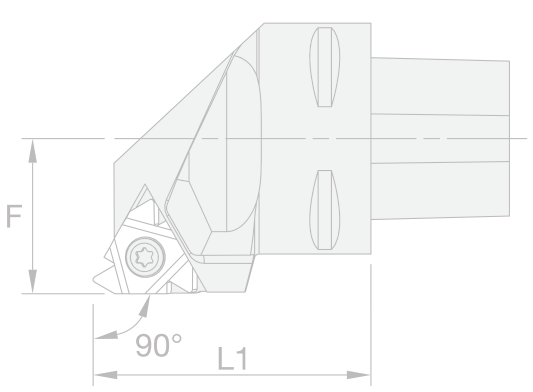


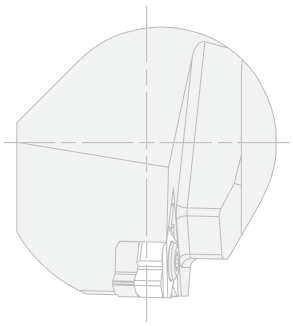

4°28'
D21
D2
D1
L9
V
L2
L1


4°28'
D21
D2
D1
L9
V
L2
L1


F
90°
L4
L1


D min

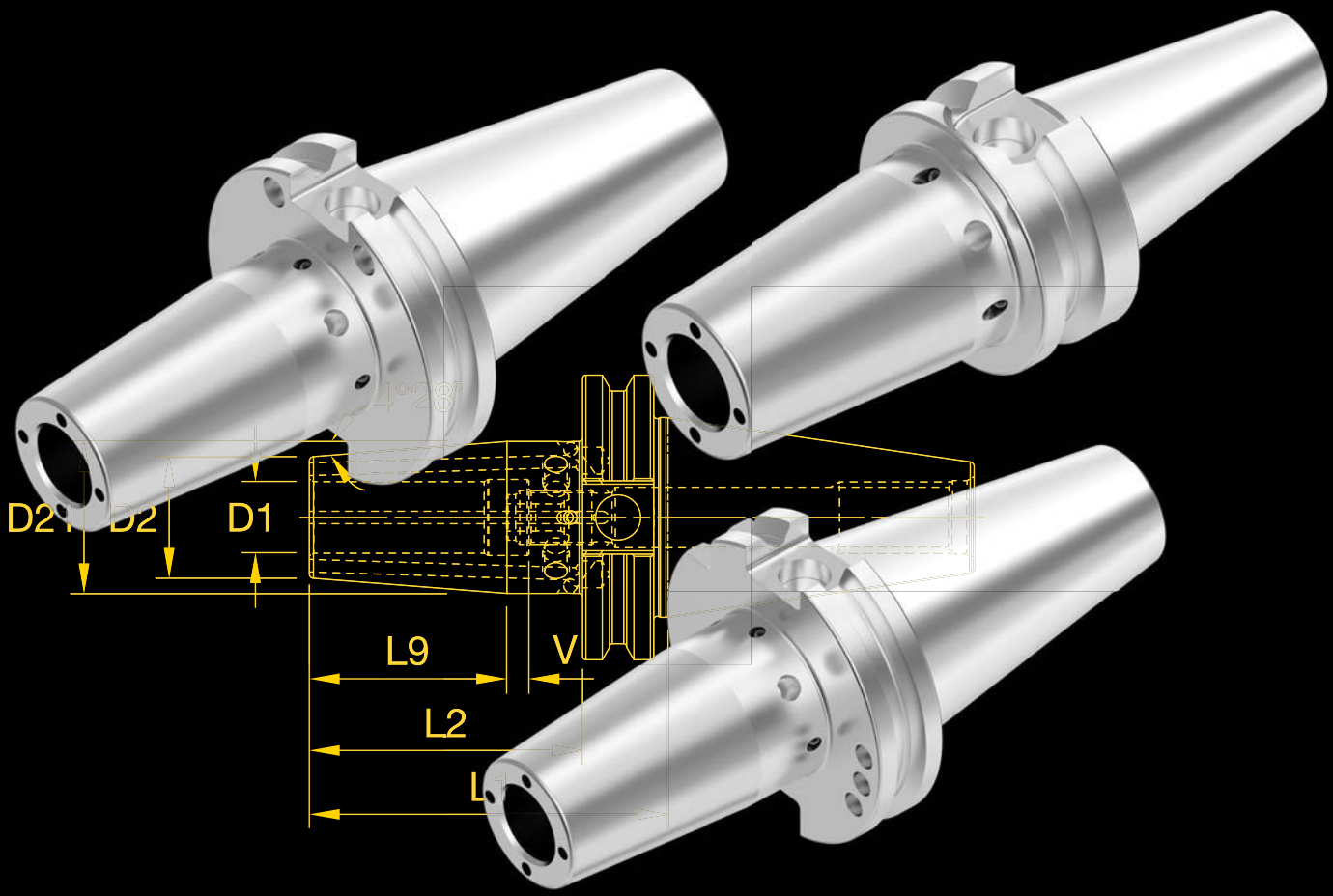

F
90°
L1



Shrink Fit Adapters

Now Featuring Face Coolant

This tooling system features a benchmark-proven design that's built for the most demanding applications and now can deliver direct coolant flow to the cutting area for efficient chip clearance.



Materials

UNIVERSAL

P M K N S H C

Industries

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Oil & Gas

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Applications

Milling

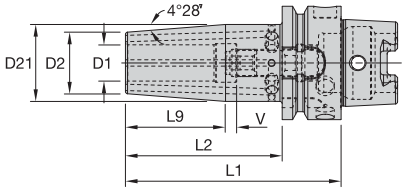
Drilling

Reaming



EXPLORE
Shrink Fit Adapters

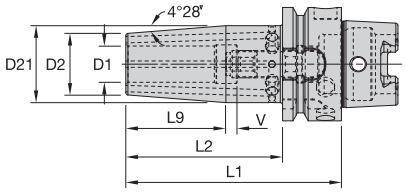




HSK50A Shrink Fit Toolholders • FC Line • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7375161	HSK50ATTFC06080M	6	21	27	80	54	26	10	0.57
7375162	HSK50ATTFC08080M	8	21	27	80	54	26	10	0.56
7375163	HSK50ATTFC10085M	10	24	32	85	59	31	10	0.64
7375164	HSK50ATTFC12090M	12	24	32	90	64	36	10	0.65
7375165	HSK50ATTFC16095M	16	27	34	95	69	39	10	0.70
7375166	HSK50ATTFC20100M	20	33	41	100	74	41	10	0.88

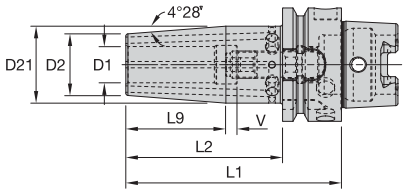




HSK50A Shrink Fit Toolholders • FC Line • Inch

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	lbs
7375546	HSK50ATTFC025315	0.250	0.827	1.059	3.150	2.128	1.024	0.394	1.240
7375547	HSK50ATTFC031315	0.313	0.827	1.059	3.150	2.128	1.024	0.394	1.240
7375548	HSK50ATTFC038335	0.375	0.945	1.256	3.347	2.325	1.221	0.394	1.410
7375549	HSK50ATTFC050354	0.500	0.945	1.256	3.543	2.522	1.417	0.394	1.420
7375550	HSK50ATTFC062374	0.625	1.063	1.335	3.740	2.719	1.535	0.394	1.550
7375561	HSK50ATTFC075394	0.750	1.299	1.614	3.937	2.915	1.614	0.394	1.970

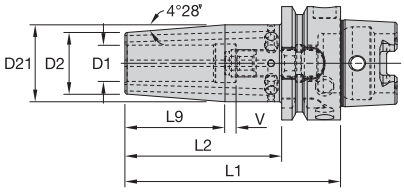




HSK63A Shrink Fit Toolholders • FC Line • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7375075	HSK63ATTFC06080M	6	21	27	80	54	26	10	0.82
7375076	HSK63ATTFC08080M	8	21	27	80	54	26	10	0.82
7375077	HSK63ATTFC10085M	10	24	32	85	59	31	10	0.89
7375078	HSK63ATTFC12090M	12	24	32	90	64	36	10	0.90
7375079	HSK63ATTFC16095M	16	27	34	95	69	39	10	0.96
7375080	HSK63ATTFC20100M	20	33	42	100	74	41	10	1.15
7375101	HSK63ATTFC25115M	25	44	53	115	89	47	10	1.71

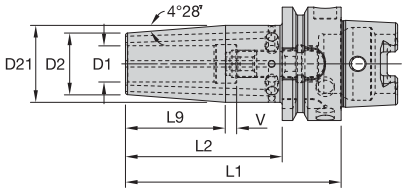




HSK63A Shrink Fit Toolholders • FC Line • Inch

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	lbs
7375523	HSK63ATTFC025315	0.250	0.827	1.059	3.150	2.128	1.024	0.394	1.810
7375524	HSK63ATTFC031315	0.313	0.827	1.059	3.150	2.128	1.024	0.394	1.800
7375525	HSK63ATTFC038335	0.375	0.945	1.240	3.347	2.325	1.221	0.394	1.970
7375526	HSK63ATTFC050354	0.500	0.945	1.256	3.543	2.522	1.417	0.394	1.990
7375527	HSK63ATTFC062374	0.625	1.063	1.335	3.740	2.719	1.535	0.394	2.110
7375528	HSK63ATTFC075394	0.750	1.299	1.650	3.937	2.915	1.614	0.394	2.530
7375529	HSK63ATTFC100453	1.000	1.732	2.067	4.528	3.506	1.850	0.394	3.760

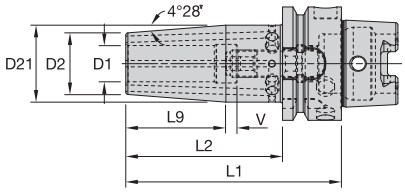




HSK100A Shrink Fit Toolholders • FC Line • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7375084	HSK100ATTFC06085M	6	21	27	85	56	26	10	2.18
7375085	HSK100ATTFC08085M	8	21	27	85	56	26	10	2.17
7375086	HSK100ATTFC10090M	10	24	32	90	61	31	10	2.25
7375087	HSK100ATTFC12095M	12	24	32	95	66	36	10	2.26
7375088	HSK100ATTFC16100M	16	27	34	100	71	39	10	2.31
7375089	HSK100ATTFC20105M	20	33	42	105	76	41	10	2.51
7375090	HSK100ATTFC25115M	25	44	53	115	86	47	10	3.03

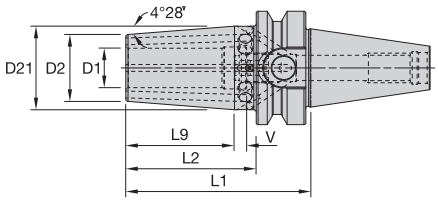




HSK100A Shrink Fit Toolholders • FC Line • Inch

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	lbs
7375596	HSK100ATTFC025335	0.250	0.827	1.059	3.347	2.207	1.024	0.394	4.800
7375597	HSK100ATTFC031335	0.313	0.827	1.059	3.347	2.207	1.024	0.394	4.780
7375598	HSK100ATTFC038354	0.375	0.945	1.256	3.543	2.404	1.221	0.394	4.960
7375599	HSK100ATTFC050374	0.500	0.945	1.256	3.740	2.600	1.417	0.394	4.970
7375600	HSK100ATTFC062394	0.625	1.063	1.335	3.937	2.797	1.535	0.394	5.110
7375611	HSK100ATTFC075413	0.750	1.299	1.650	4.134	2.994	1.614	0.394	5.570
7375612	HSK100ATTFC100453	1.000	1.732	2.083	4.528	3.388	1.850	0.394	6.660

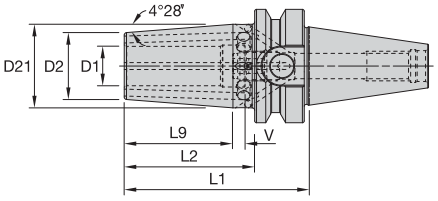




BT30 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7380277	BT30TTFC06075M	6	21	27	75	53	26	10	0.55
7380278	BT30TTFC08075M	8	21	27	75	53	26	10	0.54
7380279	BT30TTFC10075M	10	24	31	75	53	31	10	0.59
7380280	BT30TTFC12075M	12	24	31	75	53	36	10	0.57
7380341	BT30TTFC16075M	16	27	34	75	53	39	10	0.58
7380342	BT30TTFC20090M	20	33	41	90	68	41	10	0.81

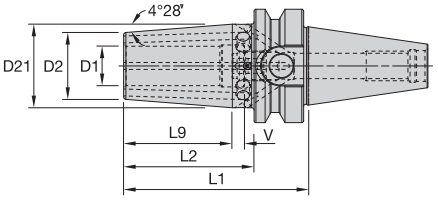




BT30 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Inch

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	lbs
7375496	BT30TTFC025295	0.250	0.827	1.059	2.953	2.083	1.024	0.394	1.210
7375497	BT30TTFC031295	0.313	0.827	1.059	2.953	2.083	1.024	0.394	1.200
7375498	BT30TTFC038295	0.375	0.945	1.221	2.953	2.083	1.221	0.394	1.290
7375499	BT30TTFC050295	0.500	0.945	1.221	2.953	2.083	1.417	0.394	1.240
7375571	BT30TTFC062295	0.625	1.063	1.335	2.953	2.083	1.535	0.394	1.280
7375572	BT30TTFC075354	0.750	1.299	1.611	3.543	2.673	1.614	0.394	1.800

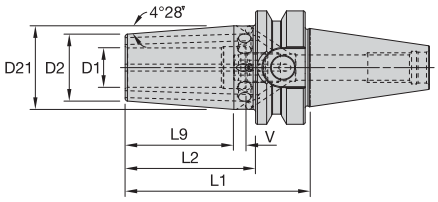




BT40 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7374926	BT40TTFC06090M	6	21	27	90	63	26	10	1.16
7374927	BT40TTFC08090M	8	21	27	90	63	26	10	1.15
7374928	BT40TTFC10090M	10	24	32	90	63	31	10	1.21
7374929	BT40TTFC12090M	12	24	32	90	63	36	10	1.19
7374930	BT40TTFC16090M	16	27	34	90	63	39	10	1.22
7375131	BT40TTFC20090M	20	33	41	90	63	41	10	1.33
7375132	BT40TTFC25100M	25	44	53	100	73	47	10	1.75

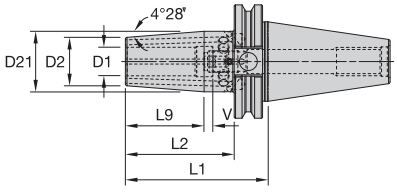




BT50 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7375141	BT50TTFC06100M	6	21	27	100	62	26	10	3.71
7375142	BT50TTFC08100M	8	21	27	100	62	26	10	3.70
7375143	BT50TTFC10100M	10	24	32	100	62	31	10	3.76
7375144	BT50TTFC12100M	12	24	32	100	62	36	10	3.74
7375145	BT50TTFC16100M	16	27	34	100	62	39	10	3.76
7375146	BT50TTFC20100M	20	33	41	100	62	41	10	3.87
7375147	BT50TTFC25100M	25	44	52	100	62	47	10	4.15

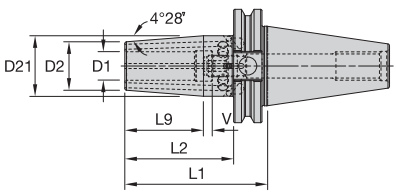




CV40 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7375509	CV40TTFC06M315	6	21	27	80	61	26	10	1.01
7375510	CV40TTFC08M315	8	21	27	80	61	26	10	1.00
7375591	CV40TTFC10M315	10	24	32	80	61	31	10	1.06
7375592	CV40TTFC12M315	12	24	32	80	61	36	10	1.04
7375593	CV40TTFC16M315	16	27	34	80	61	39	10	1.06
7375594	CV40TTFC20M315	20	33	41	80	61	41	10	1.17
7375595	CV40TTFC25M394	25	44	53	100	81	47	10	1.66

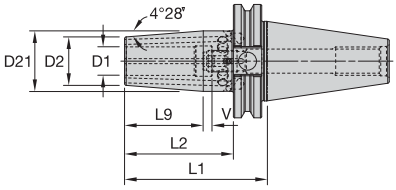




CV40 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Inch

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	lbs
7375574	CV40TTFC025315	0.250	0.827	1.059	3.150	2.400	1.024	0.394	2.220
7375575	CV40TTFC031315	0.313	0.827	1.059	3.150	2.400	1.024	0.394	2.200
7375576	CV40TTFC038315	0.375	0.945	1.256	3.150	2.400	1.221	0.394	2.340
7375577	CV40TTFC050315	0.500	0.945	1.256	3.150	2.400	1.417	0.394	2.290
7375578	CV40TTFC062315	0.625	1.063	1.335	3.150	2.400	1.535	0.394	2.350
7375579	CV40TTFC075315	0.750	1.299	1.614	3.150	2.400	1.614	0.394	2.610
7375580	CV40TTFC100394	1.000	1.732	2.083	3.937	3.187	1.850	0.394	3.640

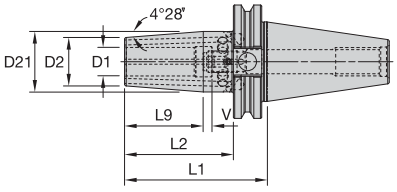




CV50 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7375484	CV50TTFC06M315	6	21	27	80	61	26	10	2.72
7375485	CV50TTFC08M315	8	21	27	80	61	26	10	2.71
7375486	CV50TTFC10M315	10	24	32	80	61	31	10	2.77
7375487	CV50TTFC12M315	12	24	32	80	61	36	10	2.74
7375488	CV50TTFC16M315	16	27	34	80	61	39	10	2.76
7375489	CV50TTFC20M315	20	33	42	80	61	41	10	2.88
7375490	CV50TTFC25M394	25	44	53	100	81	47	10	3.43

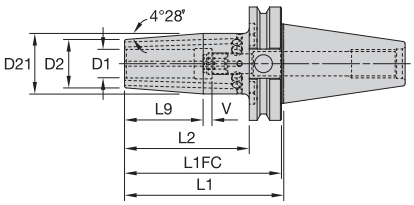




CV50 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Inch

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	lbs
7375563	CV50TTFC025315	0.250	0.827	1.059	3.150	2.400	1.024	0.394	5.990
7375564	CV50TTFC031315	0.313	0.827	1.059	3.150	2.400	1.024	0.394	5.980
7375565	CV50TTFC038315	0.375	0.945	1.256	3.150	2.400	1.221	0.394	6.110
7375566	CV50TTFC050315	0.500	0.945	1.256	3.150	2.400	1.417	0.394	6.050
7375567	CV50TTFC062315	0.625	1.063	1.335	3.150	2.400	1.535	0.394	6.120
7375568	CV50TTFC075315	0.750	1.299	1.614	3.150	2.400	1.614	0.394	6.390
7375569	CV50TTFC100394	1.000	1.732	2.083	3.937	3.187	1.850	0.394	6.390

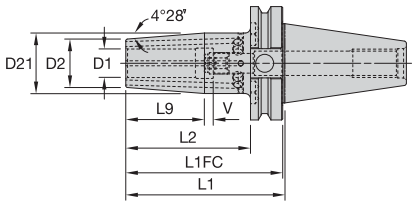




CVKV40 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L1FC	L2	L9	V	kg
7375551	CVKV40TTFC06M350	6	21	27	89	88	70	26	10	1.07
7375552	CVKV40TTFC08M350	8	21	27	89	88	70	26	10	1.06
7375553	CVKV40TTFC10M350	10	24	32	89	88	70	31	10	1.13
7375554	CVKV40TTFC12M350	12	24	32	89	88	70	36	10	1.11
7375555	CVKV40TTFC16M350	16	27	34	89	88	70	39	10	1.14
7375556	CVKV40TTFC20M400	20	33	42	102	101	83	41	10	1.40
7375557	CVKV40TTFC25M400	25	44	53	102	101	83	47	10	1.70

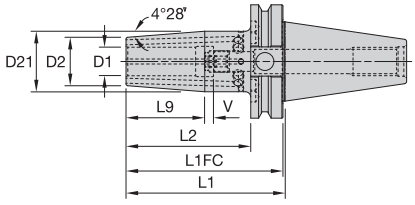




CVKV40 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Inch

Order Number	Catalog Number	D1	D2	D21	L1	L1FC	L2	L9	V	lbs
7375449	CVKV40TTFC025350	0.250	0.827	1.059	3.500	3.460	2.750	1.024	0.394	2.350
7375450	CVKV40TTFC031350	0.313	0.827	1.059	3.500	3.460	2.750	1.024	0.394	2.330
7375501	CVKV40TTFC038375	0.375	0.945	1.256	3.750	3.710	3.000	1.221	0.394	2.580
7375502	CVKV40TTFC050375	0.500	0.945	1.256	3.750	3.710	3.000	1.417	0.394	2.520
7375503	CVKV40TTFC062375	0.625	1.063	1.335	3.750	3.710	3.000	1.535	0.394	2.600
7375504	CVKV40TTFC075400	0.750	1.299	1.650	4.000	3.960	3.250	1.614	0.394	3.120
7375505	CVKV40TTFC100400	1.000	1.732	2.083	4.000	3.960	3.250	1.850	0.394	3.750

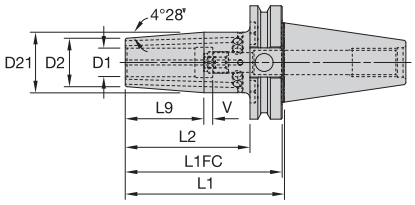




CVKV50 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L1FC	L2	L9	V	kg
7375472	CVKV50TTFC06M350	6	21	27	89	87	70	26	10	3.19
7375473	CVKV50TTFC08M350	8	21	27	89	87	70	26	10	3.18
7375474	CVKV50TTFC10M375	10	24	32	95	94	76	31	10	3.27
7375475	CVKV50TTFC12M400	12	24	32	102	100	83	36	10	3.29
7375476	CVKV50TTFC16M400	16	27	34	102	100	83	39	10	3.31
7375477	CVKV50TTFC20M400	20	33	42	102	100	83	41	10	3.43
7375478	CVKV50TTFC25M400	25	44	53	102	100	83	47	10	3.74

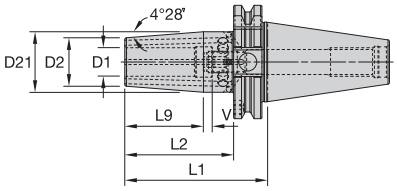




CVKV50 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Inch

Order Number	Catalog Number	D1	D2	D21	L1	L1FC	L2	L9	V	lbs
7375416	CVKV50TTFC025350	0.250	0.827	1.059	3.500	3.441	2.750	1.024	0.394	6.160
7375417	CVKV50TTFC031350	0.313	0.827	1.059	3.500	3.441	2.750	1.024	0.394	6.150
7375418	CVKV50TTFC038375	0.375	0.945	1.256	3.750	3.691	3.000	1.221	0.394	6.400
7375419	CVKV50TTFC050400	0.500	0.945	1.256	4.000	3.941	3.250	1.417	0.394	6.410
7375420	CVKV50TTFC062400	0.625	1.063	1.335	4.000	3.941	3.250	1.535	0.394	6.490
7375481	CVKV50TTFC075400	0.750	1.299	1.650	4.000	3.941	3.250	1.614	0.394	6.900
7375482	CVKV50TTFC100400	1.000	1.732	2.083	4.000	3.941	3.250	1.850	0.394	7.720

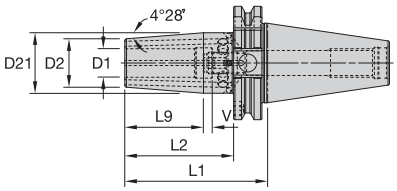




DV40 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7375112	DV40TTFC06080M	6	21	27	80	61	26	10	1.00
7375113	DV40TTFC08080M	8	21	27	80	61	26	10	0.99
7375114	DV40TTFC10080M	10	24	32	80	61	31	10	1.05
7375115	DV40TTFC12080M	12	24	32	80	61	36	10	1.03
7375116	DV40TTFC16080M	16	27	34	80	61	39	10	1.05
7375117	DV40TTFC20080M	20	33	41	80	61	41	10	1.16
7375118	DV40TTFC25100M	25	44	53	100	81	47	10	1.63





DV50 Shrink Fit Toolholders • FC Line • Through Coolant Form AD • Metric

Order Number	Catalog Number	D1	D2	D21	L1	L2	L9	V	kg
7380307	DV50TTFC06080M	6	21	27	80	61	26	10	2.74
7380308	DV50TTFC08080M	8	21	27	80	61	26	10	2.73
7380309	DV50TTFC10080M	10	24	32	80	61	31	10	2.79
7380310	DV50TTFC12080M	12	24	32	80	61	36	10	2.77
7380351	DV50TTFC16080M	16	27	34	80	61	39	10	2.80
7380352	DV50TTFC20080M	20	33	41	80	61	41	10	2.90
7380353	DV50TTFC25100M	25	44	53	100	81	47	10	3.47

Shrink Fit Adapters

LET'S TAKE YOUR **MANUFACTURING** TO THE **NEXT LEVEL**

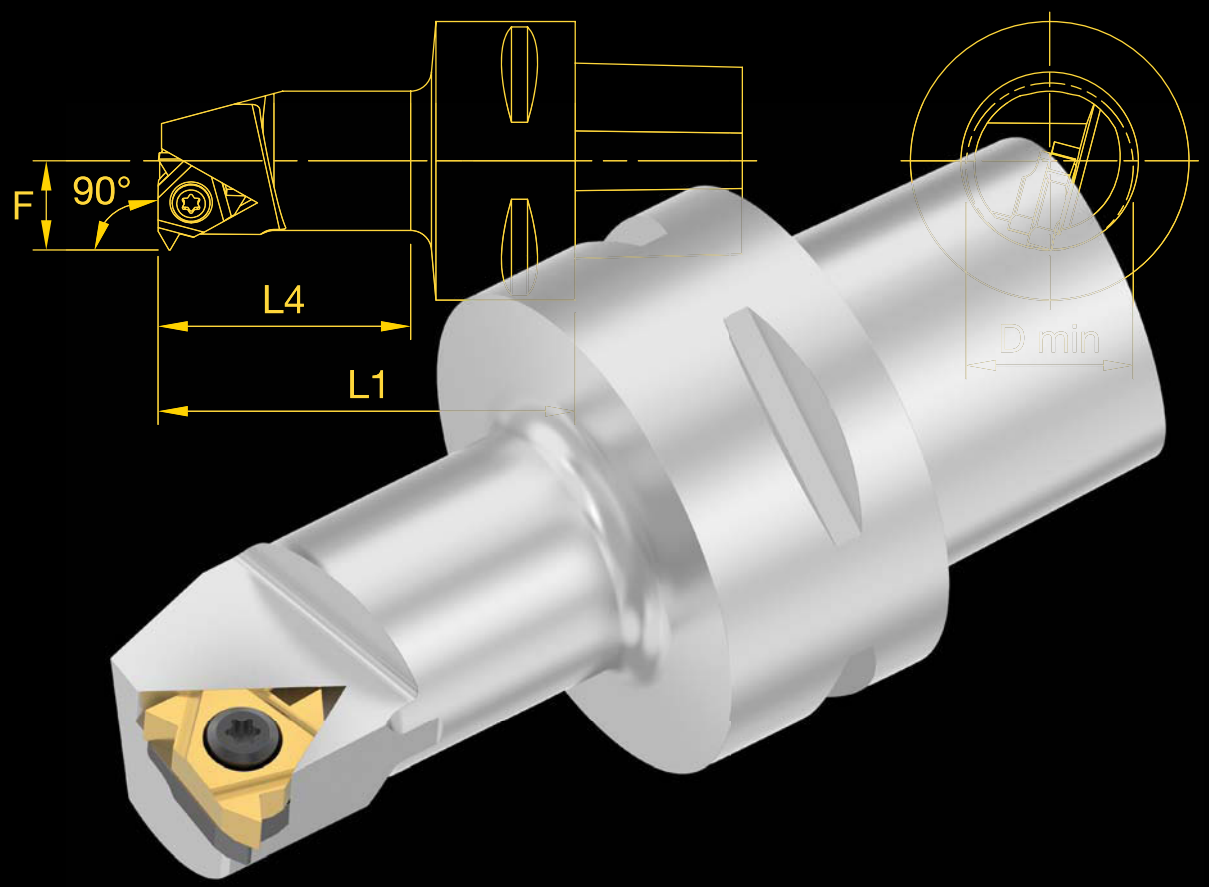
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PSC32 & PSC40 Laydown Threading Cutting Units

Efficient Threading for Smaller Machines

Designed to maximize threading efficiency in compact setups and multifunctional lathes, the PSC32 and PSC40 LT units guarantee faster setups for less downtime in your machining.



Materials

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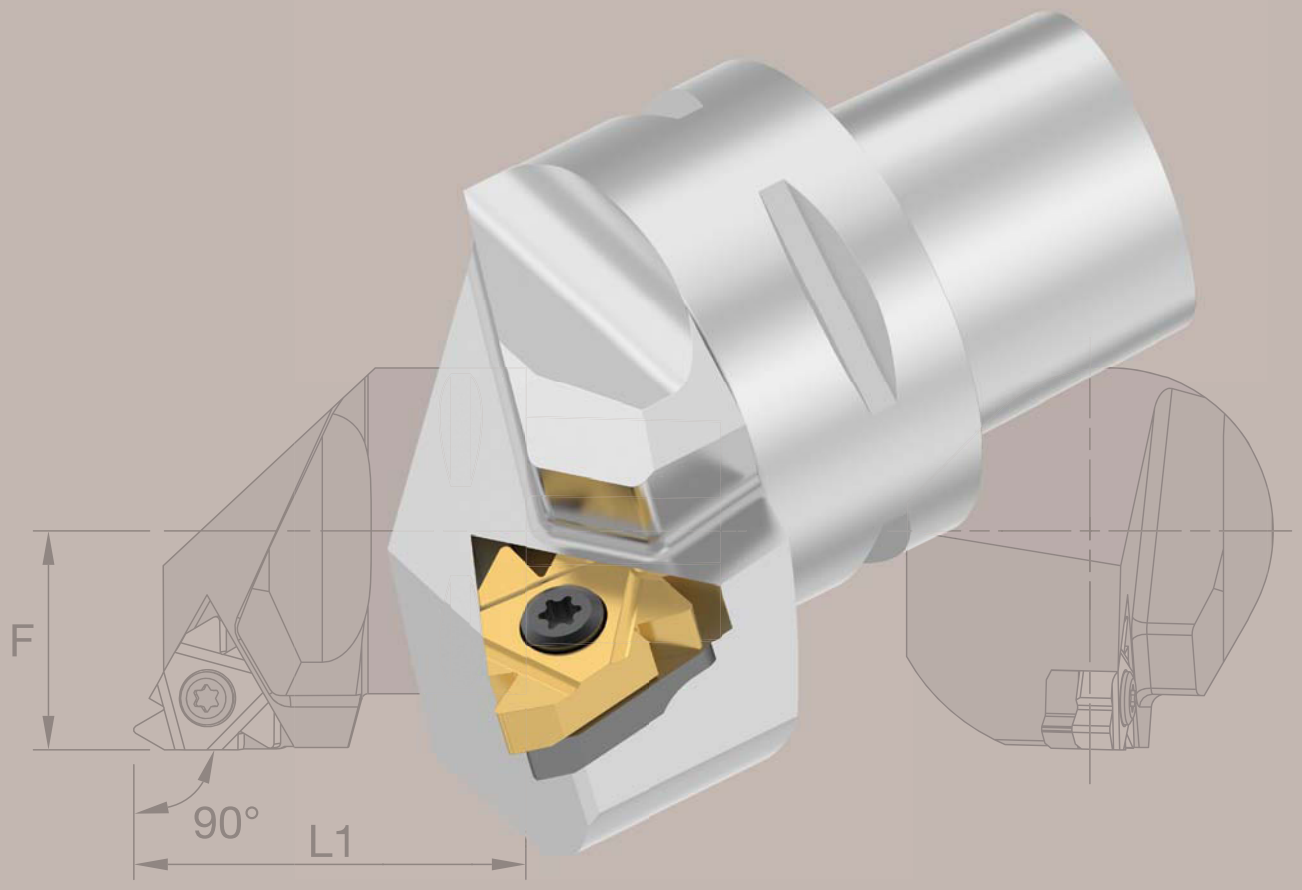
P M K N S H

Industries

- Aerospace
- Oil & Gas
- Wind & Solar
- General Engineering
- Automotive
- EV
- Earthworks

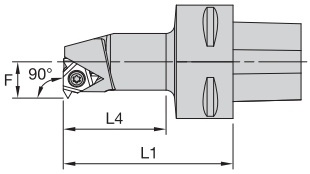
Applications

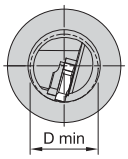
- Threading



EXPLORE
PSC32 & PCS40



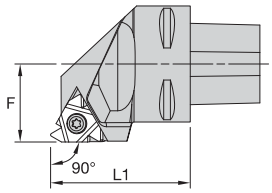


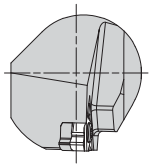


PSC32 Cutting Units • Laydown Threading LSE Style • Internal

		D min		L1		L4		F		
Order Number	Catalog Number	mm	in	mm	in	mm	in	mm	in	Gage Insert
Right Hand										
7389759	PSC32S16CLSER16	20.0	0.787	50.0	1.969	31.9	1.256	12.0	0.472	LT-16NR
7389760	PSC32S20DLSER16	25.0	0.984	60.0	2.362	42.0	1.653	14.0	0.551	LT-16NR
7389811	PSC32S32FLSER16	40.0	1.575	85.0	3.347	85.0	3.347	22.0	0.866	LT-16NR



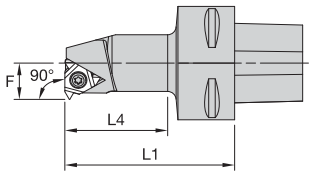


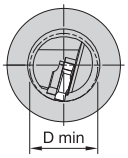


PSC32 Cutting Units • Laydown Threading LSS Style • External

		L1		F		
Order Number	Catalog Number	mm	in	mm	in	Gage Insert
Right Hand						
7389852	PSC32LSSR16	40.0	1.575	22.0	0.866	LT-16ER
7389854	PSC32LSSR22	40.0	1.575	22.0	0.866	LT-22ER
Left Hand						
7389853	PSC32LSSL16	40.0	1.575	22.0	0.866	LT-16ER



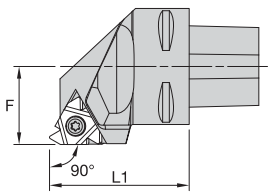


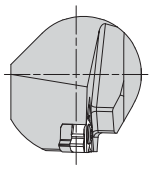


PSC40 Cutting Units • Laydown Threading LSE Style • Internal

		D min		L1		L4		F		
Order Number	Catalog Number	mm	in	mm	in	mm	in	mm	in	Gage Insert
Right Hand										
7389290	PSC40S16DLSER16	20.0	0.787	60.0	2.362	—	31.900	12.0	0.472	LT-16NR
7389821	PSC40S20DLSER16	25.0	0.984	60.0	2.362	36.3	1.428	14.0	0.551	LT-16NR
7389825	PSC40S20DLSER22	25.0	0.984	65.0	2.559	41.3	1.625	15.0	0.591	LT-22NR
7389822	PSC40S25ELSER16	32.0	1.260	70.0	2.756	46.4	1.827	17.0	0.669	LT-16NR
7389826	PSC40S25ELSER22	32.0	1.260	70.0	2.756	46.5	1.830	19.0	0.748	LT-22NR
7389823	PSC40S32GLSER16	40.0	1.575	90.0	3.543	66.8	2.630	22.0	0.866	LT-16NR
7389827	PSC40S32GLSER22	40.0	1.575	90.0	3.543	66.8	2.630	22.0	0.866	LT-22NR
7389824	PSC40S40FLSER16	50.0	1.969	80.0	3.150	80.0	3.145	27.0	1.063	LT-16NR
7389828	PSC40S40FLSER22	50.0	1.969	70.0	2.756	80.0	3.145	27.0	1.063	LT-22NR



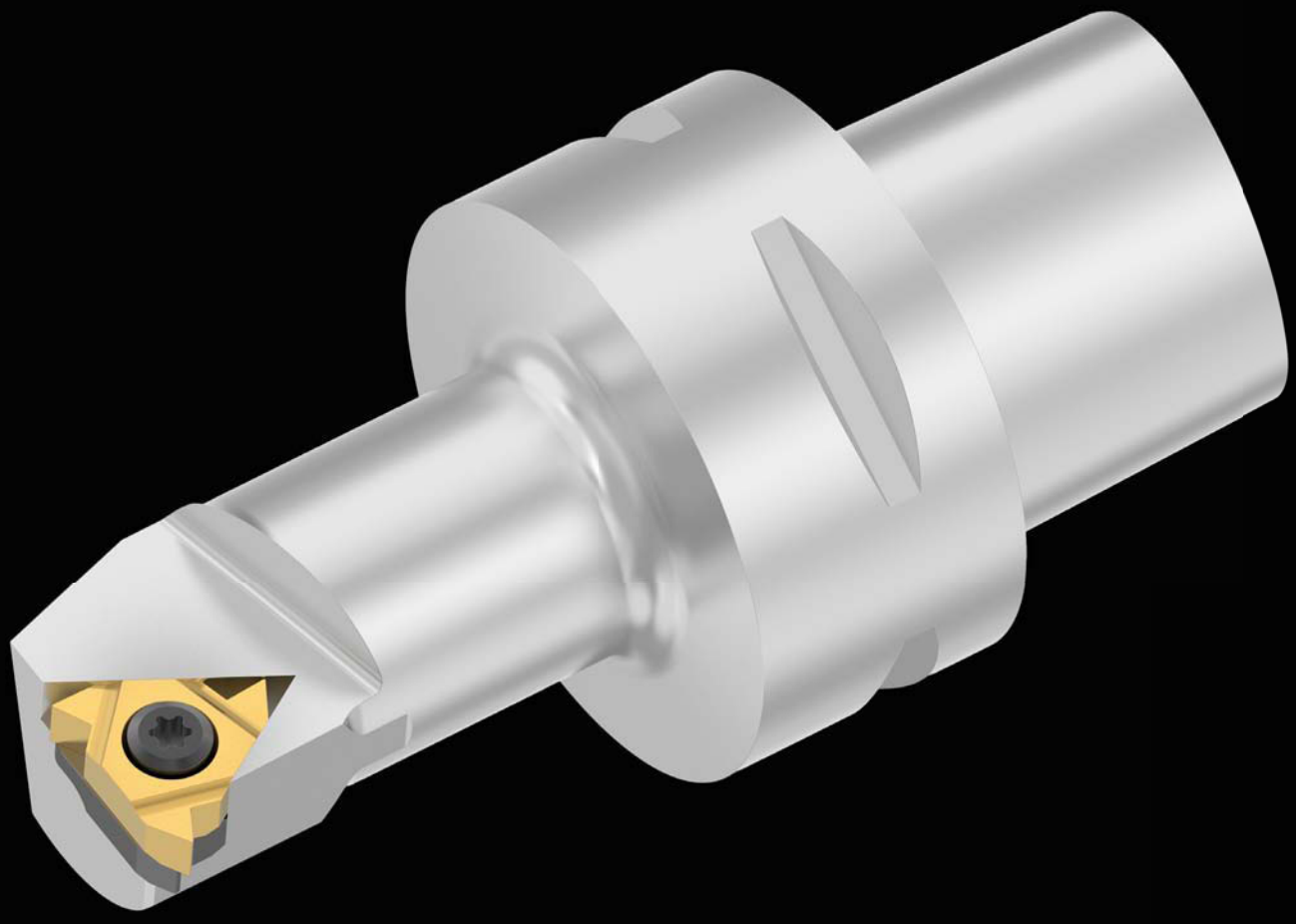




PSC40 Cutting Units • Laydown Threading LSS Style • External

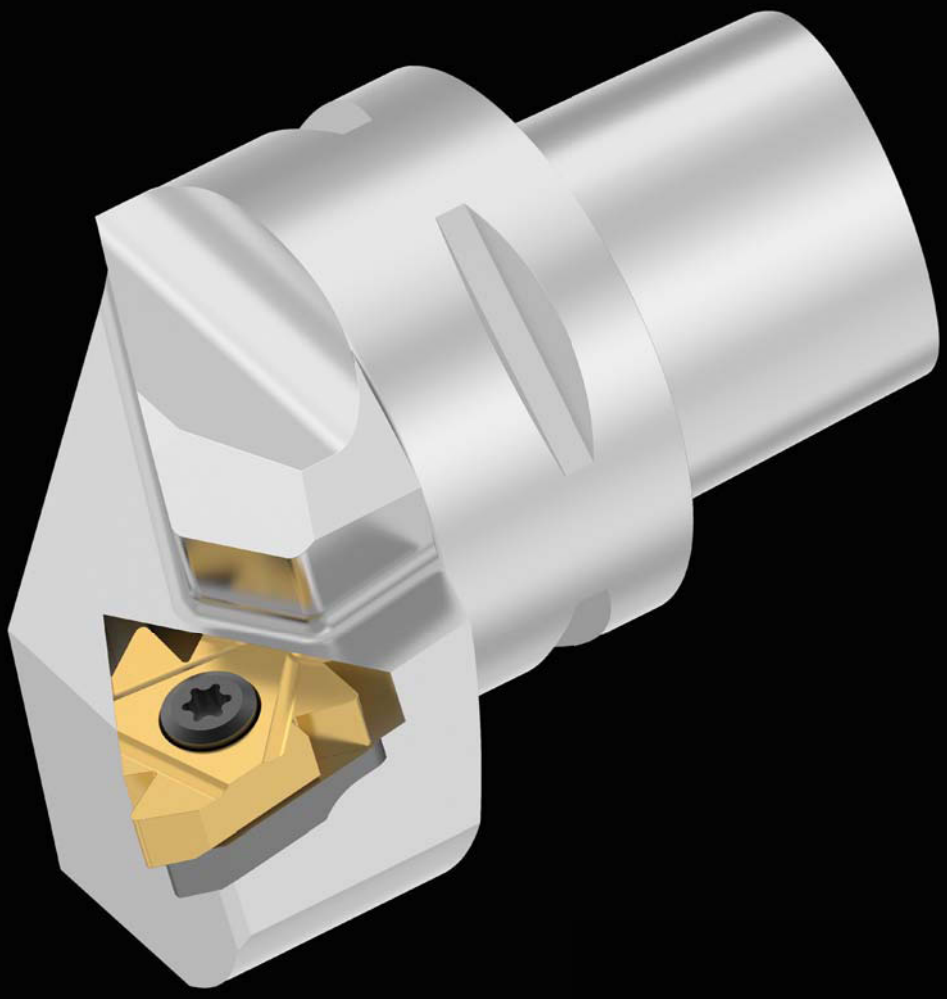
		L1		F		
Order Number	Catalog Number	mm	in	mm	in	Gage Insert
Right Hand						
7389855	PSC40LSSR16	50.0	1.969	27.0	1.063	LT-16ER
7389857	PSC40LSSR22	50.0	1.969	27.0	1.063	LT-22ER
Left Hand						
7389856	PSC40LSSL16	50.0	1.969	27.0	1.063	LT-16ER

PSC32 & PSC40 Laydown Threading Cutting Units



LET'S TAKE YOUR **MANUFACTURING**
TO THE **NEXT LEVEL**

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WE'VE BEEN CUTTING METAL **SINCE 1938.**






Our Story Is One of Continuous Innovation

It starts in 1938 with our founder, metallurgist Philip M. McKenna, who after years of research created revolutionary tungsten-titanium carbide alloy cutting tools specifically for working with steel. That single development not only led to a new class of machining tools that cut faster, lasted longer and drove productivity in everything from the automobile to the airplane, but also led to the opening of McKenna Metals Company in Latrobe, Pennsylvania, United States. Today, that company is Kennametal Inc.—a recognized leader in metalworking serving customers across continents and industries including transportation, construction, aerospace and defense, machining and cutting, energy and general engineering. We have a reputation for building innovative solutions for our customers' most challenging applications. The name Kennametal is synonymous for high-quality, high-performance tools that can withstand the most strenuous conditions and bring ease to a wide range of machining operations. We help our customers' operations run longer, faster and with greater precision.

WE DON'T CUT CORNERS. WE CUT METAL. **YOUR TOUGHEST MATERIALS DON'T STAND A CHANCE.**

METAL CUTTING SAFETY

IMPORTANT SAFETY INSTRUCTIONS

Read before using the tools in this catalog!

PROJECTILE AND FRAGMENTATION HAZARDS:

Modern metal cutting operations involve high spindle and cutter speeds and high temperatures and cutting forces. Hot metal chips may fly off the workpiece during metal cutting. Although cutting tools are designed and manufactured to withstand high cutting forces and temperatures, they can sometimes fragment, particularly if they are subjected to over-stress, severe impact, or other abuse.

- Always wear appropriate personal protective equipment, including safety goggles, when operating metal cutting machines or working nearby.
- Always make sure all machine guards are in place.

BREATHING AND SKIN CONTACT HAZARDS:

Grinding carbide or other advanced cutting tool materials produces dust or mist containing metallic particles. Breathing this dust or mist — especially over an extended period — can cause temporary or permanent lung disease or make existing medical conditions worse. Contact with this dust or mist can irritate eyes, skin, and mucous membranes and may make existing skin conditions worse.

- Always wear breathing protection and safety goggles when grinding.
- Provide ventilation control and collect and properly dispose of dust, mist, or sludge from grinding.
- Avoid skin contact with dust or mist.

For more information, read the applicable Material Safety Data Sheet provided by Kennametal and consult General Industry Safety and Health Regulations, Part 1910, Title 29 of the Code of Federal Regulations.

These safety instructions are general guidelines. Many variables affect machining operations. It is impossible to cover every specific situation. The technical information included in this catalog and recommendations on machining practices may not apply to your particular operation. For more information, consult the Kennametal Metal Cutting Safety booklet, available free from Kennametal at 724 539 5747 or fax 724 539 5439. For specific product safety and environmental questions, contact our Corporate Environmental Health and Safety Office at 724 539 5066 or fax 724 539 5372.

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