



KenTIP™ FS

The Perfect Fusion of a Solid Carbide and an Indexable Drill



HPG Geometry



HPC Geometry



HPL Geometry

DURAMILL
INDUSTRIAL SUPPLIES

WWW.DURAMILL.CA

Inserts

KTFSS*HPG
KTFST*HPC
KTFST*HPL

Diameter range D1

6,0 – 26,0 mm (.2362-1.0236")
6,0 – 26,0 mm (.2362-1.0236")
6,0 – 26,0 mm (.2362-1.0236")

Grade

KCP15A
KC7410
KCMS15



Bodies

KTFS*SS*
KTFS*SF*
KTFS*SCF*



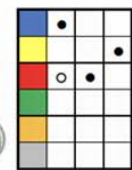
Diameter range D (shank)

6,0 – 19,999 mm
.2362 – .7873"
8,0 – 26,0 mm
.3140 – 1.0236"

Length



Limited SCF Inch shank portfolio for 1st year



HPG KCP15A
HPC KC7410
HPL KCMS15

> KenTIP™ FS

The Perfect Fusion of a Solid Carbide and an Indexable Drill

The new modular drill KenTIP FS covers more applications and provides better performance than any other modular system, delivering substantial cost savings and process simplifications on your shop floor.

3-point geometries, 3 high-performance grades, 3 different shank styles.

This modular drilling system covers a 6–26mm (.2363–1.0236") diameter range.

Up to 12 x D drilling depths.

Applicable in steel, stainless steel, and cast iron.

Intelligent Interface

 Taper interface uniquely designed for highest rigidity clamping.

 Retention lock prevents insert pullout.

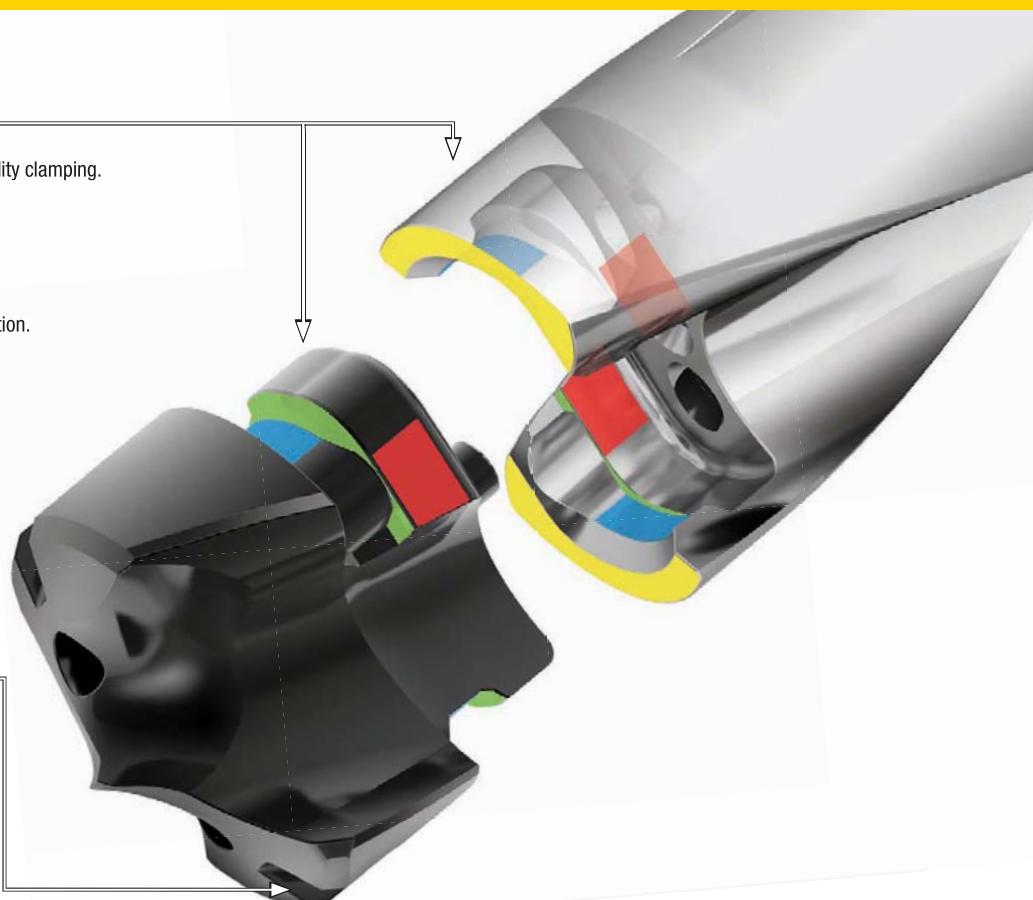
 Large bearing surface positioned for transmission of highest torsional loads without pocket deformation.

 Large face contact surface.

Maximum performance and long tool life, even in unstable conditions.

Quick Release

Every drill body comes with a KenTIP smart wrench. Insert exchange in the machine becomes easy and saves idle time. And that saves money.



Recycling Instead of Reconditioning

KenTIP™ FS provides the same stable and repeatable performance with every new insert. Lower your operational expenses with less tooling inventory and simplified processes. Recoup cost by providing your used carbide inserts to our recycling service.

Fast Flow

Large, ultra-high polished chip flutes guarantee hassle-free chip evacuation, enhancing tool life and performance.

Multi-Coolant

Coolant delivery to the drill point and to the rake face for guaranteed coolant delivery where it is needed.

Unique Point Geometries

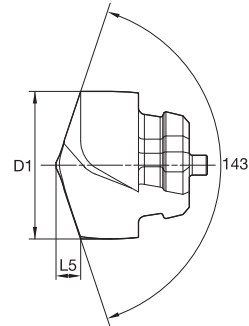
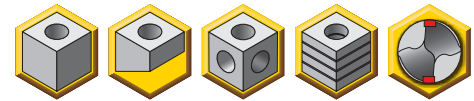
3 material-specific, self-centering point designs enable excellent hole quality and optimum tool performance.

Full Solid Carbide Front

KenTIP FS inserts cover the entire front part of the drill. The coupling is completely protected from chip flow and contact with workpiece.



- HPG-point geometry for steels.
- Great positioning and centering capabilities for drilling without precentering, even in deeper holes.
- KCP15A™ is an AlTiN PVD monolayer coating.
- Enhanced thermal stability.
- Excellent balance between toughness and wear resistance.
- Without internal coolant.



HPG Geometry

■ KenTIP FS Inserts • HPG KCP15A • No Internal Coolant Channels



KCP15A	D1		L5		seat size
	mm	in	mm	in	
KTFSS06000HPGM	6,000	.2362	1,370	.0539	A
KTFSS06100HPGM	6,100	.2402	1,380	.0543	A
KTFSS06200HPGM	6,200	.2441	1,400	.0551	A
KTFSS06300HPGM	6,300	.2480	1,440	.0567	B
KTFSS06350HPGM	6,350	.2500	1,450	.0571	B
KTFSS06400HPGM *	6,400	.2520	1,450	.0571	B
KTFSS06500HPGM	6,500	.2559	1,470	.0579	B
KTFSS06530HPGM	6,530	.2571	1,480	.0583	B
KTFSS06600HPGM	6,600	.2598	1,490	.0587	C
KTFSS06629HPGM *	6,629	.2610	1,500	.0591	C
KTFSS06700HPGM	6,700	.2638	1,510	.0594	C
KTFSS06746HPGM	6,746	.2656	1,520	.0598	C
KTFSS06800HPGM	6,800	.2677	1,530	.0602	C
KTFSS06900HPGM *	6,900	.2717	1,540	.0606	C
KTFSS06909HPGM	6,909	.2720	1,540	.0606	C
KTFSS07000HPGM	7,000	.2756	1,590	.0626	D
KTFSS07100HPGM *	7,100	.2795	1,610	.0634	D
KTFSS07145HPGM	7,145	.2813	1,610	.0634	D
KTFSS07200HPGM *	7,200	.2835	1,620	.0638	D
KTFSS07366HPGM	7,366	.2900	1,650	.0650	D
KTFSS07400HPGM	7,400	.2913	1,660	.0654	D
KTFSS07500HPGM	7,500	.2953	1,680	.0661	E
KTFSS07541HPGM	7,541	.2969	1,690	.0665	E
KTFSS07600HPGM *	7,600	.2992	1,700	.0669	E
KTFSS07700HPGM *	7,700	.3031	1,710	.0673	E
KTFSS07800HPGM *	7,800	.3071	1,730	.0681	E
KTFSS07900HPGM *	7,900	.3110	1,750	.0689	E
KTFSS07938HPGM	7,938	.3125	1,750	.0689	E
KTFSS08000HPGM	8,000	.3150	1,800	.0709	F
KTFSS08100HPGM	8,100	.3189	1,820	.0717	F
KTFSS08164HPGM	8,164	.3214	1,830	.0720	F
KTFSS08204HPGM	8,204	.3230	1,840	.0724	F
KTFSS08300HPGM	8,300	.3268	1,850	.0728	F
KTFSS08334HPGM	8,334	.3281	1,860	.0732	F
KTFSS08400HPGM	8,400	.3307	1,870	.0736	F
KTFSS08433HPGM	8,433	.3320	1,870	.0736	F
KTFSS08500HPGM	8,500	.3346	1,890	.0744	G
KTFSS08600HPGM	8,600	.3386	1,910	.0752	G
KTFSS08611HPGM *	8,611	.3390	1,910	.0752	G
KTFSS08700HPGM	8,700	.3425	1,920	.0756	G



- first choice
- alternate choice

KCP15A	D1		L5		seat size
	mm	in	mm	in	
KTFSS08733HPGM	8,732	.3438	1,930	.0760	G
KTFSS08800HPGM	8,800	.3465	1,940	.0764	G
KTFSS08839HPGM *	8,839	.3480	1,950	.0768	G
KTFSS08900HPGM *	8,900	.3504	1,960	.0772	G
KTFSS09000HPGM	9,000	.3543	2,010	.0791	H
KTFSS09093HPGM *	9,093	.3580	2,030	.0799	H
KTFSS09100HPGM	9,100	.3583	2,030	.0799	H
KTFSS09129HPGM *	9,129	.3594	2,030	.0799	H
KTFSS09200HPGM	9,200	.3622	2,040	.0803	H
KTFSS09300HPGM	9,300	.3661	2,060	.0811	H
KTFSS09347HPGM	9,347	.3680	2,070	.0815	H
KTFSS09400HPGM	9,400	.3701	2,080	.0819	H
KTFSS09500HPGM	9,500	.3740	2,100	.0827	I
KTFSS09525HPGM	9,525	.3750	2,110	.0831	I
KTFSS09558HPGM	9,558	.3763	2,110	.0831	I
KTFSS09600HPGM	9,600	.3780	2,120	.0835	I
KTFSS09700HPGM	9,700	.3819	2,130	.0839	I
KTFSS09800HPGM	9,800	.3858	2,150	.0846	I
KTFSS09900HPGM	9,900	.3898	2,170	.0854	I
KTFSS09921HPGM	9,921	.3906	2,170	.0854	I
KTFSS10000HPGM	10,000	.3937	2,220	.0874	J
KTFSS10023HPGM	10,023	.3946	2,220	.0874	J
KTFSS10084HPGM *	10,084	.3970	2,230	.0878	J
KTFSS10100HPGM	10,100	.3976	2,240	.0882	J
KTFSS10200HPGM	10,200	.4016	2,250	.0886	J
KTFSS10262HPGM *	10,262	.4040	2,260	.0890	J
KTFSS10300HPGM	10,300	.4055	2,270	.0894	J
KTFSS10320HPGM	10,320	.4063	2,270	.0894	J
KTFSS10400HPGM	10,400	.4094	2,290	.0902	J
KTFSS10490HPGM	10,490	.4130	2,300	.0906	J
KTFSS10500HPGM	10,500	.4134	2,310	.0909	K
KTFSS10600HPGM	10,600	.4173	2,330	.0917	K
KTFSS10700HPGM	10,700	.4213	2,340	.0921	K
KTFSS10716HPGM	10,716	.4219	2,350	.0925	K
KTFSS10800HPGM	10,800	.4252	2,360	.0929	K
KTFSS10900HPGM	10,900	.4291	2,380	.0937	K
KTFSS11000HPGM	11,000	.4331	2,430	.0957	L
KTFSS11100HPGM	11,100	.4370	2,450	.0965	L
KTFSS11113HPGM	11,112	.4375	2,450	.0965	L
KTFSS11200HPGM	11,200	.4409	2,460	.0969	L

(continued)

(KenTIP FS Inserts • HPG KCP15A™ • No Internal Coolant Channels — continued)



KenTIP
Channel

KCP15A	D1		L5		seat size
	mm	in	mm	in	
KTFSS11300HPGM	11,300	.4449	2,480	.0976	L
KTFSS11400HPGM	11,400	.4488	2,500	.0984	L
KTFSS11500HPGM	11,500	.4528	2,520	.0992	M
KTFSS11509HPGM	11,509	.4531	2,520	.0992	M
KTFSS11600HPGM	11,600	.4567	2,540	.1000	M
KTFSS11700HPGM	11,700	.4606	2,550	.1004	M
KTFSS11800HPGM	11,800	.4646	2,570	.1012	M
KTFSS11900HPGM	11,900	.4685	2,590	.1020	M
KTFSS11908HPGM	11,908	.4688	2,590	.1020	M
KTFSS12000HPGM	12,000	.4724	2,640	.1039	N
KTFSS12100HPGM	12,100	.4764	2,650	.1043	N
KTFSS12200HPGM	12,200	.4803	2,670	.1051	N
KTFSS12304HPGM	12,304	.4844	2,690	.1059	N
KTFSS12400HPGM	12,400	.4882	2,700	.1063	N
KTFSS12474HPGM	12,474	.4911	2,720	.1071	N
KTFSS12500HPGM	12,500	.4921	2,730	.1075	O
KTFSS12600HPGM	12,600	.4961	2,740	.1079	O
KTFSS12700HPGM	12,700	.5000	2,760	.1087	O
KTFSS12800HPGM	12,800	.5039	2,780	.1094	O
KTFSS12900HPGM	12,900	.5079	2,790	.1098	O
KTFSS13000HPGM	13,000	.5118	2,850	.1122	P
KTFSS13096HPGM	13,096	.5156	2,860	.1126	P
KTFSS13200HPGM	13,200	.5197	2,880	.1134	P
KTFSS13280HPGM	13,280	.5228	2,890	.1138	P
KTFSS13300HPGM	13,300	.5236	2,900	.1142	P
KTFSS13380HPGM	13,380	.5268	2,910	.1146	P
KTFSS13400HPGM	13,400	.5276	2,910	.1146	P
KTFSS13492HPGM	13,492	.5312	2,930	.1154	P
KTFSS13500HPGM	13,500	.5315	2,930	.1154	Q
KTFSS13600HPGM	13,600	.5354	2,950	.1161	Q
KTFSS13700HPGM	13,700	.5394	2,970	.1169	Q
KTFSS13800HPGM	13,800	.5433	2,980	.1173	Q
KTFSS13891HPGM	13,891	.5469	3,000	.1181	Q
KTFSS13896HPGM *	13,896	.5471	3,000	.1181	Q
KTFSS13940HPGM	13,940	.5488	3,010	.1185	Q
KTFSS14000HPGM	14,000	.5512	3,050	.1201	R
KTFSS14100HPGM	14,100	.5551	3,070	.1209	R
KTFSS14200HPGM	14,200	.5591	3,090	.1217	R
KTFSS14288HPGM	14,288	.5625	3,100	.1220	R
KTFSS14300HPGM	14,300	.5630	3,100	.1220	R
KTFSS14400HPGM	14,400	.5669	3,120	.1228	R
KTFSS14500HPGM	14,500	.5709	3,140	.1236	S
KTFSS14600HPGM	14,600	.5748	3,160	.1244	S
KTFSS14666HPGM *	14,666	.5774	3,170	.1248	S
KTFSS14684HPGM	14,684	.5781	3,170	.1248	S
KTFSS14700HPGM	14,700	.5787	3,170	.1248	S
KTFSS14800HPGM	14,800	.5827	3,190	.1256	S
KTFSS14900HPGM *	14,900	.5866	3,210	.1264	S
KTFSS15000HPGM	15,000	.5906	3,260	.1283	T
KTFSS15083HPGM	15,082	.5938	3,270	.1287	T
KTFSS15100HPGM	15,100	.5945	3,280	.1291	T
KTFSS15200HPGM	15,200	.5984	3,290	.1295	T
KTFSS15300HPGM	15,300	.6024	3,310	.1303	T
KTFSS15380HPGM	15,380	.6055	3,320	.1307	T
KTFSS15400HPGM	15,400	.6063	3,330	.1311	T
KTFSS15479HPGM	15,479	.6094	3,340	.1315	T



● first choice
○ alternate choice

KCP15A	D1		L5		seat size
	mm	in	mm	in	
KTFSS15500HPGM	15,500	.6102	3,340	.1315	T
KTFSS15600HPGM	15,600	.6142	3,360	.1323	T
KTFSS15700HPGM	15,700	.6181	3,380	.1331	T
KTFSS15800HPGM	15,800	.6220	3,390	.1335	T
KTFSS15875HPGM	15,875	.6250	3,410	.1343	T
KTFSS15900HPGM *	15,900	.6260	3,410	.1343	T
KTFSS16000HPGM	16,000	.6299	3,480	.1370	U
KTFSS16027HPGM *	16,027	.6310	3,490	.1374	U
KTFSS16080HPGM *	16,080	.6331	3,490	.1374	U
KTFSS16100HPGM	16,100	.6339	3,500	.1378	U
KTFSS16104HPGM	16,104	.6340	3,500	.1378	U
KTFSS16200HPGM	16,200	.6378	3,510	.1382	U
KTFSS16271HPGM	16,271	.6406	3,530	.1390	U
KTFSS16300HPGM	16,300	.6417	3,530	.1390	U
KTFSS16400HPGM	16,400	.6457	3,550	.1398	U
KTFSS16500HPGM	16,500	.6496	3,570	.1406	U
KTFSS16600HPGM	16,600	.6535	3,580	.1409	U
KTFSS16670HPGM	16,670	.6563	3,590	.1413	U
KTFSS16700HPGM	16,700	.6575	3,600	.1417	U
KTFSS16800HPGM	16,800	.6614	3,620	.1425	U
KTFSS16900HPGM	16,900	.6654	3,630	.1429	U
KTFSS17000HPGM	17,000	.6693	3,660	.1441	V
KTFSS17066HPGM	17,066	.6719	3,670	.1445	V
KTFSS17100HPGM	17,100	.6732	3,670	.1445	V
KTFSS17200HPGM	17,200	.6772	3,690	.1453	V
KTFSS17300HPGM *	17,300	.6811	3,710	.1461	V
KTFSS17400HPGM	17,400	.6850	3,720	.1465	V
KTFSS17463HPGM	17,462	.6875	3,740	.1472	V
KTFSS17480HPGM	17,480	.6882	3,740	.1472	V
KTFSS17500HPGM	17,500	.6890	3,740	.1472	V
KTFSS17600HPGM	17,600	.6929	3,760	.1480	V
KTFSS17700HPGM	17,700	.6969	3,770	.1484	V
KTFSS17800HPGM	17,800	.7008	3,790	.1492	V
KTFSS17859HPGM	17,859	.7031	3,800	.1496	V
KTFSS17900HPGM	17,900	.7047	3,810	.1500	V
KTFSS18000HPGM	18,000	.7087	3,890	.1531	W
KTFSS18100HPGM	18,100	.7126	3,910	.1539	W
KTFSS18200HPGM	18,200	.7165	3,930	.1547	W
KTFSS18258HPGM	18,258	.7188	3,940	.1551	W
KTFSS18300HPGM	18,300	.7205	3,940	.1551	W
KTFSS18400HPGM	18,400	.7244	3,960	.1559	W
KTFSS18500HPGM	18,500	.7283	3,980	.1567	W
KTFSS18600HPGM	18,600	.7323	3,990	.1571	W
KTFSS18654HPGM	18,654	.7344	4,000	.1575	W
KTFSS18700HPGM	18,700	.7362	4,010	.1579	W
KTFSS18800HPGM	18,800	.7402	4,030	.1587	W
KTFSS18900HPGM	18,900	.7441	4,040	.1591	W
KTFSS19000HPGM	19,000	.7480	4,070	.1602	X
KTFSS19050HPGM	19,050	.7500	4,080	.1606	X
KTFSS19100HPGM	19,100	.7520	4,090	.1610	X
KTFSS19200HPGM	19,200	.7559	4,100	.1614	X
KTFSS19228HPGM	19,228	.7570	4,110	.1618	X
KTFSS19253HPGM *	19,253	.7580	4,110	.1618	X
KTFSS19279HPGM	19,279	.7590	4,120	.1622	X
KTFSS19300HPGM	19,300	.7598	4,120	.1622	X
KTFSS19355HPGM *	19,355	.7620	4,130	.1626	X

(continued)

(KenTIP FS Inserts • HPG KCP15A™ • No Internal Coolant Channels — continued)

Modular Drills



	D1		L5		seat size
KCP15A	mm	in	mm	in	
KTFSS19400HPGM	19,400	.7638	4,140	.1630	X
KTFSS19446HPGM	19,446	.7656	4,140	.1630	X
KTFSS19460HPGM	19,460	.7661	4,150	.1634	X
KTFSS19500HPGM	19,500	.7677	4,150	.1634	X
KTFSS19600HPGM	19,600	.7717	4,170	.1642	X
KTFSS19700HPGM	19,700	.7756	4,190	.1650	X
KTFSS19800HPGM	19,800	.7795	4,200	.1654	X
KTFSS19845HPGM	19,845	.7813	4,210	.1657	X
KTFSS19900HPGM	19,900	.7835	4,220	.1661	X
KTFSS20000HPGM	20,000	.7874	4,310	.1697	Y
KTFSS20100HPGM	20,100	.7913	4,320	.1701	Y
KTFSS20200HPGM	20,200	.7953	4,340	.1709	Y
KTFSS20241HPGM *	20,241	.7969	4,350	.1713	Y
KTFSS20300HPGM	20,300	.7992	4,360	.1717	Y
KTFSS20500HPGM	20,500	.8071	4,390	.1728	Y
KTFSS20600HPGM	20,600	.8110	4,410	.1736	Y
KTFSS20638HPGM	20,638	.8125	4,410	.1736	Y
KTFSS20700HPGM *	20,700	.8150	4,420	.1740	Y
KTFSS20800HPGM	20,800	.8189	4,440	.1748	Y
KTFSS20900HPGM *	20,900	.8228	4,460	.1756	Y
KTFSS20990HPGM *	20,990	.8264	4,470	.1760	Y
KTFSS21000HPGM	21,000	.8268	4,480	.1764	Z
KTFSS21100HPGM *	21,100	.8307	4,500	.1772	Z
KTFSS21200HPGM	21,200	.8346	4,510	.1776	Z
KTFSS21300HPGM *	21,300	.8386	4,530	.1783	Z
KTFSS21400HPGM *	21,400	.8425	4,550	.1791	Z
KTFSS21433HPGM	21,432	.8438	4,550	.1791	Z
KTFSS21500HPGM	21,500	.8465	4,560	.1795	Z
KTFSS21700HPGM	21,700	.8543	4,600	.1811	Z
KTFSS21800HPGM *	21,800	.8583	4,610	.1815	Z
KTFSS21829HPGM	21,829	.8594	4,620	.1819	Z
KTFSS21900HPGM *	21,900	.8622	4,630	.1823	Z
KTFSS22000HPGM	22,000	.8661	4,720	.1858	ZA
KTFSS22100HPGM *	22,100	.8701	4,730	.1862	ZA
KTFSS22200HPGM *	22,200	.8740	4,750	.1870	ZA
KTFSS22225HPGM	22,225	.8750	4,750	.1870	ZA
KTFSS22400HPGM *	22,400	.8819	4,780	.1882	ZA
KTFSS22500HPGM	22,500	.8858	4,800	.1890	ZA
KTFSS22600HPGM *	22,600	.8898	4,820	.1898	ZA
KTFSS22700HPGM *	22,700	.8937	4,830	.1902	ZA



● first choice
○ alternate choice

	D1		L5		seat size
KCP15A	mm	in	mm	in	
KTFSS22800HPGM	22,800	.8976	4,850	.1909	ZA
KTFSS22900HPGM *	22,900	.9016	4,870	.1917	ZA
KTFSS23000HPGM	23,000	.9055	4,890	.1925	ZB
KTFSS23100HPGM	23,100	.9094	4,910	.1933	ZB
KTFSS23200HPGM *	23,200	.9134	4,920	.1937	ZB
KTFSS23300HPGM	23,300	.9173	4,940	.1945	ZB
KTFSS23400HPGM *	23,400	.9213	4,960	.1953	ZB
KTFSS23416HPGM	23,416	.9219	4,960	.1953	ZB
KTFSS23500HPGM	23,500	.9252	4,980	.1961	ZB
KTFSS23600HPGM *	23,600	.9291	4,990	.1965	ZB
KTFSS23700HPGM *	23,700	.9331	5,010	.1972	ZB
KTFSS23800HPGM *	23,800	.9370	5,030	.1980	ZB
KTFSS23813HPGM	23,812	.9375	5,030	.1980	ZB
KTFSS23900HPGM *	23,900	.9409	5,040	.1984	ZB
KTFSS24000HPGM	24,000	.9449	5,130	.2020	ZC
KTFSS24100HPGM *	24,100	.9488	5,140	.2024	ZC
KTFSS24200HPGM *	24,200	.9528	5,160	.2031	ZC
KTFSS24300HPGM	24,300	.9567	5,180	.2039	ZC
KTFSS24400HPGM *	24,400	.9606	5,190	.2043	ZC
KTFSS24500HPGM	24,500	.9646	5,210	.2051	ZC
KTFSS24600HPGM *	24,600	.9685	5,230	.2059	ZC
KTFSS24608HPGM	24,608	.9688	5,230	.2059	ZC
KTFSS24700HPGM *	24,700	.9724	5,240	.2063	ZC
KTFSS24800HPGM *	24,800	.9764	5,260	.2071	ZC
KTFSS24900HPGM *	24,900	.9803	5,280	.2079	ZC
KTFSS25000HPGM	25,000	.9843	5,300	.2087	ZD
KTFSS25100HPGM *	25,100	.9882	5,320	.2094	ZD
KTFSS25200HPGM *	25,200	.9921	5,330	.2098	ZD
KTFSS25250HPGM *	25,250	.9941	5,340	.2102	ZD
KTFSS25300HPGM *	25,300	.9961	5,350	.2106	ZD
KTFSS25400HPGM	25,400	1.0000	5,370	.2114	ZD
KTFSS25500HPGM *	25,500	1.0039	5,380	.2118	ZD
KTFSS25540HPGM	25,540	1.0055	5,390	.2122	ZD
KTFSS25600HPGM	25,600	1.0079	5,400	.2126	ZD
KTFSS25679HPGM	25,679	1.0110	5,410	.2130	ZD
KTFSS25700HPGM *	25,700	1.0118	5,420	.2134	ZD
KTFSS25800HPGM *	25,800	1.0157	5,440	.2142	ZD
KTFSS25806HPGM	25,806	1.0160	5,440	.2142	ZD
KTFSS25900HPGM *	25,900	1.0197	5,450	.2146	ZD
KTFSS26000HPGM	26,000	1.0236	5,470	.2154	ZD

NOTE: *Made-to-order standard item. Standard pricing, manufacturing lead time, and minimum order quantity applies.
Products with D1 ≥ 20mm will be available by January 1st, 2018.

KenTIP FS HPG Geometry

Tolerance	
D1 metric	tolerance k8
6	0,000/+0,018
>6-10	0,000/+0,022
>10-18	0,000/+0,027
>18-26	0,000/+0,033

KenTIP FS HPG Geometry

Tolerance	
D1 inch	tolerance k8
.2362	.000/+ .0007
>.2362-.3937	.000/+ .0009
>.3937-.7087	.000/+ .0011
>.7087-1.0236	.000/+ .0013

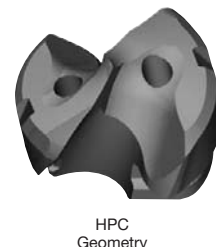
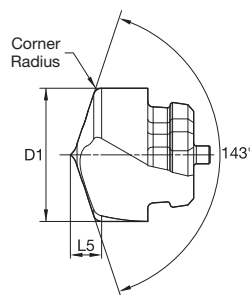
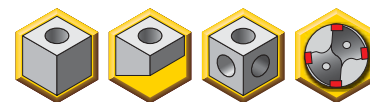
■ Modular Drill Carbide Insert Blades • KenTIP™ FS • HPG Geometry • Grade KCP15A™ •
No Internal Coolant Channels on the Insert • Through Coolant on the Body • Metric

Material Group		Cutting Speed — vc Range — m/min			Metric						
					Recommended Feed Rate per Rev						
		min	Starting Value	max		8,0	10,0	12,0	14,0	16,0	20,0
P	1	90	130	170	mm/r	0,11–0,22	0,13–0,28	0,14–0,34	0,17–0,43	0,19–0,50	0,25–0,53
	2	100	140	180	mm/r	0,11–0,26	0,13–0,32	0,14–0,36	0,17–0,40	0,19–0,50	0,25–0,53
	3	60	100	130	mm/r	0,11–0,31	0,12–0,39	0,16–0,41	0,21–0,51	0,23–0,51	0,30–0,56
	4	60	100	130	mm/r	0,11–0,31	0,12–0,39	0,16–0,41	0,17–0,51	0,18–0,51	0,23–0,51
	5	60	70	100	mm/r	0,10–0,22	0,10–0,25	0,10–0,28	0,14–0,32	0,16–0,35	0,20–0,46
	6	60	70	70	mm/r	0,10–0,22	0,10–0,25	0,10–0,28	0,14–0,32	0,16–0,35	0,20–0,46
K	1	80	120	170	mm/r	0,15–0,32	0,16–0,35	0,17–0,39	0,21–0,46	0,25–0,53	0,31–0,65
	2	80	110	120	mm/r	0,15–0,32	0,16–0,33	0,17–0,36	0,21–0,45	0,25–0,53	0,31–0,65
	3	50	80	100	mm/r	0,16–0,33	0,17–0,36	0,18–0,40	0,20–0,45	0,21–0,48	0,23–0,53

■ Modular Drill Carbide Insert Blades • KenTIP™ FS • HPG Geometry • Grade KCP15A™ •
No Internal Coolant Channels on the Insert • Through Coolant on the Body • Inch

Material Group		Cutting Speed — vc			Inch						
		Range — SFM			Recommended Feed Rate per Rev						
		min	Starting Value	max		0.315	0.394	0.472	0.551	0.630	0.787
P	1	300	430	560	IPR	0.004–0.009	0.005–0.011	0.006–0.013	0.007–0.017	0.007–0.020	0.010–0.021
	2	330	460	590	IPR	0.004–0.010	0.005–0.013	0.006–0.014	0.007–0.016	0.007–0.020	0.010–0.021
	3	200	330	430	IPR	0.004–0.012	0.005–0.015	0.006–0.016	0.008–0.020	0.009–0.020	0.012–0.022
	4	200	330	430	IPR	0.004–0.012	0.005–0.015	0.006–0.016	0.007–0.020	0.007–0.020	0.009–0.020
	5	200	230	330	IPR	0.004–0.009	0.004–0.010	0.004–0.011	0.006–0.013	0.006–0.014	0.008–0.018
	6	200	230	230	IPR	0.004–0.009	0.004–0.010	0.004–0.011	0.006–0.013	0.006–0.014	0.008–0.018
K	1	260	390	560	IPR	0.006–0.013	0.006–0.014	0.007–0.015	0.008–0.018	0.010–0.021	0.012–0.026
	2	260	360	390	IPR	0.006–0.013	0.006–0.013	0.007–0.014	0.008–0.018	0.010–0.021	0.012–0.026
	3	160	260	330	IPR	0.006–0.013	0.007–0.014	0.007–0.016	0.008–0.018	0.008–0.019	0.009–0.021

- HPC-point geometry for all cast irons.
- 4-margin lands ensure hole straightness.
- Large corner radius prevents chipping and reduces exit burs when drilling through holes.
- KC7410™ is an AlCr PVD multilayer coating.
- Superb wear resistance.
- With internal coolant.



HPC Geometry

■ KenTIP FS Inserts • HPC KC7410 • With Internal Coolant Channels



KC7410	D1		L5		seat size
	mm	in	mm	in	
KTFST06000HPCM	6,000	.2362	1,410	.0555	A
KTFST06200HPCM	6,200	.2441	1,440	.0567	A
KTFST06350HPCM	6,350	.2500	1,490	.0587	B
KTFST06500HPCM	6,500	.2559	1,510	.0594	B
KTFST06530HPCM	6,530	.2571	1,520	.0598	B
KTFST06700HPCM	6,700	.2638	1,570	.0618	C
KTFST06746HPCM	6,746	.2656	1,570	.0618	C
KTFST06800HPCM	6,800	.2677	1,580	.0622	C
KTFST07000HPCM	7,000	.2756	1,640	.0646	D
KTFST07145HPCM	7,145	.2813	1,670	.0657	D
KTFST07300HPCM	7,300	.2874	1,690	.0665	D
KTFST07500HPCM	7,500	.2953	1,760	.0693	E
KTFST07600HPCM	7,600	.2992	1,780	.0701	E
KTFST07800HPCM	7,800	.3071	1,810	.0713	E
KTFST07938HPCM	7,938	.3125	1,830	.0720	E
KTFST08000HPCM	8,000	.3150	1,880	.0740	F
KTFST08100HPCM *	8,100	.3189	1,890	.0744	F
KTFST08204HPCM *	8,204	.3230	1,910	.0752	F
KTFST08500HPCM	8,500	.3346	1,990	.0783	G
KTFST08600HPCM *	8,600	.3386	2,010	.0791	G
KTFST08700HPCM *	8,700	.3425	2,030	.0799	G
KTFST08733HPCM *	8,732	.3438	2,030	.0799	G
KTFST09000HPCM	9,000	.3543	2,110	.0831	H
KTFST09100HPCM *	9,100	.3583	2,130	.0839	H
KTFST09500HPCM	9,500	.3740	2,230	.0878	I
KTFST09525HPCM	9,525	.3750	2,230	.0878	I
KTFST09600HPCM *	9,600	.3780	2,250	.0886	I
KTFST09700HPCM *	9,700	.3819	2,260	.0890	I
KTFST09800HPCM *	9,800	.3858	2,280	.0898	I
KTFST09921HPCM	9,921	.3906	2,300	.0906	I
KTFST10000HPCM	10,000	.3937	2,350	.0925	J
KTFST10023HPCM *	10,023	.3946	2,350	.0925	J
KTFST10200HPCM	10,200	.4016	2,380	.0937	J
KTFST10300HPCM	10,300	.4055	2,400	.0945	J
KTFST10320HPCM *	10,320	.4063	2,400	.0945	J
KTFST10500HPCM	10,500	.4134	2,460	.0969	K



- first choice
- alternate choice

KC7410	D1		L5		seat size
	mm	in	mm	in	
KTFST10600HPCM *	10,600	.4173	2,480	.0976	K
KTFST10700HPCM *	10,700	.4213	2,500	.0984	K
KTFST10716HPCM	10,716	.4219	2,500	.0984	K
KTFST10800HPCM	10,800	.4252	2,510	.0988	K
KTFST11000HPCM	11,000	.4331	2,580	.1016	L
KTFST11100HPCM	11,100	.4370	2,600	.1024	L
KTFST11113HPCM	11,112	.4375	2,600	.1024	L
KTFST11400HPCM	11,400	.4488	2,650	.1043	L
KTFST11500HPCM	11,500	.4528	2,700	.1063	M
KTFST11800HPCM *	11,800	.4646	2,750	.1083	M
KTFST11908HPCM *	11,908	.4688	2,770	.1091	M
KTFST12000HPCM	12,000	.4724	2,820	.1110	N
KTFST12304HPCM *	12,304	.4844	2,870	.1130	N
KTFST12500HPCM	12,500	.4921	2,930	.1154	O
KTFST12700HPCM	12,700	.5000	2,970	.1169	O
KTFST13000HPCM	13,000	.5118	3,050	.1201	P
KTFST13096HPCM	13,096	.5156	3,070	.1209	P
KTFST13200HPCM *	13,200	.5197	3,080	.1213	P
KTFST13300HPCM	13,300	.5236	3,100	.1220	P
KTFST13492HPCM	13,492	.5312	3,130	.1232	P
KTFST13500HPCM	13,500	.5315	3,170	.1248	Q
KTFST13600HPCM	13,600	.5354	3,180	.1252	Q
KTFST13800HPCM	13,800	.5433	3,220	.1268	Q
KTFST13891HPCM	13,891	.5469	3,230	.1272	Q
KTFST14000HPCM	14,000	.5512	3,290	.1295	R
KTFST14100HPCM *	14,100	.5551	3,300	.1299	R
KTFST14288HPCM	14,288	.5625	3,330	.1311	R
KTFST14500HPCM	14,500	.5709	3,400	.1339	S
KTFST14600HPCM *	14,600	.5748	3,420	.1346	S
KTFST14684HPCM *	14,684	.5781	3,430	.1350	S
KTFST14800HPCM *	14,800	.5827	3,450	.1358	S
KTFST15000HPCM	15,000	.5906	3,520	.1386	T
KTFST15083HPCM *	15,082	.5938	3,530	.1390	T
KTFST15100HPCM	15,100	.5945	3,540	.1394	T
KTFST15200HPCM *	15,200	.5984	3,550	.1398	T
KTFST15300HPCM *	15,300	.6024	3,570	.1406	T

(continued)

(KenTIP FS Inserts • HPC KC7410™ • With Internal Coolant Channels — continued)



KC7410	D1		L5		seat size
	mm	in	mm	in	
KTFST15500HPCM	15,500	.6102	3,600	.1417	T
KTFST15600HPCM *	15,600	.6142	3,620	.1425	T
KTFST15800HPCM	15,800	.6220	3,650	.1437	T
KTFST15875HPCM *	15,875	.6250	3,670	.1445	T
KTFST16000HPCM	16,000	.6299	3,750	.1476	U
KTFST16100HPCM	16,100	.6339	3,770	.1484	U
KTFST16104HPCM *	16,104	.6340	3,770	.1484	U
KTFST16200HPCM *	16,200	.6378	3,790	.1492	U
KTFST16271HPCM *	16,271	.6406	3,800	.1496	U
KTFST16300HPCM *	16,300	.6417	3,800	.1496	U
KTFST16500HPCM	16,500	.6496	3,840	.1512	U
KTFST16550HPCM *	16,550	.6516	3,850	.1516	U
KTFST16600HPCM	16,600	.6535	3,850	.1516	U
KTFST16670HPCM	16,670	.6563	3,870	.1524	U
KTFST17000HPCM	17,000	.6693	3,990	.1571	V
KTFST17066HPCM *	17,066	.6719	4,000	.1575	V
KTFST17100HPCM *	17,100	.6732	4,010	.1579	V
KTFST17200HPCM	17,200	.6772	4,020	.1583	V
KTFST17300HPCM	17,300	.6811	4,040	.1591	V
KTFST17463HPCM *	17,462	.6875	4,070	.1602	V
KTFST17500HPCM	17,500	.6890	4,070	.1602	V
KTFST17550HPCM *	17,550	.6909	4,080	.1606	V
KTFST17600HPCM	17,600	.6929	4,090	.1610	V
KTFST17700HPCM *	17,700	.6969	4,110	.1618	V
KTFST17800HPCM	17,800	.7008	4,120	.1622	V
KTFST18000HPCM	18,000	.7087	4,220	.1661	W
KTFST18100HPCM *	18,100	.7126	4,240	.1669	W
KTFST18258HPCM *	18,258	.7188	4,270	.1681	W
KTFST18500HPCM	18,500	.7283	4,310	.1697	W
KTFST18600HPCM	18,600	.7323	4,320	.1701	W
KTFST18700HPCM *	18,700	.7362	4,340	.1709	W
KTFST19000HPCM	19,000	.7480	4,460	.1756	X



- first choice
- alternate choice

KC7410	D1		L5		seat size
	mm	in	mm	in	
KTFST19050HPCM	19,050	.7500	4,470	.1760	X
KTFST19279HPCM *	19,279	.7590	4,500	.1772	X
KTFST19446HPCM *	19,446	.7656	4,530	.1783	X
KTFST19500HPCM	19,500	.7677	4,540	.1787	X
KTFST19800HPCM *	19,800	.7795	4,590	.1807	X
KTFST20000HPCM	20,000	.7874	4,690	.1846	Y
KTFST20241HPCM	20,241	.7969	4,730	.1862	Y
KTFST20300HPCM *	20,300	.7992	4,740	.1866	Y
KTFST20500HPCM	20,500	.8071	4,780	.1882	Y
KTFST20638HPCM	20,638	.8125	4,800	.1890	Y
KTFST21000HPCM	21,000	.8268	4,930	.1941	Z
KTFST21433HPCM *	21,432	.8438	5,000	.1969	Z
KTFST21500HPCM *	21,500	.8465	5,010	.1972	Z
KTFST22000HPCM	22,000	.8661	5,160	.2031	ZA
KTFST22225HPCM *	22,225	.8750	5,200	.2047	ZA
KTFST22440HPCM *	22,440	.8835	5,240	.2063	ZA
KTFST22500HPCM *	22,500	.8858	5,250	.2067	ZA
KTFST23000HPCM	23,000	.9055	5,400	.2126	ZB
KTFST23416HPCM *	23,416	.9219	5,470	.2154	ZB
KTFST23500HPCM *	23,500	.9252	5,480	.2157	ZB
KTFST23813HPCM *	23,812	.9375	5,530	.2177	ZB
KTFST24000HPCM	24,000	.9449	5,630	.2217	ZC
KTFST24500HPCM *	24,500	.9646	5,720	.2252	ZC
KTFST24608HPCM *	24,608	.9688	5,730	.2256	ZC
KTFST25000HPCM	25,000	.9843	5,870	.2311	ZD
KTFST25070HPCM *	25,070	.9870	5,880	.2315	ZD
KTFST25400HPCM	25,400	1.0000	5,930	.2335	ZD
KTFST25500HPCM *	25,500	1.0039	5,950	.2343	ZD
KTFST25679HPCM *	25,679	1.0110	5,980	.2354	ZD
KTFST25806HPCM *	25,806	1.0160	6,000	.2362	ZD
KTFST26000HPCM	26,000	1.0236	6,030	.2374	ZD

NOTE: *Made-to-order standard item. Standard pricing, manufacturing lead time, and minimum order quantity applies.
 Products with D1 ≤ 19,999mm will be available in November 2017.
 Products with D1 ≥ 20mm will be available by January 1st, 2018.

KenTIP FS HPC Geometry

Tolerance	
D1 metric	tolerance k8
6	0,000/+0,018
>6-10	0,000/+0,022
>10-18	0,000/+0,027
>18-26	0,000/+0,033

KenTIP FS HPC Geometry

Tolerance	
D1 inch	tolerance k8
.2362	.000/+0.0007
>.2362-.3937	.000/+0.0009
>.3937-.7087	.000/+0.0011
>.7087-1.0236	.000/+0.0013

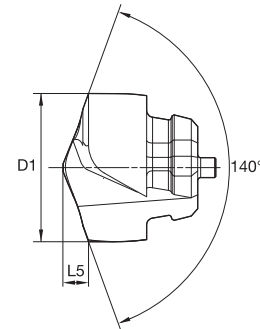
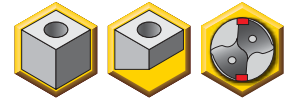
■ Modular Drill Carbide Insert Blades • KenTIP™ FS • HPC Geometry • Grade KC7410™ •
Through Coolant • Metric

Material Group		Cutting Speed – vc			Metric						
		Range – m/min			Recommended Feed Rate per Rev						
		min	Starting Value	max		8,0	10,0	12,0	14,0	16,0	20,0
K	1	100	175	200	mm/r	0,14–0,34	0,16–0,39	0,19–0,45	0,23–0,50	0,26–0,58	0,3–0,64
	2	100	160	180	mm/r	0,14–0,34	0,16–0,39	0,19–0,45	0,23–0,50	0,26–0,58	0,3–0,64
	3	70	85	120	mm/r	0,13–0,27	0,15–0,33	0,17–0,37	0,19–0,42	0,21–0,46	0,28–0,54

■ Modular Drill Carbide Insert Blades • KenTIP™ FS • HPC Geometry • Grade KC7410™ •
Through Coolant • Inch

Material Group		Cutting Speed – vc Range – SFM			Inch						
					Recommended Feed Rate per Rev						
		min	Starting Value	max		.315	.394	.472	.551	.630	.787
K	1	330	570	660	IPR	0.005–0.013	0.006–0.015	0.007–0.017	0.009–0.019	0.010–0.022	0.011–0.025
	2	330	520	590	IPR	0.005–0.013	0.006–0.015	0.007–0.017	0.009–0.019	0.010–0.022	0.011–0.025
	3	230	280	390	IPR	0.005–0.010	0.005–0.013	0.006–0.014	0.007–0.016	0.008–0.018	0.011–0.021

- HPL-point geometry for stainless steels.
- Forms 2 chips per cutting edge for an uninterrupted and smooth chip flow.
- KCMS15™ is an AlTiN PVD monolayer coating.
- Prevents edge built-up, which delivers superior hole quality.
- Very high metal removal rates.
- With internal coolant.



Modular Drills

■ KenTIP FS Inserts • HPL KCMS15 • With Internal Coolant Channels



KCMS15	D1		L5		seat size
	mm	in	mm	in	
KTFST06000HPLM	6,000	.2362	1,340	.0528	A
KTFST06350HPLM	6,350	.2500	1,400	.0551	B
KTFST06500HPLM	6,500	.2559	1,430	.0563	B
KTFST06629HPLM	6,629	.2610	1,460	.0575	C
KTFST06800HPLM	6,800	.2677	1,490	.0587	C
KTFST07000HPLM	7,000	.2756	1,530	.0602	D
KTFST07500HPLM	7,500	.2953	1,630	.0642	E
KTFST07800HPLM	7,800	.3071	1,680	.0661	E
KTFST07938HPLM	7,938	.3125	1,710	.0673	E
KTFST08000HPLM	8,000	.3150	1,720	.0677	F
KTFST08100HPLM *	8,100	.3189	1,740	.0685	F
KTFST08204HPLM *	8,204	.3230	1,760	.0693	F
KTFST08334HPLM *	8,334	.3281	1,790	.0705	F
KTFST08400HPLM *	8,400	.3307	1,800	.0709	F
KTFST08500HPLM	8,500	.3346	1,820	.0717	G
KTFST08600HPLM *	8,600	.3386	1,840	.0724	G
KTFST08700HPLM *	8,700	.3425	1,860	.0732	G
KTFST08800HPLM *	8,800	.3465	1,880	.0740	G
KTFST08900HPLM	8,900	.3504	1,900	.0748	G
KTFST09000HPLM	9,000	.3543	1,930	.0760	H
KTFST09100HPLM *	9,100	.3583	1,950	.0768	H
KTFST09200HPLM	9,200	.3622	1,970	.0776	H
KTFST09400HPLM *	9,400	.3701	2,000	.0787	H
KTFST09500HPLM	9,500	.3740	2,030	.0799	I
KTFST09558HPLM *	9,558	.3763	2,040	.0803	I
KTFST09600HPLM	9,600	.3780	2,050	.0807	I
KTFST09700HPLM *	9,700	.3819	2,070	.0815	I
KTFST09800HPLM	9,800	.3858	2,090	.0823	I
KTFST09900HPLM	9,900	.3898	2,110	.0831	I
KTFST10000HPLM	10,000	.3937	2,130	.0839	J
KTFST10100HPLM	10,100	.3976	2,150	.0846	J
KTFST10200HPLM	10,200	.4016	2,170	.0854	J
KTFST10300HPLM	10,300	.4055	2,190	.0862	J
KTFST10320HPLM	10,320	.4063	2,190	.0862	J
KTFST10400HPLM *	10,400	.4094	2,210	.0870	J
KTFST10500HPLM	10,500	.4134	2,230	.0878	K



- first choice
- alternate choice

KCMS15	D1		L5		seat size
	mm	in	mm	in	
KTFST10600HPLM *	10,600	.4173	2,250	.0886	K
KTFST10700HPLM	10,700	.4213	2,270	.0894	K
KTFST10800HPLM *	10,800	.4252	2,290	.0902	K
KTFST10900HPLM *	10,900	.4291	2,310	.0909	K
KTFST11000HPLM	11,000	.4331	2,340	.0921	L
KTFST11100HPLM	11,100	.4370	2,350	.0925	L
KTFST11113HPLM	11,112	.4375	2,360	.0929	L
KTFST11200HPLM *	11,200	.4409	2,370	.0933	L
KTFST11400HPLM *	11,400	.4488	2,410	.0949	L
KTFST11500HPLM	11,500	.4528	2,440	.0961	M
KTFST11600HPLM *	11,600	.4567	2,460	.0969	M
KTFST11800HPLM *	11,800	.4646	2,490	.0980	M
KTFST11908HPLM	11,908	.4688	2,520	.0992	M
KTFST12000HPLM	12,000	.4724	2,540	.1000	N
KTFST12200HPLM *	12,200	.4803	2,580	.1016	N
KTFST12304HPLM	12,304	.4844	2,600	.1024	N
KTFST12500HPLM	12,500	.4921	2,640	.1039	O
KTFST12700HPLM	12,700	.5000	2,680	.1055	O
KTFST12800HPLM *	12,800	.5039	2,700	.1063	O
KTFST12900HPLM *	12,900	.5079	2,720	.1071	O
KTFST13000HPLM	13,000	.5118	2,740	.1079	P
KTFST13096HPLM	13,096	.5156	2,760	.1087	P
KTFST13200HPLM *	13,200	.5197	2,780	.1094	P
KTFST13492HPLM *	13,492	.5312	2,840	.1118	P
KTFST13500HPLM	13,500	.5315	2,840	.1118	Q
KTFST13800HPLM *	13,800	.5433	2,900	.1142	Q
KTFST13891HPLM *	13,891	.5469	2,920	.1150	Q
KTFST13896HPLM *	13,896	.5471	2,920	.1150	Q
KTFST14000HPLM	14,000	.5512	2,950	.1161	R
KTFST14100HPLM *	14,100	.5551	2,960	.1165	R
KTFST14200HPLM *	14,200	.5591	2,980	.1173	R
KTFST14288HPLM	14,288	.5625	3,000	.1181	R
KTFST14300HPLM	14,300	.5630	3,000	.1181	R
KTFST14400HPLM *	14,400	.5669	3,020	.1189	R
KTFST14500HPLM	14,500	.5709	3,050	.1201	S
KTFST14684HPLM *	14,684	.5781	3,080	.1213	S

(continued)

(KenTIP FS Inserts • HPL KCMS15™ • With Internal Coolant Channels — continued)



Modular Drills

KCMS15	D1		L5		seat size
	mm	in	mm	in	
KTFST14800HPLM *	14,800	.5827	3,100	.1220	S
KTFST15000HPLM	15,000	.5906	3,150	.1240	T
KTFST15100HPLM *	15,100	.5945	3,170	.1248	T
KTFST15200HPLM *	15,200	.5984	3,190	.1256	T
KTFST15500HPLM	15,500	.6102	3,240	.1276	T
KTFST15875HPLM	15,875	.6250	3,310	.1303	T
KTFST16000HPLM	16,000	.6299	3,350	.1319	U
KTFST16100HPLM *	16,100	.6339	3,370	.1327	U
KTFST16104HPLM	16,104	.6340	3,370	.1327	U
KTFST16150HPLM	16,150	.6358	3,380	.1331	U
KTFST16271HPLM	16,271	.6406	3,400	.1339	U
KTFST16500HPLM	16,500	.6496	3,450	.1358	U
KTFST16670HPLM	16,670	.6563	3,480	.1370	U
KTFST17000HPLM	17,000	.6693	3,550	.1398	V
KTFST17463HPLM *	17,462	.6875	3,640	.1433	V
KTFST17480HPLM	17,480	.6882	3,640	.1433	V
KTFST17500HPLM	17,500	.6890	3,650	.1437	V
KTFST17700HPLM *	17,700	.6969	3,690	.1453	V
KTFST18000HPLM	18,000	.7087	3,760	.1480	W
KTFST18258HPLM *	18,258	.7188	3,800	.1496	W
KTFST18500HPLM	18,500	.7283	3,850	.1516	W
KTFST18654HPLM *	18,654	.7344	3,880	.1528	W
KTFST19000HPLM	19,000	.7480	3,960	.1559	X
KTFST19050HPLM	19,050	.7500	3,970	.1563	X
KTFST19200HPLM *	19,200	.7559	3,990	.1571	X
KTFST19228HPLM *	19,228	.7570	4,000	.1575	X
KTFST19253HPLM	19,253	.7580	4,000	.1575	X
KTFST19279HPLM	19,279	.7590	4,010	.1579	X



● first choice
○ alternate choice

KCMS15	D1		L5		seat size
	mm	in	mm	in	
KTFST19355HPLM *	19,355	.7620	4,020	.1583	X
KTFST19446HPLM	19,446	.7656	4,040	.1591	X
KTFST19460HPLM *	19,460	.7661	4,040	.1591	X
KTFST19500HPLM	19,500	.7677	4,050	.1594	X
KTFST19845HPLM	19,845	.7813	4,120	.1622	X
KTFST19850HPLM *	19,850	.7815	4,120	.1622	X
KTFST20000HPLM	20,000	.7874	4,160	.1638	Y
KTFST20500HPLM	20,500	.8071	4,250	.1673	Y
KTFST20638HPLM	20,638	.8125	4,280	.1685	Y
KTFST21000HPLM	21,000	.8268	4,360	.1717	Z
KTFST21150HPLM *	21,150	.8327	4,390	.1728	Z
KTFST21500HPLM	21,500	.8465	4,450	.1752	Z
KTFST22000HPLM	22,000	.8661	4,560	.1795	ZA
KTFST22225HPLM	22,225	.8750	4,600	.1811	ZA
KTFST22500HPLM	22,500	.8858	4,660	.1835	ZA
KTFST23000HPLM	23,000	.9055	4,760	.1874	ZB
KTFST23500HPLM	23,500	.9252	4,860	.1913	ZB
KTFST23813HPLM	23,812	.9375	4,920	.1937	ZB
KTFST24000HPLM	24,000	.9449	4,960	.1953	ZC
KTFST24500HPLM	24,500	.9646	5,060	.1992	ZC
KTFST25000HPLM	25,000	.9843	5,170	.2035	ZD
KTFST25400HPLM	25,400	1.0000	5,240	.2063	ZD
KTFST25500HPLM	25,500	1.0039	5,260	.2071	ZD
KTFST25600HPLM	25,600	1.0079	5,280	.2079	ZD
KTFST25650HPLM	25,650	1.0098	5,290	.2083	ZD
KTFST25679HPLM	25,679	1.0110	5,290	.2083	ZD
KTFST25806HPLM	25,806	1.0160	5,320	.2094	ZD
KTFST26000HPLM	26,000	1.0236	5,370	.2114	ZD

NOTE: *Made-to-order standard item. Standard pricing, manufacturing lead time, and minimum order quantity applies.
Products with D1 ≥ 20mm will be available by January 1st, 2018.

KenTIP FS HPL Geometry
Tolerance

D1 metric	tolerance k8
6	0,000/+0,018
>6-10	0,000/+0,022
>10-18	0,000/+0,027
>18-26	0,000/+0,033

KenTIP FS HPL Geometry
Tolerance

D1 inch	tolerance k8
.2362	.000/+ .0007
>.2362-.3937	.000/+ .0009
>.3937-.7087	.000/+ .0011
>.7087-1.0236	.000/+ .0013

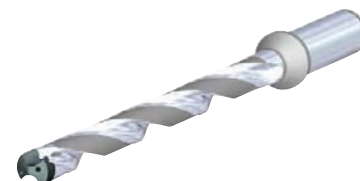
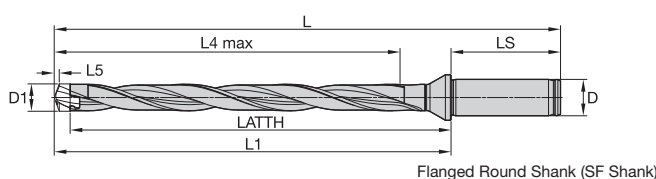
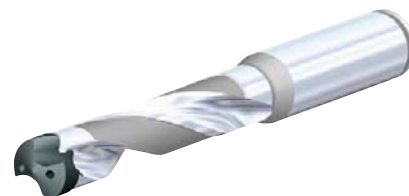
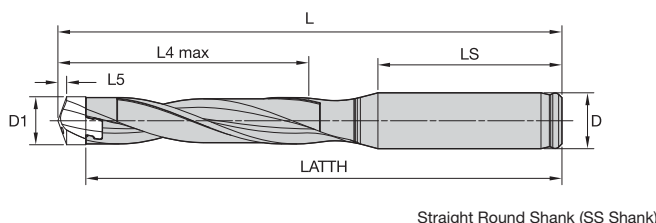
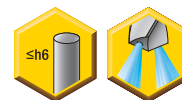
■ Modular Drill Carbide Insert Blades • KenTIP™ FS • HPL Geometry • Grade KCMS15™ • Through Coolant • Metric

Material Group		Cutting Speed — vc			Metric						
		Range — m/min			Recommended Feed Rate per Rev						
		min	Starting Value	max		8,0	10,0	12,0	14,0	16,0	20,0
M	1	50	60	90	mm/r	0,08–0,15	0,09–0,18	0,11–0,20	0,12–0,22	0,13–0,24	0,16–0,28
	2	30	60	90	mm/r	0,08–0,15	0,09–0,18	0,11–0,20	0,12–0,22	0,13–0,24	0,16–0,28
	3	20	50	60	mm/r	0,08–0,15	0,09–0,18	0,11–0,20	0,12–0,22	0,13–0,24	0,16–0,28

■ Modular Drill Carbide Insert Blades • KenTIP™ FS • HPL Geometry • Grade KCMS15™ • Through Coolant • Inch

Material Group		Cutting Speed — vc Range — SFM			Inch						
					Recommended Feed Rate per Rev						
		min	Starting Value	max		.315	.394	.472	.551	.630	.787
M	1	160	200	300	IPR	0.003–0.006	0.004–0.007	0.004–0.008	0.005–0.009	0.005–0.009	0.006–0.011
	2	100	200	300	IPR	0.003–0.006	0.004–0.007	0.004–0.008	0.005–0.009	0.005–0.009	0.006–0.011
	3	70	160	200	IPR	0.003–0.006	0.004–0.007	0.004–0.008	0.005–0.009	0.005–0.009	0.006–0.011

- KenTIP FS toolholder with straight cylindrical round metric shank.
- 12 x D holders feature a flanged shank for improved stiffness.
- Multi-coolant provides an advanced coolant channel layout with four coolant exits in each holder.
- Each tool body is shipped with related insert wrench.



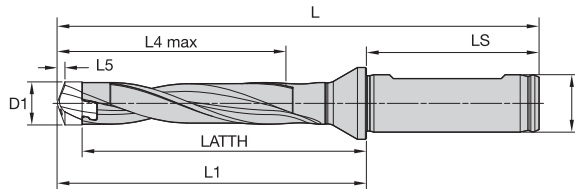
■ KenTIP FS Round Shank • 1.5 x D/3 x D/5 x D/8 x D/12 x D • Metric



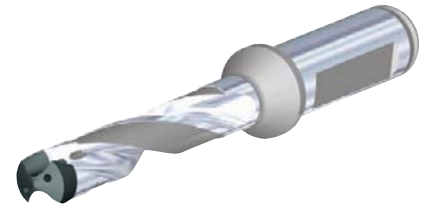
					D1		D1 max		seat size	KenTIP wrench
1.5 x D SS	3 x D SS	5 x D SS	8 x D SS	12 x D SF	mm	in	mm	in		
KTFS060R01SS8M	KTFS060R03SS8M	KTFS060R05SS8M	KTFS060R08SS8M	KTFS060R12SF12M	6,000	.2363	6,299	.2480	A	170.319
KTFS063R01SS8M	KTFS063R03SS8M	KTFS063R05SS8M	KTFS063R08SS8M	KTFS063R12SF12M	6,300	.2481	6,599	.2598	B	170.319
KTFS066R01SS8M	KTFS066R03SS8M	KTFS066R05SS8M	KTFS066R08SS8M	KTFS066R12SF12M	6,600	.2599	6,999	.2755	C	170.319
KTFS070R01SS8M	KTFS070R03SS8M	KTFS070R05SS8M	KTFS070R08SS8M	KTFS070R12SF12M	7,000	.2756	7,499	.2952	D	170.319
KTFS075R01SS8M	KTFS075R03SS8M	KTFS075R05SS8M	KTFS075R08SS8M	KTFS075R12SF12M	7,500	.2953	7,999	.3149	E	170.319
KTFS080R01SS10M	KTFS080R03SS10M	KTFS080R05SS10M	KTFS080R08SS10M	KTFS080R12SF12M	8,000	.3150	8,499	.3346	F	170.306
KTFS085R01SS10M	KTFS085R03SS10M	KTFS085R05SS10M	KTFS085R08SS10M	KTFS085R12SF12M	8,500	.3346	8,999	.3543	G	170.306
KTFS090R01SS10M	KTFS090R03SS10M	KTFS090R05SS10M	KTFS090R08SS10M	KTFS090R12SF12M	9,000	.3544	9,499	.3739	H	170.306
KTFS095R01SS10M	KTFS095R03SS10M	KTFS095R05SS10M	KTFS095R08SS10M	KTFS095R12SF12M	9,500	.3740	9,999	.3936	I	170.306
KTFS100R01SS12M	KTFS100R03SS12M	KTFS100R05SS12M	KTFS100R08SS12M	KTFS100R12SF16M	10,000	.3937	10,499	.4133	J	170.307
KTFS105R01SS12M	KTFS105R03SS12M	KTFS105R05SS12M	KTFS105R08SS12M	KTFS105R12SF16M	10,500	.4134	10,999	.4330	K	170.307
KTFS110R01SS12M	KTFS110R03SS12M	KTFS110R05SS12M	KTFS110R08SS12M	KTFS110R12SF16M	11,000	.4331	11,499	.4527	L	170.307
KTFS115R01SS12M	KTFS115R03SS12M	KTFS115R05SS12M	KTFS115R08SS12M	KTFS115R12SF16M	11,500	.4528	11,999	.4724	M	170.307
KTFS120R01SS14M	KTFS120R03SS14M	KTFS120R05SS14M	KTFS120R08SS14M	KTFS120R12SF16M	12,000	.4725	12,499	.4921	N	170.308
KTFS125R01SS14M	KTFS125R03SS14M	KTFS125R05SS14M	KTFS125R08SS14M	KTFS125R12SF16M	12,500	.4922	12,999	.5117	O	170.308
KTFS130R01SS14M	KTFS130R03SS14M	KTFS130R05SS14M	KTFS130R08SS14M	KTFS130R12SF16M	13,000	.5118	13,499	.5314	P	170.308
KTFS135R01SS14M	KTFS135R03SS14M	KTFS135R05SS14M	KTFS135R08SS14M	KTFS135R12SF16M	13,500	.5315	13,999	.5511	Q	170.308
KTFS140R01SS16M	KTFS140R03SS16M	KTFS140R05SS16M	KTFS140R08SS16M	KTFS140R12SF16M	14,000	.5512	14,499	.5708	R	170.309
KTFS145R01SS16M	KTFS145R03SS16M	KTFS145R05SS16M	KTFS145R08SS16M	KTFS145R12SF16M	14,500	.5709	14,999	.5905	S	170.309
KTFS150R01SS16M	KTFS150R03SS16M	KTFS150R05SS16M	KTFS150R08SS16M	KTFS150R12SF20M	15,000	.5906	15,999	.6299	T	170.309
KTFS160R01SS16M	KTFS160R03SS16M	KTFS160R05SS16M	KTFS160R08SS16M	KTFS160R12SF20M	16,000	.6300	16,999	.6692	U	170.309
KTFS170R01SS20M	KTFS170R03SS20M	KTFS170R05SS20M	KTFS170R08SS20M	KTFS170R12SF20M	17,000	.6693	17,999	.7086	V	170.314
KTFS180R01SS20M	KTFS180R03SS20M	KTFS180R05SS20M	KTFS180R08SS20M	KTFS180R12SF25M	18,000	.7087	18,999	.7479	W	170.314
KTFS190R01SS20M	KTFS190R03SS20M	KTFS190R05SS20M	KTFS190R08SS20M	KTFS190R12SF25M	19,000	.7480	19,999	.7873	X	170.314



- KenTIP FS toolholder with flanged shank and 0° flat metric shank.
- Multi-coolant provides an advanced coolant channel layout with four coolant exits in each holder.
- Each tool body is shipped with related insert wrench.



Flanged Shank with Flat (SCF Shank)



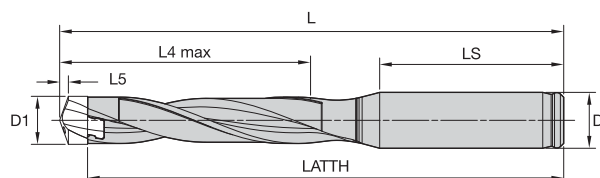
■ KenTIP FS Flanged Shank with Flat • 1.5 x D/3 x D/5 x D/8 x D/12 x D • Metric



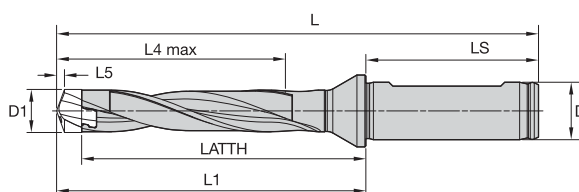
					D1		D1 max		seat size	KenTIP wrench
1.5 x D SCF	3 x D SCF	5 x D SCF	8 x D SCF	12 x D SCF	mm	in	mm	in		
-	KTFS080R03SCF12M	KTFS080R05SCF12M	KTFS080R08SCF12M	-	8,000	.3150	8,499	.3346	F	170.306
-	KTFS085R03SCF12M	KTFS085R05SCF12M	KTFS085R08SCF12M	-	8,500	.3346	8,999	.3543	G	170.306
-	KTFS090R03SCF12M	KTFS090R05SCF12M	KTFS090R08SCF12M	-	9,000	.3544	9,499	.3739	H	170.306
-	KTFS095R03SCF12M	KTFS095R05SCF12M	KTFS095R08SCF12M	-	9,500	.3740	9,999	.3936	I	170.306
-	KTFS100R03SCF16M	KTFS100R05SCF16M	KTFS100R08SCF16M	-	10,000	.3937	10,499	.4133	J	170.307
-	KTFS105R03SCF16M	KTFS105R05SCF16M	KTFS105R08SCF16M	-	10,500	.4134	10,999	.4330	K	170.307
-	KTFS110R03SCF16M	KTFS110R05SCF16M	KTFS110R08SCF16M	-	11,000	.4331	11,499	.4527	L	170.307
-	KTFS115R03SCF16M	KTFS115R05SCF16M	KTFS115R08SCF16M	-	11,500	.4528	11,999	.4724	M	170.307
-	KTFS120R03SCF16M	KTFS120R05SCF16M	KTFS120R08SCF16M	-	12,000	.4725	12,499	.4921	N	170.308
-	KTFS125R03SCF16M	KTFS125R05SCF16M	KTFS125R08SCF16M	-	12,500	.4922	12,999	.5117	O	170.308
-	KTFS130R03SCF16M	KTFS130R05SCF16M	KTFS130R08SCF16M	-	13,000	.5118	13,499	.5314	P	170.308
-	KTFS135R03SCF16M	KTFS135R05SCF16M	KTFS135R08SCF16M	-	13,500	.5315	13,999	.5511	Q	170.308
-	KTFS140R03SCF16M	KTFS140R05SCF16M	KTFS140R08SCF16M	-	14,000	.5512	14,499	.5708	R	170.309
-	KTFS145R03SCF16M	KTFS145R05SCF16M	KTFS145R08SCF16M	-	14,500	.5709	14,999	.5905	S	170.309
-	KTFS150R03SCF20M	KTFS150R05SCF20M	KTFS150R08SCF20M	-	15,000	.5906	15,999	.6299	T	170.309
-	KTFS160R03SCF20M	KTFS160R05SCF20M	KTFS160R08SCF20M	-	16,000	.6300	16,999	.6692	U	170.309
-	KTFS170R03SCF20M	KTFS170R05SCF20M	KTFS170R08SCF20M	-	17,000	.6693	17,999	.7086	V	170.314
-	KTFS180R03SCF25M	KTFS180R05SCF25M	KTFS180R08SCF25M	-	18,000	.7087	18,999	.7479	W	170.314
-	KTFS190R03SCF25M	KTFS190R05SCF25M	KTFS190R08SCF25M	-	19,000	.7480	19,999	.7873	X	170.314
KTFS200R01SCF25M	KTFS200R03SCF25M	KTFS200R05SCF25M	KTFS200R08SCF25M	KTFS200R12SCF25M	20,000	.7874	20,999	.8267	Y	170.314
KTFS210R01SCF25M	KTFS210R03SCF25M	KTFS210R05SCF25M	KTFS210R08SCF25M	KTFS210R12SCF25M	21,000	.8268	21,999	.8661	Z	170.314
KTFS220R01SCF25M	KTFS220R03SCF25M	KTFS220R05SCF25M	KTFS220R08SCF25M	KTFS220R12SCF25M	22,000	.8662	22,999	.9054	ZA	170.314
KTFS230R01SCF25M	KTFS230R03SCF25M	KTFS230R05SCF25M	KTFS230R08SCF25M	KTFS230R12SCF25M	23,000	.9055	23,999	.9448	ZB	170.314
KTFS240R01SCF25M	KTFS240R03SCF25M	KTFS240R05SCF25M	KTFS240R08SCF25M	KTFS240R12SCF25M	24,000	.9449	24,999	.9842	ZC	170.314
KTFS250R01SCF25M	KTFS250R03SCF25M	KTFS250R05SCF25M	KTFS250R08SCF25M	KTFS250R12SCF25M	25,000	.9843	25,999	1.0236	ZD	170.314

NOTE: Products with D1 ≥ 20mm will be available by January 1st, 2018.

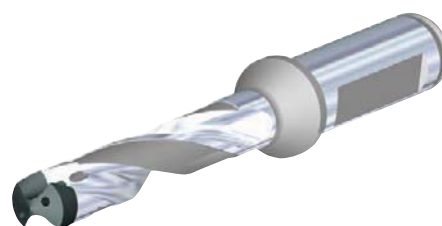
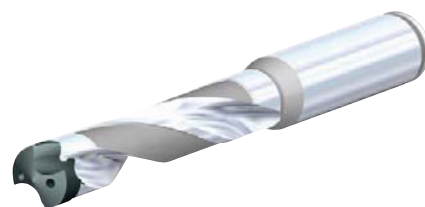
- KenTIP FS toolholder with straight cylindrical round shank.
Inch shank <20mm nominal drilling diameter.
- KenTIP FS toolholder with Flanged shank and 0° Flat.
Inch shank ≥20mm nominal drilling diameter.
- Multi-coolant provides an advanced coolant channel layout with four coolant exits in each holder.
- Each tool body is shipped with related insert wrench.



Straight Round Shank (SS Shank)



Flanged Shank with Flat (SCF Shank)



■ KenTIP FS Round and Flanged Shank with Flat • 3 x D/5 x D/8 x D • Inch

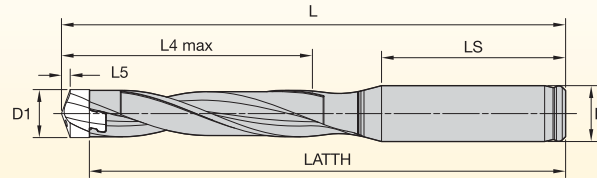


			D1		D1 max		seat size	KenTIP wrench
3 x D	5 x D	8 x D	mm	in	mm	in		
KTFS0237R03SS031	KTFS0237R05SS031	KTFS0237R08SS031	6,000	.2363	6,299	.2480	A	170.319
KTFS0249R03SS031	KTFS0249R05SS031	KTFS0249R08SS031	6,300	.2481	6,599	.2598	B	170.319
KTFS0260R03SS031	KTFS0260R05SS031	KTFS0260R08SS031	6,600	.2599	6,999	.2755	C	170.319
KTFS0276R03SS031	KTFS0276R05SS031	KTFS0276R08SS031	7,000	.2756	7,499	.2952	D	170.319
KTFS0296R03SS031	KTFS0296R05SS031	KTFS0296R08SS031	7,500	.2953	7,999	.3149	E	170.319
KTFS0315R03SS038	KTFS0315R05SS038	KTFS0315R08SS038	8,000	.3150	8,499	.3346	F	170.306
KTFS0335R03SS038	KTFS0335R05SS038	KTFS0335R08SS038	8,500	.3346	8,999	.3543	G	170.306
KTFS0355R03SS038	KTFS0355R05SS038	KTFS0355R08SS038	9,000	.3544	9,499	.3739	H	170.306
KTFS0375R03SS038	KTFS0375R05SS038	KTFS0375R08SS038	9,500	.3740	9,999	.3936	I	170.306
KTFS0394R03SS044	KTFS0394R05SS044	KTFS0394R08SS044	10,000	.3937	10,499	.4133	J	170.307
KTFS0414R03SS044	KTFS0414R05SS044	KTFS0414R08SS044	10,500	.4134	10,999	.4330	K	170.307
KTFS0434R03SS044	KTFS0434R05SS044	KTFS0434R08SS044	11,000	.4331	11,499	.4527	L	170.307
KTFS0453R03SS050	KTFS0453R05SS050	KTFS0453R08SS050	11,500	.4528	11,999	.4724	M	170.307
KTFS0473R03SS050	KTFS0473R05SS050	KTFS0473R08SS050	12,000	.4725	12,499	.4921	N	170.308
KTFS0493R03SS050	KTFS0493R05SS050	KTFS0493R08SS050	12,500	.4922	12,999	.5117	O	170.308
KTFS0512R03SS056	KTFS0512R05SS056	KTFS0512R08SS056	13,000	.5118	13,499	.5314	P	170.308
KTFS0532R03SS056	KTFS0532R05SS056	KTFS0532R08SS056	13,500	.5315	13,999	.5511	Q	170.308
KTFS0552R03SS056	KTFS0552R05SS056	KTFS0552R08SS056	14,000	.5512	14,499	.5708	R	170.309
KTFS0571R03SS063	KTFS0571R05SS063	KTFS0571R08SS063	14,500	.5709	14,999	.5905	S	170.309
KTFS0591R03SS063	KTFS0591R05SS063	KTFS0591R08SS063	15,000	.5906	15,999	.6299	T	170.309
KTFS0630R03SS063	KTFS0630R05SS063	KTFS0630R08SS063	16,000	.6300	16,999	.6692	U	170.309
KTFS0670R03SS075	KTFS0670R05SS075	KTFS0670R08SS075	17,000	.6693	17,999	.7086	V	170.314
KTFS0709R03SS075	KTFS0709R05SS075	KTFS0709R08SS075	18,000	.7087	18,999	.7479	W	170.314
KTFS0749R03SS075	KTFS0749R05SS075	KTFS0749R08SS075	19,000	.7480	19,999	.7873	X	170.314
KTFS0788R03SCF100	KTFS0788R05SCF100	KTFS0788R08SCF100	20,000	.7874	20,999	.8267	Y	170.314
KTFS0827R03SCF100	KTFS0827R05SCF100	KTFS0827R08SCF100	21,000	.8268	21,999	.8661	Z	170.314
KTFS0867R03SCF100	KTFS0867R05SCF100	KTFS0867R08SCF100	22,000	.8662	22,999	.9054	ZA	170.314
KTFS0906R03SCF100	KTFS0906R05SCF100	KTFS0906R08SCF100	23,000	.9055	23,999	.9448	ZB	170.314
KTFS0945R03SCF100	KTFS0945R05SCF100	KTFS0945R08SCF100	24,000	.9449	24,999	.9842	ZC	170.314
KTFS0985R03SCF100	KTFS0985R05SCF100	KTFS0985R08SCF100	25,000	.9843	25,999	1.0236	ZD	170.314

NOTE: Products with D1 ≥ 20mm will be available by January 1st, 2018.

Modular Drills • Dimension Tables

■ Straight Round Shank • Metric



					1.5 x D SS			3 x D SS			5 x D SS			8 x D SS		
D1 min	D1 max	Seat	LS	round D	LATTH	L	L4 max	LATTH	L	L4 max	LATTH	L	L4 max	LATTH	L	L4 max
6,000	6,299	A	37	8	53,5	57	9	63,5	67	19	76,5	80	32	94,5	98	50
6,300	6,599	B	37	8	54,3	58	10	64,3	68	20	77,3	81	33	97,3	101	53
6,600	6,999	C	37	8	55,2	59	10	66,2	70	21	80,2	84	35	101,2	105	56
7,000	7,499	D	37	8	55,9	60	11	66,9	71	22	82,9	87	38	104,9	109	60
7,500	7,999	E	37	8	56,7	61	12	68,7	73	24	84,7	89	40	108,7	113	64
8,000	8,499	F	41	10	63,4	68	13	76,4	81	26	92,4	97	42	118,4	123	68
8,500	8,999	G	41	10	64,1	69	14	77,1	82	27	95,1	100	45	122,1	127	72
9,000	9,499	H	41	10	63,8	69	14	77,8	83	28	97,8	103	48	125,8	131	76
9,500	9,999	I	41	10	64,5	70	15	79,5	85	30	99,5	105	50	129,5	135	80
10,000	10,499	J	46	12	72,2	78	16	88,2	94	32	108,2	114	52	140,2	146	84
10,500	10,999	K	46	12	71,9	78	16	88,9	95	33	110,9	117	55	143,9	150	88
11,000	11,499	L	46	12	72,6	79	17	89,6	96	34	113,6	120	58	147,6	154	92
11,500	11,999	M	46	12	73,3	80	18	91,3	98	36	115,3	122	60	151,3	158	96
12,000	12,499	N	46	14	76,0	83	19	95,0	102	38	119,0	126	62	157,0	164	100
12,500	12,999	O	46	14	76,8	84	20	95,8	103	39	121,8	129	65	160,8	168	104
13,000	13,499	P	46	14	76,5	84	20	96,5	104	40	124,5	132	68	164,5	172	108
13,500	13,999	Q	46	14	77,2	85	21	98,2	106	42	126,2	134	70	168,2	176	112
14,000	14,499	R	49	16	81,9	90	22	103,9	112	44	131,9	140	72	175,9	184	116
14,500	14,999	S	49	16	81,6	90	22	104,6	113	45	134,6	143	75	179,6	188	120
15,000	15,999	T	49	16	83,3	92	24	107,3	116	48	139,3	148	80	187,3	196	128
16,000	16,999	U	49	16	84,7	94	26	109,7	119	51	143,7	153	85	194,7	204	136
17,000	17,999	V	51	20	90,1	100	27	117,1	127	54	153,1	163	90	207,1	217	144
18,000	18,999	W	51	20	90,6	101	28	119,6	130	57	157,6	168	95	214,6	225	152
19,000	19,999	X	51	20	92,0	103	30	122,0	133	60	162,0	173	100	222,0	233	160

NOTE: Toolholder dimensions:

L: Total length of drill

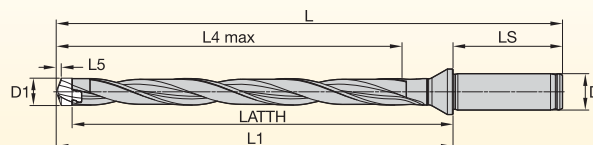
L4: Max. drilling depth

L5: Protruding length (Insert specific. See related insert pages)

LATTH: Pocket seat reference length

LS: Shank length

(continued)

Modular Drills • Dimension Tables *(continued)*
■ Flanged Round Shank • Metric


			12 x D SF					
D1 min	D1 max	Seat	LS	flanged D	LATTH	L	L1	L4 max
6,000	6,299	A	45	12	92,5	141	96	76
6,300	6,599	B	45	12	95,3	144	99	79
6,600	6,999	C	45	12	101,2	150	105	84
7,000	7,499	D	45	12	106,9	156	111	90
7,500	7,999	E	45	12	112,7	162	117	96
8,000	8,499	F	45	12	118,4	168	123	102
8,500	8,999	G	45	12	124,1	174	129	108
9,000	9,499	H	45	12	129,8	180	135	114
9,500	9,999	I	45	12	135,5	186	141	120
10,000	10,499	J	48	16	144,2	198	150	126
10,500	10,999	K	48	16	149,9	204	156	132
11,000	11,499	L	48	16	155,6	210	162	138
11,500	11,999	M	48	16	161,3	216	168	144
12,000	12,499	N	48	16	167,0	222	174	150
12,500	12,999	O	48	16	172,8	228	180	156
13,000	13,499	P	48	16	178,5	234	186	162
13,500	13,999	Q	48	16	184,2	240	192	168
14,000	14,499	R	48	16	189,9	246	198	174
14,500	14,999	S	48	16	195,6	252	204	180
15,000	15,999	T	50	20	210,3	269	219	192
16,000	16,999	U	50	20	221,7	281	231	204
17,000	17,999	V	50	20	233,1	293	243	216
18,000	18,999	W	56	25	247,6	314	258	228
19,000	19,999	X	56	25	259,0	326	270	240

NOTE: Toolholder dimensions:

L: Total length of drill

L1: Drill length including flange

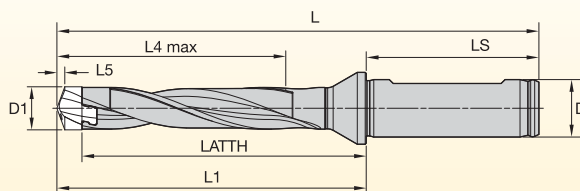
L4: Max. drilling depth

L5: Protruding length (Insert specific. See related insert pages)

LATTH: Pocket seat reference length

LS: Shank length

(continued)

Modular Drills • Dimension Tables *(continued)*
■ Flanged Shank with Flat • Metric


					1.5 x D SCF				3 x D SCF				5 x D SCF				8 x D SCF				12 x D SCF			
D1 min	D1 max	Seat	LS	flanged D	LATTH	L	L1	L4 max	LATTH	L	L1	L4 max	LATTH	L	L1	L4 max	LATTH	L	L1	L4 max	LATTH	L	L1	L4 max
8,000	8,499	F	45	12	—	—	—	—	42,4	92	2	26	58,4	108	2	42	84,4	134	4	68	—	—	—	—
8,500	8,999	G	45	12	—	—	—	—	43,1	93	2	27	61,1	111	3	45	88,1	138	4	72	—	—	—	—
9,000	9,499	H	45	12	—	—	—	—	43,8	94	2	28	63,8	114	3	48	91,8	142	4	76	—	—	—	—
9,500	9,999	I	45	12	—	—	—	—	45,5	96	2	30	65,5	116	3	50	95,5	146	4	80	—	—	—	—
10,000	10,499	J	48	16	—	—	—	—	50,2	104	2	32	70,2	124	3	52	102,2	156	4	84	—	—	—	—
10,500	10,999	K	48	16	—	—	—	—	50,9	105	2	33	72,9	127	3	55	105,9	160	4	88	—	—	—	—
11,000	11,499	L	48	16	—	—	—	—	51,6	106	2	34	75,6	130	3	58	109,6	164	5	92	—	—	—	—
11,500	11,999	M	48	16	—	—	—	—	53,3	108	2	36	77,3	132	3	60	113,3	168	5	96	—	—	—	—
12,000	12,499	N	48	16	—	—	—	—	55,0	110	2	38	79,0	134	3	62	117,0	172	5	100	—	—	—	—
12,500	12,999	O	48	16	—	—	—	—	55,8	111	2	39	81,8	137	4	65	120,8	176	5	104	—	—	—	—
13,000	13,499	P	48	16	—	—	—	—	56,5	112	3	40	84,5	140	4	68	124,5	180	5	108	—	—	—	—
13,500	13,999	Q	48	16	—	—	—	—	58,2	114	3	42	86,2	142	4	70	128,2	184	5	112	—	—	—	—
14,000	14,499	R	48	16	—	—	—	—	59,9	116	3	44	87,9	144	4	72	131,9	188	6	116	—	—	—	—
14,500	14,999	S	48	16	—	—	—	—	60,6	117	3	45	90,6	147	4	75	135,6	192	6	120	—	—	—	—
15,000	15,999	T	50	20	—	—	—	—	66,3	125	3	48	98,3	157	4	80	146,3	205	6	128	—	—	—	—
16,000	16,999	U	50	20	—	—	—	—	68,7	128	3	51	102,7	162	4	85	153,7	213	6	136	—	—	—	—
17,000	17,999	V	50	20	—	—	—	—	71,1	131	3	54	107,1	167	5	90	161,1	221	7	144	—	—	—	—
18,000	18,999	W	56	25	—	—	—	—	76,6	143	3	57	114,6	181	5	95	171,6	238	7	152	—	—	—	—
19,000	19,999	X	56	25	—	—	—	—	79,0	146	4	60	119,0	186	5	100	179,0	246	7	160	—	—	—	—
20,000	20,999	Y	56	25	50,4	118	2	32	81,4	149	4	63	123,4	191	5	105	186,4	254	8	168	270,4	338	11	252
21,000	21,999	Z	56	25	50,8	119	2	33	83,8	152	4	66	127,8	196	6	110	193,8	262	8	176	281,8	350	12	264
22,000	22,999	ZA	56	25	51,2	120	3	34	86,2	155	4	69	132,2	201	6	115	201,2	270	8	184	293,2	362	12	276
23,000	23,999	ZB	56	25	52,7	122	3	36	88,7	158	4	72	136,7	206	6	120	208,7	278	9	192	304,7	374	13	288
24,000	24,999	ZC	56	25	54,1	124	3	38	91,1	161	4	75	141,1	211	6	125	216,1	286	9	200	316,1	386	13	300
25,000	25,999	ZD	56	25	54,5	125	3	39	93,5	164	4	78	145,5	216	6	130	223,5	294	9	208	327,5	398	13	312

NOTE: Toolholder dimensions:

L: Total length of drill

L1: Drill length including flange

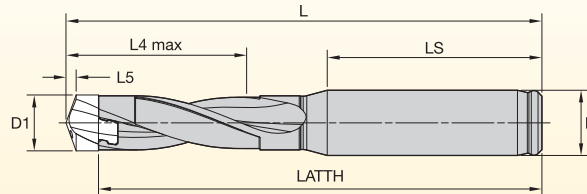
L4: Max. drilling depth

L5: Protruding length (Insert specific. See related insert pages)

LATTH: Pocket seat reference length

LS: Shank length

(continued)

Modular Drills • Dimension Tables *(continued)*
■ Straight Round Shank • Inch


D1 min	D1 max	Seat	LS	round D	3 x D SS			5 x D SS			8 x D SS		
					LATTH	L	L4 max	LATTH	L	L4 max	LATTH	L	L4 max
.3937	.4133	J	1.67	.438	3.32	3.54	1.26	4.10	4.33	2.05	5.36	5.59	3.31
.4134	.4330	K	1.67	.438	3.34	3.58	1.30	4.21	4.45	2.17	5.51	5.75	3.47
.4331	.4527	L	1.67	.438	3.37	3.62	1.34	4.32	4.57	2.28	5.65	5.91	3.62
.4528	.4724	M	1.79	.500	3.60	3.86	1.42	4.54	4.80	2.36	5.96	6.22	3.78
.4725	.4921	N	1.79	.500	3.66	3.94	1.50	4.61	4.88	2.44	6.10	6.38	3.94
.4922	.5117	O	1.79	.500	3.69	3.98	1.54	4.71	5.00	2.56	6.25	6.54	4.09
.5118	.5314	P	1.79	.563	3.76	4.06	1.58	4.86	5.16	2.68	6.44	6.73	4.25
.5315	.5511	Q	1.79	.563	3.83	4.13	1.65	4.93	5.24	2.76	6.58	6.89	4.41
.5512	.5708	R	1.79	.563	3.89	4.21	1.73	5.00	5.32	2.84	6.73	7.05	4.57
.5709	.5905	S	1.91	.625	4.12	4.45	1.77	5.30	5.63	2.95	7.07	7.40	4.72
.5906	.6299	T	1.91	.625	4.22	4.57	1.89	5.48	5.83	3.15	7.37	7.72	5.04
.6300	.6692	U	1.91	.625	4.28	4.65	2.01	5.62	5.98	3.35	7.63	7.99	5.35
.6693	.7086	V	2.00	.750	4.57	4.96	2.13	5.99	6.38	3.54	8.12	8.50	5.67
.7087	.7479	W	2.00	.750	4.67	5.08	2.24	6.16	6.57	3.74	8.41	8.82	5.98
.7480	.7873	X	2.00	.750	4.76	5.20	2.36	6.34	6.77	3.94	8.70	9.13	6.30
.2363	.2480	A	1.52	.313	2.58	2.72	.75	3.09	3.23	1.26	3.80	3.94	1.97
.2481	.2598	B	1.52	.313	2.61	2.76	.79	3.12	3.27	1.30	3.91	4.06	2.09
.2599	.2755	C	1.52	.313	2.64	2.80	.83	3.20	3.35	1.38	4.02	4.17	2.21
.2756	.2952	D	1.52	.313	2.67	2.83	.87	3.30	3.46	1.50	4.17	4.33	2.36
.2953	.3149	E	1.52	.313	2.83	3.00	.95	3.46	3.63	1.58	4.40	4.58	2.52
.3150	.3346	F	1.59	.375	2.97	3.15	1.02	3.60	3.78	1.65	4.62	4.80	2.68
.3346	.3543	G	1.59	.375	2.99	3.19	1.06	3.70	3.90	1.77	4.77	4.96	2.84
.3544	.3739	H	1.59	.375	3.02	3.23	1.10	3.81	4.02	1.89	4.91	5.12	2.99
.3740	.3936	I	1.59	.375	3.09	3.31	1.18	3.88	4.09	1.97	5.06	5.28	3.15

NOTE: Toolholder dimensions:

L: Total length of drill

L4: Max. drilling depth

L5: Protruding length (Insert specific. See related insert pages)

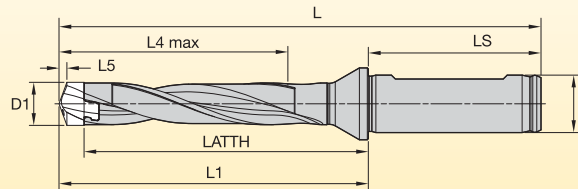
LATTH: Pocket seat reference length

LS: Shank length

(continued)

Modular Drills • Dimension Tables *(continued)*

■ **Flanged Shank with Flat • Inch**



D1 min	D1 max	Seat	LS	flanged D	3 x D SCF				5 x D SCF				8 x D SCF			
					LATTH	L	L1	L4 max	LATTH	L	L1	L4 max	LATTH	L	L1	L4 max
.7874	.8267	Y	2.20	1.000	3.20	5.87	3.66	2.48	4.86	7.52	5.32	4.13	7.34	10.00	7.80	6.61
.8268	.8661	Z	2.20	1.000	3.30	5.98	3.78	2.60	5.03	7.72	5.51	4.33	7.63	10.32	8.11	6.93
.8662	.9054	ZA	2.20	1.000	3.40	6.10	3.90	2.72	5.21	7.91	5.71	4.53	7.92	10.63	8.43	7.24
.9055	.9448	ZB	2.20	1.000	3.49	6.22	4.02	2.84	5.38	8.11	5.91	4.72	8.22	10.94	8.74	7.56
.9449	.9842	ZC	2.20	1.000	3.59	6.34	4.13	2.95	5.55	8.31	6.10	4.92	8.51	11.26	9.06	7.87
.9843	1.0236	ZD	2.20	1.000	3.68	6.46	4.25	3.07	5.73	8.50	6.30	5.12	8.80	11.57	9.37	8.19

NOTE: Toolholder dimensions:

L: Total length of drill

L1: Drill length including flange

L4: Max. drilling depth

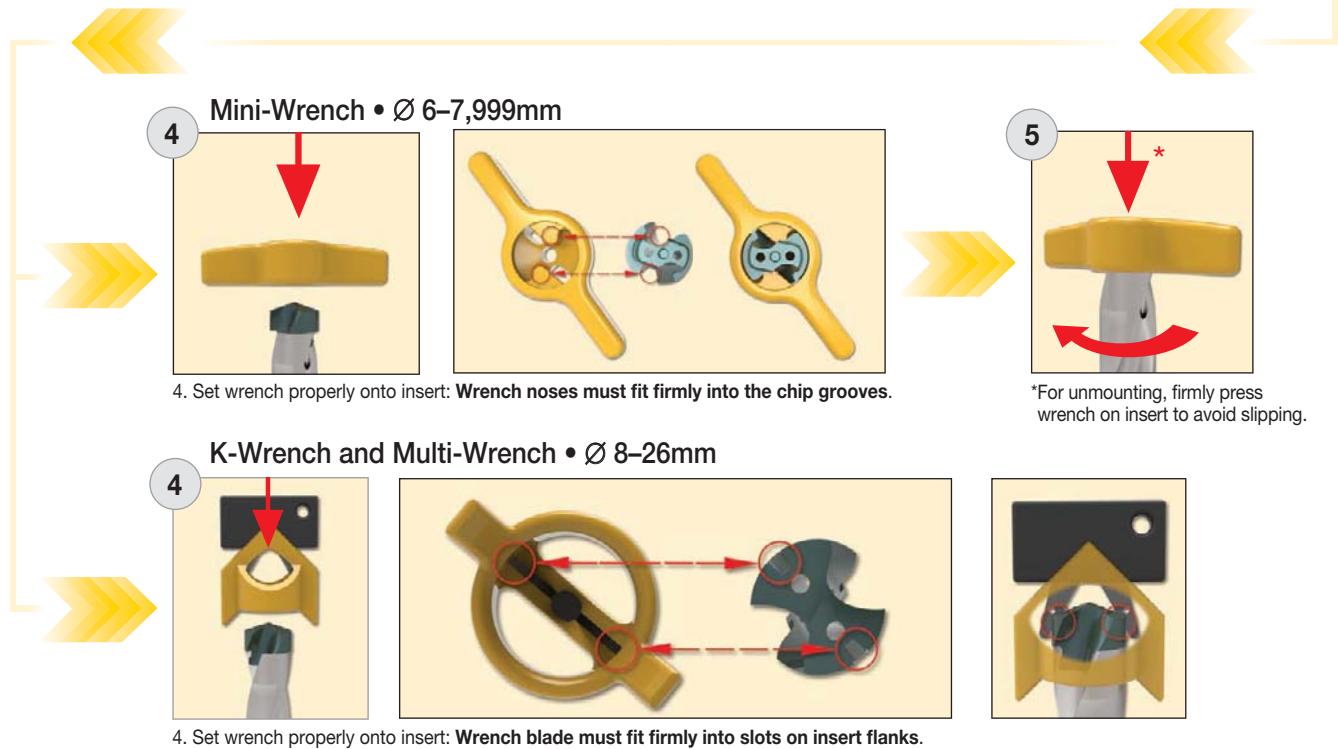
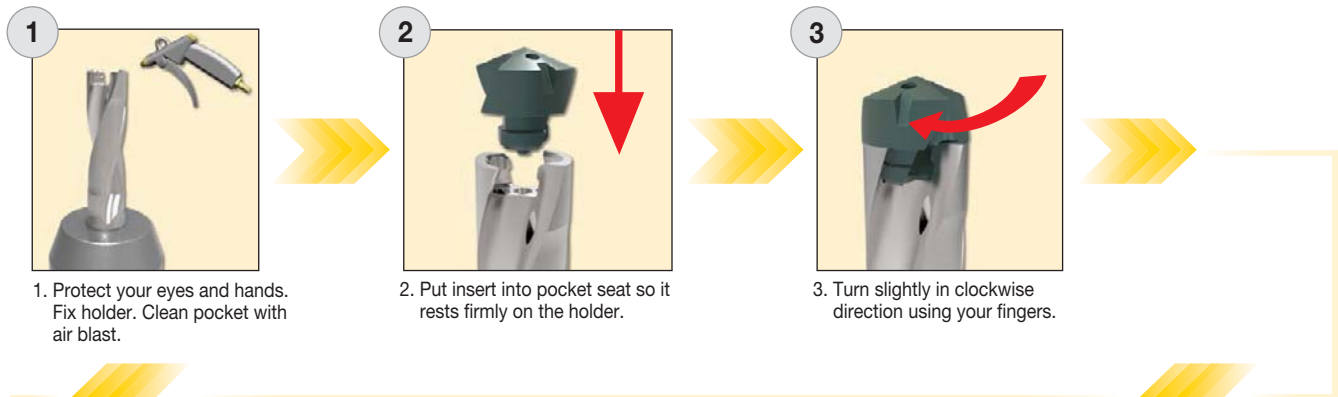
L5: Protruding length (Insert specific. See related insert pages)

LATTH: Pocket seat reference length

LS: Shank length



Mounting



Available Smart Wrenches

Mini-Wrench

Wrench noses must fit into the chip grooves.



K-Wrench

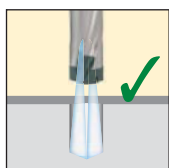
Wrench blades must fit into insert slots.



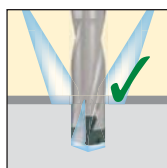
Multi-Wrench



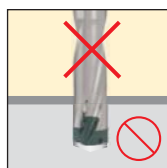
Coolant



Internal coolant is recommended for all applications.



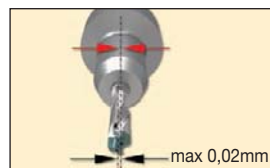
Flood coolant only for drilling depth $\leq 3 \times D$.



Dry cutting is not recommended. MQL ability is limited.

Core Deviation

Machining Center



Stationary Drill/Lathe

