



MASTER CATALOG 2018

VOLUME TWO | **ROTATING TOOLS**



HOLEMAKING | TAPPING | SOLID END MILLING | INDEXABLE MILLING

➤ ModBORE™

One system includes highly flexible roughing and fine-boring heads to large bridge tooling with optimum amount of tooling components.

Primary Application

This premium boring line enables roughing to fine-boring operations using one system with a large diameter range from 9,75–2,205mm (.384–86.8"). The ModBORE system can be used in most workpiece materials in metalcutting applications along with the latest Kennametal standard ISO turning inserts.

Features and Benefits

Complete System

- Twin blade heads for roughing to semi-finishing operations starting from diameter 23,5mm (.925").
- Fine-boring heads for finishing in diameters 9,75–2,205mm (.384–86.8").
- Bridge tooling for large diameters up to 2,205mm (86.8") standard with both roughing and fine-finishing heads.
- Through-coolant capability in all styles.

Resolution

- Fine adjustable roughing heads.
- 0,01mm (.0004") diameter adjustment respective 2 µm (.00008") with easy-to-read large vernier scale with fine-boring heads.

Highest versatility possible on the shop floor with the ModBORE™ roughing and fine boring systems.



Product Variety

- KM™ shanks for use in all spindles with compatible adapters.
- HSK shanks for use without adapters.
- Inch shanks are most economical to use with compatible adapters.



Customization

- Engineered solutions available.
- Anti-chatter devices available.
- Cartridges can be designed into standard boring heads for added versatility.

➤ ModBORE™ Fine-Boring System

Based on KM™, HSK, and inch SSF couplings, match all spindle specifications direct or indirect via adapters. The ModBORE fine-boring system uses standard ISO/ANSI turning inserts for maximum performance and flexibility.

RBHT • Twin Cutters for Rough and Semi-Finish Boring

- Diameters 23.5–153mm (.925–6.024").
- KM, HSK, and inch straight shank back end versions available.
- Preloaded serration and ground support face for stable connection, minimal vibration, and maximum accuracy, with easy diameter adjustment.
- Large selection of blades sets:
 - Staggered — efficient machining of large depths of cut.
 - 70° — for challenging applications requiring stable corner radii and full use of inserts.
 - 90° — most precise machining results.
- Generous clearance and through coolant enable free chip flow and improved tool life.
- All toolholders accept positive standard inserts. Toolholders in diameter 65.5mm (2.58") and greater for negative standard inserts.



FBHM • Offset Boring Bar and Cartridge Heads for Fine Finishing

- Diameters 9.75–320mm (.384–12.59").
- KM-TS™, HSK, CV, DV, and BT steep taper back end styles available.
- Precision-ground micrometric screw enables fine adjustment of 2 µm (.00008").
Large TiN-coated dial is easy to adjust and read.
- Standard steel and carbide boring bars adjust in length for maximum stability.
- Aluminum diameter extender with insert cartridges and counterweight used for diameters starting at 3.38" (86mm) for maximum flexibility.
- Through coolant at the cutting edge improves tool life, surface finish, and chip evacuation.



FBHO • Offset Boring Bar Heads for Fine Finishing

- Diameters 9.75–88.1mm (.384–3.46").
- KM™, HSK, and inch straight shank back end styles available.
- Precision-ground micrometric screw enables fine adjustment of 2 µm (.00008") via easy-to-read vernier scale.
- Standard steel and carbide boring bars can be adjusted in length for maximum stability.
- Through coolant at the cutting edge improves tool life, surface finish, and chip evacuation.



FBHS • Cartridge Boring Heads for Fine Finishing

- Diameters 23.5–153mm (.925–6.024").
- KM, HSK, and inch straight shank back end styles available.
- Precision-ground micrometric screw enables fine adjustment of 2 µm (.00008") via easy-to-read vernier scale.
- Large selection of insert holders:
 - 95° — for use with wiper turning inserts.
 - 90° regular diameter — for efficient machining in large depths of cut.
 - 90° oversized diameter — for enhanced boring head diameter capabilities.
- Generous clearance and through coolant at the cutting edge improve tool life, surface finish, and chip evacuation.

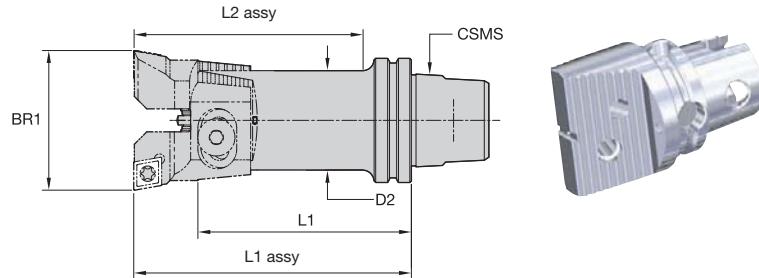
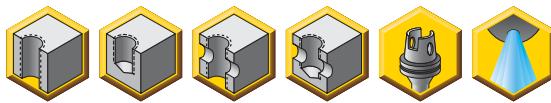


BT • Bridge Tools for Rough and Finish Boring

- Diameters 150–2,205mm (5.91–86.81").
- Sophisticated ground serration and T-style bolt clamping provide high cutting forces, and prevent diameter changes when heads are clamped.
- Only 10 bridge consoles are needed for diameters up to 655mm (25.7").
- KM, HSK, and some steep taper adapters with ground serration available as standard. Through coolant at the cutting edge improves tool life and surface finish.
- Diameters 650–2,205mm (25.5–86.81") covered by three aluminum-based consoles and two sets of steel slides for mounting rough and finish boring heads.
- 90° roughing head sets ensure precise height alignment, and negative standard inserts enable high metal removal rates.
- Counterweight for better balancing and fine-boring head with precision-ground micrometric screw for adjustments of 2 µm (.00008").



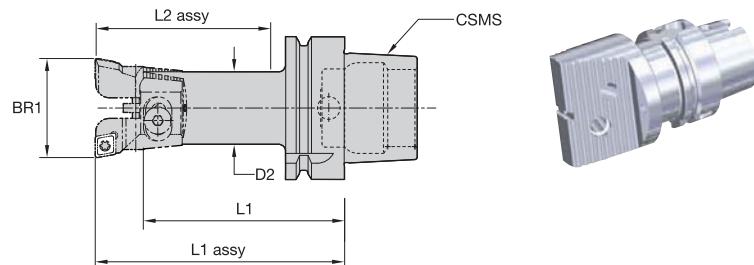
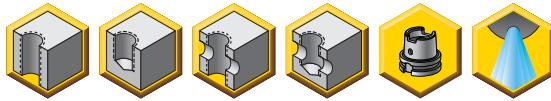
- Order blade sets separately; see page K124–K126.



■ RBHT • KM™ Rough-Boring Twin Cutters

order number	catalog number	BR1 bore range		CSMS system size		D2	L1	L1 assy	L2 assy	blade screw	washer	pin
		mm	in	mm	in	mm	in	mm	in			
3586519	KM32RBHT24	23.500-30.500	0.9252-1.2008	KM32	20,0	.79	75,4	2.97	90,0	3.54	76,0	2.99
3586520	KM32RBHT30	29.500-40.000	1.1614-1.5748	KM32	25,0	.98	83,8	3.30	100,0	3.94	86,0	3.39
3586521	KM40RBHT40	39.500-50.500	1.5551-1.9882	KM40	32,0	1.26	68,8	2.71	90,0	3.54	74,0	2.91
3586522	KM50RBHT50	49.500-66.500	1.9488-2.6181	KM50	42,0	1.65	62,2	2.45	90,0	3.54	70,0	2.76
3586543	KM50RBHT66	65.500-87.500	2.5787-3.4449	KM50	55,0	2.17	63,0	2.48	100,0	3.94	100,0	3.94
3586544	KM50RBHT87	86.500-115.500	3.4055-4.5472	KM50	72,0	2.83	70,5	2.78	120,0	4.72	120,0	4.72
3586545	KM63UTRBHT87	86.500-115.500	3.4055-4.5472	KM63UT	72,0	2.83	70,5	2.78	120,0	4.72	120,0	4.72
3586546	KM63UTRBHT115	114.500-153.000	4.5079-6.0236	KM63UT	94,0	3.70	83,2	3.28	150,0	5.91	150,0	5.91

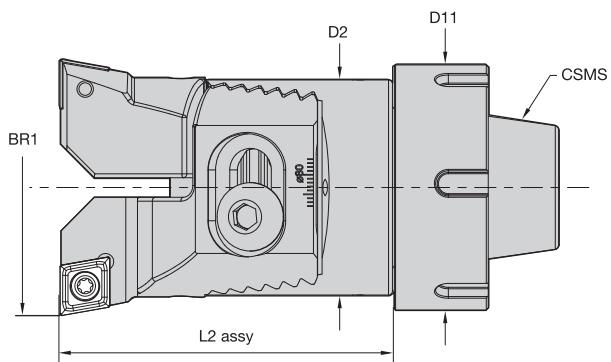
- Order blade sets separately; see page K124–K126.



■ RBHT • HSK Rough-Boring Twin Cutters

order number	catalog number	BR1 bore range		CSMS system size		D2	L1	L1 assy	L2 assy	blade screw	washer	pin
		mm	in	mm	in	mm	in	mm	in			
3586547	HSK63RBHT24	23.500-30.500	0.9252-1.2008	HSK63A	20,0	.79	75,4	2.97	90,0	3.54	64,1	2.52
3586548	HSK63RBHT30	29.500-40.000	1.1614-1.5748	HSK63A	25,0	.98	88,8	3.50	105,0	4.13	79,1	3.11
3586549	HSK63RBHT40	39.500-50.500	1.5551-1.9882	HSK63A	32,0	1.26	92,2	3.63	110,0	4.33	84,1	3.31
3586550	HSK63RBHT50	49.500-66.500	1.9488-2.6181	HSK63A	42,0	1.65	92,2	3.63	120,0	4.72	94,1	3.70
3586551	HSK63RBHT66	65.500-87.500	2.5787-3.4449	HSK63A	55,0	2.17	95,5	3.76	125,0	4.92	125,0	4.92
3586563	HSK63RBHT87	86.500-115.500	3.4055-4.5472	HSK63A	72,0	2.83	95,5	3.76	145,0	5.71	145,0	5.71

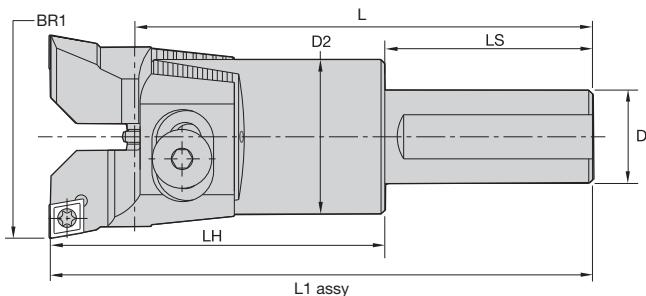
- Order blade sets separately; see page K124–K126.



■ RBHT • ER Rough-Boring Twin Cutters

order number	catalog number	BR1 bore range		CSMS system size	D11	D2	L2 assy	blade screw	washer	pin
		mm	in							
5544148	ER25RBHT40	39,500-50,500	1.5550-1.9880	ER25	39,0	1.5	32,0	1.26	65,5	2.58
5544190	ER32RBHT50	49,500-66,500	1.9480-2.6180	ER32	49,5	1.9	42,0	1.65	75,5	2.97
5544192	ER40RBHT66	65,500-87,500	2.5780-3.4440	ER40	62,7	2.5	55,0	2.17	85,5	3.37

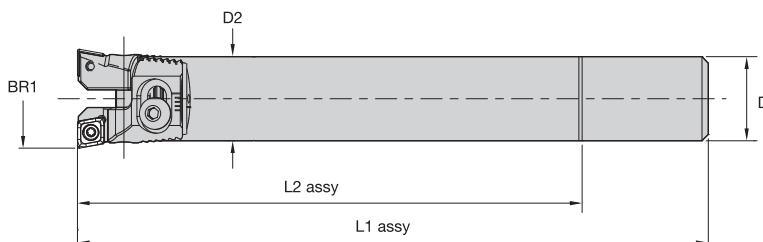
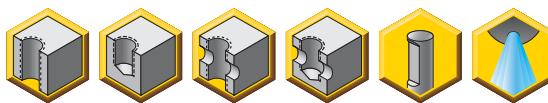
- Order blade sets separately; see page K124–K126.



■ RBHT • Steel Straight Shank Rough Boring Twin Cutters

order number	catalog number	BR1 bore range		D	D2	L	LH	L1 assy	LS	blade screw	washer	pin			
		mm	in												
3586564	SF075RBHT24	23,500-30,500	0.9252-1.2008	19,1	.75	20,0	.79	135,4	5.33	27,8	1.09	150,0	5.91	107,6	4.24
3586565	SF100RBHT30	29,500-40,000	1.1614-1.5748	25,4	1.00	25,0	.98	153,8	6.06	30,6	1.20	170,0	6.69	123,2	1.85
3586566	SF125RBHT40	39,500-50,500	1.5551-1.9882	31,8	1.25	32,0	1.26	168,8	6.65	31,3	1.23	190,0	7.48	137,5	5.41
3586567	SF100RBHT50	49,500-66,500	1.9488-2.6181	25,4	1.00	42,0	1.65	118,1	4.65	62,2	2.45	145,9	5.74	55,9	2.20
3586569	SF125RBHT66	65,500-87,500	2.5787-3.4449	31,8	1.25	55,0	2.17	123,7	4.87	63,0	2.48	160,7	6.33	60,7	2.39
3586570	SF150RBHT87	86,500-115,500	3.4055-4.5472	38,1	1.50	72,0	2.83	142,1	5.59	70,5	2.78	191,6	7.54	71,6	2.82
3586571	SF200RBHT115	114,500-153,000	4.5079-6.0236	50,8	2.00	94,0	3.70	169,1	6.66	82,6	3.25	235,9	9.29	86,5	3.41

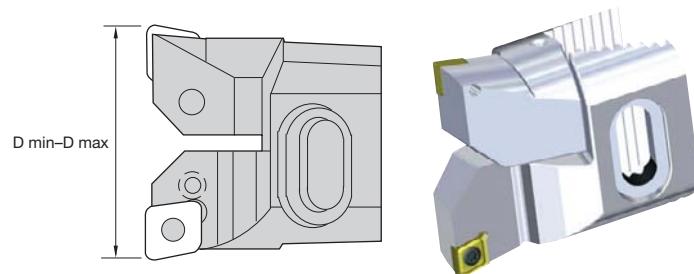
- Order blade sets separately; see page K124–K126.



RBHT • Straight Shank Rough-Boring Twin Cutters • Metric

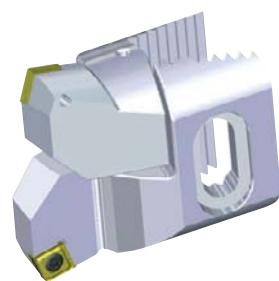
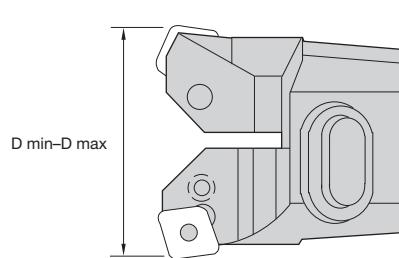
Hole Finishing

order number	catalog number	BR1 bore range		D		D2		L1 assy		L2 assy		blade screw	washer	pin
		mm	in	mm	in	mm	in	mm	in	mm	in			
5544143	SS20RBHT24	23,500-30,500	0.9250-1.2000	20,0	.79	20,0	.79	150,0	5.10	120,0	4.72	840.142.200	841.142.200	841.342.200
5544145	SS25RBHT30	29,500-40,000	1.1610-1.5740	25,0	.98	25,0	.98	170,0	6.69	140,0	5.51	840.142.250	841.142.250	841.342.200



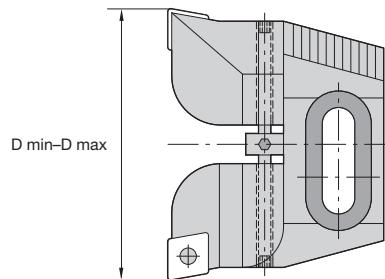
90° Lead Blade Sets

order number	catalog number	D min D max				gage insert	adjusting screw	insert screw	shim	shim pin	toggle lever	Torx wrench	Torx size
		mm	in	mm	in								
3556346	MB24RBHT06F	23,50	.925	30,50	1.201	CC..0602..//CC..215..	848.200.407	843.006.000	—	—	—	FT7	T7
3556347	MB30RBHT06F	29,50	1.161	40,10	1.579	CC..0602..//CC..215..	848.250.409	843.006.000	—	—	—	FT7	T7
3556348	MB40RBHT09F	39,50	1.555	50,50	1.988	CC..09T3..//CC..325..	848.320.413	843.009.000	—	—	—	FT15	T15
3556349	MB50RBHT09F	49,50	1.949	66,50	2.618	CC..09T3..//CC..325..	848.420.614	843.009.000	—	—	—	FT15	T15
3556350	MB66RBHT12F	65,50	2.579	87,50	3.445	CC..1204..//CC..43..	848.550.620	843.012.000	—	—	—	FT20	T20
3556352	MB66RBHT12LF	65,50	2.579	87,50	3.445	CN..1204..//CN..43..	847.012.000	—	845.012.000	844.012.000	846.012.000	—	—
3556393	MB87RBHT12F	86,50	3.406	115,50	4.547	CC..1204..//CC..43..	848.720.000	843.012.000	—	—	—	FT20	T20
3556394	MB87RBHT16LF	86,50	3.406	115,50	4.547	CN..1606..//CN..54..	847.016.000	—	845.016.000	844.016.000	846.016.000	—	—
3556395	MB115RBHT12F	114,50	4.508	153,00	6.024	CC..1204..//CC..43..	848.940.640	843.012.000	—	—	—	FT20	T20
3556396	MB115RBHT16LF	114,50	4.508	153,00	6.024	CN..1606..//CN..54..	847.016.000	—	845.016.000	844.016.000	846.016.000	—	—



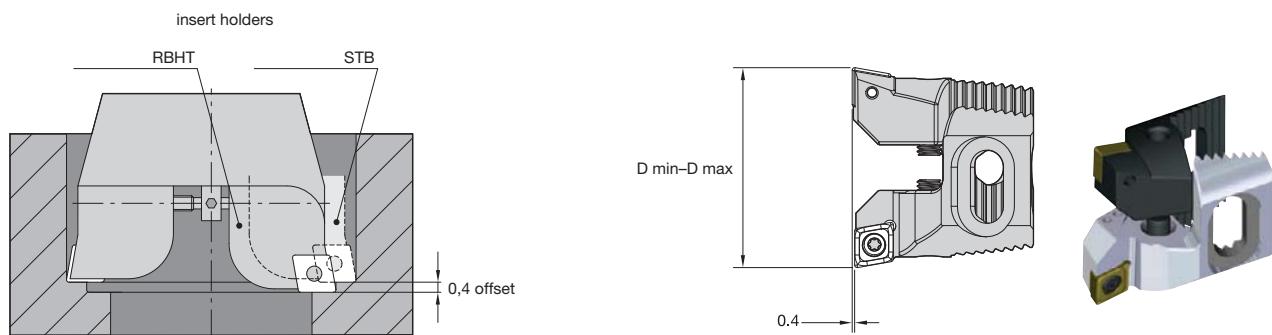
■ 70° Lead Blade Sets

order number	catalog number	D min		D max		gage insert	adjusting screw	insert screw	shim	shim pin	toggle lever	Torx wrench	Torx size	hex size
		mm	in	mm	in									
3556397	MB24RBHT06K	23,50	.925	30,50	1.201	CC..0602./.CC..215..	848.200.407	843.006.000	—	—	—	FT7	T7	—
3556398	MB30RBHT06K	29,50	1.161	40,10	1.579	CC..0602./.CC..215..	848.250.409	843.006.000	—	—	—	FT7	T7	—
3556399	MB40RBHT09K	39,50	1.555	50,50	1.988	CC..09T3./.CC..325..	848.320.413	843.009.000	—	—	—	FT15	T15	—
3556400	MB50RBHT09K	49,50	1.949	66,50	2.618	CC..09T3./.CC..325..	848.420.614	843.009.000	—	—	—	FT15	T15	—
3556401	MB66RBHT12K	65,50	2.579	87,50	3.445	CC..1204./.CC..43..	848.550.620	843.012.000	—	—	—	FT20	T20	—
3556402	MB66RBHT12LK	65,50	2.579	87,50	3.445	CN..1204./.CN..43..	847.012.000	—	845.012.000	844.012.000	846.012.000	—	—	3 mm
3556403	MB87RBHT12K	86,50	3.406	115,50	4.547	CC..1204./.CC..43..	848.720.000	843.012.000	—	—	—	FT20	T20	—
3556404	MB87RBHT16LK	86,50	3.406	115,50	4.547	CN..1606./.CN..54..	847.016.000	—	845.016.000	844.016.000	846.016.000	—	—	3 mm
3556405	MB115RBHT16LK	114,50	4.508	153,00	6.024	CN..1606./.CN..54..	847.016.000	—	845.016.000	844.016.000	846.016.000	—	—	3 mm



■ 90° Lead Simultaneous Adjusting Blade Sets

order number	catalog number	D min		D max		gage insert	adjusting screw	insert screw	simultaneous adj spindle	shim	shim pin	toggle lever	Torx wrench	Torx size	hex size
		mm	in	mm	in										
2652965	SYB24RBHT06F	23,50	.925	30,50	1.201	CC..0602./.CC..215..	848.200.407	843.006.000	848.200.005	—	—	—	—	—	—
2652967	SYB30RBHT06F	29,50	1.161	40,10	1.579	CC..0602./.CC..215..	848.250.409	843.006.000	848.250.005	—	—	—	—	—	—
2652968	SYB40RBHT09F	39,50	1.555	50,50	1.988	CC..09T3./.	848.320.413	843.009.000	848.320.005	—	—	—	—	—	—
2652969	SYB50RBHT09F	49,50	1.949	66,50	2.618	CC..09T3./.	848.420.614	843.009.000	848.420.005	—	—	—	—	—	—
2652970	SYB66RBHT12F	65,50	2.579	87,50	3.445	CC..1204./.CC..43..	—	843.012.000	848.550.005	—	—	—	—	—	—
2652971	SYB66RBHT12LF	65,50	2.579	87,50	3.445	CN..1204./.CN..43..	—	848.550.620	848.550.005	845.012.000	844.012.000	846.012.000	—	—	—
2652972	SYB87RBHT12F	86,50	3.406	115,50	4.547	CC..1204./.CC..43..	—	843.012.000	848.720.005	—	—	—	—	—	—
2652983	SYB87RBHT16LF	86,50	3.406	115,50	4.547	CNMG543	847.016.000	—	848.720.005	845.016.000	844.016.000	846.016.000	—	—	—
2652984	SYB115RBHT16LF	114,50	4.508	153,00	6.024	CNMG543	847.016.000	—	848.720.005	845.016.000	844.016.000	846.016.000	—	—	—



■ 90° Lead Split Depth of Cut Blades

order number	catalog number	D min		D max		gage insert	adjusting screw	insert screw	shim	shim pin	toggle lever
		mm	in	mm	in						
4063996	SDB24RBHT06F	23,50	.925	30,50	1.201	CC..0602..//CC..215..	848.200.407	843.006.000	—	—	—
4063997	SDB30RBHT06F	29,50	1.161	40,10	1.579	CC..0602..//CC..215..	848.250.409	843.006.000	—	—	—
4063998	SDB40RBHT09F	39,50	1.555	50,50	1.988	CC..09T3..//CC..325..	848.320.413	843.009.000	—	—	—
4063999	SDB50RBHT09F	49,50	1.949	66,50	2.618	CC..09T3..//CC..325..	848.420.614	843.009.000	—	—	—
4064000	SDB66RBHT12F	65,50	2.579	87,50	3.445	CC..1204..//CC..43..	848.550.620	843.012.000	—	—	—
4064001	SDB66RBHT12LF	65,50	2.579	87,50	3.445	CN..1204..//CN..43..	847.012.000	—	845.012.000	844.012.000	846.012.000
4064002	SDB87RBHT12F	86,50	3.406	115,50	4.547	CC..1204..//CC..43..	848.720.000	843.012.000	—	—	—
4064203	SDB87RBHT16LF	86,50	3.406	115,50	4.547	CN..1606..//CN..54..	847.016.000	—	845.016.000	844.016.000	846.016.000
4064204	SDB115RBHT16LF	114,50	4.508	153,00	6.024	CN..1606..//CN..54..	847.016.000	—	845.016.000	844.016.000	846.016.000
4064205	SDB115RBHT12F	114,50	4.508	153,00	6.024	CC..1204..//CC..43..	848.940.640	843.012.000	—	—	—

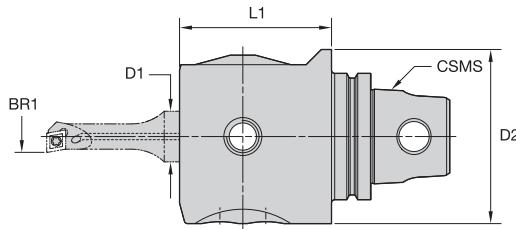
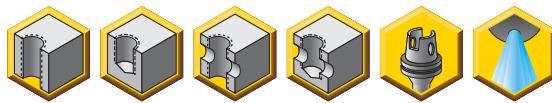
■ FBHM • Fine-Boring Kits

order number	catalog number	range	contents
		mm in	
4057101	KM50TSFBHMKIT164M	9,75-164,0 .383-6.456	KM50TSFBHM1677 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09 HSK63FBHM1696 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09
4057098	HSK63FBHMKIT164M	9,75-164,0 .383-6.456	AFM29115 AFM47115 EBM8015086 AFM29SCFPR06 AFM47SCFPR09
4057099	DV40FBHMKIT164M	9,75-164,0 .383-6.456	DV40FBHM1691 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09 BT40FBHM1691 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09
4057100	BT40FBHMKIT164M	9,75-164,0 .383-6.456	AFM29115 AFM47115 EBM8015086 AFM29SCFPR06 AFM47SCFPR09
4167882	CV40FBHMKIT645	9,75-164,0 .383-6.456	CV40FBHM1691 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09 AFM29115 AFM47115 EBM8015086 AFM29SCFPR06 AFM47SCFPR09

NOTE: Counterweight 886038045 is not part of the kits and needs to be ordered separately.



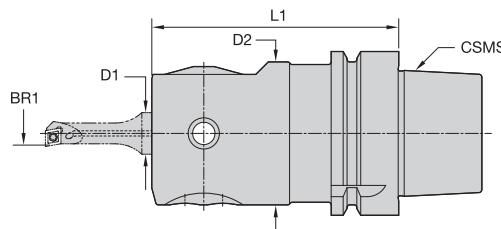
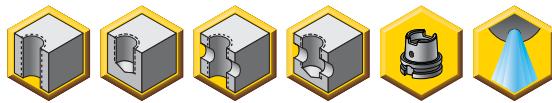
- Order boring bars separately for required diameter; see page K134–K135.
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.



FBHO • KM™ Offset Boring Head

order number	catalog number	BR1 bore range		CSMS system size	D1 mm	D1 in	D2 mm	D2 in	L1 mm	L1 in	ModBORE FBHO parts package
		mm	in								
1131111	KM40FBHO1660	9.750-53.100	0.3840-2.0910	KM40	16	.63	55,0	2.17	60,0	2.36	PKG7001
1132036	KM50FBHO1670	9.750-53.100	0.3840-2.0910	KM50	16	.63	55,0	2.17	70,0	2.76	PKG7001

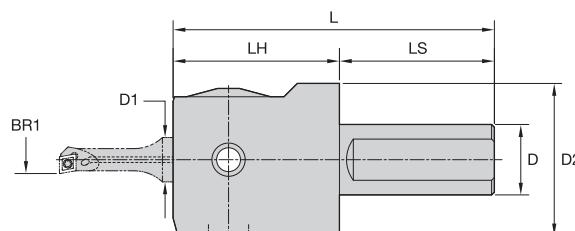
- Order boring bars separately for required diameter; see page K134–K135.
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.



FBHO • HSK Boring Head

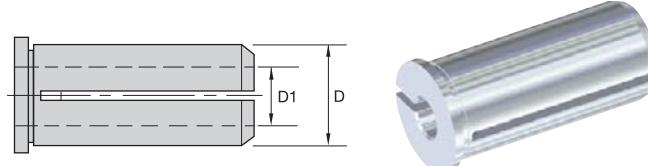
order number	catalog number	BR1 bore range		CSMS system size	D1 mm	D1 in	D2 mm	D2 in	L1 mm	L1 in	ModBORE FBHO parts package
		mm	in								
2651037	HSK63FBHO1695	9.750-53.100	0.3840-2.0910	HSK63A	16	.63	55,0	2.17	95,0	3.74	PKG7001

- Order boring bars separately for required diameter; see page K134–K135.



■ FBHO • Straight Shank Boring Head

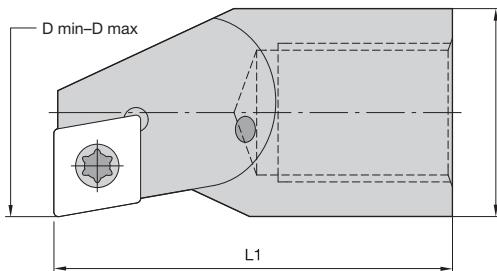
order number	catalog number	BR1 bore range		D	D1	D2	L	LH	LS
		mm	in						
3077141	SF100FBHO1660	3.000-88.100	0.1810-3.4685	25	1.000	16	.63	55,0	2.17
3077140	SF150FBHO1660	3.000-88.100	0.1811-3.4685	38	1.500	16	.63	55,0	2.17
				115,9	4.56	60,0	2.36	55,9	2.20
				131,6	5.18	60,0	2.36	71,6	2.82



■ RS Series Sleeves • Metric I.D.

order number	catalog number	D	D1
2651042	RS1605	16	5
1125092	RS1606	16	6
1133914	RS1608	16	8
1135642	RS1610	16	10
1135662	RS1612	16	12

- Match boring head diameter to carbide bar diameter.
- Order inserts separately.

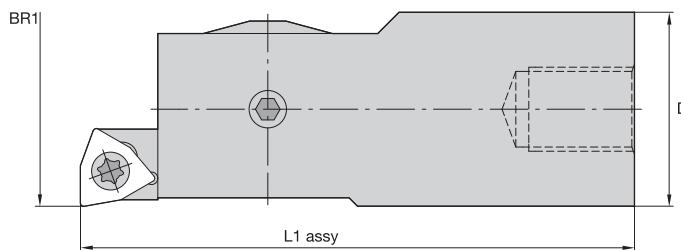


■ Fixed Pocket Boring Head

Hole Finishing

order number	catalog number	D min		D max		D		L1		gage insert	insert screw	Torr size
		mm	in	mm	in	mm	in	mm	in			
2651168	HFB1023SCFPR06	10,75	.423	16,10	.634	10	.39	23	0.91	CC..0602..//CC..215..	PKG0011	T7
2651169	HFB1223SCFPR06	12,75	.502	18,10	.713	12	.47	23	0.91	CC..0602..//CC..215..	PKG0011	T7
2651170	HFB1627SCFPR06	16,75	.659	22,10	.870	16	.63	27	1.06	CC..0602..//CC..215..	PKG0011	T7
2651171	HFB2127SCFPR06	21,75	.856	27,10	1.067	16	.63	27	1.06	CC..0602..//CC..215..	PKG0011	T7
2651172	HFB2427SCFPR06	24,75	.974	30,10	1.185	16	.63	27	1.06	CC..0602..//CC..215..	PKG0011	T7
2651173	HFB2727SCFPR06	27,75	1.093	33,10	1.303	16	.63	27	1.06	CC..0602..//CC..215..	PKG0011	T7
2651174	HFB3127SCFPR06	31,75	1.250	37,10	1.461	16	.63	27	1.06	CC..0602..//CC..215..	PKG0011	T7
2651175	HFB3427SCFPR06	34,75	1.368	40,10	1.579	16	.63	27	1.06	CC..0602..//CC..215..	PKG0011	T7

- Match boring head diameter to carbide bar diameter.
- Order insert cartridge separately.



■ Fine Adjustable Screw On Boring Head for Carbide Bars

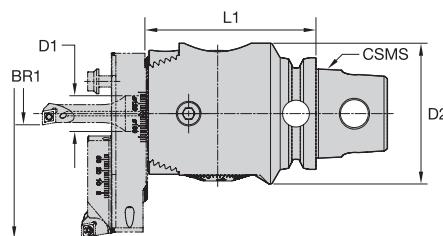
order number	catalog number	BR1 bore range		L1 assy		D		cartridge mounting screw
		mm	in	mm	in	mm	in	
2651176	HFB14FBHS1440	14.700-17.100	0.5787-0.6732	40,0	1.57	14	0.55	PKG1402
2651177	HFB16FBHS1640	16.700-20.100	0.6575-0.7913	40,0	1.57	16	0.63	PKG1602
2651178	HFB19FBHS1840	19.700-24.100	0.7756-0.9488	40,0	1.57	18	0.71	PKG1802

■ FBHM Fine-Boring Kits

order number	catalog number	range	contents
		mm in	
4057101	KM50TSFBHMKIT164M	9,75-164,0 .383-6.456	KM50TSFBHM1677 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09 HSK63FBHM1696 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09
4057098	HSK63FBHMKIT164M	9,75-164,0 .383-6.456	AFM29115 AFM47115 EBM8015086 AFM29SCFPR06 AFM47SCFPR09
4057099	DV40FBHMKIT164M	9,75-164,0 .383-6.456	DV40FBHM1691 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09 BT40FBHM1691 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09
4057100	BT40FBHMKIT164M	9,75-164,0 .383-6.456	AFM29115 AFM47115 EBM8015086 AFM29SCFPR06 AFM47SCFPR09
4167882	CV40FBHMKIT645	9,75-164,0 .383-6.456	CV40FBHM1691 AFB09075SCFCR06 AFB13085SCFCR06 AFB17100SCFCR06 AFB21110SCFCR09 AFB24115SCFCR09



- Order boring bars, diameter extension bridge, and cartridges separately.
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.

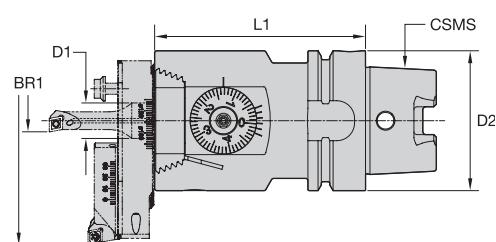
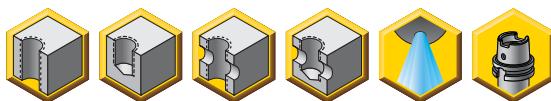


► FBHM • KM™ Boring Head

Hole Finishing

order number	catalog number	BR1 bore range		CSMS system size	D1 mm	D2 mm	L1 mm	ModBORE FBHS parts package	kg	lbs
		mm	in							
4057060	KM50TSFBHM1677	9,750-164,000	.3838-6.4566	KM50TS	16,0	.63	63,0	2.48	76,6	3.02
								PKG-8001	1,5	3.31

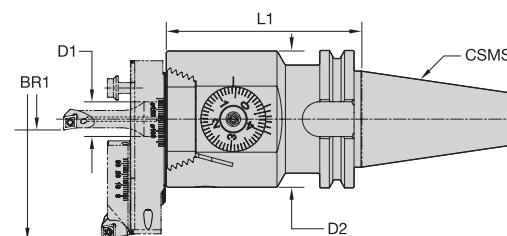
- Order boring bars, diameter extension bridge, and cartridges separately.
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.



► FBHM • HSK Boring Head

order number	catalog number	BR1 bore range		CSMS system size	D1 mm	D2 mm	L1 mm	ModBORE FBHS parts package	kg	lbs
		mm	in							
4057057	HSK63FBHM1696	9,750-164,000	.3838-6.4566	HSK63A	16,0	.63	63,0	2.48	95,0	3.74
								PKG-8001	2,0	4.30

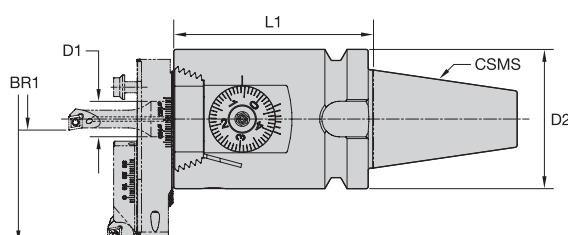
- Order boring bars, diameter extension bridge, and cartridges separately.
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.



■ FBHM • DV40 Boring Head

order number	catalog number	BR1 bore range		CSMS system size	D1 mm	D1 in	D2 mm	D2 in	L1 mm	L1 in	ModBORE FBHS parts package	kg	lbs
		mm	in										
4057058	DV40FBHM1691	9,750-154,000	.3838-6.0630	DV40	16,0	.63	63,0	2.48	90,0	3.54	PKG-8001	2,1	4.64

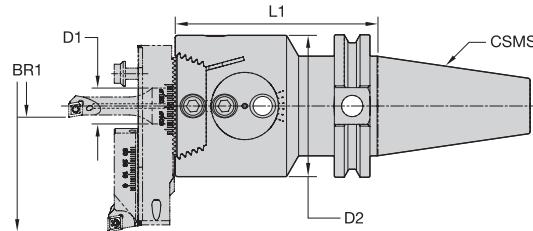
- Order boring bars, diameter extension bridge, and cartridges separately.
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.



■ FBHM • BT40 Boring Head

order number	catalog number	BR1 bore range		CSMS system size	D1 mm	D1 in	D2 mm	D2 in	L1 mm	L1 in	ModBORE FBHS parts package	kg	lbs
		mm	in										
4057059	BT40FBHM1691	9,750-164,000	.3838-6.4566	BT40	16,0	.63	63,0	2.48	90,0	3.54	PKG-8001	2,2	4.94

- Order boring bars, diameter extension bridge, and cartridges separately.
- .0004" (.01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.



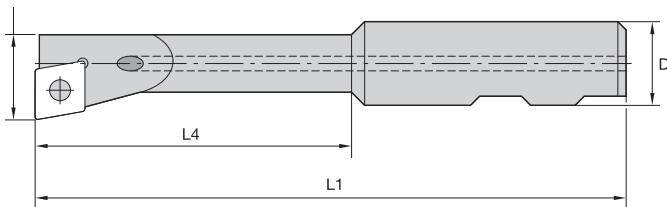
■ FBHM • CV40 Boring Head

order number	catalog number	BR1 bore range		CSMS system size	D1 mm	D1 in	D2 mm	D2 in	L1 mm	L1 in		ModBORE FBHS parts package	kg	lbs
		mm	in											
4167881	CV40FBHM1691	9,750-164,000	.3838-6.4566	CV40	16,0	.63	63,0	2.48	91,2	3.59		PKG-8001	2,1	4.52

- Order inserts separately.



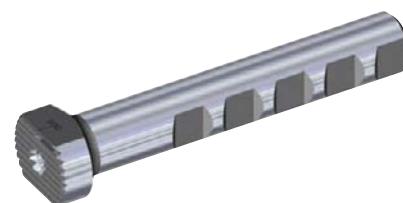
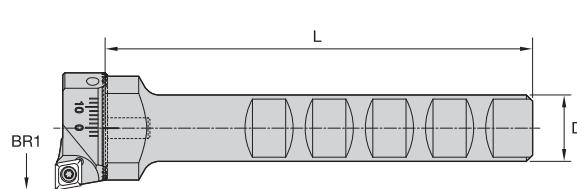
D min-D max



■ FBHO/FBHM • Universal Boring Bars

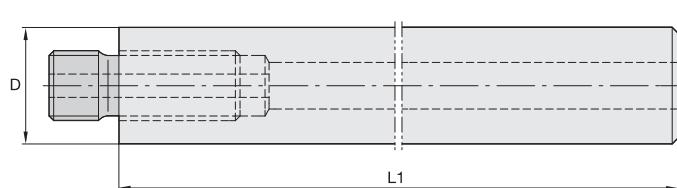
order number	catalog number	D min D max D L1 L4										gage insert	insert screw	Torx size
		mm	in	mm	in	mm	in	mm	in	mm	in			
1125110	AFB09075SCFCR06	9,75	.384	14,75	.581	16	.63	75,0	2.95	30,0	1.18	CC..0602./CC..215..	PKG2025	T7
1133883	AFB13085SCFCR06	13,75	.541	18,75	.738	16	.63	85,0	3.35	40,0	1.57	CC..0602./CC..215..	PKG2025	T7
1133894	AFB17100SCFCR06	17,75	.699	22,75	.896	16	.63	100,0	3.94	55,0	2.17	CC..0602./CC..215..	PKG2025	T7
1137835	AFB21110SCFCR09	21,75	.856	26,75	1.053	16	.63	110,0	4.33	60,0	2.36	CC..09T3./CC..325..	PKG3242	T15
1128324	AFB24115SCFCR09	24,75	.974	29,75	1.171	16	.63	115,0	4.53	65,0	2.56	CC..09T3./CC..325..	PKG3242	T15
1126838	AFB27115SCFCR09	27,75	1.093	32,75	1.289	16	.63	115,0	4.53	70,0	2.76	CC..09T3./CC..325..	PKG3242	T15
1120731	AFB31115SCFCR09	31,75	1.250	36,75	1.447	16	.63	115,0	4.53	70,0	2.76	CC..09T3./CC..325..	PKG3242	T15
1127271	AFB34115SCFCR09	34,75	1.368	39,75	1.565	16	.63	115,0	4.53	70,0	2.76	CC..09T3./CC..325..	PKG3242	T15
2651038	AFB38115SCFPR09	38,75	1.526	44,10	1.736	16	.63	115,0	4.53	85,0	3.35	CC..09T3./CC..325..	PKG3242	T15
2651039	AFB42115SCFPR09	42,75	1.683	48,10	1.894	16	.63	115,0	4.53	85,0	3.35	CC..09T3./CC..325..	PKG3242	T15
2651040	AFB47115SCFPR09	47,75	1.880	53,10	2.091	16	.63	115,0	4.53	85,0	3.35	CC..09T3./CC..325..	PKG3242	T15

- Order AFM insert cartridge separately.



■ FBHO/FBHM • AFM Boring Bars

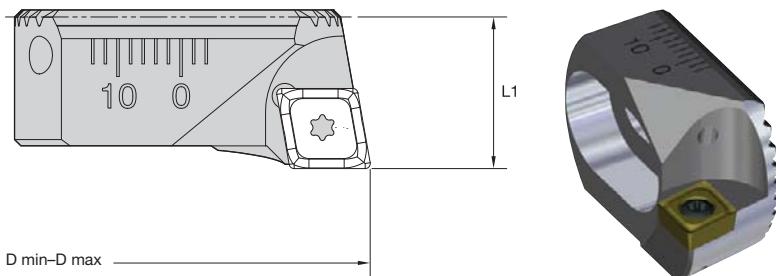
order number	catalog number	BR1 bore range		D		D2		L	
		mm	in	mm	in	mm	in	mm	in
4057061	AFM29115	29.750-48.100	1.1712-1.8940	16,0	.63	25,0	.98	103,000	4.06
4057062	AFM47115	47.750-88.100	1.8800-3.4680	16,0	.63	44,0	1.73	101,580	4.00



■ Carbide Shanks for Screw-On Boring Heads

order number	catalog number	D		L1	
		mm	in	mm	in
2651163	CFB10082	10	.39	82	3.23
2651164	CFB12096	12	.47	96	3.78
2651165	CFB14110	14	.55	110	4.33
2651166	CFB16120	16	.63	120	4.72
2651167	CFB18140	18	.71	140	5.51

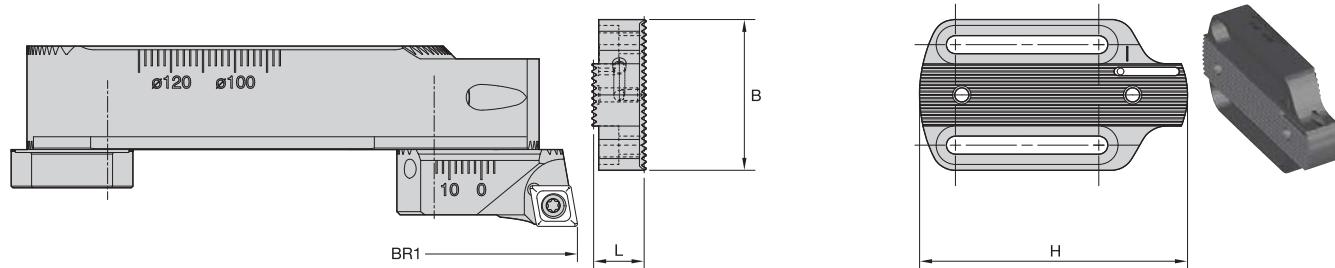
- For use with AFM boring bars.
- Order inserts separately.



■ AFM • Insert Cartridges

order number	catalog number	D min		D max		L1		gage insert	ModBORE parts package	insert screw ID drive size
		mm	in	mm	in	mm	in			
4057093	AFM29SCFPR06	29,75	1.171	48,10	1.894	12,0	.472	CC..0602../CC..2151..	PKG2025	T7
4057094	AFM47SCFPR09	47,75	1.880	88,10	3.469	14,0	.551	CC..09T3../CC..3252..	PKG3242	T15

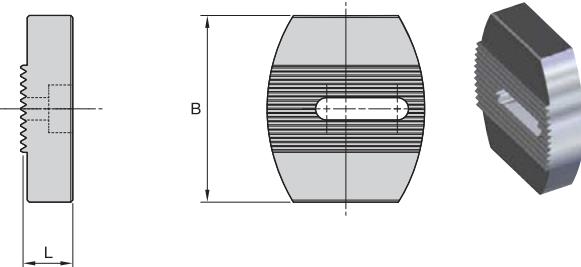
- For use with FBHM insert holders and FBHM counterweight.
- Order AFM47SCFPR09 insert cartridge separately to achieve diameter range.



■ FBHM • Extension Bridge

order number	catalog number	BR1 bore range		B	H	L
		mm	in			
4057095	EBM8015086	86.000-164.000	3.3900-6.4600	45,0	1.77	80,0
4168063	EBM1580160162	162.000-320.000	6.3778-12.5984	45,0	1.77	158,0

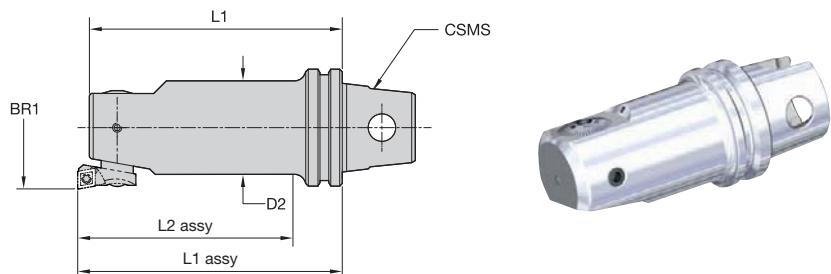
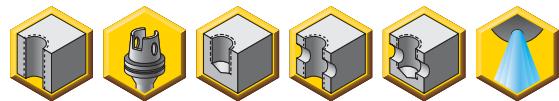
- For use with FBHM extension bridge.



■ FBHM • Counterweight

order number	catalog number	B		L
		mm	in	
4057096	886038045	45	1.77	12
				.47

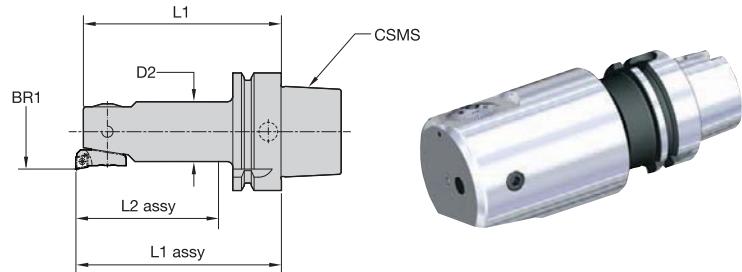
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.
- Internal coolant directed to indexable insert.
- Order insert cartridges separately for required bore range; see page K140.



■ FBHS • KM™ Fine-Boring Single Cutters

order number	catalog number	BR1 bore range		CSMS system size	D2	L1	L1 assy	L2 assy	cartridge mounting screw		lock screw	
		mm	in						880.252.200	881.252.200	880.252.250	881.252.250
3586572	KM32FBHS24	23,900-37,100	0.9409-1.4606	KM32	20,0	.79	86,0	3.39	90,0	3.54	76,1	2.99
3586573	KM32FBHS31	30,900-47,100	1.2165-1.8543	KM32	25,0	.98	96,0	3.78	100,0	3.94	86,1	3.39
3586574	KM40FBHS40	39,900-59,100	1.5709-2.3268	KM40	32,0	1.26	86,0	3.39	90,0	3.54	74,0	2.92
3586575	KM50FBHS51	50,900-81,100	2.0039-3.1929	KM50	42,0	1.65	86,0	3.39	90,0	3.54	70,0	2.76
3586576	KM50FBHS67	66,900-105,100	2.6339-4.1378	KM50	55,0	2.17	96,0	3.78	100,0	3.94	100,0	3.94
3586577	KM50FBHS87	86,900-134,100	3.4213-5.2795	KM50	72,0	2.84	116,0	4.57	120,0	4.72	120,0	4.72
3586578	KM63UTFBHS87	86,900-134,100	3.4213-5.2795	KM63UT	72,0	2.84	116,0	4.57	120,0	4.72	120,0	4.72
3586579	KM63UTFBHS116	115,900-191,100	4.5630-7.5236	KM63UT	94,0	3.70	146,0	5.75	150,0	5.91	150,0	5.91

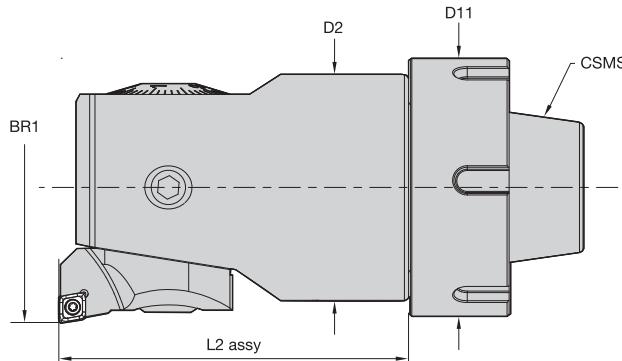
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.
- Internal coolant directed to indexable insert.
- Order insert cartridges separately for required bore range; see page K140.



■ FBHS • HSK Fine-Boring Single Cutters

order number	catalog number	BR1 bore range		CSMS system size	D2	L1	L1 assy	L2 assy	cartridge mounting screw		lock screw	
		mm	in						880.252.200	881.252.200	880.252.250	881.252.250
3586580	HSK63FBHS24	23,900-37,100	0.9409-1.4606	HSK63A	20,0	.79	86,0	3.39	90,0	3.54	61,1	2.40
3586581	HSK63FBHS31	30,900-47,100	1.2165-1.8543	HSK63A	25,0	.98	101,0	3.98	105,0	4.13	76,1	2.99
3586582	HSK63FBHS40	39,900-59,100	1.5709-2.3268	HSK63A	32,0	1.26	106,0	4.17	110,0	4.33	81,1	3.19
3586583	HSK63FBHS51	50,900-81,100	2.0039-3.1929	HSK63A	42,0	1.65	116,0	4.57	120,0	4.72	91,1	3.58
3586584	HSK63FBHS67	66,900-105,100	2.6339-4.1378	HSK63A	55,0	2.17	121,0	4.76	125,0	4.92	99,1	3.90
3586585	HSK63FBHS87	86,900-134,100	3.4213-5.2795	HSK63A	72,0	2.84	141,0	5.55	145,0	5.71	145,0	5.71

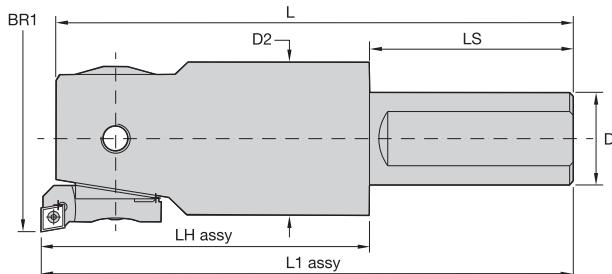
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.
- Internal coolant directed to indexable insert.
- Order insert cartridges separately for required bore range; see page K140.



■ FBHS • ER Fine-Boring Single Cutters

order number	catalog number	BR1 bore range		CSMS system size	D11		D2		L2 assy		cartridge mounting screw	lock screw
		mm	in		mm	in	mm	in	mm	in		
5544149	ER25FBHS40	39,900-59,100	1.5700-2.3260	ER25	39,0	1.54	32,0	1.26	65,5	2.58	880.252.320	881.252.320
5544191	ER32FBHS51	50,900-81,100	2.0030-3.1920	ER32	49,5	1.95	42,0	1.65	75,5	2.97	880.252.420	881.252.420
5544193	ER40FBHS67	66,900-105,100	2.6330-4.1370	ER40	62,7	2.47	55,0	2.17	85,5	3.37	880.252.550	881.252.550

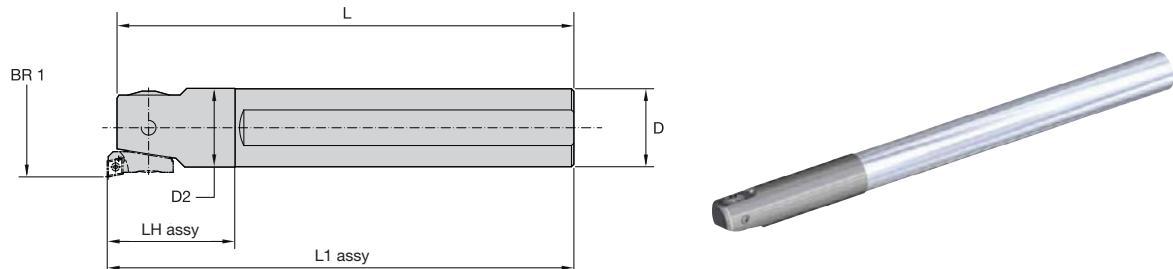
- .0004" (0.01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.
- Internal coolant directed to indexable insert.
- Order insert cartridges separately for required bore range; see page K140.



■ FBHS • Straight Shank Fine-Boring Single Cutters

order number	catalog number	BR1 bore range								cartridge mounting screw	lock screw
		mm	in	D	D2	L	LH assy	L1 assy	LS		
3586586	SF075FBHS24	23,900-37,100	0.9409-1.4606	.75	.79	5.75	1.65	5.91	4.2370	880.252.200	881.252.200
3586587	SF100FBHS31	30,900-47,100	1.2165-1.8543	1.00	.98	6.54	1.85	6.69	.8940	880.252.250	881.252.250
3586588	SF125FBHS40	39,900-59,100	1.5709-2.3268	1.25	1.26	7.32	2.05	7.48	5.4130	880.252.320	881.252.320
3586589	SF100FBHS51	50,900-81,100	2.0039-3.1929	1.00	1.65	5.59	3.54	5.74	2.2008	880.252.420	881.252.420
3586590	SF125FBHS67	66,900-105,100	2.6339-4.1378	1.25	2.17	6.17	3.94	6.33	2.3898	880.252.550	881.252.550
3586591	SF150FBHS87	86,900-134,100	3.4213-5.2795	1.50	2.84	7.39	4.72	7.54	2.8189	880.252.550	881.252.720
3586592	SF200FBHS116	115,900-191,100	4.5630-7.5236	2.00	3.70	9.13	5.91	9.29	3.3819	880.252.550	881.252.940

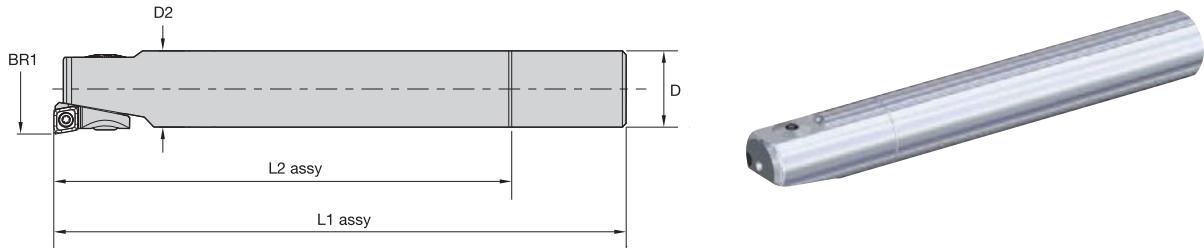
- 0.0004" (0,01mm) diameter adjustment respective 0.00008" (2 µm) with vernier scale.
- Order insert cartridges separately for required bore range, see page K140.



■ FBHS • Fine Boring Single Cutters • Carbide Straight Shank Series

order number	catalog number	BR1 bore range						cartridge mounting screw	lock screw
		mm	in	D	D2	L	LH assy		
3586593	SSE075FBHS24	23,900-37,100	0.9409-1.4606	.75	.79	9.69	3.15	9.84	880.252.200
3586594	SSE100FBHS31	30,900-47,100	1.2165-1.8543	1.00	.98	11.89	3.94	12.05	880.252.250
3586595	SSE125FBHS40	39,900-59,100	1.5709-2.3268	1.25	1.26	14.80	5.04	14.96	880.252.320
									881.252.200
									881.252.250
									881.252.320

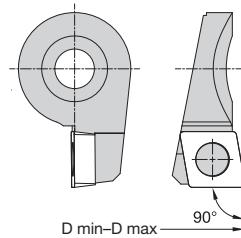
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.
- Internal coolant directed to indexable insert.
- Order insert cartridges separately for required bore range; see page K140.



■ FBHS • Straight Shank Fine-Boring Single Cutters • Metric

order number	catalog number	BR1 bore range				D	D2	L1 assy	L2 assy	cartridge mounting screw	lock screw
		mm	in	mm	in	mm	in	mm	in		
5544144	SS20FBHS24	23,900-37,100	0.9400-1.4600	20,0	.79	20,0	.79	150,0	5.10	120,0	4.72
5544146	SS25FBHS31	30,900-47,100	1.2160-1.8540	25,0	.98	25,0	.98	170,0	6.69	140,0	5.51
										880.252.200	881.252.200
										880.252.250	881.252.250

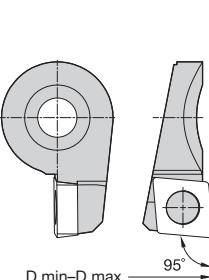
- Order inserts separately.



■ 90° Lead • Insert Holders for FBHS Fine-Boring Heads

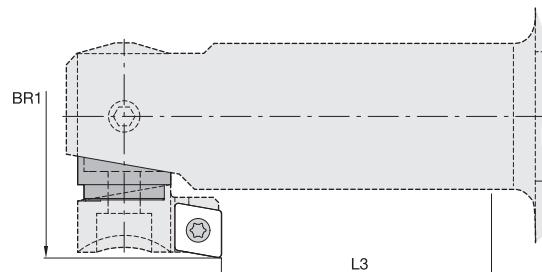
order number	catalog number	D min	D max	gage insert	Torx size	insert screw
1137487	R24FBHS06	23,9	31,1	CC..0602../CC..215..	T7	843.006.000
2649548	R30FBHS06	29,9	37,1	CC..0602../CC..215..	T7	843.006.000
1133669	R31FBHS06	30,9	40,1	CC..0602../CC..215..	T7	843.006.000
2649549	R38FBHS06	37,9	47,1	CC..0602../CC..215..	T7	843.006.000
1135369	R40FBHS06	39,9	51,1	CC..0602../CC..215..	T7	843.006.000
2649550	R48FBHS06	47,9	59,1	CC..0602../CC..215..	T7	843.006.000
1137479	R51FBHS06	50,9	67,1	CC..0602../CC..215..	T7	843.006.000
2649551	R65FBHS06	64,9	81,1	CC..0602../CC..215..	T7	843.006.000
1834274	R67FBHS06	66,9	153,1	CC..0602../CC..215..	T7	843.006.000
1137505	R67FBHS09	66,9	153,1	CC..09T3../CC..325..	T15	843.009.000
2649552	R85FBHS06	84,9	171,1	CC..0602../CC..215..	T7	843.006.000
2649553	R85FBHS09	84,9	171,1	CC..09T3../CC..325..	T15	843.009.000
2649554	R125FBHS09	153,9	191,1	CC..09T3../CC..325..	T15	843.009.000

- Order inserts separately.



■ 95° Lead • Insert Holders for FBHS

order number	catalog number	D min	D max	gage insert	insert screw ID drive size	insert screw
2649555	R24FBHS06LF	23,9	31,1	CC..0602../CC..215..	T7	843.006.000
2649556	R31FBHS06LF	30,9	40,1	CC..0602../CC..215..	T7	843.006.000
2649557	R40FBHS06LF	39,9	51,1	CC..0602../CC..215..	T7	843.006.000
2649558	R51FBHS06LF	50,9	67,1	CC..0602../CC..215..	T7	843.006.000
2649559	R67FBHS09LF	66,9	153,1	CC..09T3../CC..325..	T15	843.009.000



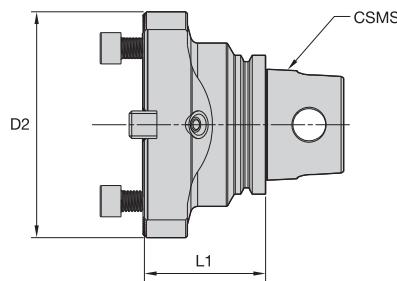
■ Reversal Adapters

reversal adapter	use with cartridges				L3	
catalog number	90° lead	90° lead	95° lead	fine boring head series	mm	inch
R37FBHSRB	R24FBHS06	—	R24FBHS06LF	..FBHS24	13,0	0.512
R40FBHSRB	R30FBHS06	—	—	..FBHS24	13,0	0.512
R44FBHSRB	R31FBHS06	—	R31FBHS06LF	..FBHS31	17,6	0.693
R51FBHSRB	R38FBHS06	—	—	..FBHS31	17,6	0.693
R53FBHSRB	R40FBHS06	—	R40FBHS06LF	..FBHS40	31,3	1.232
R60FBHSRB	R48FBHS06	—	—	..FBHS40	31,3	1.232
R64FBHSRB	R51FBHS06	—	R51FBHS06LF	..FBHS51	49,2	1.937
R75FBHSRB	R65FBHS06	—	—	..FBHS51	49,2	1.937
R87FBHSRB	R67FBHS06	R67FBHS09	R67FBHS09LF	..FBHS-67	62,0	2.441

NOTE: Use the chart above to match the insert holder to the reversal adapter.

ModBORE™ Bridge Boring Systems

- Extension bridge required.
- Order extension bridge separately; see pages K143–K144.
- Match adapter and extension bridge series.

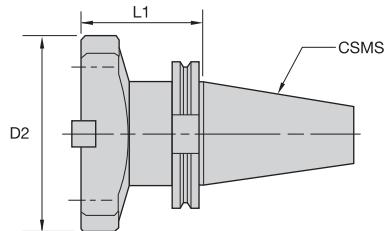


■ KM™ Bridge Tool Adapters

order number	catalog number	CSMS system size	extension bridge series	D2	L1	spare parts package	socket-head cap screw
		mm	in	mm	in		
1135802	KM63BT13065	KM63	A	130,0	5.12	65,0	2.56
1197315	KM80BT13070	KM80	B,A	130,0	5.12	70,0	2.76



- Extension bridge required.
- Order extension bridge separately; see pages K143–K144.
- Order coolant cartridge set separately.
- Match adapter and extension bridge series.



CV Bridge Tool Adapters

Hole Finishing

order number	catalog number	CSMS system size	extension bridge series	D2 mm	D2 in	L1 mm	L1 in	spare parts package	socket-head cap screw
1122185	CV50BT13069	CV50	A,B,C	130,0	5.12	69,1	2.72	PKG1565	MS1085PKG



BT Bridge Tool Adapters

order number	catalog number	CSMS system size	extension bridge series	D2 mm	D2 in	L1 mm	L1 in	spare parts package	socket-head cap screw
1121711	BT50BT13088	BT50	A,B,C	130,0	5.12	88,0	3.46	PKG1565	MS1085PKG

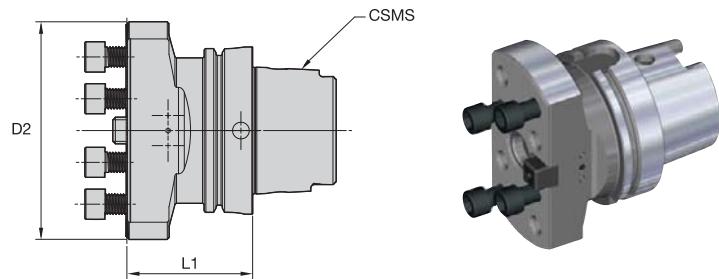


DV Bridge Tool Adapters

order number	catalog number	CSMS system size	extension bridge series	D2 mm	D2 in	L1 mm	L1 in	spare parts package	socket-head cap screw
1263825	DV40BT13069	DV40	A	130,0	5.12	69,1	2.72	PKG1565	MS1085PKG
1133581	DV50BT13069	DV50	A,B,C	130,0	5.12	69,1	2.72	PKG1565	MS1085PKG



- Extension bridge required.
- Order extension bridge separately; see pages K143–K144.
- Match adapter and extension bridge series.



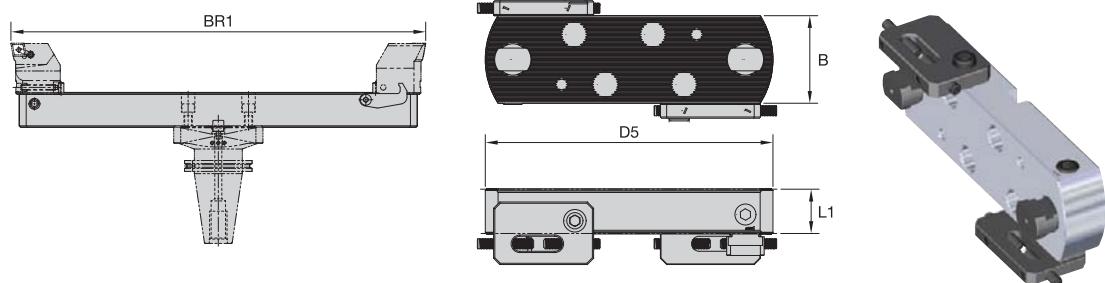
■ HSK Bridge Tool Adapters

order number	catalog number	CSMS system size	extension bridge series	D2	L1	spare parts package	socket-head cap screw
			mm in mm in	mm in	mm in		
4062112	HSK100BT13075	HSK100A	A,B,C	130,0 5.12	75,0 2.95	PKG1565	MS1085PKG

NOTE: Tool adapters combined with small-scale extension bridges cover boring range 5.91–25.79" (150–655mm).

Tool adapters combined with large-scale extension bridge and bridge slides cover boring range from 25.59–86.81" (650–2205mm).

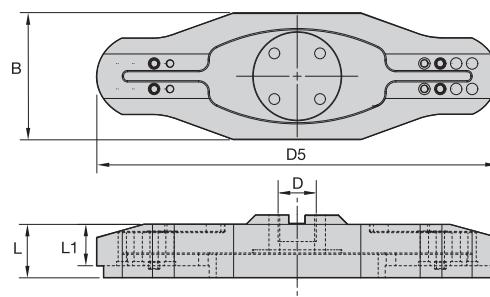
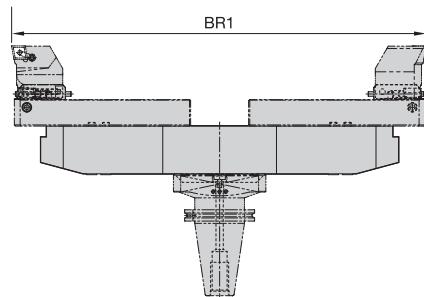
- Match extension bridge series to adapter.



■ Small-Scale Extension Bridges

order number	catalog number	BR1 bore range				max RPM	extension bridge series	B	D5	L1	spare parts package	hex size	kg lbs
		mm	in	mm	in			mm	in	mm			
1133280	EB13030150	150.000-205.000	5.9055-8.0709	1250	A	70,0 2.76	130,0 5.12	30,0 1.18			PKG156502	8 mm	1,95 4.30
1125085	EB18030200	200.000-255.000	7.8740-10.0394	1000	A	70,0 2.76	180,0 7.09	30,0 1.18			PKG156502	8 mm	2,77 6.10
1132857	EB23035250	250.000-305.000	9.8425-12.0079	850	B	70,0 2.76	230,0 9.06	35,0 1.38			PKG156502	8 mm	4,00 8.80
1126830	EB28035300	300.000-355.000	11.8110-13.9764	700	B	70,0 2.76	280,0 11.02	35,0 1.38			PKG156502	8 mm	5,14 11.30
1121703	EB33040350	350.000-405.000	13.7795-15.9449	600	B	70,0 2.76	330,0 12.99	40,0 1.57			PKG156502	8 mm	6,86 15.10
1140602	EB38040400	400.000-455.000	15.7480-17.9134	530	C	70,0 2.76	380,0 14.96	40,0 1.57			PKG156502	8 mm	7,95 17.50
1121036	EB43040450	450.000-505.000	17.7165-19.8819	480	C	70,0 2.76	430,0 16.93	40,0 1.57			PKG156502	8 mm	9,23 20.30
1270619	EB48040500	500.000-550.000	19.6850-21.8504	440	C	70,0 2.76	480,0 18.90	40,0 1.57			PKG156502	8 mm	10,23 22.50
1270620	EB53050550	550.000-605.000	21.6535-23.8189	400	C	70,0 2.76	530,0 20.87	50,0 1.97			PKG156502	8 mm	13,91 30.60
1270621	EB58050600	600.000-655.000	23.6220-25.7874	370	C	70,0 2.76	580,0 22.84	50,0 1.97			PKG156502	8 mm	15,32 33.70

- For use with shell mill adapters or direct connection to the machine spindle.
- Order bridge slides separately.



Large Scale Extension Bridge

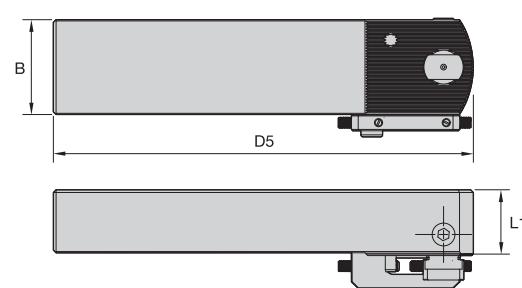
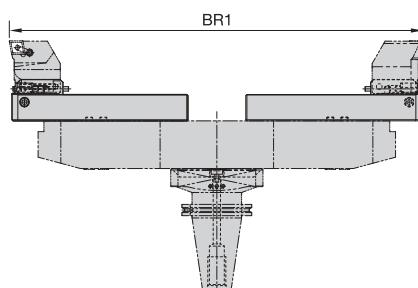
order number	catalog number	BR1 bore range		D		D5		B		L		L1		kg	lbs
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		
4057204	EB630128650	650.000-1105.000	25.5900-43.5000	60,0	2.36	630,0	24.80	200,0	7.87	99,0	3.90	84,0	3.31	17,20	37.84
4057205	EB10801281100	1100.000-1655.000	43.3100-65.1600	60,0	2.36	1080,0	42.52	200,0	7.87	99,0	3.90	84,0	3.31	28,10	61.82
4057206	EB16301281650	1650.000-2205.000	64.9600-86.8100	60,0	2.36	1630,0	64.17	200,0	7.87	99,0	3.90	84,0	3.31	43,00	94.60

max RPM		
BR1 bore range (mm)	BR1 bore range inch	maximum RPM
650-705	25.59-27.76	300
700-755	27.56-29.72	285
750-805	29.53-31.69	270
800-855	31.50-33.66	255
850-905	33.46-35.63	240
900-955	35.43-37.60	225
950-1005	37.40-39.57	210
1000-1055	39.37-41.54	195
1050-1105	41.34-43.50	180

max RPM		
BR1 bore range (mm)	BR1 bore range inch	maximum RPM
1100-1155	43.31-45.47	170
1150-1205	45.28-47.44	163
1200-1255	47.24-49.41	156
1250-1305	49.21-51.38	149
1300-1355	51.18-53.35	142
1350-1405	53.15-55.31	135
1400-1455	55.12-57.28	128
1450-1505	57.09-59.25	121
1500-1555	59.06-61.22	114
1550-1605	61.02-63.19	107
1600-1655	62.99-65.16	100

max RPM		
BR1 bore range (mm)	BR1 bore range inch	maximum RPM
1650-1705	64.96-67.13	95
1700-1755	66.93-69.09	90
1750-1805	68.90-71.06	85
1800-1855	70.87-73.03	80
1850-1905	72.83-75.00	75
1900-1955	74.80-76.97	70
1950-2005	76.77-78.94	65
2000-2055	78.74-80.91	60
2050-2105	80.71-82.87	55
2100-2155	82.68-84.84	50
2150-2205	84.65-86.81	45

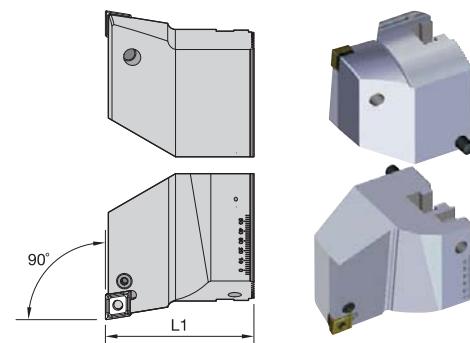
- For use with large-scale bridge extensions.
- Delivered as a set of two.



Bridge Slides

order number	catalog number	BR1 bore range		B		D5		L1		spare parts package	kg	lbs
		mm	in	mm	in	mm	in	mm	in			
4057207	EBSLD1105	650.000-1105.000	25.5900-43.5000	70,0	2.76	310,0	12.20	48,0	1.89	PKG156502	7,00	15.40
4057208	EBSLD2205	1100.000-2205.000	43.3100-86.8100	70,0	2.76	360,0	14.17	48,0	1.89	PKG156502	7,90	17.38

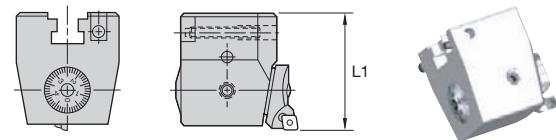
- Packaged as a matched set of two to enable twin cutting operations.



■ 90° Lead • Bridge Tool Rough-Boring Head

order number	catalog number	L1	gage insert	spare parts package	insert screw ID drive size	kg	lbs
		mm in					
1624878	EBURF1975PKG	75,0 2.95	CN..1906../CN..64..	PKG7994	4 mm	1,64	3,60

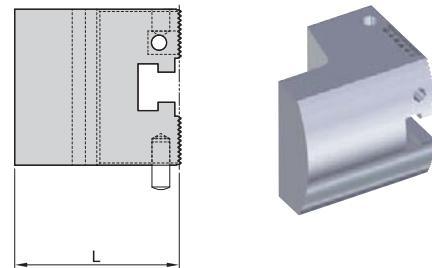
- Insert holder included.
- .0004" (0,01mm) diameter adjustment respective .00008" (2 µm) with vernier scale.
- Use with counterweight for balance.



■ 90° Lead • Bridge Tool Fine-Boring Head

order number	catalog number	L1	cartridge	spare parts package	wrench size-adjusting screw	kg	lbs
		mm in					
1135375	EBUFF0975	75,0 2.95	R67-FBHS-09	PKG0002	5 mm	2,14	4,70

- Use to balance the extension bridge when using an EBUFF fine-boring head.



■ Bridge Tool Counterweight

order number	catalog number	L	kg	lbs
		mm	in	
4062443	EBUCW0074	74,0	2,91	2,10
				4,63

■ ModBORE™ • Roughing • Inch

Material Group	Condition	Geometry			Cutting Speed SFM			Feed Rate IPR		
		-MP	-MN	-MF	min	Starting Value	max	-MP	-MN	-MF
1	○	—	KCP05	—	590	1430	1620	—	.006-.025	—
	○	KCP10			590	1300	1180	.004-.016	.006-.025	.004-.016
	○	—	KC9110		590	1300	1180	—	.006-.025	.004-.016
	○	KCP25			410	900	1180	.004-.008	.006-.012	.004-.008
2	○	—	KC9125		510	920	1180	—	.006-.012	.004-.008
	○	—	KCP05	—	590	870	1310	—	.006-.025	—
	○	KCP10			590	790	1540	.004-.016	.006-.025	.004-.016
	○	—	KC9110		590	820	1120	—	.006-.025	.004-.016
3	○	KCP25			410	640	920	.004-.008	.006-.012	.004-.008
	○	—	KC9125		460	660	970	—	.006-.012	.004-.008
	○	—	KCP05	—	590	670	900	—	.006-.025	—
	○	KCP10			520	620	1150	.004-.016	.006-.025	.004-.016
4	○	—	KC9110		510	620	770	—	.006-.025	.004-.016
	○	KCP25			440	510	740	.004-.008	.006-.012	.004-.008
	○	—	KC9125		440	510	740	—	.006-.012	.004-.008
	○	—	KCP05	—	300	520	720	—	.006-.025	—
5	○	KCP10			300	480	770	.004-.016	.006-.025	.004-.016
	○	—	KC9110		300	480	640	—	.006-.025	.004-.016
	○	KCP25			250	340	590	.004-.008	.006-.012	.004-.008
	○	—	KC9125		250	360	570	—	.006-.012	.004-.008
6	○	—	KCP05	—	490	790	1030	—	.006-.025	—
	○	KCP10			490	710	980	.004-.016	.006-.025	.004-.016
	○	—	KC9110		490	710	980	—	.006-.025	.004-.016
	○	KCP25			390	640	850	.004-.008	.006-.012	.004-.008
7	○	—	KC9125		390	640	850	—	.006-.012	.004-.008
	○	—	KCP05	—	460	660	980	—	.006-.025	—
	○	KCP10			360	590	890	.004-.016	.006-.025	.004-.016
	○	—	KC9110		390	590	740	—	.006-.025	.004-.016
8	○	KCP25			340	490	740	.004-.008	.006-.012	.004-.008
	○	—	KC9125		340	490	740	—	.006-.012	.004-.008

■ ModBORE™ • Roughing • Inch

Material Group	Condition	Geometry			Cutting Speed SFM			Feed Rate IPR		
		-MP	-MF	min	Starting Value	max	-MP	-MF		
1	○○	KCM15			330	590	790	.004-.016	.003-.012	
	○○	KC5010	—	430	710	820	.004-.016	—		
	○○	KC9225			570	610	820	.004-.016	.003-.012	
	○○	KCM25	—	300	490	660	.004-.008	.003-.006		
2	○○	KC9240			300	390	440	.004-.008	.003-.006	
	○○	KCM15			360	540	820	.004-.016	.003-.012	
	○○	KC5010	—	410	660	820	.004-.016	—		
	○○	KC9225			360	560	750	.004-.016	.003-.012	
3	○○	KCM25	—	300	490	740	.004-.008	.003-.006		
	○○	KC9240	—	260	340	440	.004-.008	.003-.006		
	○○	KCM15			360	490	820	.004-.016	.003-.012	
	○○	KC5010	—	360	490	750	.004-.016	—		
4	○○	KC9225			360	490	750	.004-.016	.003-.012	
	○○	KCM25	—	300	390	660	.004-.008	.003-.006		
	○○	KC9240	—	260	300	440	.004-.008	.003-.006		

ModBORE™ • Roughing • Inch

Material Group	Condition	Geometry		Cutting Speed SFM			Feed Rate IPR	
		-MP	-MW	min	Starting Value	max	-MP	-MW
K	1	○	KCK20	720	980	1770	.004-.016	.006-.039
		—	KT315	520	900	1610	—	.006-.039
		○	KCK20	720	900	1150	.004-.016	.006-.039
		—	KC9315	490	900	1150	—	.006-.039
	2	○	KCK20	460	690	1120	.004-.008	.006-.018
		—	KC9325	230	690	1120	—	.006-.018
		○	KCK20	720	900	1150	.004-.016	.006-.039
		—	KT315	590	900	1180	—	.006-.039
	3	○	KCK20	720	900	1150	.004-.016	.006-.039
		—	KC9315	430	850	1120	—	.006-.039
		○	KCK20	720	900	1150	.004-.008	.006-.018
		—	KC9315	360	490	750	.004-.016	.006-.039
		○	KCK20	360	490	750	.004-.016	.006-.039
		—	KC9315	430	710	1150	—	.006-.039
		○	KCK20	360	490	750	.004-.008	.006-.018

ModBORE™ • Roughing • Inch

Material Group	Condition	Geometry		Cutting Speed SFM			Feed Rate IPR	
		-HP	—	min	Starting Value	max	-HP	—
N	1	○○	KC5410	—	660	1800	3280	.006-.025
		—	KD1400	1480	2510	8200	—	.010-.025
	2	○○	KC5410	—	660	1800	3280	.006-.012
		—	KD1425	980	1710	2950	—	.010-.025
	3	○○	KC5410	—	980	1710	2950	—
		—	KD1425	330	900	1640	.006-.025	.010-.016
	5	○○	KC5410	—	330	850	1610	—
		—	K313	330	900	1640	.006-.012	—
	○○	KC5410	—	330	660	1150	.006-.025	—
	—	KC5410	—	330	660	1150	.006-.012	—

ModBORE™ • Roughing • Inch

Material Group	Condition	Geometry			Cutting Speed SFM			Feed Rate IPR		
		-MP	-FP	-UP	min	Starting Value	max	-MP	-FP	-UP
S	1	○○	KCU10	—	100	180	380	.004-.016	.002-.010	—
		—	KC5010	—	100	180	380	.004-.016	.002-.010	.006-.020
		○	KCU25	—	30	130	180	.004-.008	.002-.005	—
		—	KC9240	—	30	130	200	.004-.008	—	.006-.011
	2	○○	KCU10	—	100	200	390	.004-.016	.002-.010	—
		—	KC5010	—	100	200	380	.004-.016	.002-.010	.006-.020
		○	KCU25	—	30	100	180	.004-.008	.002-.005	—
		—	KC9240	—	30	100	180	.004-.008	—	.006-.011
	3	○○	KCU10	—	100	230	380	.004-.016	.002-.010	—
		—	KC5010	—	100	230	380	.004-.016	.002-.010	.006-.020
		○	KCU25	—	70	130	180	.004-.008	.002-.005	—
		—	KC9240	—	70	130	200	.004-.008	—	.006-.011
	4	○○	KCU10	—	150	230	460	.004-.016	.002-.010	—
		—	KC5010	—	150	230	560	.004-.016	.002-.010	.006-.020
		○	KCU25	—	70	180	300	.004-.008	.002-.005	—
		—	KC9240	—	50	180	300	.004-.008	—	.006-.011

ModBORE™ • Roughing • Metric

Material Group		Condition	Geometry			Cutting Speed – vc m/min			Feed Rate mm/r		
			-MP	-MN	-MF	min	Starting Value	max	-MP	-MN	-MF
P	1	○	–	KCP05	–	180	435	495	–	0,16–0,63	–
		○	KCP10			180	395	360	0,10–0,40	0,16–0,63	0,10–0,40
		○	–	KC9110		180	395	360	–	0,16–0,63	0,10–0,40
		○	KCP25			125	275	360	0,10–0,20	0,16–0,31	0,10–0,20
	2	○	–	KC9125		155	280	360	–	0,16–0,31	0,10–0,20
		○	–	KCP05	–	180	265	400	–	0,16–0,63	–
		○	KCP10			180	240	470	0,10–0,40	0,16–0,63	0,10–0,40
		○	–	KC9110		180	250	340	–	0,16–0,63	0,10–0,40
	3	○	KCP25			125	195	280	0,10–0,20	0,16–0,31	0,10–0,20
		○	–	KC9125		140	200	295	–	0,16–0,31	0,10–0,20
		○	–	KCP05	–	180	205	275	–	0,16–0,63	–
		○	KCP10			160	190	350	0,10–0,40	0,16–0,63	0,10–0,40
	4	○	–	KC9110		155	190	235	–	0,16–0,63	0,10–0,40
		○	KCP25			135	155	225	0,10–0,20	0,16–0,31	0,10–0,20
		○	–	KC9125		135	155	225	–	0,16–0,31	0,10–0,20
		○	–	KCP05	–	90	160	220	–	0,16–0,63	–
	5	○	KCP10			90	145	235	0,10–0,40	0,16–0,63	0,10–0,40
		○	–	KC9110		90	145	195	–	0,16–0,63	0,10–0,40
		○	KCP25			75	105	180	0,10–0,20	0,16–0,31	0,10–0,20
		○	–	KC9125		75	110	175	–	0,16–0,31	0,10–0,20
	6	○	–	KCP05	–	150	240	315	–	0,16–0,63	–
		○	KCP10			150	215	300	0,10–0,40	0,16–0,63	0,10–0,40
		○	–	KC9110		150	215	300	–	0,16–0,63	0,10–0,40
		○	KCP25			120	195	260	0,10–0,20	0,16–0,31	0,10–0,20
	7	○	–	KC9125		120	195	260	–	0,16–0,31	0,10–0,20
		○	–	KCP05	–	140	200	300	–	0,16–0,63	–
		○	KCP10			110	180	270	0,10–0,40	0,16–0,63	0,10–0,40
		○	–	KC9110		120	180	225	–	0,16–0,63	0,10–0,40
	8	○	KCP25			105	150	225	0,10–0,20	0,16–0,31	0,10–0,20
		○	–	KC9125		105	150	225	–	0,16–0,31	0,10–0,20

 ModBORE™ • Roughing • Metric

Material Group		Condition	Geometry			Cutting Speed – vc m/min			Feed Rate mm/r			
			-MP	-MF	–	min	Starting Value	max	-MP	-MF	–	
M	1	○○	KCM15			–	100	180	240	0,10–0,40	0,08–0,30	
			KC5010	–	–	130	215	250	0,10–0,40	–	–	
		○	KC9225			–	175	185	250	0,10–0,40	0,08–0,30	
			KCM25			–	90	150	200	0,10–0,20	0,08–0,15	
	2	○○	KC9240			–	90	120	135	0,10–0,20	0,08–0,15	
			KCM15	–	–	110	165	250	0,10–0,40	0,08–0,30	–	
		○	KC5010	–	–	125	200	250	0,10–0,40	–	–	
			KC9225			–	110	170	230	0,10–0,40	0,08–0,30	–
	3	○○	KCM25			–	90	150	225	0,10–0,20	0,08–0,15	–
			KC9240	–	–	80	105	135	0,10–0,20	0,08–0,15	–	
		○	KCM15			–	110	150	250	0,10–0,40	0,08–0,30	–
			KC5010	–	–	110	150	230	0,10–0,40	–	–	
		KC9225			–	110	150	230	0,10–0,40	0,08–0,30	–	
		○	KCM25			–	90	120	200	0,10–0,20	0,08–0,15	–
			KC9240	–	–	80	90	135	0,10–0,20	0,08–0,15	–	

ModBORE™ • Roughing • Metric

Material Group	Condition	Geometry			Cutting Speed – vc m/min			Feed Rate mm/r		
		-MP	-MW	—	min	Starting Value	max	-MP	-MW	—
K	1		KCK20	—	220	300	540	0,10–0,40	0,16–1,00	—
			— KT315	—	160	275	490	—	0,16–1,00	—
			KCK20	—	220	275	350	0,10–0,40	0,16–1,00	—
			— KC9315	—	150	275	350	—	0,16–1,00	—
	2		KCK20	—	140	210	340	0,10–0,20	0,16–0,45	—
			— KC9325	—	70	210	340	—	0,16–0,45	—
			KCK20	—	220	275	350	0,10–0,40	0,16–1,00	—
			— KT315	—	180	275	360	—	0,16–1,00	—
	3		KCK20	—	220	275	350	0,10–0,40	0,16–1,00	—
			— KC9315	—	130	260	340	—	0,16–1,00	—
			KCK20	—	220	275	350	0,10–0,20	0,16–0,45	—
			— KC9315	—	110	150	230	0,10–0,40	0,16–1,00	—
			KCK20	—	110	150	230	0,10–0,40	0,16–1,00	—
			— KC9315	—	130	215	350	—	0,16–1,00	—
			KCK20	—	110	150	230	0,10–0,20	0,16–0,45	—

ModBORE™ • Roughing • Metric

Material Group	Condition	Geometry			Cutting Speed – vc m/min			Feed Rate mm/r			
		-HP	—	—	min	Starting Value	max	-HP	—	—	
N	1		KC5410	—	—	200	550	1000	0,16–0,63	—	—
			— KD1400	—	450	765	2500	—	0,25–0,63	—	
			KC5410	—	—	200	550	1000	0,16–0,31	—	—
			— KD1425	—	300	520	900	—	0,25–0,63	—	
	2		— KD1425	—	300	520	900	—	0,25–0,40	—	
			KC5410	—	—	100	275	500	0,16–0,63	—	—
			K313	—	—	120	260	490	0,16–0,63	—	—
			KC5410	—	—	100	275	500	0,16–0,31	—	—
	3		KC5410	—	—	100	200	350	0,16–0,63	—	—
			— KC5410	—	100	200	350	0,16–0,31	—	—	
			KC5410	—	—	100	200	350	0,16–0,63	—	—
			— KC5410	—	100	200	350	0,16–0,31	—	—	
			KC5410	—	—	100	200	350	0,16–0,63	—	—
			— KC5410	—	100	200	350	0,16–0,31	—	—	

ModBORE™ • Roughing • Metric

Material Group	Condition	Geometry			Cutting Speed – vc m/min			Feed Rate mm/r		
		-MP	-FP	-UP	min	Starting Value	max	-MP	-FP	-UP
S	1		KCU10	—	30	55	115	0,10–0,40	0,06–0,25	—
			KC5010	—	30	55	115	0,10–0,40	0,06–0,25	0,16–0,50
			KCU25	—	10	40	55	0,10–0,20	0,06–0,12	—
			KC9240	—	KC9240	10	40	60	0,10–0,20	—
	2		KCU10	—	30	60	120	0,10–0,40	0,06–0,25	—
			KC5010	—	30	60	115	0,10–0,40	0,06–0,25	0,16–0,50
			KCU25	—	10	30	55	0,10–0,20	0,06–0,12	—
			KC9240	—	KC9240	10	30	55	0,10–0,20	—
	3		KCU10	—	30	70	115	0,10–0,40	0,06–0,25	—
			KC5010	—	30	70	115	0,10–0,40	0,06–0,25	0,16–0,50
			KCU25	—	20	40	55	0,10–0,20	0,06–0,12	—
			KC9240	—	KC9240	20	40	60	0,10–0,20	—
	4		KCU10	—	45	70	140	0,10–0,40	0,06–0,25	—
			KC5010	—	45	70	170	0,10–0,40	0,06–0,25	0,16–0,50
			KCU25	—	20	55	90	0,10–0,20	0,06–0,12	—
			KC9240	—	KC9240	15	55	90	0,10–0,20	—

ModBORE™ • Finishing • Inch

Material Group	Condition	Geometry				Cutting Speed – vc SFM			Feed Rate IPR				
		-LF	-UF	-FP	-FW	min	Starting Value	max	-LF	-UF	-FP	-FW	
P	1		KCP05			—	590	1430	1620	.002-.010	.002-.006	.002-.010	—
			—	—	KTP10	—	590	1430	1620	—	—	.002-.010	—
			KT315	—	—	—	590	1310	1620	.002-.010	—	—	.003-.012
			KCP10			—	590	1300	1530	.002-.010	.002-.006	.002-.010	—
	2		KC9110			—	590	1300	1620	.002-.010	.002-.006	—	—
			KCP25			—	460	920	1180	.002-.004	.002-.003	.002-.005	.003-.006
			KC9125			—	460	920	1180	.002-.004	.002-.003	—	—
			KCP05			—	590	870	1310	.002-.010	.002-.006	.002-.010	—
	3		—	—	KTP10	—	590	870	1310	—	—	.002-.010	—
			KT315	—	—	KT315	620	890	1280	.002-.010	—	—	.003-.012
			KCP10			—	590	790	1080	.002-.010	.002-.006	.002-.010	—
			KC9110			—	590	790	1080	.002-.010	.002-.006	—	—
	4		KCP25			—	480	640	1050	.002-.004	.002-.003	.002-.005	.003-.006
			KC9125			—	480	640	1050	.002-.004	.002-.003	—	—
			KCP05			—	590	670	900	.002-.010	.002-.006	.002-.010	—
			—	—	KTP10	—	590	670	900	—	—	.002-.010	—
	5		KT315	—	—	KT315	590	690	900	.002-.010	—	—	.003-.012
			KCP10			—	520	620	820	.002-.010	.002-.006	.002-.010	—
			KC9110			—	510	620	790	.002-.010	.002-.006	—	—
			KCP25			—	440	510	740	.002-.004	.002-.003	.002-.005	.003-.006
	6		KC9125			—	440	510	740	.002-.004	.002-.003	—	—
			KCP05			—	300	520	720	.002-.010	.002-.006	.002-.010	—
			—	—	KTP10	—	300	520	720	—	—	.002-.010	—
			KT315	—	—	KT315	300	590	720	.002-.010	—	—	.003-.012

ModBORE™ • Finishing • Inch

Material Group	Condition	Geometry				Cutting Speed – vc SFM			Feed Rate IPR				
		-LF	-UF	-FP	-FW	min	Starting Value	max	-LF	-UF	-FP	-FW	
M	1		—	—	KTP10	—	460	750	1030	—	—	.002-.010	—
			KT315	—	—	KT315	460	750	1030	.002-.010	—	—	.003-.012
			KC5010			—	430	710	800	.002-.010	—	—	.003-.012
			KCM15			—	340	590	790	.002-.005	—	.002-.005	—
	2		KC9225			—	340	590	790	.002-.005	—	—	.003-.006
			—	—	KTP10	—	460	710	970	—	—	.002-.010	—
			KT315	—	—	KT315	460	710	970	.002-.010	—	—	.003-.012
			KC5010			—	430	660	800	.002-.010	—	—	.003-.012
	3		KCM15			—	340	540	820	.002-.005	—	.002-.005	—
			KT315	—	—	KC9225	330	520	750	.002-.005	—	—	.003-.006
			KC9225			—	360	660	980	—	—	.002-.010	—
			KTP10			—	460	660	980	.002-.010	—	—	.003-.012

ModBORE™ • Finishing • Inch

Material Group	Condition	Geometry				Cutting Speed – vc SFM			Feed Rate IPR			
		-LF	-UF	-FP	-FW	min	Starting Value	max	-LF	-UF	-FP	-FW
K	1	○	KCK20	—	KCK20	660	980	1770	.002-.010	—	.002-.010	.003-.012
		○	KT315	—	KT315	540	900	1610	.002-.010	—	—	.003-.012
		○	KC9315	—	—	360	900	1480	.002-.010	—	—	—
	2	○	KC9320	—	—	330	790	1310	.002-.005	—	—	—
		○	KCK20	—	KCK20	490	790	1380	.002-.010	—	.002-.010	.003-.012
		○	KT315	—	KT315	590	900	1180	.002-.010	—	—	.003-.012
		○	KC5010	—	KC5010	330	660	870	.002-.010	.002-.006	—	.003-.012
	3	○	KC9315	—	—	480	850	1180	.002-.010	—	—	—
		○	KC9320	—	—	460	790	1080	.002-.005	—	—	—
		○	KCK20	—	KCK20	460	690	1150	.002-.010	—	.002-.010	.003-.012
	○	KT315	—	—	KT315	590	750	1050	.002-.010	—	—	.003-.012
	○	KC5010	—	KC5010	390	490	740	.002-.010	.002-.006	—	.003-.012	
	○	KC9315	—	—	480	710	900	.002-.010	—	—	—	—
	○	KC9320	—	—	460	690	850	.002-.005	—	—	—	—

ModBORE™ • Finishing • Inch

Material Group	Condition	Geometry				Cutting Speed – vc SFM			Feed Rate IPR			
		-LF	—	—	—	min	Starting Value	max	-LF	—	—	—
N	1	○○	KC5410	—	—	660	1800	3280	.004-.016	—	—	—
		○	KC5410	—	—	660	1800	3280	.004-.008	—	—	—
		—	KD1400	—	—	1480	2510	9840	—	.002-.006	—	—
	2	○○	—	KD1425	—	—	1230	1900	3770	—	.002-.010	—
		○	—	KD1400	—	—	1310	2130	4100	—	.002-.006	—
		○○	KC5410	—	—	410	900	1720	.004-.016	—	—	—
	3	○○	—	KD1425	—	—	820	1640	2870	—	.002-.010	—
		○	KC5410	—	—	410	900	1720	.004-.008	—	—	—
		○	—	KD1400	—	—	1230	1710	3280	—	.002-.005	—
	5	○○	KC5410	—	—	410	660	1230	.004-.016	—	—	—
		○	KC5410	—	—	410	660	1230	.004-.008	—	—	—

ModBORE™ • Finishing • Inch

Material Group	Condition	Geometry				Cutting Speed – vc SFM			Feed Rate IPR			
		-LF	-UF	-FP	-FW	min	Starting Value	max	-LF	-UF	-FP	-FW
S	1	○	—	KCU10	—	100	180	410	—	—	.002-.010	—
		○	K313	—	—	30	100	200	.002-.010	—	—	—
		○	KC5010	—	KC5010	100	180	390	.002-.010	.002-.006	—	.003-.012
		○	—	KCU10	—	100	180	410	—	—	.002-.010	—
		○	KC5010	—	KC5010	100	180	390	.002-.010	.002-.006	—	.003-.012
		○	—	KCU25	—	30	130	160	—	—	.002-.005	—
	2	○	KC5025	—	—	30	130	160	.002-.004	—	—	—
		○	—	KCU10	—	100	110	410	—	—	.002-.010	—
		○	K313	—	—	30	110	200	.002-.010	—	—	—
		○	KC5010	—	KC5010	100	200	390	.002-.010	.002-.006	—	.003-.012
		○	—	KCU10	—	100	200	390	.002-.010	.002-.006	—	.003-.012
		○	KC5010	—	KC5010	100	200	390	.002-.010	.002-.006	—	.003-.012
	3	○	KC5025	—	—	30	100	160	.002-.004	—	—	—
		○	—	KCU10	—	100	230	410	—	—	.002-.010	—
		○	K313	—	—	30	130	200	.002-.010	—	—	—
		○	KC5010	—	KC5010	100	230	390	.002-.010	.002-.006	—	.003-.012
		○	—	KCU10	—	100	110	410	—	—	.002-.010	—
		○	KC5010	—	KC5010	100	230	390	.002-.010	.002-.006	—	.003-.012
	4	○	KC5025	—	—	80	130	200	.002-.004	—	—	.002-.005
		○	—	KCU10	—	150	230	460	—	—	.002-.010	—
		○	K313	—	—	50	150	210	.002-.010	—	—	—
		○	KC5010	—	KC5010	150	230	460	.002-.010	.002-.006	—	.003-.012
		○	—	KCU10	—	150	230	460	—	—	.002-.010	—
		○	KC5010	—	KC5010	150	230	460	.002-.010	.002-.006	—	.003-.012
	5	○	KC5025	—	—	80	180	300	—	—	.002-.005	—
		○	KC5025	—	—	50	180	300	.002-.004	—	—	—

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Material Group		Condition	Geometry				Cutting Speed – vc m/min			Feed Rate mm/r			
			-LF	-UF	-FP	-FW	min	Starting Value	max	-LF	-UF	-FP	-FW
P	1		KCP05			–	180	435	495	0,06-0,25	0,04-0,16	0,06-0,25	–
			–	–	KTP10	–	180	435	495	–	–	0,06-0,25	–
			KT315	–	–	KT315	180	400	495	0,06-0,25	–	–	0,08-0,30
			KCP10			–	180	395	465	0,06-0,25	0,04-0,16	0,06-0,25	–
			KC9110	–	–	180	395	495	0,06-0,25	0,04-0,16	–	–	–
			KCP25			–	140	280	360	0,06-0,10	0,04-0,08	0,06-0,12	0,08-0,16
			KC9125	–	–	140	280	360	0,06-0,10	0,04-0,08	–	–	–
			KCP05			–	180	265	400	0,06-0,25	0,04-0,16	0,06-0,25	–
	2		–	–	KTP10	–	180	265	400	–	–	0,06-0,25	–
			KT315	–	–	KT315	190	270	390	0,06-0,25	–	–	0,08-0,30
			KCP10			–	180	240	330	0,06-0,25	0,04-0,16	0,06-0,25	–
			KC9110	–	–	180	240	330	0,06-0,25	0,04-0,16	–	–	–
			KCP25			–	145	195	320	0,06-0,10	0,04-0,08	0,06-0,12	0,08-0,16
			KC9125	–	–	145	195	320	0,06-0,10	0,04-0,08	–	–	–
			KCP05			–	180	205	275	0,06-0,25	0,04-0,16	0,06-0,25	–
	3		–	–	KTP10	–	180	205	275	–	–	0,06-0,25	–
			KT315	–	–	KT315	180	210	275	0,06-0,25	–	–	0,08-0,30
			KCP10			–	160	190	250	0,06-0,25	0,04-0,16	0,06-0,25	–
			KC9110	–	–	155	190	240	0,06-0,25	0,04-0,16	–	–	–
			KCP25			–	135	155	225	0,06-0,10	0,04-0,08	0,06-0,12	0,08-0,16
			KC9125	–	–	135	155	225	0,06-0,10	0,04-0,08	–	–	–
			KCP05			–	90	160	220	0,06-0,25	0,04-0,16	0,06-0,25	–
	4		–	–	KTP10	–	90	160	220	–	–	0,06-0,25	–
			KT315	–	–	KT315	90	180	220	0,06-0,25	–	–	0,08-0,30
			KCP10			–	90	145	195	0,06-0,25	0,04-0,16	0,06-0,25	–
			KC9110	–	–	90	145	195	0,06-0,25	0,04-0,16	–	–	–
			KCP25			–	75	105	180	0,06-0,10	0,04-0,08	0,06-0,12	0,08-0,16
			KC9125	–	–	75	105	180	0,06-0,10	0,04-0,08	–	–	–
			KCP05			–	150	240	315	0,06-0,25	0,04-0,16	0,06-0,25	–
	5		–	–	KTP10	–	150	240	315	–	–	0,06-0,25	–
			KT315	–	–	KT315	150	250	315	0,06-0,25	–	–	0,08-0,30
			KCP10			–	150	215	300	0,06-0,25	0,04-0,16	0,06-0,25	–
			KC9110	–	–	150	215	300	0,06-0,25	0,04-0,16	–	–	–
			KCP25			–	120	195	255	0,06-0,10	0,04-0,08	0,06-0,12	0,08-0,16
			KC9125	–	–	120	195	255	0,06-0,10	0,04-0,08	–	–	–
			KCP05			–	140	200	300	0,06-0,25	0,04-0,16	0,06-0,25	–
	6		–	–	KTP10	–	140	200	300	–	–	0,06-0,25	–
			KT315	–	–	KT315	140	200	300	0,06-0,25	–	–	0,08-0,30
			KCP10			–	120	180	275	0,06-0,25	0,04-0,16	0,06-0,25	–
			KC9110	–	–	120	180	225	0,06-0,25	0,04-0,16	–	–	–
			KCP25			–	105	150	225	0,06-0,10	0,04-0,08	0,06-0,12	0,08-0,16
			KC9125	–	–	105	150	225	0,06-0,10	0,04-0,08	–	–	–

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Material Group		Condition	Geometry				Cutting Speed – vc m/min			Feed Rate mm/r			
			-LF	-UF	-FP	-FW	min	Starting Value	max	-LF	-UF	-FP	-FW
M	1		–	–	KTP10	–	140	230	315	–	–	0,06-0,25	–
			KT315	–	–	KT315	140	230	315	0,06-0,25	–	–	0,08-0,30
			KC5010	–	–	KC5010	130	215	245	0,06-0,25	–	–	0,08-0,30
			KCM15	–	KCM15	–	105	180	240	0,06-0,12	–	0,06-0,12	–
			KC9225	–	–	KC9225	105	180	240	0,06-0,12	–	–	0,08-0,16
			–	–	KTP10	–	140	215	295	–	–	0,06-0,25	–
			KT315	–	–	KT315	140	215	295	0,06-0,25	–	–	0,08-0,30
			KC5010	–	–	KC5010	130	200	245	0,06-0,25	–	–	0,08-0,30
	2		KCM15	–	KCM15	–	105	165	250	0,06-0,12	–	0,06-0,12	–
			KC9225	–	–	KC9225	100	160	230	0,06-0,12	–	–	0,08-0,16
			–	–	KTP10	–	140	200	300	–	–	0,06-0,25	–
			KT315	–	–	KT315	140	200	300	0,06-0,25	–	–	0,08-0,30
			KC5010	–	–	KC5010	130	185	230	0,06-0,25	–	–	0,08-0,30
			KCM15	–	KCM15	–	115	150	255	0,06-0,12	–	0,06-0,12	–
			KC9225	–	–	KC9225	110	150	230	0,06-0,12	–	–	0,08-0,16

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Material Group	Condition	Geometry				Cutting Speed – vc m/min			Feed Rate mm/r			
		-LF	-UF	-FP	-FW	min	Starting Value	max	-LF	-UF	-FP	-FW
K	1	○	KCK20	–	KCK20	200	300	540	0,06-0,25	–	0,06-0,25	0,08-0,30
		○	KT315	–	–	165	275	490	0,06-0,25	–	–	0,08-0,30
		○	KC9315	–	–	110	275	450	0,06-0,25	–	–	–
		○	KC9320	–	–	100	240	400	0,06-0,12	–	–	–
	2	○	KCK20	–	KCK20	150	240	420	0,06-0,25	–	0,06-0,25	0,08-0,30
		○	KT315	–	–	180	275	360	0,06-0,25	–	–	0,08-0,30
		○	KC5010	–	KC5010	100	200	265	0,06-0,25	0,04-0,16	–	0,08-0,30
		○	KC9315	–	–	145	260	360	0,06-0,25	–	–	–
	3	○	KC9320	–	–	140	240	330	0,06-0,12	–	–	–
		○	KCK20	–	KCK20	140	210	350	0,06-0,25	–	0,06-0,25	0,08-0,30
		○	KT315	–	–	180	230	320	0,06-0,25	–	–	0,08-0,30
		○	KC5010	–	KC5010	120	150	225	0,06-0,25	0,04-0,16	–	0,08-0,30
		○	KC9315	–	–	145	215	275	0,06-0,25	–	–	–
		○	KC9320	–	–	140	210	260	0,06-0,12	–	–	–

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Material Group	Condition	Geometry				Cutting Speed – vc m/min			Feed Rate mm/r				
		-LF	–	–	–	min	Starting Value	max	-LF	–	–	–	
N	1	○○	KC5410	–	–	–	200	550	1000	0,10-0,40	–	–	–
		○○	KC5410	–	–	–	200	550	1000	0,10-0,20	–	–	–
		○○	–	KD1400	–	–	450	765	3000	–	0,06-0,15	–	–
		○○	–	KD1425	–	–	375	580	1150	–	0,06-0,25	–	–
	2	○○	–	KD1400	–	–	400	650	1250	–	0,06-0,15	–	–
		○○	–	KC5410	–	–	125	275	525	0,10-0,40	–	–	–
		○○	–	KD1425	–	–	250	500	875	–	0,06-0,25	–	–
		○○	–	KC5410	–	–	125	275	525	0,10-0,20	–	–	–
	3	○○	–	KD1400	–	–	375	520	1000	–	0,06-0,12	–	–
		○○	–	KC5410	–	–	125	200	375	0,10-0,40	–	–	–
		○○	–	KC5410	–	–	125	200	375	0,10-0,20	–	–	–
		○○	–	KC5410	–	–	125	200	375	0,10-0,20	–	–	–

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Material Group	Condition	Geometry				Cutting Speed – vc m/min			Feed Rate mm/r			
		-LF	-UF	-FP	-FW	min	Starting Value	max	-LF	-UF	-FP	-FW
S	1	○	–	KCU10	–	30	55	125	–	–	0,06-0,25	–
		○	–	K313	–	10	30	60	0,06-0,25	–	–	–
		○	–	KC5010	–	30	55	120	0,06-0,25	0,04-0,16	–	0,08-0,30
		○	–	KC5010	–	30	55	120	0,06-0,25	0,04-0,16	–	0,08-0,30
	2	○	–	KCU10	–	30	55	125	–	–	0,06-0,25	–
		○	–	KC5010	–	30	60	120	0,06-0,25	0,04-0,16	–	0,08-0,30
		○	–	KCU10	–	30	35	125	–	–	0,06-0,25	–
		○	–	KC5010	–	30	60	120	0,06-0,25	0,04-0,16	–	0,08-0,30
	3	○	–	KCU25	–	10	40	50	–	–	0,06-0,12	–
		○	–	KC5025	–	10	40	50	0,06-0,10	–	–	–
		○	–	KCU10	–	30	35	125	–	–	0,06-0,25	–
		○	–	K313	–	10	35	60	0,06-0,25	–	–	–
	4	○	–	KC5010	–	30	60	120	0,06-0,25	0,04-0,16	–	0,08-0,30
		○	–	KCU10	–	30	35	125	–	–	0,06-0,25	–
		○	–	KC5010	–	30	70	120	0,06-0,25	0,04-0,16	–	0,08-0,30
		○	–	KCU25	–	25	40	60	0,06-0,10	–	–	–