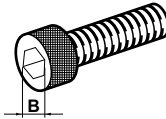


SPARE PARTS

IDENTIFICATION.....	F002
SPARE PARTS	
CLAMP SCREW.....	F003
SHIM.....	F009
SHIM PIN AND CLAMP LEVER.....	F012
LOCK PIN.....	F013
CLAMP BRIDGE.....	F013
BREAKER PIECE.....	F015
ANTI SEIZE LUBRICANT.....	F016

IDENTIFICATION

IDENTIFICATION OF CLAMP SCREW (Metric coarse right hand screw thread)



H SC 060 05

Length

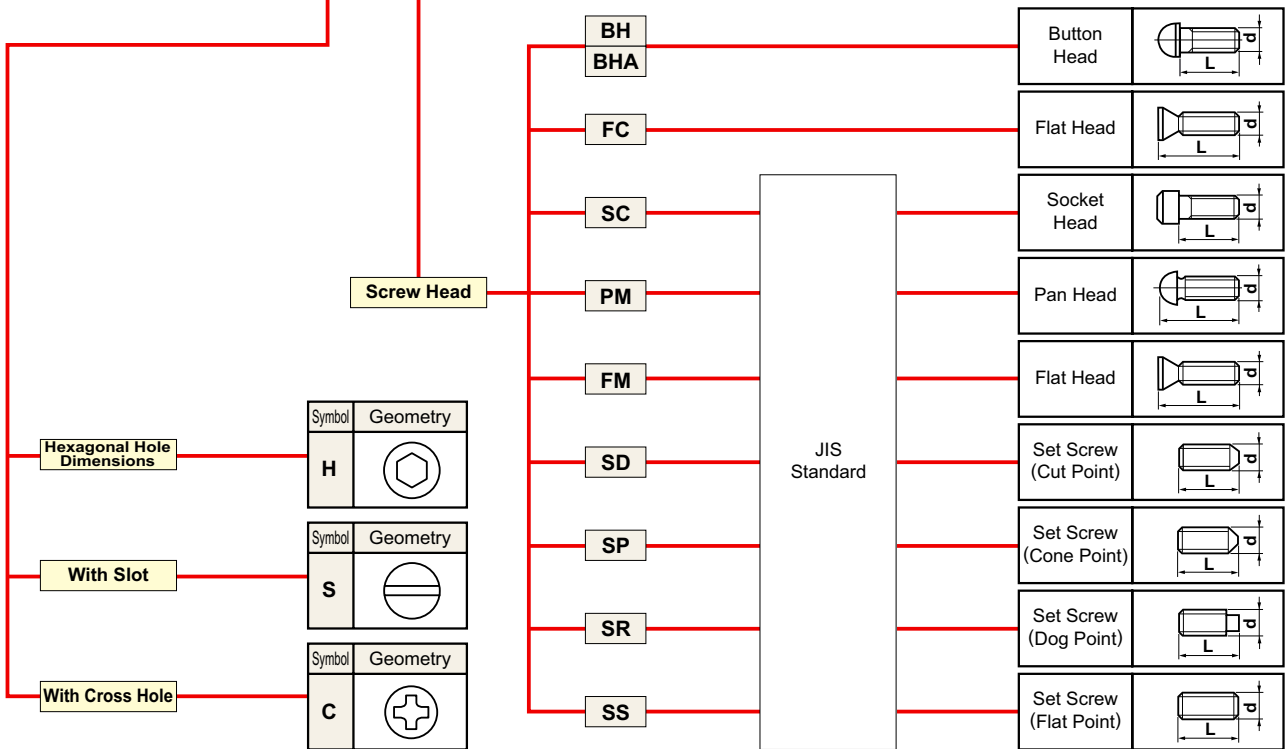
Example	
Symbol	L
05	5
10	10

Screw Diameter

Example	
Symbol	d
050	M5
060	M6

Hexagonal Hole Dimensions

Diameter	Pitch	B Dimensions			
		HBH	HFC	HSC	HS \odot
M2	0.4	—	—	1.5	0.9
M2.5	0.45	—	—	2	1.3
M3	0.5	2	2	2.5	1.5
M4	0.7	2.5	2.5	3	2
M5	0.8	3	3	4	2.5
M6	1	4	4	5	3
M8	1.25	5	5	6	4
M10	1.5	6	6	8	5



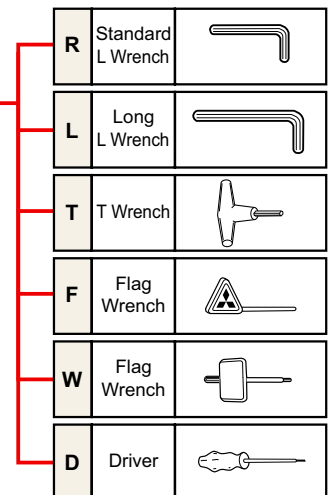
IDENTIFICATION OF WRENCH

HKY 15 R

Symbol	Wrench
HKY	Hexagonal Wrench
TKY	Torx Wrench

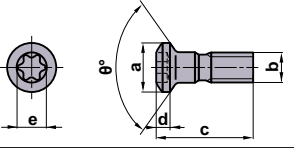
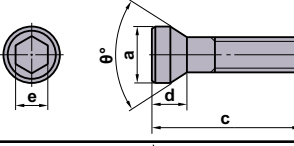
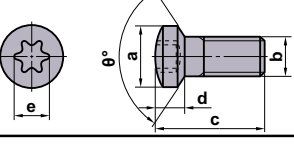
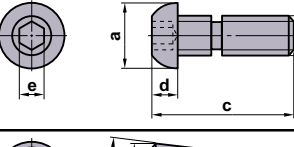
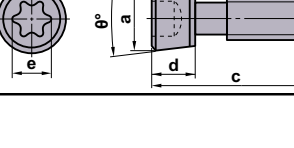
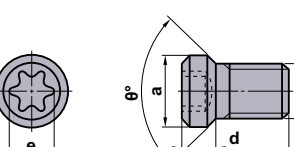
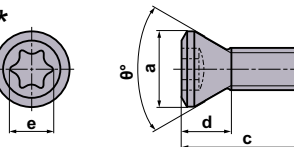
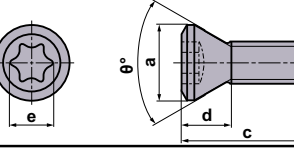
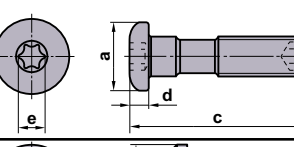
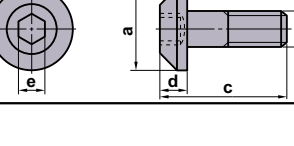
Hexagonal Wrench	
Symbol	B
15	1.5
20	2
25	2.5
30	3
40	4
50	5
60	6

Torx Wrench		
Symbol	B	Size
06	1.7	T6
08	2.3	T8
10	2.7	T10
15	3.3	T15
20	3.8	T20
25	4.4	T25
27	5.0	T27
30	5.5	T30



SPARE PARTS

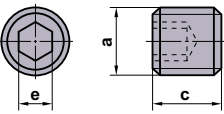
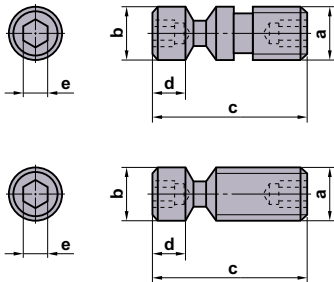
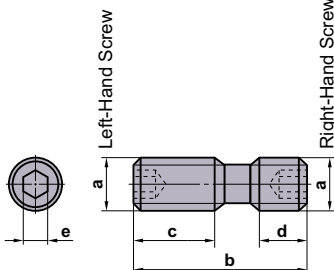
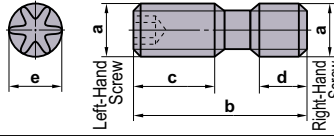
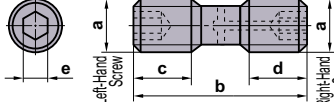
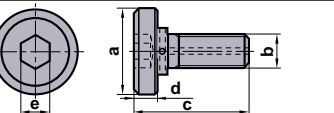
CLAMP SCREW

Geometry	Order Number	Dimensions (mm)					Angle θ°	Drive Size	Torque (N·m)	Tool Holder
		a	b	c	d	e				
	AJS3010T10	5	M3×0.5	10	1.5	2.8	120	T10	2.5	AJX Type Cutter (☉C116–C118)
	4012T15	7	M4×0.7	12	2.2	3.4	120	T15	3.5	
	5014T25	8	M5×0.8	14	2.7	4.5	120	T25	7.5	
	BOES101	15	M10×1.5	45	10	8	60	—	10.0	OCTACUT Type Cutter (☉C126)
	BRS103	5	M3×0.5	9.9	2.9	3.4	120	T15	3.5	
	105	8	M5×0.8	13.8	3.8	4.5	120	T25	7.5	
	CS3 (For Use with C3)	7	M4×0.7	14.6	2.6	2.5	—	—	2.2	F Type Boring Bar (☉A252)
	CS4 (For Use with C4)	9	M5×0.8	15.4	3.4	3	—	—	3.3	
	CS5 (For Use with C5)	10.5	M6×1	22	4	4	—	—	7.0	
										This clamp screw is included with the clamp as a set.
	CAS51T	7.9	M5×0.8	19	5	4.5	10	T25	8.5	BF407 Type (☉C070)
 	CS200T	3.2	M2×0.4	5	1.6	1.8	90	T6	0.5	AL Holder (☉A192)
	250T	3.7	M2.5×0.45	6	1.8	2.4	90	T8	1.0	F Type Boring Bar (☉A251)
	* 250560T	3.9	M2.5×0.45	5.2	2.5	2.4	60	T8	1.0	MMTI Type Boring Bar (☉A331)
	300590T	4.1	M3×0.5	5.5	2.1	2.4	90	T8	1.0	SNT Type Boring Bar (☉A342)
	300790TS	4.7	M3×0.5	7	2.3	2.8	90	T10	2.0	ROTATING TOOLS (☉C060, C122, C126, C127, C129, C130, C135, C149)
	300890T	4.1	M3×0.5	8	2.1	2.4	90	T8	1.0	
	350690T	4.8	M3.5×0.6	6.5	2.4	2.8	90	T10	2.5	
	* 350760T	5.5	M3.5×0.6	7	4	3.4	60	T15	3.5	
	350790T	4.8	M3.5×0.6	7	2.4	2.8	90	T10	2.5	
	* 350860T	5.5	M3.5×0.6	8.4	4	3.4	60	T15	3.5	
	350990T	4.8	M3.5×0.6	9	2.4	2.8	90	T10	2.5	
	400990T	6.0	M4×0.7	9	2.8	3.4	90	T15	3.5	
	401160T	5.7	M4×0.7	11	4.5	3.4	60	T15	3.5	
	401990T	6.0	M4×0.7	19	3.0	3.9	90	T20	3.5	
	451190T	6.3	M4.5×0.75	11	2.9	3.9	90	T20	5.0	
	* 501160T	7.0	M5×0.8	11	3.6	3.9	60	T20	5.0	
501290T	7.0	M5×0.8	11	3.5	4.5	90	T25	7.5		
502190T	8.5	M5×0.8	21	4.0	5.1	90	T27	7.5		
6016060T	8.5	M6×1.0	16	4.5	4.5	60	T25	7.5		
	CSF401260T	7.2	M4×0.5	12	5.2	3.9	60	T20	5.0	
	DC0520T	8.5	M5×0.8	22.5	2.5	3.4	—	T15	3.5	DOUBLE CLAMP Holder (☉A168, A170, A175, A179–A182) DOUBLE CLAMP DIMPLE BAR (☉A242–A244)
	0621T	10.5	M6×1.0	25	4	3.9	—	T20	5.0	
	DGS51	11.5	M5×0.8	19	4	4	—	—	7.0	DG Type Holder (☉A278–A298) HSK System (☉E012–E017)

SPARE PARTS

CLAMP SCREW

Geometry	Order Number	Dimensions (mm)					Angle θ°	Drive Size	Torque (N·m)	Tool Holder
		a	b	c	d	e				
	DKS4	5.6	M4×0.7	18	3.5	3	—	—	3.3	
	5	7.6	M5×0.8	19	4.5	4	—	—	7.0	
	EGS06019	9	M6×1	22.5	3.5	3	—	—	3.3	EG Type Holder (⊕A302)
	08024	11	M8×1.25	28.5	4.5	4	—	—	7.0	
	FC400890T	5.6	M4×0.7	7.5	1.3	2.8	90	T10	2.5	AL Type Holder (⊕A193, A194) AL Type Boring Bar (⊕A266) SMG Type Holder (⊕A306, A346)
	HFF06015	10	M6×1	15	6	5	80	—	8.2	
	HFF08043H	11	M8×1.25	43	5	5	90	—	8.2	BXD Type Cutter (⊕C104)
	HS4L	5.4	M4×0.7	14	2.3	2.5	80	—	3.8	
	5S	6.8	M5×0.8	9	2.8	3	80	—	3.3	
	5L	6.8	M5×0.8	15	2.8	3	80	—	6.6	
	HSP05008C	M5×0.8	8	—	—	2.5	—	—	2.5	MP Type Holder (⊕A179–A181) D Type Boring Head (⊕A269)
	HY-A1	4.4	M3×0.5	7	2.1	2	82	—	1.5	
	-V1	5.5	M3×0.5	7	2.5	2	82	—	1.5	
	2	5.5	M3×0.5	10	2.5	2	82	—	1.5	
	3	7	M3.5×0.6	12	2.9	2	82	—	1.5	
	4	9.3	M5×0.8	16	3.6	3	82	—	3.3	
	JSS6	6.9	M6×0.75	4.5	1.5	0.8	—	—	—	SP Type Holder (⊕A184–A187)
	7	8	M7×0.75	4.4	1.5	1	—	—	—	
	KS1	7	M4×0.7	14	5	—	—	—	—	
	2	10	M6×1	18	7	—	—	—	—	
	3	8	M4×0.7	14	6.5	—	—	—	—	
	1S	7	M4×0.7	14	5	—	—	—	—	
	2S	10	M6×1	18	7	—	—	—	—	
	KS11	8	M5×0.8	19	3	3	—	—	3.3	
	12	10	M6×1	26	4	4	—	—	7.0	
	13	10	M6×1	30	4	4	—	—	7.0	
	14	13	M8×1.25	45	5	5	—	—	9.0	
	HSC08030H	13	M8×1.25	38	8	5	—	—	24	APX3000 Type Cutter (⊕C091)
	10030H	16	M10×1.5	40	10	6	—	—	40	APX4000 Type Cutter (⊕C096)
	12035H	18	M12×1.75	47	12	10	—	—	80	AXD7000 Type Cutter (⊕C100)
	16040H	24	M16×2	56	16	14	—	—	150	BXD Type Cutter (⊕C104)
										AJX Type Cutter (⊕C114)

Geometry	Order Number	Dimensions (mm)					Angle θ°	Drive Size	Torque (N·m)	Tool Holder
		a	b	c	d	e				
	LLR1	M5×0.8	—	3.5	—	2.5	—	—	—	
	2	M6×1	—	5	—	3	—	—	—	
 <p>LLCS103, LLC105 LLCS125, LLC205</p> <p>The products with "*" do not have a hexagonal hole at the end marked b.</p> <p>The products with "☆" do not have a hexagonal hole at the end marked a.</p>	☆ LLCS103	M3×0.5	4	11	4.6	2	—	—	1.5	LL Type Holder (⊕A168—A176, A178, A182, A190) P Type Boring Bar (⊕A261—A264) D Type Boring Head (⊕A267, A268) KSMG Type Cutter (⊕C150) HSK System (⊕E004, E005, E007, E008, E010)
	* 105	M5×0.8	M5×0.8	10	1.5	2	—	—	1.5	
	106	M6×1	6	16.5	3.5	2.5	—	—	2.2	
	* 106S	M6×1	6	13.4	0.7	2.5	—	—	2.2	
	108	M8×1.25	8	21	6.5	3	—	—	3.3	
	* 108S	M8×1.25	8	16.5	2	3	—	—	3.3	
	110	M10×1.5	10	29	8	4	—	—	7.0	
	112	M12×1	11.9	36.2	9	5	—	—	8.0	
	125	M8×0.8	M5×0.8	12	2	2	—	—	1.5	
	205	M5×0.8	M5×0.8	16	4	2	—	—	1.5	
	206	M6×1	6	26	13	2.5	—	—	2.2	
	208	M8×1.25	8	24	6.5	3	—	—	3.3	
	306	M6×1	6	21	4	2.5	—	—	2.2	
	308	M8×1.25	8	42	27.5	3	—	—	3.3	
	310	M10×1	10	29	8	4	—	—	7.0	
	410	M10×1	10	30	6.6	4	—	—	7.0	
508	M8×1	8	24	6.5	3	—	—	3.3		
508S	M8×1	8	20.5	3	3	—	—	3.3		
 <p>*Without Hexagonal Hole on Right-Hand Screw</p>	LS1	M6×1	22	8	8	3	—	—	5.0	DOUBLE CLAMP Holder (For Heavy Cutting) (⊕A169, A172, A174) UG Type Holder (⊕A300) ROTATING TOOLS (⊕C060, C062, C064, C066, C068, C070, C071, C076, C077, C080, C104, C126, C129, C154)
	2	M8×1	29	13	10	4	—	—	8.2	
	3	M8×1	32	13	13	4	—	—	8.2	
	* 4	M6×1	15	8	4	3	—	—	5.0	
	* 5	M6×1	18	8	5	3	—	—	5.0	
	* 6	M8×1	24	13	5	4	—	—	8.2	
	* 7	M8×1	27	13	8	4	—	—	8.2	
	* 8	M6×0.75	18	7	7	3	—	—	5.0	
	* 9	M6×0.75	22	8	8	3	—	—	5.0	
	* 10	M7×0.75	16	6	6	4	—	—	8.2	
	* 11	M8×1	16	6	6	4	—	—	8.2	
	* 12	M8×1	24	7	7	4	—	—	8.2	
	* 13	M8×1	34	12	12	4	—	—	8.2	
	* 14	M7×0.75	24	10	10	4	—	—	8.2	
	* 15	M7×0.75	18	6	8	4	—	—	8.2	
	* 16	M7×0.75	23	11	8	4	—	—	8.2	
	* 17	M8×1	42	17	11	4	—	—	8.2	
	* 18	M7×0.75	14	6	4	4	—	—	8.2	
	* 20	M10×1.5	26	9	9	5	—	—	9.0	
	* 21	M10×1.5	32	12	12	5	—	—	9.0	
24	M8×1.25	24	8.5	8.5	4	—	—	8.2		
25	M8×1.0	27.7	11.8	10.2	4	—	—	8.2		
	10T	M7×0.75	14	6	5	4.5	—	T25	8.5	
	14T	M7×0.75	24	10	10	4.5	—	T25	8.5	
	15T	M7×0.75	18	7	7	4.5	—	T25	8.5	
	19T	M6×0.75	11	4	4	3.4	—	T15	5.0	
	10TS	M7×0.75	13	6	4	4.5	—	T25	8.5	
	LS24H	M8×1.25	24	8.5	8.5	4	—	—	8.2	APX3000 Type Cutter (⊕C091) BXD4000 Type Cutter (⊕C104)
	MBA20040H	50	M20×2.5	54	14	17	—	—	320	APX4000 Type Cutter (⊕C096) AXD7000 Type Cutter (⊕C100)
	24045H	65	M24×3	59	14	17	—	—	520	BXD4000 Type Cutter (⊕C104) AJX Type Cutter (⊕C114)



SPARE PARTS

CLAMP SCREW

Geometry	Order Number	Dimensions (mm)					Angle θ°	Drive Size	Torque (N·m)	Tool Holder
		a	b	c	d	e				
	MGS6	10	M6×1	26	4	5	—	—	9.0	
	MHT1	11	M8×1	18.5	3.5	4	—	—	8.7	
	NS251 401	3.6 5.8	M2.5×0.45 M4×0.7	7 6	— —	2.2 3.6	60 60	— —	0.7 3.5	SMALL TOOLS (☉A211, A214, A223)
	NS402W 403W 404W	5.85 5.85 5.8	M4×0.7 M4×0.7 M4×0.7	10 12 10	— — —	2.2 2.2 2.2	60 60 90	— — —	0.7 0.7 0.7	SMALL TOOLS (☉A209, A210, A212, A214, A216, A220, A226)
	NS501W 502W	8 8	M5×0.8 M5×0.8	16 20	— —	2.5 2.5	120 120	— —	2.2 2.2	SMALL TOOLS (☉A217—A219)
	RN-S4S -S4M -S4 -S5 -S6 -S7	5.8 5.8 5.8 8.1 9.5 11	M4×0.5 M4×0.5 M4×0.5 M5×0.5 M6×0.75 M7×0.75	8.4 10 12.5 15.4 20.3 24.7	2.5 2.2 2.2 3.6 4.6 5.2	3.4 3.4 3.4 3.9 3.9 4.5	61 61 61 61 61 61	T15 T15 T15 T20 T20 T25	3.5 3.5 3.5 5.0 5.0 7.5	
	RS3008T 3510T 4015T 5020T 6025T 8030T	4.3 5 6 8.1 9.5 12	M3×0.35 M3.5×0.35 M4×0.5 M5×0.5 M6×0.75 M8×0.75	8.6 10 14 16.4 21.5 25	2 2.3 2.7 3.6 4.2 5	2.4 2.8 3.4 3.9 4.5 5.6	61 61 61 61 61 61	T8 T10 T15 T20 T25 T30	1.5 2.5 3.3 5.0 7.5 10.0	SRF Type Cutter (☉C137, C138)
	S1 3 4 5	3.5 4.5 5.3 6.8	M2×0.4 M3×0.5 M4×0.7 M5×0.8	5.5 7.7 8 9	2.2 2.4 1.8 2.4	1.5 2 2.5 3	92 92 62 62	— — — —	1.0 1.5 2.2 3.3	
	SD32 40 50 63	12 12 16 16	M8×1.25 M8×1.25 M10×1.5 M10×1.5	28 36 46 61	7.2 7.2 8.2 8.2	6 6 8 8	50 50 50 50	— — — —	9.5 9.5 1.0 1.0	D Type Head Arbor (☉A269, A316, A355)
	SETS51 61	6.8 8	M5×0.8 M6×1	14.8 20	1.5 1.8	3.4 3.9	— —	T15 T20	3.5 5.0	MMTE Type Holder (☉A330) MMTI Type Boring Bar (☉A331) SET Type Holder (☉A340) SNT Type Boring Bar (☉A342) HSK System (☉E022)
	SLCS105 106	10 12	M5×0.8 M6×1	25 32	6.3 6.2	4 4	90 90	— —	7.0 7.0	WP Type Holder (☉A176—A178, A183) M Type Boring Bar (☉A265)

Geometry	Order Number	Dimensions (mm)					Angle θ°	Drive Size	Torque (N·m)	Tool Holder
		a	b	c	d	e				
	SPS1	8.5	M5×0.8	16	4	4.5	70	T25	5.0	
	SRS5	6.7	M5×0.8	16	3.5	3.9	—	T20	5.0	SRE Type Cutter (⊙C124)
	STS1	6.8	M3×0.5	7	2.2	2.8	90	T10	2.5	
	* TS16	2.5	M1.6×0.35	3.2	1.6	1.8	60	T6	0.5	SP Type Holder (⊙A184—A189, A191) SMALL TOOLS (⊙A206—A208, A222) DIMPLE BAR (⊙A235—A241) MICRO-DEX (⊙A245, A246) F Type Boring Bar (⊙A253, A310, A350) S Type Boring Bar (⊙A254—A260) MMTI Type Boring Bar (⊙A331) SNT Type Boring Bar (⊙A342) ROTATING TOOLS (⊙C068, C076, C077, C080, C081, C083, C085, C086, C100, C101, C104, C105, C107—C109, C114, C116—C118, C124, C129, C130, C132, C140, C141, C144, C146—C148, C154) TAF Drill (⊙D082—D088) HSK System (⊙E011)
	2	2.7	M2×0.4	4.6	1.4	1.8	60	T6	0.5	
	* 2A	2.7	M2×0.4	4.5	1.2	1.8	60	T6	0.5	
	2C	2.7	M2×0.4	3.8	1.4	1.8	60	T6	0.5	
	☆ 2D	3.8	M2×0.4	5.3	1.9	1.8	82	T6	0.5	
	21	2.7	M2×0.4	3.4	1.4	1.8	60	T6	0.5	
	* 22	3.0	M2.2×0.45	5	1.2	1.8	60	T6	0.5	
	* 25	3.3	M2.5×0.45	5.5	1.7	2.4	60	T8	1.0	
	☆ 25D	4.4	M2.5×0.45	6.2	2.2	2.4	82	T8	1.0	
	* 25H	3.6	M2.5×0.45	5.5	2	2.4	60	T8	1.0	
	202	2.7	M2×0.4	5.5	1.8	1.8	60	T6	0.5	
	253	3.3	M2.5×0.45	4.5	1.7	2.4	60	T8	1.0	
	254	3.3	M2.5×0.45	7	1.7	2.4	60	T8	1.0	
	* 255	3.5	M2.5×0.45	7.5	1.6	2.4	60	T8	1.0	
	3	3.9	M3×0.5	6	2	2.4	60	T8	1.0	
	3D	5.0	M3×0.5	6	2.3	2.8	82	T10	2.5	
	31D	4.8	M3×0.5	7.2	2.2	2.8	82	T10	2.5	
	* 32	3.9	M3×0.5	7.5	2	2.4	60	T8	1.0	
	* 33	3.9	M3×0.5	6.7	2	2.4	60	T8	1.0	
	35	4.8	M3.5×0.6	6.5	2.4	2.8	60	T10	2.5	
	* 35D	5.3	M3.5×0.6	12	2.8	3.4	60	T15	3.5	
	351	4.8	M3.5×0.6	7.2	2.4	2.8	60	T10	2.5	
	4S	5.4	M4×0.7	7	2.4	3.4	80	T15	3.5	
	* 4SB	5.8	M4×0.7	9	2.7	3.4	80	T15	3.5	
	* 4SBL	5.8	M4×0.7	10.5	2.7	3.4	80	T15	3.5	
	* 4SL	5.4	M4×0.7	8	2.4	3.4	80	T15	4.0	
	4	5.4	M4×0.7	8	2.6	3.4	60	T15	3.5	
	4D	5.6	M4×0.7	7.7	2.5	3.4	82	T15	3.5	
	42	5.4	M4×0.7	6	2.6	3.4	60	T15	3.5	
	43	5.4	M4×0.7	10	2.6	3.4	60	T15	3.5	
	44	5.4	M4×0.7	12	2.6	3.4	60	T15	3.5	
406	5.4	M4×0.7	15.5	2.6	3.4	60	T15	3.5		
407	5.4	M4×0.7	9	2.6	3.4	60	T15	3.5		
5S	6.8	M5×0.8	9	2.9	4.5	80	T25	7.5		
* 5SL	6.8	M5×0.8	12	2.9	4.5	80	T25	7.5		
5	6.8	M5×0.8	9	3.2	4.5	60	T25	7.5		
5L	6.8	M5×0.8	15	2.9	4.5	80	T25	7.5		
52	6.8	M5×0.8	8	3.2	4.5	60	T25	7.5		
53	6.8	M5×0.8	16	3.2	4.5	60	T25	7.5		
54	6.8	M5×0.8	12	3.2	4.5	60	T25	7.5		
55	6.8	M5×0.8	10.5	3.2	4.5	60	T25	7.5		
* 6S	8.5	M6×1.0	13	4.4	5.6	60	T30	10.0		
* 6	8.5	M6×1.0	16	4.4	5.6	60	T30	10.0		



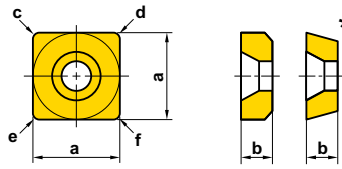
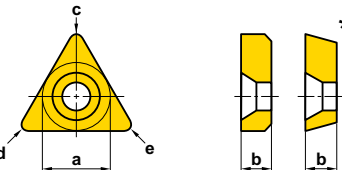
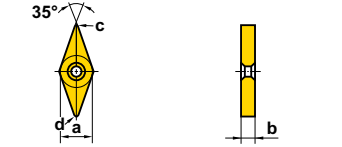
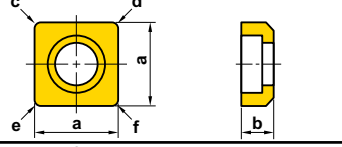
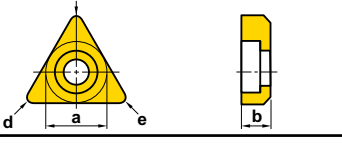
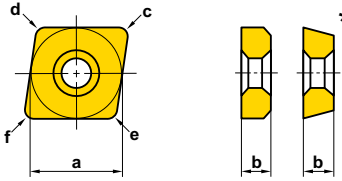
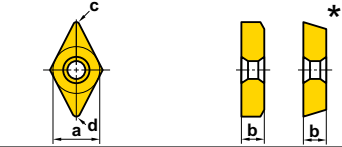
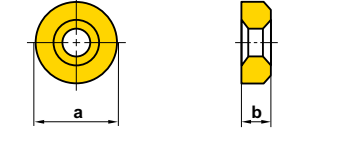
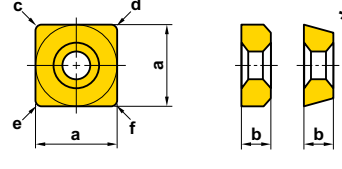
SPARE PARTS

CLAMP SCREW

Geometry	Order Number	Dimensions (mm)					Angle θ°	Drive Size	Torque (N·m)	Tool Holder
		a	b	c	d	e				
	TPS20	2.7	M2×0.4	3.5	1.3	1.8	60	6IP	0.5	ASX445 Type Cutter (C057) ASX400 Type Cutter (C073) APX3000 Type Cutter (C088—C091) APX4000 Type Cutter (C094—C097) PMR Type Cutter (C152)
	22	3.0	M2.2×0.45	4.7	1.6	2.1	60	7IP	0.5	
	22S	3.0	M2.2×0.45	4.2	1.6	2.1	60	7IP	0.5	
	25	3.3	M2.5×0.45	5.5	1.7	2.1	60	7IP	1.0	
	25-1	3.3	M2.5×0.45	6.5	1.7	2.1	60	7IP	1.0	
	35	5.3	M3.5×0.6	11.5	2.8	3.4	60	15IP	3.5	
	4	5	M4×0.7	8	2.6	3.4	60	15IP	3.5	
	43	5	M4×0.7	10	2.6	3.4	60	15IP	3.5	
	TSS04005	M4×0.7	—	5	—	2.4	—	T8	—	PMF Type Cutter (C154)
	05006	M5×0.8	—	6	—	2.8	—	T10	—	
	06010	M6×1	—	10	—	3.9	—	T20	—	
	WCS503507H	6.3	M5×0.5	7	3.3	3.5	—	—	6.5	ASX445 Type Cutter (C057) ASX400 Type Cutter (C073) PMR Type Cutter (C152)
	604010H	7.8	M6×0.75	10	4.1	4.0	—	—	7.0	
	WS1	8.5	M5×0.8	19	5	4.5	—	T25	7.5	
	WS254012T	4	M2.5×0.45	11.5	2.2	2.4	80	T8	2.0	TAW Drill (D070—D075, D081)
	254013T	4	M2.5×0.45	12.5	2.2	2.4	80	T8	2.0	
	254014T	4	M2.5×0.45	13.5	2.2	2.4	80	T8	2.0	
	254015T	4	M2.5×0.45	14.5	2.2	2.4	80	T8	2.0	
	254016T	4	M2.5×0.45	15.5	2.2	2.4	80	T8	2.0	
	304517T	4.5	M3×0.5	16.5	3.4	2.8	60	T10	3.5	
	304518T	4.5	M3×0.5	17.5	3.4	2.8	60	T10	3.5	
	355520T	5.5	M3.5×0.6	19.5	3.9	3.4	60	T15	5.5	
	355521T	5.5	M3.5×0.6	20.5	3.9	3.4	60	T15	5.5	
	406023T	6	M4×0.7	22.0	4.4	4.5	60	T25	8.5	
	406024T	6	M4×0.7	23.0	4.4	4.5	60	T25	8.5	
	508026T	8	M5×0.8	25.0	5.2	5.1	60	T27	12.0	
508027T	8	M5×0.8	26.0	5.2	5.1	60	T27	12.0		

Geometry	Order Number	Dimensions (mm)						Torque (N·m)	Tool Holder
		a	a'	b	c	d	e		
	HDS08030	M8×0.75	M8×1.25	30	13.5	11.5	4	8.2	BRP Type Cutter (C129) OCTACUT Type Cutter (C126) PMF Type Cutter (C154)
	HDS10031	M10×1.0	M10×1.5	31	14	12	5	9.0	

SHIM

Geometry	Order Number	Dimensions (mm)						Tool Holder
		a	b	c	d	e	f	
	CS32	9.52	3.18	0.8	0.8	1.2	1.2	
	42	12.70	3.18	0.8	0.8	1.2	1.6	
	43	12.70	4.76	0.8	0.8	1.2	1.6	
	62	19.05	3.18	1.2	1.2	1.6	1.6	
	* PS31	8.28	2.38	0.2	0.2	0.6	0.6	
	* 42	11.46	3.18	0.2	0.2	0.6	1.0	
* 62	17.20	3.18	0.3	0.3	0.7	0.7		
	CT22	6.35	3.18	0.4	0.8	1.2	—	
	32	9.52	3.18	0.4	0.8	1.2	—	
	33	9.52	4.76	0.4	0.8	1.2	—	
	42	12.70	3.18	0.4	0.8	1.2	—	
	* PT21	5.11	2.38	0.2	0.2	0.6	—	
	* 32	8.28	3.18	0.2	0.2	0.6	—	
* 42	10.85	3.18	0.3	0.3	0.7	—		
BPT322	7.8	3.18	—	—	—	—		
	DCSVN32	9.52	3.18	0.8	1.2	—	—	DOUBLE CLAMP Holder (☉ A179–A181) DOUBLE CLAMP DIMPLE BAR (☉ A244)
	ESS42	12.70	3.18	0.8	0.8	1.2	1.6	ML Type Holder (☉ A171)
	EST32	9.52	3.18	0.4	0.8	1.2	—	ML Type Holder (☉ A175, A177–A179)
	43	12.70	4.76	0.4	0.8	1.2	—	
	LLSCN3T3	9.52	3.97	0.4	0.4	0.8	0.8	DOUBLE CLAMP Holder (☉ A268) LL Type Holder (☉ A168, A169) DOUBLE CLAMP DIMPLE BAR (☉ A242) P Type Boring Bar (☉ A262) D Type Boring Head (☉ A268) HSK System (☉ E004)
	33	9.52	4.76	0.4	0.4	0.8	0.8	
	42	12.70	3.18	0.8	0.8	1.2	1.2	
	53	15.87	4.76	1.2	1.2	1.6	1.6	
	63	19.05	4.76	1.2	1.2	1.6	1.6	
	* LLSCP42	12.70	3.18	0.8	0.8	1.2	1.2	
* 63	19.05	4.76	1.2	1.2	1.6	1.6		
	LLSDN32	9.52	3.18	0.8	1.2	—	—	DOUBLE CLAMP Holder (☉ A170) LL Type Holder (☉ A170, A171) DOUBLE CLAMP DIMPLE BAR (☉ A242) P Type Boring Bar (☉ A262–A264) D Type Boring Head (☉ A267, A268) HSK System (☉ E007)
	42	12.70	3.18	0.8	1.2	—	—	
	43	12.70	4.76	0.8	1.2	—	—	
	53	15.87	4.76	1.2	1.6	—	—	
	* LLSDP42	12.70	3.18	0.8	1.2	—	—	
	LLSRN103	8.3	3.18	—	—	—	—	LL Type Holder (☉ A190) HSK System (☉ E010)
	123	9.8	3.18	—	—	—	—	
	164	13.6	4.76	—	—	—	—	
	204	17.3	4.76	—	—	—	—	
	256	22.0	6.35	—	—	—	—	
326	28.0	6.35	—	—	—	—		
	LLSSN32	9.52	3.18	0.8	0.8	1.2	1.2	LL Type Holder (☉ A172–A175) DOUBLE CLAMP DIMPLE BAR (☉ A243) P Type Boring Bar (☉ A261)
	33	9.52	4.76	0.8	0.8	1.2	1.2	
	42	12.70	3.18	0.8	0.8	1.2	1.6	
	53	15.87	4.76	1.2	1.2	1.6	1.6	
	63	19.05	4.76	1.2	1.2	1.6	2.0	
	84	25.40	6.35	1.6	1.6	2.4	2.4	
* LLSSP42	12.70	3.18	0.8	0.8	1.2	1.6		



SPARE PARTS

SHIM

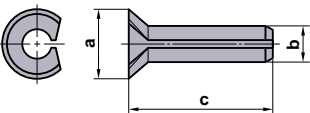
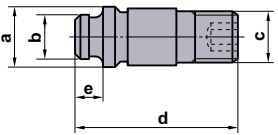
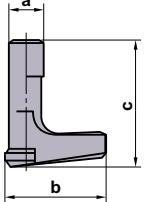
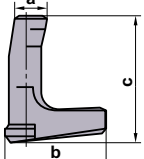
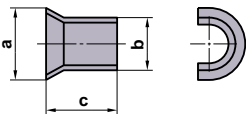
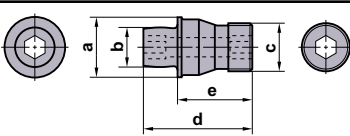
Geometry	Order Number	Dimensions (mm)						Tool Holder
		a	b	c	d	e	f	
	LLSTE32	7.6	3.18	0.4	0.4	0.4	—	LL Type Holder (ⒶA176—A178)
	LLSTN32	9.52	3.18	0.4	0.8	1.2	—	DOUBLE CLAMP Holder (ⒶA177)
	33	9.52	4.76	0.4	0.8	1.2	—	DOUBLE CLAMP DIMPLE BAR (ⒶA243)
	42	12.70	3.18	0.4	0.8	1.2	—	P Type Boring Bar (ⒶA261)
	53	15.87	4.76	0.8	1.2	1.6	—	D Type Boring Head (ⒶA267)
	* LLSTP32	9.52	3.18	0.4	0.8	1.2	—	
	LLSWN32	9.52	3.18	0.4	0.8	1.2	—	LL Type Holder (ⒶA182)
	3T3	9.52	3.97	0.4	0.8	1.2	—	DOUBLE CLAMP Holder (ⒶA182)
	42	12.70	3.18	0.4	0.8	1.2	—	DOUBLE CLAMP DIMPLE BAR (ⒶA244)
	* LLSWP32	9.52	3.18	0.4	0.8	1.2	—	
	* 42	12.70	3.18	0.4	0.8	1.2	—	
	MHS532R/L	9.4	15.7	4.5	0.8	0.8	—	
	533R/L	9.4	15.7	4.5	1.2	1.2	—	
	534R/L	9.4	15.7	4.5	1.6	1.6	—	
	542R/L	9.4	15.7	6.5	0.8	0.8	—	
	543R/L	9.4	15.7	6.5	1.2	1.2	—	
	544R/L	9.4	15.7	6.5	1.6	1.6	—	
	MLCP42	12.58	3.18	1.2	1.2	1.2	1.2	P Type Boring Bar (ⒶA262)
	MLDP42	12.56	3.18	1.2	1.2	—	—	P Type Boring Bar (ⒶA262—A264)
	MLSP42	12.63	3.18	1.2	1.2	1.2	1.2	P Type Boring Bar (ⒶA261)
	MLTP32	9.50	3.18	1.2	1.2	1.2	—	P Type Boring Bar (ⒶA261)
	MSCN63	18.8	4.76	1.6	1.6	1.6	1.6	DOUBLE CLAMP Holder (For Heavy Cutting) (ⒶA169)
	MSSN63	18.8	4.76	1.6	1.6	1.6	1.6	DOUBLE CLAMP Holder (For Heavy Cutting) (ⒶA172—A174)
	CT32T1	9.525	15.03	3.18	—	—	—	SET Type Holder (ⒶA340)
	PT32T1R	8.28	13.34	3.18	—	—	—	SNT Type Boring Bar (ⒶA342)
	32T2R	8.28	13.19	3.18	—	—	—	
	42TR	10.85	17.20	3.18	—	—	—	

Geometry	Order Number	Dimensions (mm)						Tool Holder
		a	b	c	d	e	f	
	PV321	9.52	3.18	0.4	0.4	—	—	MP Type Holder (⊕A180, A181) D Type Boring Head (⊕A269)
	322	9.52	3.18	0.8	0.8	—	—	
	323	9.52	3.18	1.2	1.2	—	—	
	SPSVN32	8.06	3.18	0.3	0.3	—	—	SP Type Holder (⊕A188, A189) HSK Tool Holder (⊕E011)
	SPSCN42	12.7	3.18	—	—	—	—	SP Holder (⊕A184)
	SPSDN32	8.68	3.18	—	—	—	—	SP Holder (⊕A185)
	SPSSN42	12.7	3.18	—	—	—	—	SP Holder (⊕A186)
	SPSTN32	9.52	3.18	—	—	—	—	SP Holder (⊕A187)
	STASX400N	11.00	3.00	0.4	0.4	0.4	0.4	ASX400 Type Cutter (⊕C073)
	STASX445N	10.76	3.00	—	—	—	—	ASX445 Type Cutter (⊕C057)
	STBS500N	12.7	3.18	0.8	0.8	0.8	0.8	
	WPSTN33	9.3	4.76	0.8	0.4	1.2	—	WP Type Holder (⊕A176–A178)
	43	12.50	4.76	0.8	0.4	1.2	—	
	* WPSWC43	12.50	4.76	0.4	0.8	1.2	—	M Type Boring Bar (⊕A265) WP Type Holder (⊕A183)
	WPSWN43	12.50	4.76	0.4	0.8	1.2	—	

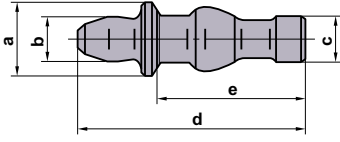
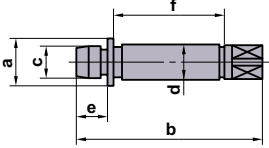
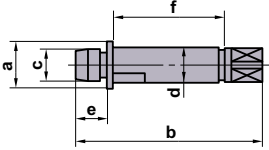


SPARE PARTS

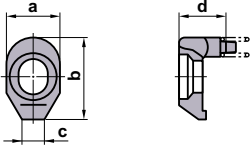
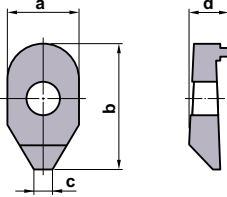
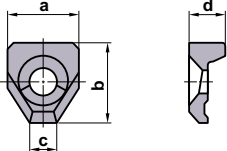
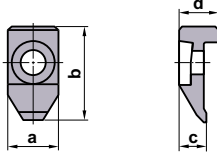
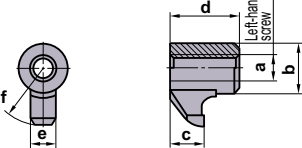
SHIM PIN AND CLAMP LEVER

Geometry	Order Number	Dimensions (mm)					Tool Holder
		a	b	c	d	e	
	BCP141	3.0	1.4	5.6	—	—	SP Type Holder (☉A188, A189) F Type Boring Bar (☉A252) HSK System (☉E011)
	201	4.3	2	7.4	—	—	
	202	4.3	2	6.4	—	—	
	251	4.8	2.5	7.4	—	—	
	252	4.8	2.5	6.4	—	—	
	301	5.3	3	7.4	—	—	
	401	6.3	4	7.4	—	—	
	CCP33	6.5	3.66	M5×0.8	18.5	3	WP Holder (☉A176—A178, A183) M Type Boring Bar (☉A265)
	34	7.5	5.0	M6×1.0	18.5	3	
	44	7.5	5.0	M5×0.8	14.2	3	
	LLCL12S	2.1	9.3	5.6	—	—	LL Type Holder (☉A168—A176, A178, A182) P Type Boring Bar (☉A261—A264) D Type Boring Head (☉A267, A268) KSMG Type Cutter (☉C150) HSK System (☉E004, E005, E007, E008, E010)
	13	3.6	10	12.5	—	—	
	13S	3.6	10	7.8	—	—	
	14	4.7	13.4	13.2	—	—	
	14S	4.7	13.6	12.2	—	—	
	15	6.0	19	17	—	—	
	16	7.5	20.8	21	—	—	
	18	8.6	25.4	25.2	—	—	
	23	3.6	12.0	11.5	—	—	
	23S	3.6	11.6	9.5	—	—	
	24	4.7	16.2	14.8	—	—	
	110	3.0	10.7	11.6	—	—	
	112	3.5	13	13.5	—	—	
	116	4.5	18.5	18	—	—	
	120	5.6	20.3	19	—	—	
	125	6	24	24	—	—	
	132	8	30	27	—	—	
	LLP13	5.55	4.85	5.3	—	—	LL Type Holder (☉A168—A182, A190) DOUBLE CLAMP Holder (☉A168, A170, A177, A179—A182) DOUBLE CLAMP DIMPLE BAR (☉A242—A244) P Type Boring Bar (☉A261—A264) D Type Boring Head (☉A267, A268) KSMG Type Cutter (☉C150) HSK System (☉E004—E010)
	14	7.25	6.55	5.8	—	—	
	15	8.8	8.05	8.6	—	—	
	16	10.85	9.85	11.1	—	—	
	18	15.35	13.05	12.0	—	—	
	23	5.55	4.85	6.8	—	—	
	24	7.25	6.55	9.1	—	—	
	MP6	11.9	7.8	M10×1	22.1	15	DOUBLE CLAMP Holder (For Heavy Cutting) (☉A169, A172, A174)

LOCK PIN

Geometry	Order Number	Dimensions (mm)						Tool Holder
		a	b	c	d	e	f	
	P11S	6	3.7	4	17	11.1	—	MP Type Holder (☉A179—A181) D Type Boring Head (☉A269, A316, A354)
	21S	7.5	4.9	4.5	17.2	11.5	—	
	P221US	4	18	2.11	3.5	3.3	7.7	
	321US	5.5	18	3.64	5.0	3.3	7.5	
	322US	5.5	21	3.64	5.0	3.3	10.5	
	323US	5.5	24	3.64	5.0	3.3	13.5	
	332US	5.5	21	3.64	5.0	4.9	8.9	
	P323WS	5.8	24	3.64	5.0	3.3	12.9	
	333WS	5.8	24	3.64	5.0	4.9	11.3	
	334WS	5.8	30	3.64	5.0	4.9	17.3	
	433W	7.8	24	5.03	7.0	4.9	10.8	
	434W	7.8	30	5.03	7.0	4.9	16.8	

CLAMP BRIDGE

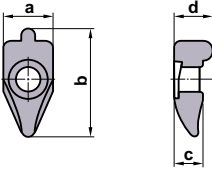
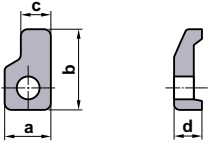
Geometry	Order Number	Dimensions (mm)						Tool Holder
		a	b	c	d	e	f	
	AMS3	7	12	3	3.3	—	—	AJX Type Cutter (☉C114, C116—C118)
	4	9	13.5	3	3.8	—	—	
	5	10	15	3.5	5	—	—	
	CA142	8	15	4	7	—	—	
	150	9	16	4.5	7	—	—	
	151	10	17	5	7	—	—	
	152	10	19	5	7	—	—	
	153	10	24	5	7	—	—	
	161	13	20	6	8	—	—	
	162	13	24	6	8	—	—	
	163	13	27	6	8	—	—	
	181	16	30	8	10	—	—	
183	16	37	8	10	—	—		
	CCK13	15	18.5	6	9	—	—	WP Type Holder (☉A176—A178, A183) M Type Boring Bar (☉A265)
	14	19	22	8	9.5	—	—	
	CCTC1	13	25	7	10.2	—	—	
	CK231	M6×1	8	4	7.5	4.5	9.5	
	232	M6×1	8	4.5	8	4.5	11.5	
	341	M8×1	11	5.5	13.5	6	13.5	
	342	M8×1	11	6	14	6	16.5	

SPARE PARTS

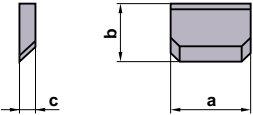
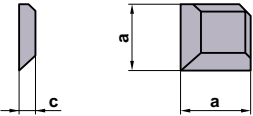
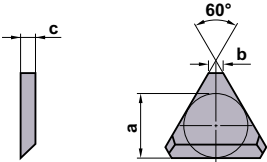
CLAMP BRIDGE

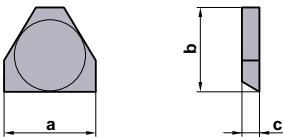
Geometry	Order Number	Dimensions (mm)						Tool Holder
		a	b	c	d	e	f	
	CKW6	10.9	22.5	9.2	16.8	5	M8×1	DOUBLE CLAMP Holder (For Heavy Cutting) (☉A169, A172, A174)
	DCK2211	11	22	6.57	11.1	—	—	DOUBLE CLAMP Holder (☉A168, A170, A177, A179–A182) DOUBLE CLAMP DIMPLE BAR (☉A242–A244)
	2613	13	26.5	7.35	12.9	—	—	
	3113	13	31	9	14.5	—	—	
	DGK2R/L	13.7	26.5	1.2	9	—	—	DG Type Holder (☉A278–A297) HSK System (☉E012–E017)
	3R/L	13.7	26.5	2	9	—	—	
	4R/L	13.7	26.5	3	9	—	—	
	5R/L	13.7	26.5	4	9	—	—	
	6R/L	13.7	26.5	5	9	—	—	
	7R/L	13.7	26.5	6	9	—	—	
	KGC1	12.0	15.0	M7×0.75	—	—	—	UG Type Holder (☉A300)
	LK1	8	14.3	4.5	5.9	—	—	F Type Boring Bar (☉A312, A352)
	MHK5NR/L	15.5	23.5	8.1	12.1	—	—	
	MTK1R/L	13	17.5	5	12	—	—	MG1 Type Holder (☉A303) MG Type Holder (☉A304) MT Type Holder (☉A344) MT1 Type Holder (☉A344) HSK System (☉E020, E023)
	MTK2R/L	18	28	7	14	—	—	
	SETK51	6.8	14.5	2.9	8	—	—	MMTE Type Holder (☉A330) MMTI Type Holder (☉A331) SET Type Holder (☉A340) SNT Type Holder (☉A342) HSK System (☉E022)
	61	8.9	18.1	4.1	8.6	—	—	

CLAMP BRIDGE

Geometry	Order Number	Dimensions (mm)				Tool Holder
		a	b	c	d	
	SRK1R	9.4	21	5.5	7.5	SRE Type Cutter (C124)
	UCR	12	24	8	7	

BREAKER PIECE

Geometry	Order Number	Dimensions (mm)					Tool Holder
		a	b	c	Inscribed Circle	Breaker Width	
	CBS3	9.4	8.0	1.5	9.525	1.5	
	4	12.6	9.2	2.5	12.70	3.5	
	4N	12.6	10.2	2.5	12.70	2.5	
	4F	12.6	11.2	2.5	12.70	1.5	
	6	18.9	14.6	2.5	19.05	4.5	
	6N	18.9	16.6	2.5	19.05	2.5	
	CBS3D	8.0	—	1.5	9.525	1.5	
	4D	10.2	—	2.5	12.70	2.5	
	6D	15.6	—	2.5	19.05	3.5	
	CBT2	5.33	1.4	1.5	6.35	1.5	F Type Boring Bar (A252) *For positive inserts, the breaker width is 0.5mm larger than the figures in the list.
	2N	5.67	1.4	1.5	6.35	1.0	
	3	7.20	1.4	2.5	9.525	3.5	
	3N	7.87	1.4	2.5	9.525	2.5	
	3F	8.53	1.4	2.5	9.525	1.5	
	4	9.73	1.4	2.5	12.70	4.5	
	4N	11.07	1.4	2.5	12.70	2.5	
4F	11.73	1.4	2.5	12.70	1.5		

Geometry	Order Number	Dimensions (mm)			Thread Pitch (mm)	Tool Holder
		a	b	c		
	CBT3106	11.5	10.6	2.0	2.5–3.0	
	3113	11.5	11.3	2.0	1.5–2.0	
	3120	11.5	12	2.0	0.75–1.25	
	4108	13.3	10.8	2.0	3.5–4.0	
	4128	13.3	12.8	2.0	4.5–5.0	



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Shape	Order Number	Stock	Volume (g)
	MK1K	★	20
	MK1KS	★	3

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SPARE PARTS