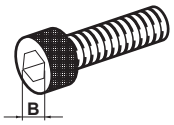
SPARE PARTS

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◌
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

Hexagonal Hole Dimensions

Symbol	Geometry
H	⬡

With Slot

Symbol	Geometry
S	⊖

With Cross Hole

Symbol	Geometry
C	✚

Screw Head

BH / BHA	CHUUBURASHI CO. / UNBRAKO CO.	Button Head
FC	CHUUBURASHI CO.	Flat Head
SC	JIS Standard	Socket Head
PM	JIS Standard	Pan Head
FM	JIS Standard	Flat Head
SD	JIS Standard	Set Screw (Cut Point)
SP	JIS Standard	Set Screw (Cone Point)
SR	JIS Standard	Set Screw (Dog Point)
SS	JIS Standard	Set Screw (Flat Point)

IDENTIFICATION OF WRENCH

HKY **15** **R**

Symbol	Wrench
HKY	Hexagonal Wrench
TKY	Torx Wrench
TIP	Torx plus®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

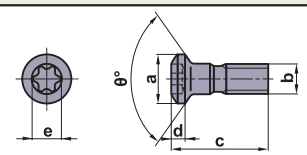
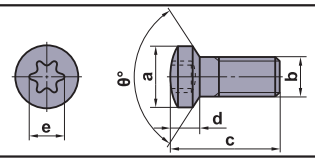
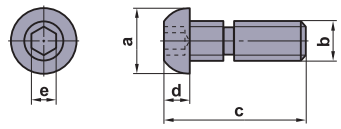
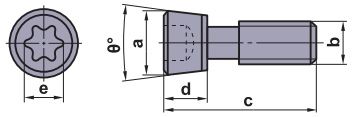
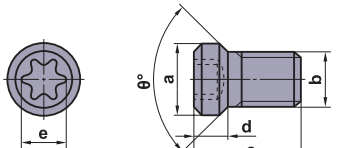
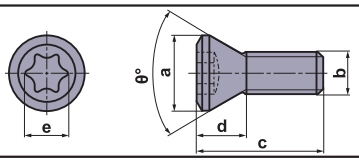
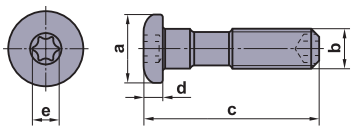
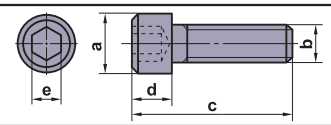
Torx plus®Wrench

Symbol	Size
06	6IP
07	7IP
08	8IP
15	15IP

R	Standard L Wrench
L	Long L Wrench
T	T Wrench
F FS	Flag Wrench
W	Flag Wrench
D	Driver

SPARE PARTS

CLAMP SCREW

Geometry	Order Number	Dimensions (mm) a	b	c	d	e	Angle θ°	Drive Size	Torque (N•m)	Tool Holder
	**AJS3010T10**	5	M3×0.5	10	1.5	2.8	120	T10	2.5	**Profile** Holder
	4012T15	7	M4×0.7	12	2.2	3.4	120	T15	3.5	**AJX** Type Cutter
	5014T25	8	M5×0.8	14	2.7	4.5	120	T25	7.5	
	**BRS103**	5	M3×0.5	9.9	2.9	3.4	120	T15	3.5	**BRE** Type Cutter
	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
	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 Cutter
	**CS200T**	3.2	M2×0.4	5	1.6	1.8	90	T6	0.6	**AL** Holder
	250T	3.7	M2.5×0.45	6	1.8	2.4	90	T8	1.0	**F** Type Boring Bar
	* **250560T**	3.9	M2.5×0.45	5.2	2.5	2.4	60	T8	1.0	**MMTI** Type Boring Bar
	300590T	4.1	M3×0.5	5.5	2.1	2.4	90	T8	1.0	**SNT** Type Boring Bar
	300790TS	4.7	M3×0.5	7	2.3	2.8	90	T10	2.0	**Milling Tools** Series
	300890T	4.1	M3×0.5	8	2.1	2.4	90	T8	1.0	**AHX640S** Type Cutter
	* **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	
	5015060T	7.2	M5×0.8	15	2.4	3.9	60	T20	5.0	
	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	**PMR** Type Cutter
	**DC0520T**	8.5	M5×0.8	22.5	2.5	3.4	—	T15	3.5	**DOUBLE CLAMP** Holder
	0621T	10.5	M6×1.0	25	4	3.9	—	T20	5.0	**DOUBLE CLAMP DIMPLE BAR**
										HSK Tool Holder
	**DKS4**	5.6	M4×0.7	18	3.5	3	—	—	3.3	
	5	7.6	M5×0.8	19	4.5	4	—	—	7.0	

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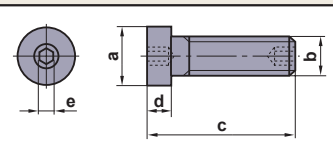
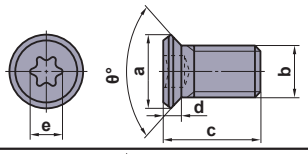
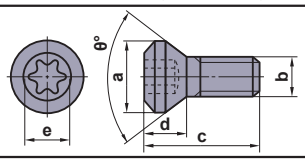
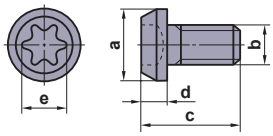
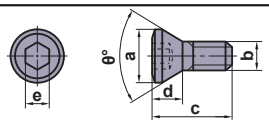
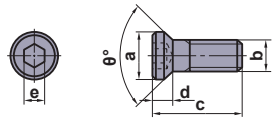
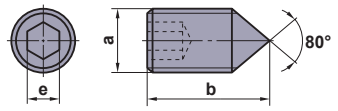
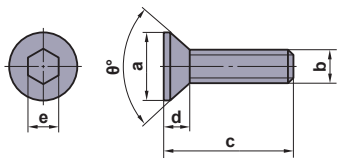
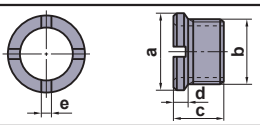
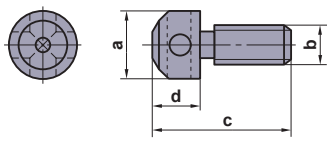
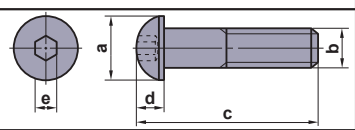
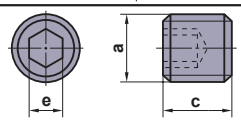
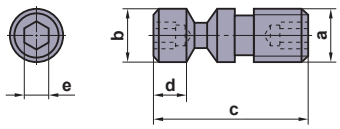
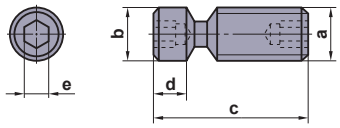
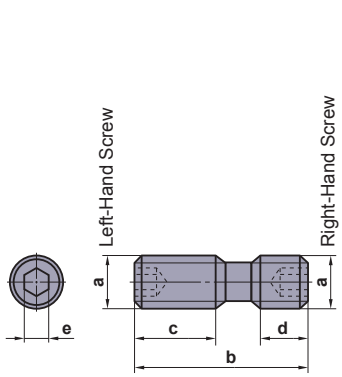
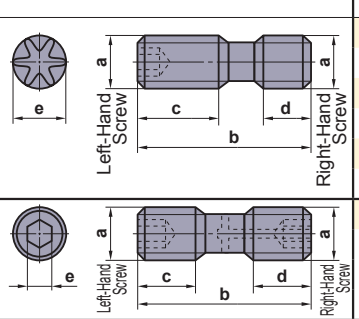
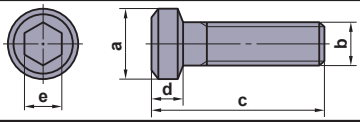
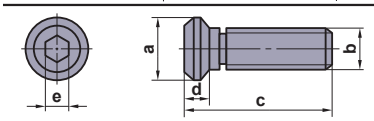
CLAMP SCREW

Geometry	Order Number	Dimensions (mm) a	b	c	d	e	Angle θ°	Drive Size	Torque (N•m)	Tool Holder
	**EGS06019**	9	M6×1	22.5	3.5	3	—	—	3.3	
	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 **AL** Type Boring Bar **SMG** Type Holder
	**GY05016S**	8.7	M5×0.8	16	3.5	3.9	90	T20	4.5	**GY** Series
	**GY06013M**	12	M6×1	18	5	5.6	—	T30	6.0	**GY** Series
	**HFF06015**	10	M6×1	15	6	5	80	—	8.2	
	**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
	**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	—	—	—	
	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	
	**LLR1**	M5×0.8	—	3.5	—	2.5	—	—	—	
	2	M6×1	—	5	—	3	—	—	—	

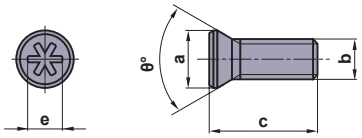
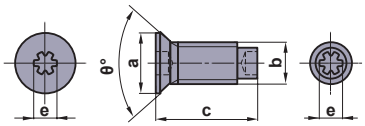
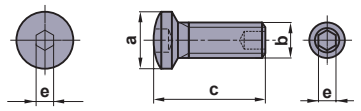
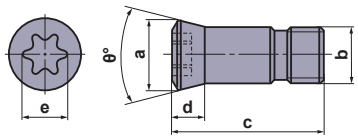
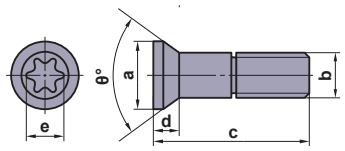
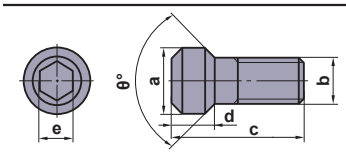
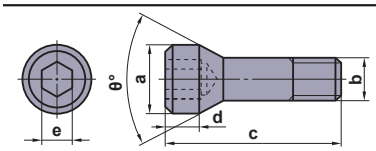
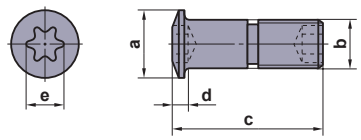
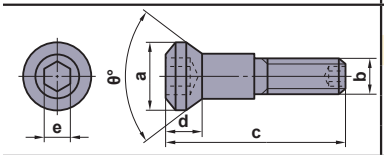
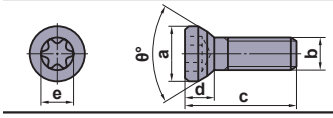
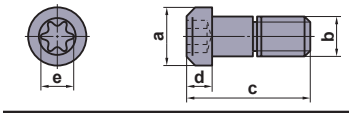
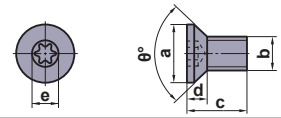
Geometry	Order Number	Dimensions (mm) a	b	c	d	e	Angle θ°	Drive Size	Torque (N•m)	Tool Holder
	☆**LLCS103**	M3×0.5	4	11	4.6	2	—	—	1.5	**LL** Type Holder
	* **105**	M5×0.8	M5×0.8	10	1.5	2	—	—	1.5	**P** Type Boring Bar
	105	M5×0.8	M5×0.8	10	1.5	2	—	—	1.0	**P** Type Boring Bar
	106	M6×1	6	16.5	3.5	2.5	—	—	2.2	**HSK** Tool Holder
	* **106S**	M6×1	6	13.4	0.7	2.5	—	—	2.2	**KSMG** Type Cutter
	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	M5×0.8	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	
LLCS103, LLCS105 **LLCS125, LLCS205**	**208**	M8×1.25	8	24	6.5	3	—	—	3.3	
	306	M6×1	6	21	4	2.5	—	—	2.2	
The products with "*" do not have a hexagonal hole at the end marked **b**.	**308**	M8×1.25	8	42	27.5	3	—	—	3.3	
	310	M10×1	10	29	8	4	—	—	7.0	
The products with "☆" do not have a hexagonal hole at the end marked **a**.	**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	
	LS1	M6×1	22	8	8	3	—	—	5.0	**DOUBLE CLAMP** Holder (For Heavy Cutting)
	2	M8×1	29	13	10	4	—	—	8.2	
	3	M8×1	32	13	13	4	—	—	8.2	**UG** Type Holder
	* **4**	M6×1	15	8	4	3	—	—	5.0	**ROTATING TOOLS**
	* **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	28.5	12.0	10.5	4	—	—	8.2	
	**LS10T**	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	
	0622T	M6×0.75	22	8	8	3.4	—	T15	6.0	
	**LS24H**	M8×1.25	24	8.5	8.5	4	—	—	8.2	**APX3000** Type Cutter
	**MGS6**	10	M6×1	26	4	5	—	—	9.0	
	**MHT1**	11	M8×1	18.5	3.5	4	—	—	8.7	

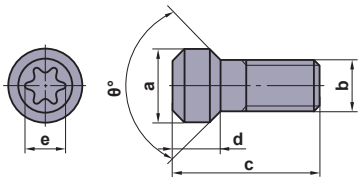
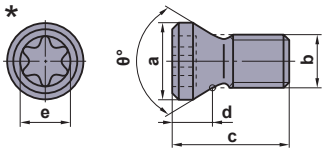
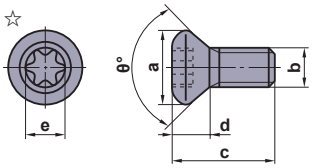
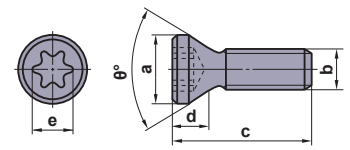
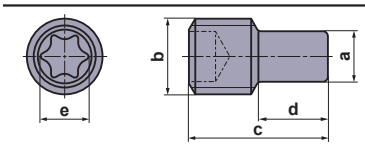
*Without Hexagonal Hole on Right-Hand Screw

SPARE PARTS

SPARE PARTS

CLAMP SCREW

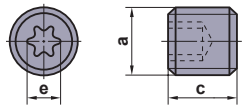
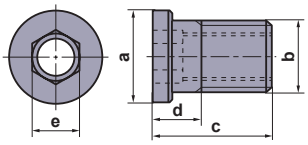
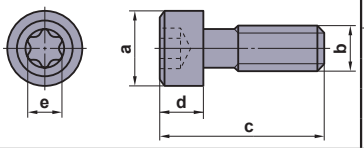
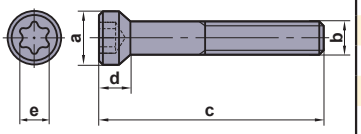
Geometry	Order Number	Dimensions (mm) a	b	c	d	e	Angle θ°	Drive Size	Torque (N•m)	Tool Holder
	**NS251**	3.6	M2.5×0.45	7	—	2.2	60	—	0.7	**SMALL TOOLS**
	401	5.8	M4×0.7	6	—	3.6	60	—	3.5	
	**NS402W**	5.85	M4×0.7	10	—	2.2	60	—	0.7	**SMALL TOOLS**
	403W	5.85	M4×0.7	12	—	2.2	60	—	0.7	
	404W	5.8	M4×0.7	10	—	2.2	90	—	0.7	
	**NS501W**	8	M5×0.8	16	—	2.5	120	—	2.2	**SMALL TOOLS**
	502W	8	M5×0.8	20	—	2.5	120	—	2.2	
	**RN-S4S**	5.8	M4×0.5	8.4	2.5	3.4	61	T15	3.5	
	-S4M	5.8	M4×0.5	10	2.2	3.4	61	T15	3.5	
	-S4	5.8	M4×0.5	12.5	2.2	3.4	61	T15	3.5	
	-S5	8.1	M5×0.5	15.4	3.6	3.9	61	T20	5.0	
	-S6	9.5	M6×0.75	20.3	4.6	3.9	61	T20	5.0	
	-S7	11	M7×0.75	24.7	5.2	4.5	61	T25	7.5	
	**RS3008T**	4.3	M3×0.35	8.6	2	2.4	61	T8	1.5	**SRF** Type Cutter
	3510T	5	M3.5×0.35	10	2.3	2.8	61	T10	2.5	
	4015T	6	M4×0.5	14	2.7	3.4	61	T15	3.3	
	5020T	8.1	M5×0.5	16.4	3.6	3.9	61	T20	5.0	
	6025T	9.5	M6×0.75	21.5	4.2	4.5	61	T25	7.5	
	8030T	12	M8×0.75	25	5	5.6	61	T30	10.0	
	**S1**	3.5	M2×0.4	5.5	2.2	1.5	92	—	1.0	
	3	4.5	M3×0.5	7.7	2.4	2	92	—	1.5	
	4	5.3	M4×0.7	8	1.8	2.5	62	—	2.2	
	5	6.8	M5×0.8	9	2.4	3	62	—	3.3	
	**SD32**	12	M8×1.25	28	7.2	6	50	—	9.5	**D** Type Head Arbor
	40	12	M8×1.25	36	7.2	6	50	—	9.5	
	50	16	M10×1.5	46	8.2	8	50	—	1.0	
	63	16	M10×1.5	61	8.2	8	50	—	1.0	
	**SETS51**	6.8	M5×0.8	14.8	1.5	3.4	—	T15	3.5	**MMTE** Type Holder
	61	8	M6×1	20	1.8	3.9	—	T20	5.0	**MMTI** Type Boring Bar
										SET Type Holder
										HSK Tool Holder
	**SLCS105**	10	M5×0.8	25	6.3	4	90	—	7.0	**WP** Type Holder
	106	12	M6×1	32	6.2	4	90	—	7.0	**M** Type Boring Bar
	**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
	**STS1**	6.8	M3×0.5	7	2.2	2.8	90	T10	2.5	

Geometry	Order Number	Dimensions (mm) a	b	c	d	e	Angle θ°	Drive Size	Torque (N•m)	Tool Holder
	* TS16	2.5	M1.6×0.35	3.2	1.6	1.8	60	T6	0.6	**SP** Type Holder
	2	2.7	M2×0.4	4.6	1.4	1.8	60	T6	0.6	**Profile Holder**
	* 2A	2.7	M2×0.4	4.5	1.2	1.8	60	T6	0.6	**SMALL TOOLS**
	2C	2.7	M2×0.4	3.8	1.4	1.8	60	T6	0.6	**DIMPLE BAR**
	☆ 2D	3.8	M2×0.4	5.3	1.9	1.8	82	T6	0.6	**MICRO-DEX**
	21	2.7	M2×0.4	3.4	1.4	1.8	60	T6	0.6	**F** Type Boring Bar
	* 22	3.0	M2.2×0.45	5	1.2	1.8	60	T6	0.6	**S** Type Boring Bar
	* 25	3.3	M2.5×0.45	5.5	1.7	2.4	60	T8	1.0	**GY** SERIES
	☆ 25D	4.4	M2.5×0.45	6.2	2.2	2.4	82	T8	1.0	**MMTI** Type Boring Bar
	* 25H	3.6	M2.5×0.45	5.5	2	2.4	60	T8	1.0	**HSK** Tool Holder
	202	2.7	M2×0.4	5.5	1.8	1.8	60	T6	0.6	**ROTATING TOOLS**
	253	3.3	M2.5×0.45	4.5	1.7	2.4	60	T8	1.0	**TAF** Drill
	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	
	* 3SB	4.4	M3×0.5	8	2	2.4	80	T8	1.5	
	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	
	* 4SL	5.4	M4×0.7	8	2.4	3.4	80	T15	4.0	
	* 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	
☆ 	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	
	450	5.9	M4.5×0.75	13	3.6	3.9	60	T20	5.0	
	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	
	TPS20	2.7	M2×0.4	3.5	1.3	1.8	60	6IP	0.6	**ASX445** Type Cutter
	22	3.0	M2.2×0.45	4.7	1.6	2.1	60	7IP	0.6	**ASX400** Type Cutter
	22S	3.0	M2.2×0.45	4.2	1.6	2.1	60	7IP	0.6	**APX3000** Type Cutter
	25	3.3	M2.5×0.45	5.5	1.7	2.1	60	7IP	1.0	**APX4000** Type Cutter
	25-1	3.3	M2.5×0.45	6.5	1.7	2.1	60	7IP	1.0	**ARX** Type Cutter
	35	5.3	M3.5×0.6	11.5	2.8	3.4	60	15IP	3.5	**PMR** Type Cutter
	4	5.3	M4×0.7	8	2.6	3.4	60	15IP	3.5	
	43	5.3	M4×0.7	10	2.6	3.4	60	15IP	3.5	
	TSR05008S	3.5	M5×0.8	8	—	2.8	—	T10	—	CHAMFER RING
	06011S	4	M6×1.0	11	—	3.9	—	T20	—	

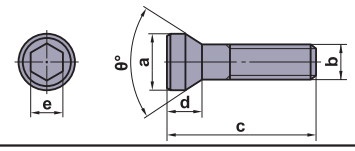
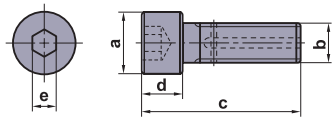
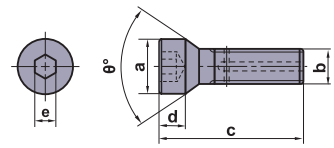
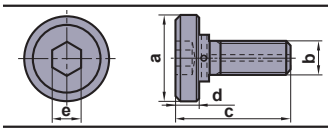
SPARE PARTS

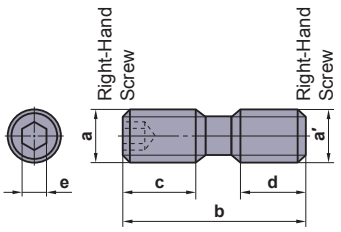
SPARE PARTS

CLAMP SCREW

Geometry	Order Number	Dimensions (mm) a	b	c	d	e	Angle θ°	Drive Size	Torque (N•m)	Tool Holder
	**TSS04005**	M4×0.7	—	5	—	2.4	—	T8	—	**PMF** Type Cutter
	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	—	—	5.0	**ASX445** Type Cutter
	604010H	7.8	M6×0.75	10	4.1	4.0	—	—	7.0	**ASX400** Type Cutter
										PMR Type Cutter
	**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
	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	

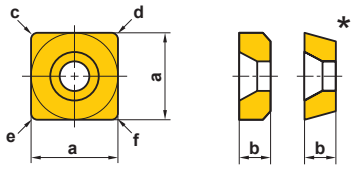
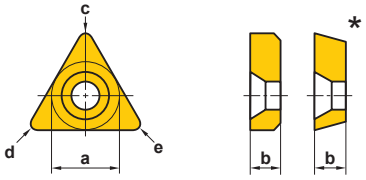
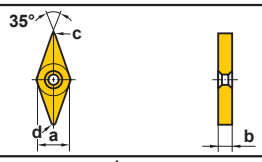
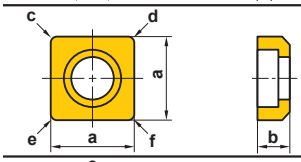
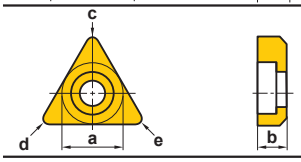
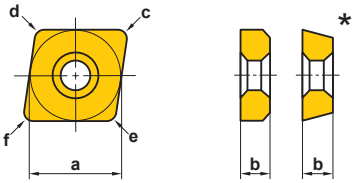
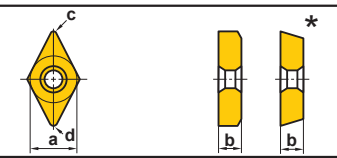
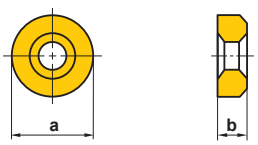
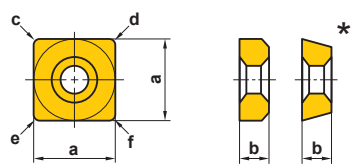
SET BOLT

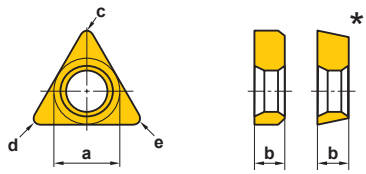
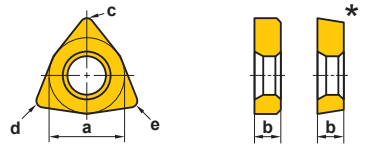
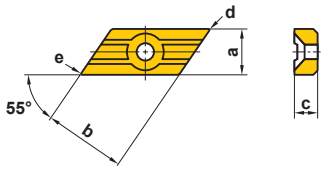
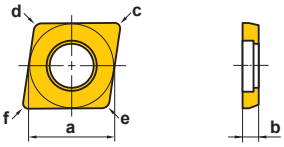
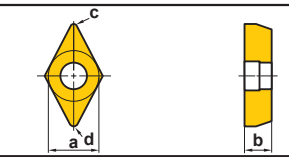
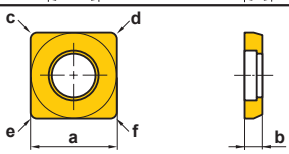
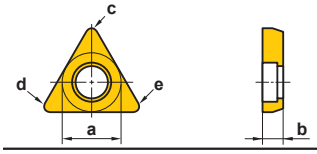
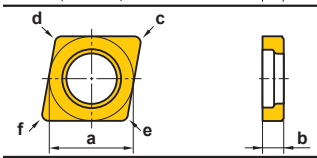
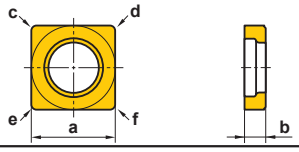
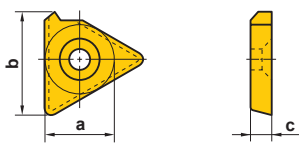
Geometry	Order Number	Dimensions (mm) a	b	c	d	e	Angle θ°	Drive Size	Torque (N•m)	Tool Holder
	**BOES101**	15	M10×1.5	45	10	8	60	—	10.0	**OCTACUT** Type Cutter
	**HSC08030H**	13	M8×1.25	38	8	5	—	—	24	**APX3000/4000** Type Cutter **AJX** Type Cutter
	08040	13	M8×1.25	48	8	5	—	—	24	**APX4000** Type Cutter
	08050	13	M8×1.25	58	8	5	—	—	24	**AXD4000** Type Cutter
	10030H	16	M10×1.5	40	10	6	—	—	40	**AXD7000** Type Cutter
	10035	16	M10×1.5	45	10	6	—	—	40	**APX3000/4000** Type Cutter **AJX** Type Cutter
	10045	16	M10×1.5	55	10	6	—	—	40	**BXD** Type Cutter
	10055	16	M10×1.5	65	10	6	—	—	40	**VFX5/6** Type Cutter
	12035	18	M12×1.75	47	12	10	—	—	80	
	12035H	18	M12×1.75	47	12	10	—	—	80	**APX3000/4000** Type Cutter **AJX** Type Cutter
	12045	18	M12×1.75	57	12	10	—	—	80	
	12070	18	M12×1.75	82	12	10	—	—	80	
	16040	24	M16×2	56	16	14	—	—	150	
	16040H	24	M16×2	56	16	14	—	—	150	**APX3000/4000** Type Cutter **AJX** Type Cutter
	16080	24	M16×2	96	16	14	—	—	150	
	20040	30	M20×2.5	60	20	17	—	—	320	
	20090	30	M20×2.5	110	20	17	—	—	320	
	**HFF08043H**	11	M8×1.25	43	5	5	90	—	8.2	**AXD4000** Type Cutter **BXD** Type Cutter
	**MBA16033H**	40	M16×2	43	10	14	—	—	150	**AHX640** Type Cutter (For ϕ100) **APX4000** Type Cutter **AXD4000** Type Cutter **AXD7000** Type Cutter **AJX** Type Cutter **BXD** Type Cutter
	20040H	50	M20×2.5	54	14	17	—	—	320	
	24045H	65	M24×3	59	14	17	—	—	520	

Geometry	Order Number	Dimensions (mm) a	a′	b	c	d	e	Torque (N•m)	Tool Holder
	**HDS08030**	M8×0.75	M8×1.25	30	13.5	11.5	4	8.2	**BRP** Type Cutter
	10031	M10×1.0	M10×1.5	31	14	12	5	9.0	**OCTACUT** Type Cutter **PMF** Type Cutter

SPARE PARTS

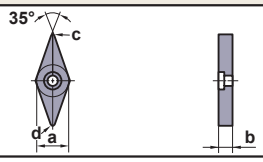
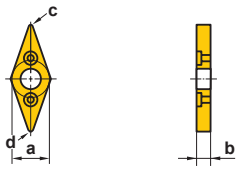
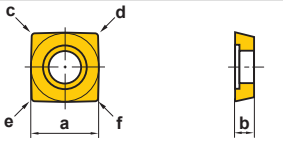
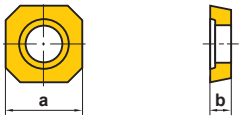
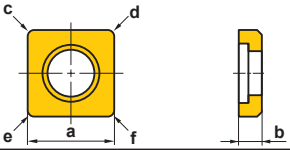
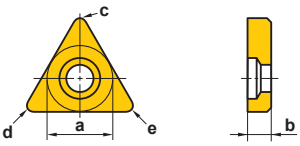
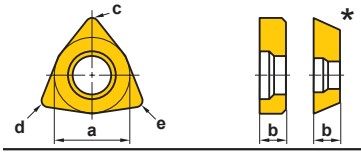
SHIM

Geometry	Order Number	Dimensions (mm) a	b	c	d	e	f	Tool Holder
	**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	—	**F** Type Boring Bar
	* **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 **DOUBLE CLAMP DIMPLE BAR**
	**ESS42**	12.70	3.18	0.8	0.8	1.2	1.6	**ML** Type Holder
	**EST32**	9.52	3.18	0.4	0.8	1.2	—	**ML** Type Holder
	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
	33	9.52	4.76	0.4	0.4	0.8	0.8	**LL** Type Holder
	42	12.70	3.18	0.8	0.8	1.2	1.2	**DOUBLE CLAMP DIMPLE BAR**
	53	15.87	4.76	1.2	1.2	1.6	1.6	**P** Type Boring Bar
	63	19.05	4.76	1.2	1.2	1.6	1.6	**HSK** Tool Holder
	* **LLSCP42**	12.70	3.18	0.8	0.8	1.2	1.2	**DOUBLE CLAMP DIMPLE BAR**
	* **63**	19.05	4.76	1.2	1.2	1.6	1.6	**P** Type Boring Bar
								HSK Tool Holder
	**LLSDN32**	9.52	3.18	0.8	1.2	—	—	**DOUBLE CLAMP** Holder
	42	12.70	3.18	0.8	1.2	—	—	**LL** Type Holder
	43	12.70	4.76	0.8	1.2	—	—	**DOUBLE CLAMP DIMPLE BAR**
	53	15.87	4.76	1.2	1.6	—	—	**P** Type Boring Bar **HSK** Tool Holder
	* **LLSDP42**	12.70	3.18	0.8	1.2	—	—	**DOUBLE CLAMP DIMPLE BAR**
	**LLSRN103**	8.3	3.18	—	—	—	—	**LL** Type Holder
	123	9.8	3.18	—	—	—	—	**HSK** Tool Holder
	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
	33	9.52	4.76	0.8	0.8	1.2	1.2	**DOUBLE CLAMP DIMPLE BAR**
	42	12.70	3.18	0.8	0.8	1.2	1.6	**P** Type Boring Bar
	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	

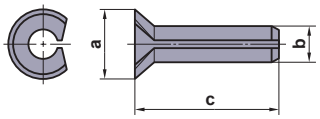
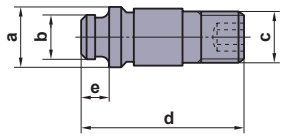
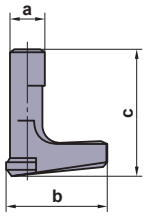
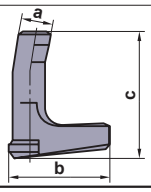
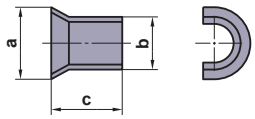
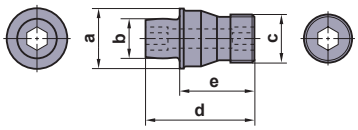
Geometry	Order Number	Dimensions (mm)						Tool Holder
		a	b	c	d	e	f	
	**LLSTE32**	7.6	3.18	0.4	0.4	0.4	—	**LL** Type Holder
	LLSTN32	9.52	3.18	0.4	0.8	1.2	—	**DOUBLE CLAMP** Holder
	33	9.52	4.76	0.4	0.8	1.2	—	**DOUBLE CLAMP DIMPLE BAR**
	42	12.70	3.18	0.4	0.8	1.2	—	**P** Type Boring Bar
	53	15.87	4.76	0.8	1.2	1.6	—	
	* **LLSTP32**	9.52	3.18	0.4	0.8	1.2	—	
	* **42**	12.70	3.18	0.4	0.8	1.2	—	
	**LLSWN32**	9.52	3.18	0.4	0.8	1.2	—	**LL** Type Holder
	3T3	9.52	3.97	0.4	0.8	1.2	—	**DOUBLE CLAMP** Holder
	42	12.70	3.18	0.4	0.8	1.2	—	**DOUBLE CLAMP DIMPLE BAR**
	* **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
	**MLDP42**	12.56	3.18	1.2	1.2	—	—	**P** Type Boring Bar
	**MLSP42**	12.63	3.18	1.2	1.2	1.2	1.2	**P** Type Boring Bar
	**MLTP32**	9.50	3.18	1.2	1.2	1.2	—	**P** Type Boring Bar
	**MSCN63**	18.8	4.76	1.6	1.6	1.6	1.6	**DOUBLE CLAMP** Holder (For Heavy Cutting)
	**MSSN63**	18.8	4.76	1.6	1.6	1.6	1.6	**DOUBLE CLAMP** Holder (For Heavy Cutting)
	**CT32T1**	9.525	15.03	3.18	—	—	—	**SET** Type Holder **SNT** Type Boring Bar **SET** Type Cartridge
	PT32T1R	8.28	13.34	3.18	—	—	—	
	32T2R	8.28	13.19	3.18	—	—	—	
	42TR	10.85	17.20	3.18	—	—	—	

SPARE PARTS

SHIM

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
	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 **HSK** Tool Holder
	**STASX400N**	11.00	3.00	0.4	0.4	0.4	0.4	**ASX400** Type Cutter
	**STASX445N**	10.76	3.00	—	—	—	—	**ASX445** Type Cutter
	**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
	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
	WPSWN43	12.50	4.76	0.4	0.8	1.2	—	**WP** Type Holder

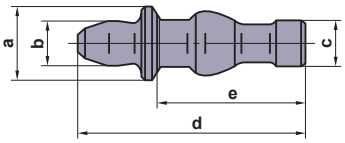
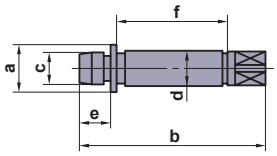
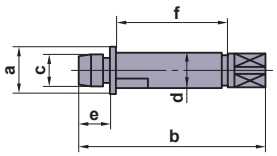
SHIM PIN AND CLAMP LEVER

Geometry	Order Number	Dimensions (mm)					Tool Holder
		a	b	c	d	e	
	**BCP141**	3.0	1.4	5.6	—	—	**SP** Type Holder
	201	4.3	2	7.4	—	—	**F** Type Boring Bar
	202	4.3	2	6.4	—	—	**HSK** Tool Holder
	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
	34	7.5	5.0	M6×1.0	18.5	3	**M** Type Boring Bar
	44	7.5	5.0	M5×0.8	14.2	3	
	**LLCL12S**	2.1	9.3	5.6	—	—	**LL** Type Holder
	13	3.6	10	12.5	—	—	**P** Type Boring Bar
	13S	3.6	10	7.8	—	—	**HSK** Tool Holder
	14	4.7	13.4	13.2	—	—	**KSMG** Type Cutter
	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	—	—	
	25	6.0	17.1	17	—	—	
	**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
	14	7.25	6.55	5.8	—	—	**DOUBLE CLAMP** Holder
	15	8.8	8.05	8.6	—	—	**DOUBLE CLAMP DIMPLE BAR**
	16	10.85	9.85	11.1	—	—	**P** Type Boring Bar
	18	15.35	13.05	12.0	—	—	**HSK** Tool Holder
	23	5.55	4.85	6.8	—	—	**KSMG** Type Cutter
	24	7.25	6.55	9.1	—	—	
	**MP6**	11.9	7.8	M10×1	22.1	15	**DOUBLE CLAMP** Holder (For Heavy Cutting)

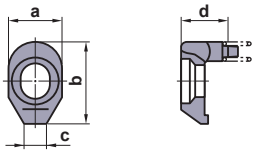
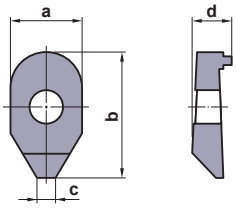
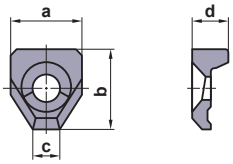
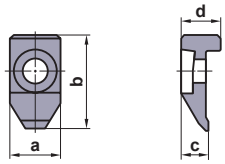
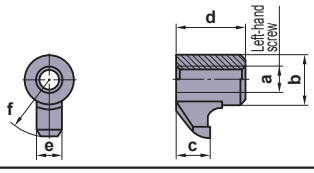
SPARE PARTS

SPARE PARTS

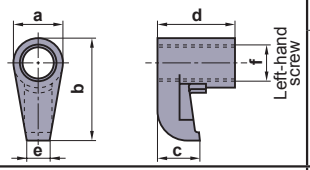
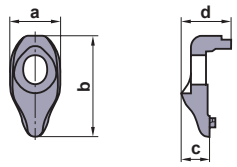
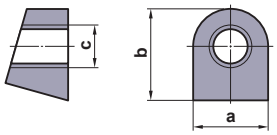
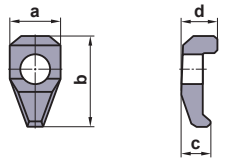
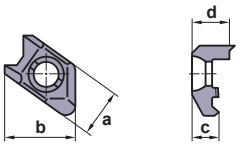
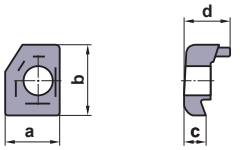
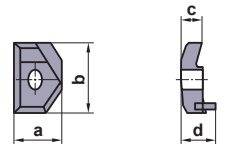
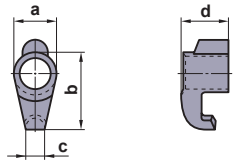
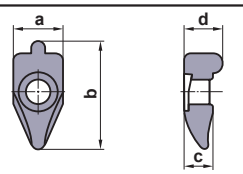
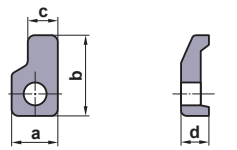
LOCK PIN

Geometry	Order Number	Dimensions (mm) a	b	c	d	e	f	Tool Holder
	**P11S**	6	3.7	4	17	11.1	—	**MP** Type Holder
	21S	7.5	4.9	4.5	17.2	11.5	—	
	**P221US**	4	18	2.11	3.5	3.3	7.7	**ML** Type Holder
	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**	5.75	24	3.64	5.0	3.3	12.9	**ML** Type Holder
	333WS	5.75	24	3.64	5.0	4.9	11.3	
	334WS	5.75	30	3.64	5.0	4.9	17.3	
	433W	7.75	24	5.03	7.0	4.9	10.8	
	434W	7.75	30	5.03	7.0	4.9	16.8	

CLAMP BRIDGE

Geometry	Order Number	Dimensions (mm) a	b	c	d	e	f	Tool Holder
	**AMS3**	7	12	3	3.3	—	—	**Profile** Holder
	4	9	13.5	3	3.8	—	—	**AJX** Type Cutter
	5	10	15	3.5	5	—	—	**BRE** Type Cutter
	**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
	14	19	22	8	9.5	—	—	**M** Type Boring Bar
	**CCTC1**	13	25	7	10.2	—	—	
	**CK231**	M6×1	8	4	7.5	4.5	9.5	**MC** Type Holder
	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	

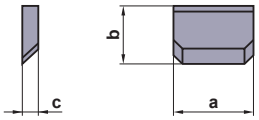
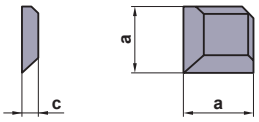
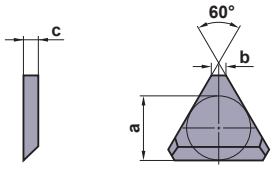
CLAMP BRIDGE

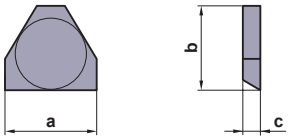
Geometry	Order Number	Dimensions (mm)						Tool Holder
		a	b	c	d	e	f	
	**CKW6**	10.9	22.5	9.2	16.8	5	M8×1	**DOUBLE CLAMP** Holder (For Heavy Cutting)
	**DCK2211**	11	22	6.57	11.1	—	—	**DOUBLE CLAMP** Holder
	2613	13	26.5	7.35	12.9	—	—	**DOUBLE CLAMP DIMPLE BAR**
	3113	13	31	9	14.5	—	—	**HSK** Tool Holder
	**KGC1**	12.0	15.0	M7×0.75	—	—	—	**UG** Type Holder
	**LK1**	8	14.3	4.5	5.9	—	—	
	**MHK5NR/L**	15.5	23.5	8.1	12.1	—	—	
	**MTK1R/L**	13	17.5	5	12	—	—	**MG1** Type Holder **MG** Type Holder **MT** Type Holder **MT1** Type Holder **HSK** Tool Holder **MG** Type Cartridge
	**MTK2R/L**	18	28	7	14	—	—	
	**SETK51**	6.8	14.5	2.9	8	—	—	**MMTE** Type Holder **MMTI** Type Holder **SET** Type Holder **SNT** Type Holder **HSK** Tool Holder **SET** Type Cartridge
	61	8.9	18.1	4.1	8.6	—	—	
	**SRK1R**	9.4	21	5.5	7.5	—	—	**SRE** Type Cutter
	**UCR**	12	24	8	7	—	—	

SPARE PARTS

SPARE PARTS

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	
	6F	18.9	17.6	2.5	19.05	1.5	
	**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 *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	

ANTI SEIZE LUBRICANT

ANTI SEIZE LUBRICANT

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

★ : **Inventory maintained in Japan.**

Memo