

CUTTING TOOLS 2024



COMPLETE METALWORKING SOLUTIONS
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The background of the page is a collage of industrial images. The top half is white, while the bottom half is black. Diagonal white lines separate the white and black areas. The images show various metalworking processes: a close-up of a metal part being machined, a drill bit cutting into a metal workpiece, and a large industrial machine component. The images are overlaid with a semi-transparent red filter.

DIA  EDGE

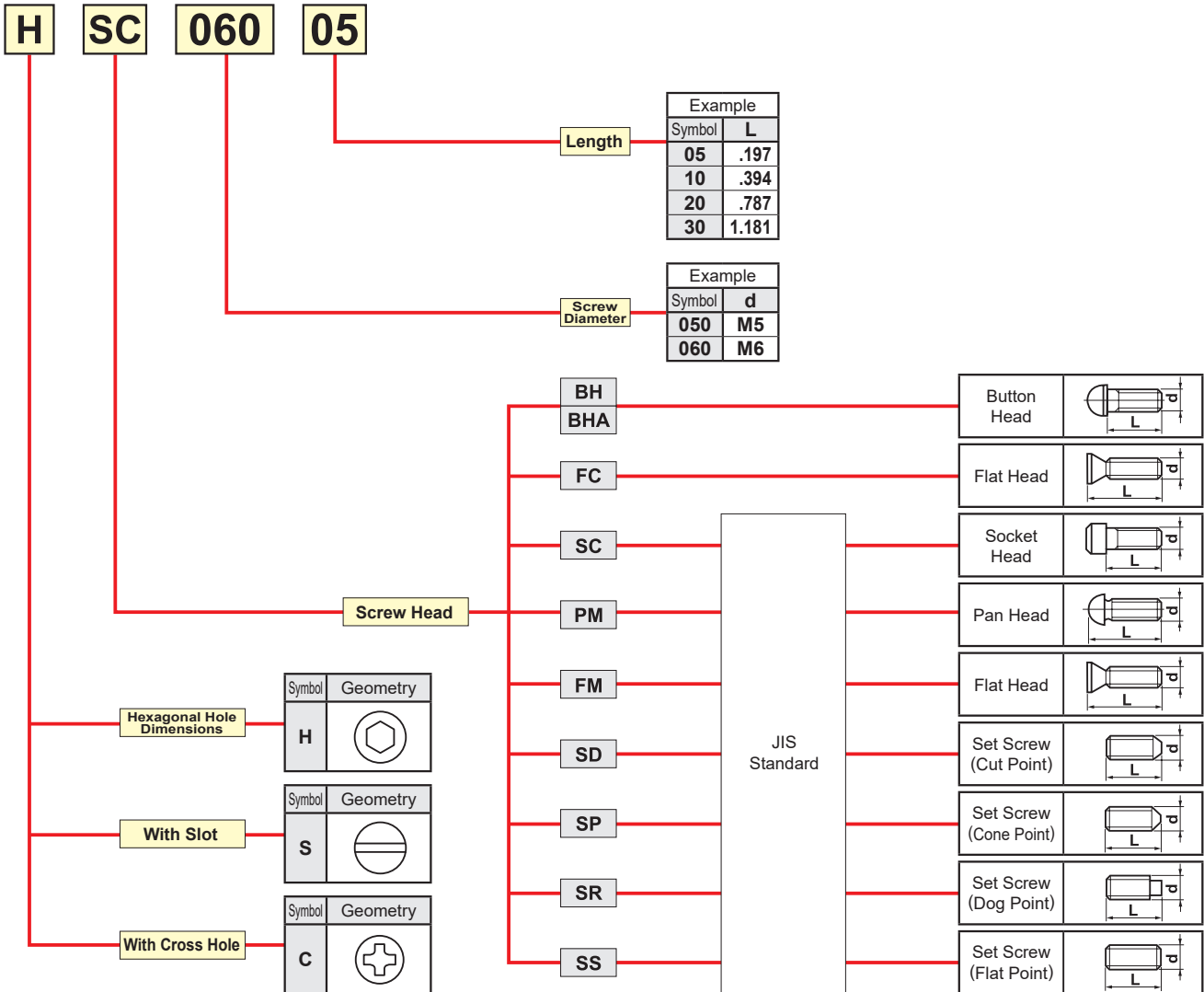
SPARE PARTS

IDENTIFICATION	M002
SPARE PARTS	
CLAMP SCREW	M004
SET BOLT	M009
STANDARD FOR ADJUSTABLE SCREWS AND NUTS	M011
SHIM	M012
SHIM SCREW	M015
PIN / RING / CLAMP LEVER	M016
CLAMP BRIDGE	M017
CHIP BREAKER	M017
COOLANT NOZZLE	M018
STOPPER	M018
ANTI SEIZE LUBRICANT	M018
STANDARD FOR NON-STOCK PARTS	
CLAMP SCREW	M019
PLUG	M019
STOP PLUG FOR NOZZLE	M019



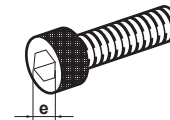
IDENTIFICATION

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



Hexagonal Hole Dimensions

Diameter (Metric)	Pitch (mm)	e Dimensions			
		HBH	HFC	HSC	HS \odot
M2	.4	—	—	.059	.035
M2.5	.45	—	—	.079	.051
M3	.5	.079	.079	.098	.059
M4	.7	.098	.098	.118	.079
M5	.8	.118	.118	.157	.098
M6	1.0	.157	.157	.197	.118
M8	1.25	.197	.197	.236	.157
M10	1.5	.236	.236	.315	.197




IDENTIFICATION OF WRENCH

HKY 15 R


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

Wrench Sizes


Hexagonal Wrench		
Symbol	e	
15	.059	
20	.079	
25	.098	
30	.118	
35	.138	
40	.157	
50	.197	
60	.236	









Torx Wrench			
Symbol	e	Drive Size	
06	.071	T6	
08	.094	T8	
10	.110	T10	
15	.130	T15	
20	.154	T20	
25	.177	T25	
27	.201	T27	
30	.217	T30	



Torx plus® Wrench			
Symbol	e	Drive Size	
06	.071	6IP	
07	.083	7IP	
08	.094	8IP	
10	.110	10IP	
15	.130	15IP	
25	.154	251P	




Wrench Shapes

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

IMX 10 - WR

Symbol	Wrench
IMX	IMX Series

Wrench Sizes		
Symbol	B	
10	10	
12	12	
16	16	
20	20	
25	25	



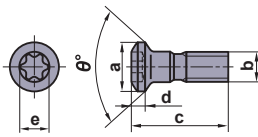
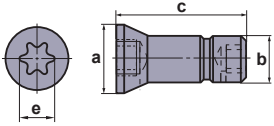
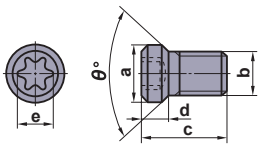
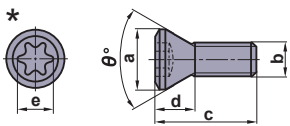
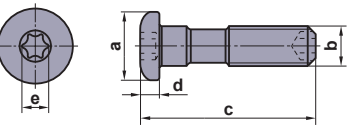
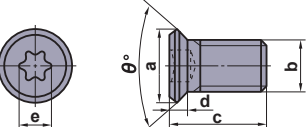
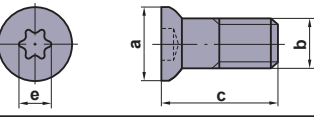
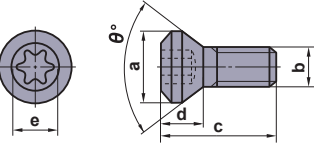
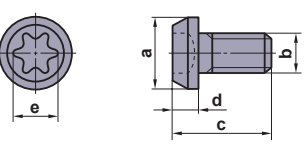
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Wrench Shapes ; WR



SPARE PARTS

CLAMP SCREW

Geometry	Order Number	Dimensions (inch)						Torque (lbf-in)	Tool Holder
		a	b	c	d	e	θ°		
	AJS3010T10	.197	M3×0.5	.394	.059	T10	120	22	AJX (⊕K286) PMC (⊕K376) AJX (⊕K286) PMC (⊕K376)
	AJS4012T15	.276	M4×0.7	.472	.087	T15	120	31	
	AJS5014T25	.315	M5×0.8	.551	.106	T25	120	66	
	BLS02	.165	M3	.270	—	T08	—	18	
	BLS03	.235	M4	.335	—	T15	—	27	
	BLS04	.268	M5	.356	—	T20	—	35	
	BLS05	.294	M5	.504	—	T20	—	44	
	BLS06	.317	M5	.610	—	T20	—	53	
	BLS08	.375	M6	.803	—	T30	—	58	
	BLS12	.474	M8	.969	—	T30	—	58	
 	CS250T	.146	M2.5×0.45	.236	.071	T8	90	8.9	MILLING TOOLS (⊕K001) BRP (⊕K344) MMTI (⊕G026) BRP (⊕K344) AL Type Holder (⊕C041) AHX640S (⊕K074)
	*CS250560T	.154	M2.5×0.45	.205	.098	T8	60	8.9	
	CS300890T	.161	M3×0.5	.315	.081	T8	90	8.9	
	*CS350760T	.217	M3.5×0.6	.276	.157	T15	60	31	
	*CS350860T	.217	M3.5×0.6	.331	.157	T15	60	31	
	CS350990T	.189	M3.5×0.6	.354	.093	T10	90	22	
	CS401160T	.224	M4×0.7	.433	.177	T15	60	31	
	CS451190T	.248	M4.5×0.75	.433	.114	T20	90	44	
	CS501290T	.276	M5×0.8	.433	.138	T25	90	66	
	*CS5015060T	.283	M5×0.8	.591	.093	T20	60	44	
	DC0520T	.335	M5×0.8	.886	.098	T15	—	31	DOUBLE CLAMP Type Holder (⊕C006) DOUBLE CLAMP DIMPLE BAR (⊕E021) HSK-T Tool Holder (⊕H006)
	DC0621T	.413	M6×1.0	.984	.157	T20	—	44	
	FC400890T	.220	M4×0.7	.295	.051	T10	90	22	AL Type Holder (⊕C042) AL Type Boring Bar (⊕E028)
	GTS1	.220	6-40UNF	.500	—	T10	—	14	
	GTS2	.310	10-32UNF	.750	—	T20	—	45	
	GTS3	.350	10-32UNF	.750	—	T20	—	45	
	GY05016S	.343	M5×0.8	.630	.138	T20	90	44	GY Series (⊕F152)
	GY06013M	.472	M6×1.0	.709	.197	T30	—	53	GY Series (⊕F152)

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SPARE PARTS

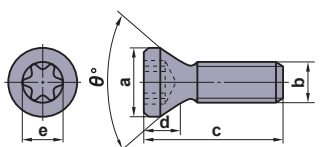
Geometry	Order Number	Dimensions (inch)						Torque (lbf-in)	Tool Holder
		a	b	c	d	e	θ°		
	LLCS105	M5×0.8	M5×0.8	.394	.059	.787	—	13	HSK-T Tool Holder (⊕H012)
	LLCS106	.236	M6×1	.650	.138	.098	—	19	
	LLCS108	.315	M8×1.25	.827	.256	.118	—	29	
<p>☆ Torx Screw</p> <p>*Without Hexagonal Hole on Right-Hand Screw</p>	☆ LS10T	M7×0.75	.551	.236	.197	T25	—	71	AOX445 (⊕K095)
	☆ LS15T	M7×0.75	.709	.276	.276	T25	—	71	
	LS0622T	M6×0.75	.866	.315	.315	T15	—	53	AHX640W (⊕K086)
	NS251	.142	M2.5×0.45	.276	—	.087	60	6.2	SMALL TOOLS (⊕D001)
	NS401	.228	M4×0.7	.236	—	.142	60	31	
	NS402W	.230	M4×0.7	.394	—	.087	60	6.2	SMALL TOOLS (⊕D001)
	NS403W	.230	M4×0.7	.472	—	.087	60	6.2	
	NS404W	.228	M4×0.7	.394	—	.087	90	6.2	
	RS3008TS	.169	M3×0.35	.331	.079	T8	61	13	SRF/SUF Series (⊕K350)
	RS3008T	.169	M3×0.35	.339	.079	T8	61	13	
	RS3510T	.197	M3.5×0.35	.394	.091	T10	61	22	
	RS4015T	.236	M4×0.5	.551	.106	T15	61	29	
	RS5020T	.319	M5×0.5	.646	.142	T20	61	44	
	RS6025T	.374	M6×0.75	.846	.165	T25	61	66	
	RS8030T	.472	M8×0.75	.984	.197	T30	61	88	
	S2	.157	M2.5×0.45	.256	.091	.079	92	14	
	S3	.177	M3×0.5	.303	.094	.079	92	13	
	SETS51	.268	M5×0.8	.583	.059	T15	—	31	HSK-T Tool Holder (⊕H016) MMTE (⊕G021) MMTI (⊕G026)
	SETS61	.315	M6×1	.787	.071	T20	—	44	
	SLCS105	.394	M5×0.8	.984	.248	.157	90	62	
	S34	—	10-32UNF	.313	—	.078	—	—	
	S46	—	1/4-28UNF	.500	—	.094	—	—	

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SPARE PARTS

SPARE PARTS

CLAMP SCREW

Geometry	Order Number	Dimensions (inch)						Torque (lbf-in)	Tool Holder
		a	b	c	d	e	θ°		
	TPS20	.106	M2×0.4	.138	.051	6IP	60	4.5	ARP (⊙K328)
	TPS20-1	.104	M2×0.4	.185	.094	6IP	60	5.3	MVX (⊙L199)
	TPS22	.118	M2.2×0.45	.185	.063	7IP	60	4.5	ARP (⊙K328)
	TPS22S	.118	M2.2×0.45	.165	.063	7IP	60	4.5	ARP (⊙K328)
	TPS25	.130	M2.5×0.45	.217	.067	7IP	60	8.9	APX3000 (⊙K154)
	TPS25-1	.130	M2.5×0.45	.256	.067	7IP	60	8.9	APX3000 (⊙K154)
	TPS27F1	.146	M2.7×0.35	.256	.071	7IP	60	8.9	VPX200 (⊙K182)
	TPS27F2	.146	M2.7×0.35	.315	.071	7IP	60	8.9	VPX200 (⊙K182)
	TPS3	.154	M3×0.5	.264	.055	10IP	60	18	MVX (⊙L200)
	TPS3R	.181	M3×0.5	.335	.075	10IP	60	18	WJX09 (⊙K308)
	TPS3SB	.173	M3×0.5	.315	.079	10IP	80	27	AXD4000A (⊙K240)
	TPS35	.209	M3.5×0.6	.453	.110	15IP	60	31	ASX445 (⊙K056) ASX400 (⊙K138) PMR (⊙K379)
	TPS351	.189	M3.5×0.6	.281	.055	10IP	60	22	MVX (⊙L200)
	TPS351B	.201	M3.5×0.6	.283	.092	10IP	60	22	ARP (⊙K328)
	TPS4	.209	M4×0.7	.315	.102	15IP	60	31	APX4000 (⊙K168) ARP (⊙K328) MVX (⊙L201)
	TPS40F1	.209	M4×0.5	.413	.110	15IP	60	27	VPX300 (⊙K193)
	TPS4R	.252	M4×0.7	.417	.087	15IP	R4	31	WSX445 (⊙K042)
	TPS4S	.209	M4×0.7	.276	.102	15IP	60	31	
	TPS43	.209	M4×0.7	.394	.102	15IP	60	31	APX4000 (⊙K168) MVX (⊙L201)
	TPS54	.268	M5×0.8	.472	.126	25IP	60	66	MVX (⊙L202)

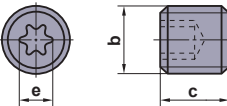
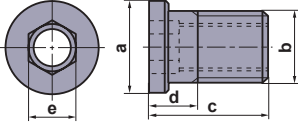
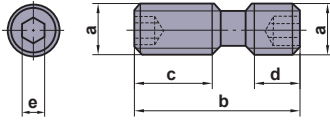
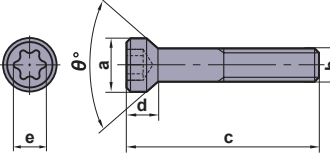
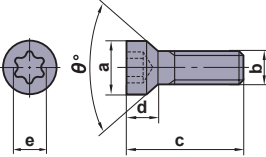
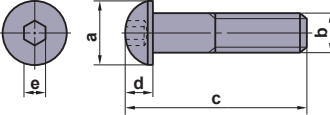
Geometry	Order Number	Dimensions (inch)						Torque (lbf-in)	Tool Holder
		a	b	c	d	e	θ°		
	*TS16	.098	M1.6×0.35	.126	.063	T6	60	5.3	MICRO-DEX (⊕E029)
	TS2	.106	M2×0.4	.181	.055	T6	60	5.3	
	*TS2A	.106	M2×0.4	.177	.047	T6	60	5.3	AQX (⊕K276)
	TS2C	.106	M2×0.4	.150	.055	T6	60	5.3	
	☆TS2D	.150	M2×0.4	.209	.076	T6	82	5.3	DIMPLE BAR (⊕E007)
	TS21	.106	M2×0.4	.134	.055	T6	60	5.3	S Type Boring Bar (⊕E012)
	*TS22	.118	M2.2×0.45	.197	.047	T6	60	5.3	
	*TS25	.130	M2.5×0.45	.217	.067	T8	60	8.9	AQX (⊕K276) AJX (⊕K286)
	☆TS25D	.172	M2.5×0.45	.244	.087	T8	82	8.9	DIMPLE BAR (⊕E007)
	*TS25H	.142	M2.5×0.45	.217	.079	T8	60	15	SRM2 (⊕K362)
	TS202	.106	M2×0.4	.217	.071	T6	60	5.3	
	TS253	.130	M2.5×0.45	.177	.067	T8	60	8.9	MILLING TOOLS (⊕K001)
	TS254	.130	M2.5×0.45	.276	.067	T8	60	8.9	SMALL TOOLS (⊕D001) PMF (⊕K378)
	*TS255	.138	M2.5×0.45	.295	.063	T8	60	8.9	
	TS3	.154	M3×0.5	.236	.079	T8	60	8.9	
	TS304	.154	M3×0.5	.413	.079	T8	60	13	
	TS3D	.197	M3×0.5	.236	.091	T10	82	22	DIMPLE BAR (⊕E006)
	TS3SB	.173	M3×0.5	.315	.079	T8	80	13	AXD4000 (⊕K226)
	TS3SBS	.173	M3×0.5	.256	.080	T8	80	13	AXD4000 (⊕K226)
	TS31D	.189	M3×0.5	.283	.087	T10	82	22	DIMPLE BAR (⊕E007)
	*TS32	.154	M3×0.5	.295	.079	T8	60	18	SRM2 (⊕K362)
	*TS33	.154	M3×0.5	.264	.079	T8	60	13	AQX (⊕K276) AJX (⊕K286) PMC (⊕K376)
	TS35	.189	M3.5×0.6	.256	.094	T10	60	22	
	*TS35D	.209	M3.5×0.6	.472	.110	T15	60	31	HSK Tool Holder (⊕H013)
	TS35R	.224	M3.5×0.6	.394	.083	T15	—	31	AHX440S (⊕K064) AHX475S (⊕K070)
	TS351	.189	M3.5×0.6	.283	.094	T10	60	22	AJX (⊕K286) SRM2 (⊕K362) PMC (⊕K376)
	TS352	.189	M3.5×0.6	.394	.118	T10	60	22	
	TS4	.213	M4×0.7	.315	.102	T15	60	31	CFSP (⊕K348)
	TS4D	.220	M4×0.7	.303	.098	T15	82	31	DIMPLE BAR (⊕E006)
	TS4S	.213	M4×0.7	.276	.093	T15	80	31	
	*TS4SL	.213	M4×0.7	.315	.096	T15	80	35	BXD4000 (⊕K258)
	TS4SB	.228	M4×0.7	.354	.105	T15	80	31	AXD7000 (⊕K246)
	*TS4SBL	.228	M4×0.7	.413	.105	T15	80	31	GY Series (⊕F016) AXD7000 (⊕K246)
*TS4SBLL	.228	M4×0.7	.571	.105	T15	80	31		
TS43	.213	M4×0.7	.394	.102	T15	60	31	AJX (⊕K286) BRP (⊕K344) PMC (⊕K376) SRM2 (⊕K362)	
TS44	.213	M4×0.7	.472	.102	T15	60	31		
TS405	.213	M4×0.7	.551	.102	T15	60	31	VAS400 (⊕K144)	
TS406	.213	M4×0.7	.610	.102	T15	60	31		
TS407	.213	M4×0.7	.354	.102	T15	60	31	AQX (⊕K276) AJX (⊕K286)	
TS450	.232	M4.5×0.75	.512	.142	T20	60	44		
TS5	.268	M5×0.8	.354	.126	T25	60	66	CFSP (⊕K348)	
TS5R	.272	M5×0.8	.472	.138	T20	60	44	WJX (⊕K318)	
TS52	.268	M5×0.8	.315	.126	T25	60	66	CFSP (⊕K348)	
TS53	.268	M5×0.8	.630	.126	T25	60	66		
TS54	.268	M5×0.8	.472	.126	T25	60	66	AJX (⊕K286)	
TS55	.268	M5×0.8	.413	.126	T25	60	66	GY Series (⊕F016) AQX (⊕K276) SPX (⊕K268) SRM2 (⊕K362)	
*TS6S	.335	M6×1.0	.512	.173	T30	60	89	AQX (⊕K276) SRM2 (⊕K362)	
*TS6	.335	M6×1.0	.630	.173	T30	60	89	SRM2 (⊕K362)	

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SPARE PARTS

SPARE PARTS

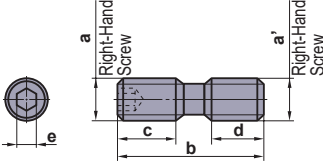
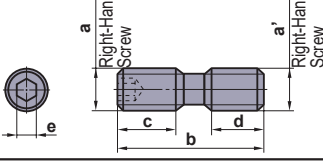
CLAMP SCREW

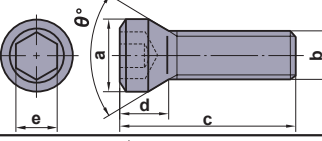
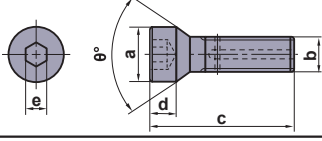
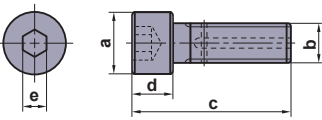
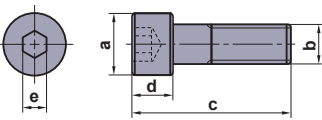
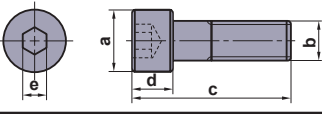
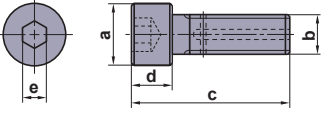
Geometry	Order Number	Dimensions (inch)						Torque (lbf-in)	Tool Holder
		a	b	c	d	e	θ°		
	TSS04005	—	M4×0.7	.197	—	T8	—	—	PMF (⊕K378)
	TSS04505S	—	M4.5×0.5	.197	—	T10	—	—	FMAX (⊕K096)
	WCS503507H	.248	M5×0.5	.276	.130	.138	—	44	ASX445 (⊕K056) ASX400 (⊕K138) PMR (⊕K379)
	XNS35	10-32UNF	.625	.220	.220	.094	—	30	M Type Tool Holder (⊕C007) M Type Boring Bar (⊕E024)
	XNS36	10-32UNF	.750	.250	.250	.094	—	30	
	XNS46	1/4-28UNF	.750	.310	.310	.125	—	45	
	XNS47	1/4-28UNF	.875	.280	.280	.125	—	45	
	XNS48	1/4-28UNF	1.000	.370	.370	.125	—	45	
	XNS58	5/16-24UNF	1.000	.500	.280	.156	—	70	
	XNS59	5/16-24UNF	1.120	.470	.410	.156	—	70	
	XNS510	5/16-24UNF	1.125	.500	.500	.156	—	70	
	XNS610	3/8-24UNF	1.250	.500	.500	.188	—	135	
	WS304517T	.177	M3×0.5	.650	.134	T10	60	31	
	WS304518T	.177	M3×0.5	.689	.134	T10	60	31	
	WS355520T	.217	M3.5×0.6	.768	.154	T15	60	49	
	WS355521T	.217	M3.5×0.6	.807	.154	T15	60	49	
	WS406023T	.236	M4×0.7	.866	.173	T25	60	75	
	WS406024T	.236	M4×0.7	.906	.173	T25	60	75	
	WS508026T	.315	M5×0.8	.984	.205	T27	60	106	
	WS508027T	.315	M5×0.8	1.024	.205	T27	60	106	
	WS203107TPS	.120	M2×0.25	.287	.067	6IP	60	8.9	
	WS203108TPS	.120	M2×0.25	.327	.075	6IP	60	8.9	
	WS253909TPS	.152	M2.5×0.35	.374	.094	8IP	60	18	
	WS304912TPS	.191	M3×0.35	.472	.128	10IP	60	22	
	HBH06012	.413	M6×1	.630	.157	.157	—	4	PMF (⊕K378)
	HBH06020	.413	M6×1	.945	.157	.157	—	4	HSK-T Tool Holder (⊕H001)
	HBH08040	.551	M8×1.25	1.772	.197	.197	—	6.8	

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SPARE PARTS

SET BOLT

Geometry	Order Number	Dimensions (inch)						Torque (lbf-ft)	Tool Holder
		a	a'	b	c	d	e		
	HDS10031	M10x1.0	M10x1.5	1.220	.551	.472	.197	80	PMF (⊙K378)
	HDSU37513	5/16-32UNEF	3/8-24UNF	1.260	.472	.433	.156	54	BRP (⊙K344)

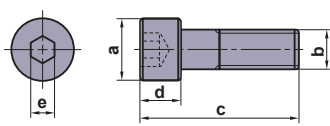
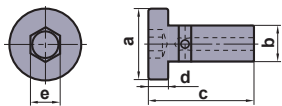
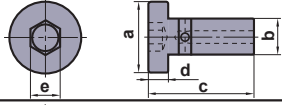
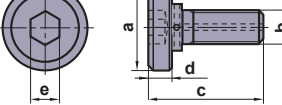
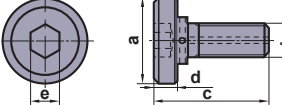
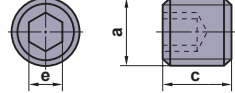
Geometry	Order Number	Dimensions (inch)							Torque (lbf-ft)	Tool Holder
		a	b	c	d	e	θ°			
	BOE4S06U	.562	3/8-24UNF	1.358	.374	.313	60	29		
	HFF08043H	.433	M8×1.25	1.693	.197	.197	90	73	AXD4000 (⊙K226) BXD4000 (⊙K258)	
	HSCU25011H HSCU25014H HSCU37513H HSCU50014H HSCU62516H HSCU75016H	.370 .370 .562 .750 .938 1.125	1/4-28UNF 1/4-28UNF 3/8-24UNF 1/2-20UNF 5/8-18UNF 3/4-16UNF	1.347 1.647 1.625 1.875 2.250 2.375	.250 .250 .375 .500 .625 .750	.156 .156 .250 .375 .500 .625	— — — — — —	120 120 348 708 960 1320	WSX445 (⊙K042) AJX (⊙K286) APX3000 (⊙K154) APX4000 (⊙K168) AXD7000 (⊙K246) BXD4000 (⊙K258)	
	HSCUF25013 HSCUF37513 HSCUF37520 HSCUF50014 HSCUF50018 HSCUF50023 HSCUF50028 HSCUF62518 HSCUF62535 HSCUF62528 HSCUF75018 HSCUF75040	.375 .562 .562 .750 .750 .750 .750 .938 .938 .938 1.125 1.125	1/4-28UNF 3/8-24UNF 3/8-24UNF 1/2-20UNF 1/2-20UNF 1/2-20UNF 1/2-20UNF 5/8-18UNF 5/8-18UNF 5/8-18UNF 3/4-16UNF 3/4-16UNF	1.500 1.625 2.375 1.875 2.250 2.725 3.248 2.375 4.125 3.373 2.500 4.750	.250 .375 .375 .500 .500 .500 .500 .625 .625 .625 .750 .750	.188 .313 .313 .375 .375 .375 .375 .500 .500 .500 .625 .625	— — — — — — — — — — — — —	120 348 348 708 708 708 708 960 960 960 1320 1320	APX4000 (⊙K168) SPX (⊙K268)	
	HSCUC62523 HSCUC75025	.938 1.125	5/8-11UNS 3/4-10UNS	2.875 3.250	.625 .750	.500 .625	— —	960 1320		
	HSC08025H HSC08030H HSC10030H HSC12035H HSC16040H	.512 .512 .630 .709 .945	M8×1.25 M8×1.25 M10×1.5 M12×1.75 M16×2	1.299 1.496 1.575 1.850 2.205	.315 .315 .394 .472 .630	.197 .197 .236 .394 .551	— — — — —	212 212 354 708 1328	WSX445 (⊙K042) APX3000 (⊙K154) APX4000 (⊙K168) AXD4000 (⊙K226) AXD7000 (⊙K246) AJX (⊙K286) BXD4000 (⊙K258)	

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SPARE PARTS

SPARE PARTS

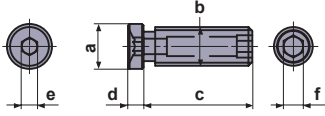
SET BOLT

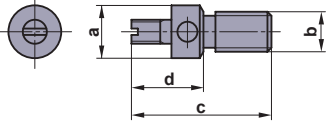
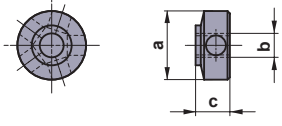
Geometry	Order Number	Dimensions (inch)						Torque (lbf-ft)	Tool Holder
		a	b	c	d	e	θ°		
	HSC05030	.335	M5×0.8	1.181	.197	.157	—	48	APX4000 (⊕K168) PMF (⊕K378) PMR (⊕K379) SPX (⊕K268) GY Series (⊕F016) VPX200 (⊕K182) VPX300 (⊕K193) ASPX (⊕K262)
	HSC08040	.512	M8×1.25	1.890	.315	.236	—	212	
	HSC08045	.512	M8×1.25	2.087	.315	.236	—	212	
	HSC08050	.512	M8×1.25	2.283	.315	.236	—	212	
	HSC10035	.630	M10×1.5	1.772	.394	.236	—	390	
	HSC10040	.630	M10×1.5	1.969	.394	.315	—	389	
	HSC10045	.630	M10×1.5	2.165	.394	.315	—	390	
	HSC10050	.630	M10×1.5	2.362	.394	.315	—	390	
	HSC10055	.630	M10×1.5	2.559	.394	.315	—	390	
	HSC10060	.630	M10×1.5	2.756	.394	.315	—	389	
	HSC10070	.630	M10×1.5	3.150	.394	.315	—	389	
	HSC12035	.709	M12×1.75	1.850	.472	.394	—	708	
	HSC12040	.709	M12×1.75	2.047	.472	.394	—	672	
	HSC12045	.709	M12×1.75	2.244	.472	.394	—	708	
	HSC12050	.709	M12×1.75	2.441	.472	.394	—	708	
	HSC12060	.709	M12×1.75	2.835	.472	.394	—	708	
	HSC12070	.709	M12×1.75	3.228	.472	.394	—	708	
	HSC16035	.945	M16×2.0	2.008	.630	.551	—	1328	
	HSC16040	.945	M16×2.0	2.205	.630	.551	—	1328	
	HSC16055	.945	M16×2.0	2.795	.630	.551	—	1328	
HSC16065	.945	M16×2.0	3.189	.630	.551	—	1680		
HSC16080	.945	M16×2.0	3.780	.630	.551	—	1328		
HSC20040	1.181	M20×2.5	2.362	.787	.669	—	2832		
HSC20090	1.181	M20×2.5	4.331	.787	.669	—	2832		
	HSCX12030H	.945	M12×1.75	1.457	.275	.315	—	354	FMAX (⊕K096)
	HSCX16035H	1.181	M16×1	1.732	.354	.472	—	885	
	HSCX16045H	1.181	M16×2.0	2.126	.354	.472	—	885	
	HSCX20035H	1.417	M20×2.5	1.818	.433	.551	—	1593	
	HSCXU50012H	.945	1/2-20UNF	1.496	.315	.375	—	708	FMAX (⊕K096)
	HSCXU62514H	1.181	5/8-18UNF	1.732	.354	.500	—	960	
	HSCXU75017H	1.417	3/4-16UNF	2.126	.433	.625	—	1320	
	MBAU75016H	2.000	3/4-16UNF	2.188	.563	.625	—	2832	AJX (⊕K286) AXD7000 (⊕K246)
	MBAU100016H	2.593	1-14UNS	2.188	.563	.625	—	4608	
	MBA16033H	1.575	M16×2	1.693	.394	.551	—	1328	AJX (⊕K286) APX4000 (⊕K168) AXD4000 (⊕K226) AXD7000 (⊕K246) BXD4000 (⊕K258)
	MBA20040H	1.969	M20×2.5	2.126	.551	.669	—	2832	
	MBA24045H	2.559	M24×3.0	2.323	.551	.669	—	4603	
	HGM-PT1/8	—	1/8-28	.276	—	.197	—	33	HSK-T Tool Holder (⊕H001)

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SPARE PARTS

STANDARD FOR ADJUSTABLE SCREWS AND NUTS

Geometry	Order Number	Dimensions (inch)						Tool Holder
		a	b	c	d	e	f	
	HVS060519	.228	M5×0.8	.551	.079	.079	.098	

Geometry	Order Number	Dimensions (inch)				Tool Holder
		a	b	c	d	
	KSS2	.260	M5×0.8	.689	.354	FMAX (⊕K096)
	KSN3	.339	M3×0.35	.169	—	FMAX (⊕K096)

SPARE PARTS

SHIM

Geometry	Order Number	Dimensions (inch)						Tool Holder
		a	b	c	d	e	f	
	DCSVN32	.375	.125	.031	.047	—	—	DOUBLE CLAMP Holder (☉C024) DOUBLE CLAMP DIMPLE BAR (☉E023)
	ICSN322	.375	.125	.031	.031	.031	.031	M Type Tool Holder (☉C007) M Type Boring Bar (☉E024)
	ICSN432	.500	.188	.031	.031	.031	.031	
	ICSN433	.500	.188	.047	.047	.047	.047	
	ICSN533	.625	.188	.047	.047	.047	.047	
	ICSN633	.750	.188	.047	.047	.047	.047	
	IDSN322	.375	.125	.031	.031	—	—	M Type Tool Holder (☉C010) M Type Boring Bar (☉E024)
	IDSN433	.500	.188	.047	.047	—	—	
	IDSN533	.625	.188	.047	.047	—	—	
	IDSN543	.625	.250	.047	.047	—	—	
	IRSN32	.375	.125	—	—	—	—	M Type Tool Holder (☉C013)
	IRSN43	.500	.188	—	—	—	—	
	IRSN44	.500	.250	—	—	—	—	
	IRSN63	.750	.188	—	—	—	—	
	ISSN322	.375	.125	.031	.031	.031	.031	M Type Tool Holder (☉C014) M Type Boring Bar (☉E025)
	ISSN323	.375	.125	.047	.047	.047	.047	
	ISSN433	.500	.188	.047	.047	.047	.047	
	ISSN434	.500	.188	.063	.063	.063	.063	
	ISSN443	.500	.250	.047	.047	.047	.047	
	ISSN533	.625	.188	.047	.047	.047	.047	
	ISSN633	.750	.188	.047	.047	.047	.047	
	ISSN634	.750	.188	.063	.063	.063	.063	
	ISSN643	.750	.250	.047	.047	.047	.047	
	ISSN644	.750	.250	.063	.063	.063	.063	
ISSN846	1.000	.250	.094	.094	.094	.094		
	ITSN322	.375	.125	.031	.031	.031	—	M Type Tool Holder (☉C018) M Type Boring Bar (☉E025)
	ITSN323	.375	.125	.047	.047	.047	—	
	ITSN324	.375	.125	.063	.063	.063	—	
	ITSN332	.375	.188	.031	.031	.031	—	
	ITSN333	.375	.188	.047	.047	.047	—	
	ITSN334	.375	.188	.063	.063	.063	—	
	ITSN432	.500	.188	.031	.031	.031	—	
	ITSN434	.500	.188	.063	.063	.063	—	
	ITSN438	.500	.188	.125	.125	.125	—	
	ITSN533	.625	.188	.047	.047	.047	—	
	ITSN534	.625	.188	.063	.063	.063	—	
	ITSN633	.750	.188	.047	.047	.047	—	
	ITSN636	.750	.188	.094	.094	.094	—	
	IVSN322	.375	.125	.031	.031	—	—	M Type Tool Holder (☉C024) M Type Boring Bar (☉E026)
	IVSN432	.500	.188	.031	.031	—	—	
	IVSN433	.500	.188	.047	.047	—	—	

M
 SPARE PARTS

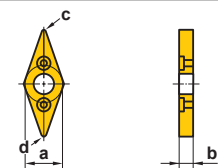
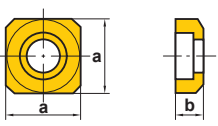
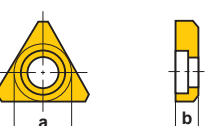
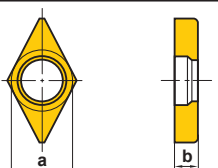
Geometry	Order Number	Dimensions (inch)						Tool Holder
		a	b	c	d	e	f	
	IWSN322	.375	.125	.031	.031	.031	—	M Type Tool Holder (☉C027) M Type Boring Bar (☉E026)
	IWSN432	.500	.188	.031	.031	.031	—	
	IWSN533	.625	.188	.047	.047	.047	—	
	LLSCN32	.375	.125	.016	.016	.031	.031	DOUBLE CLAMP Type Holder (☉C006) DOUBLE CLAMP DIMPLE BAR (☉E021) HSK-T Tool Holder (☉H001)
	LLSCN33	.375	.188	.016	.016	.031	.031	
	LLSCN42	.500	.125	.031	.031	.047	.047	
	* LLSCP32	.375	.125	.016	.016	.031	.031	
	* LLSCP42	.500	.125	.031	.031	.047	.047	
	LLSDN32	.375	.125	.031	.047	—	—	DOUBLE CLAMP Type Holder (☉C010) DOUBLE CLAMP DIMPLE BAR (☉E021) HSK-T Tool Holder (☉H001)
	LLSDN42	.500	.125	.031	.047	—	—	
	LLSDN43	.500	.188	.031	.047	—	—	
	* LLSDP42	.500	.125	.031	.047	—	—	
	LLSRN123	.386	.125	—	—	—	—	DOUBLE CLAMP Type Holder (☉C013) HSK-T Tool Holder (☉H001)
	LLSSN42	.500	.125	.031	.031	.047	.047	DOUBLE CLAMP Type Holder (☉C014) DOUBLE CLAMP DIMPLE BAR (☉E022)
	* LLSSP42	.500	.125	.031	.031	.047	.047	
	LLSTN32	.375	.125	.016	.031	.047	—	DOUBLE CLAMP Type Holder (☉C018) DOUBLE CLAMP DIMPLE BAR (☉E022)
	LLSTN33	.375	.188	.016	.031	.047	—	
	* LLSTP32	.375	.125	.016	.031	.047	—	
	LLSWN32	.375	.125	.016	.031	.047	—	DOUBLE CLAMP Type Holder (☉C027) DOUBLE CLAMP DIMPLE BAR (☉E023)
	LLSWN33	.375	.188	.016	.031	.047	—	
	LLSWN42	.500	.125	.016	.031	.047	—	
	* LLSWP42	.500	.125	.016	.031	.047	—	
	SPSCN42	.500	.125	—	—	—	—	SP Type Tool Holder (☉C030)

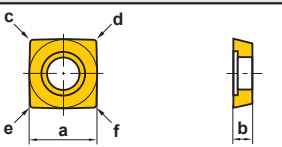
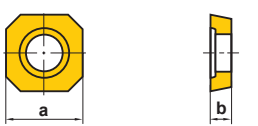
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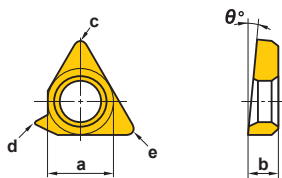
SPARE PARTS

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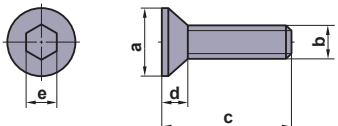
SHIM

Geometry	Order Number	Dimensions (inch)						Tool Holder
		a	b	c	d	e	f	
	SPSVN32	.317	.125	.012	.012	—	—	SP Type Tool Holder (ⓈC036) HSK-T Tool Holder (ⓈH001)
	SPSSN42	.468	.125	—	—	—	—	SP Type Tool Holder (ⓈC034)
	SPSTN32	.352	.125	—	—	—	—	SP Type Tool Holder (ⓈC035)
	SPSDN32	.342	.125	—	—	—	—	SP Type Tool Holder (ⓈC031)

Geometry	Order Number	Dimensions (inch)						Tool Holder
		a	b	c	d	e	f	
	STASX400N	.433	.118	.015	.015	.015	.015	ASX400 (ⓈK138)
	STASX445N	.424	.118	—	—	—	—	ASX445 (ⓈK056)

Geometry	Order Number	Dimensions (inch)						Tool Holder
		a	b	c	d	e	θ°	
	CTE32TN15	.375	.128	.031	.016	.031	2.955	MMTE (G021) MMTI (G026) HSK-T Tool Holder (H001)
	CTE32TN05	.375	.128	.031	.016	.031	1.970	
	CTE32TP05	.375	.126	.031	.016	.031	.985	
	CTE32TP15	.375	.125	.031	.016	.031	0	
	CTE32TP25	.375	.133	.031	.016	.031	-.985	
	CTE32TP35	.375	.141	.031	.016	.031	-1.970	
	CTE32TP45	.375	.149	.031	.016	.031	-2.995	
	CTI32TN15	.375	.128	.031	.016	.031	2.898	
	CTI32TN05	.375	.128	.031	.016	.031	1.932	
	CTI32TP05	.375	.126	.031	.016	.031	.966	
	CTI32TP15	.375	.125	.031	.016	.031	0	
	CTI32TP25	.375	.133	.031	.016	.031	-.966	
	CTI32TP35	.375	.141	.031	.016	.031	-1.932	
	CTI32TP45	.375	.146	.031	.016	.031	-2.898	
	CTE43TN15	.500	.192	.039	.024	.039	2.955	
	CTE43TN05	.500	.191	.039	.024	.039	1.970	
	CTE43TP05	.500	.189	.039	.024	.039	.985	
	CTE43TP15	.500	.187	.039	.024	.039	0	
	CTE43TP25	.500	.198	.039	.024	.039	-.985	
	CTE43TP35	.500	.209	.039	.024	.039	-1.970	
	CTE43TP45	.500	.219	.039	.024	.039	-2.995	
	CTI43TN15	.500	.192	.039	.024	.039	2.898	
	CTI43TN05	.500	.191	.039	.024	.039	1.932	
	CTI43TP05	.500	.189	.039	.024	.039	.966	
	CTI43TP15	.500	.187	.039	.024	.039	0	
	CTI43TP25	.500	.198	.039	.024	.039	-.966	
	CTI43TP35	.500	.208	.039	.024	.039	-1.932	
	CTI43TP45	.500	.219	.039	.024	.039	-2.898	

SHIM SCREW

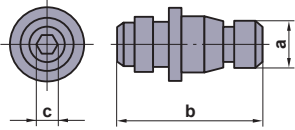
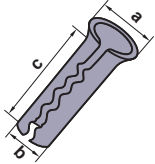
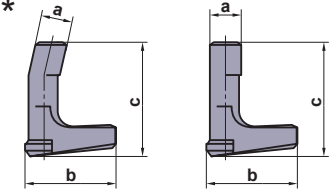
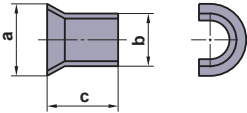
Geometry	Order Number	Dimensions (inch)					Torque (lbf-ft)	Tool Holder
		a	b	c	d	e		
	HFC03006	.118	M3×0.5	.236	.067	.079	6	MMTE (G021) MMTI (G026) HSK-T Tool Holder (H001)
	HFC03008	.118	M3×0.5	.315	.067	.079	6	
	HFC04008	.157	M4×0.7	.315	.091	.098	10	
	HFC04010	.157	M4×0.7	.394	.091	.098	10	

M

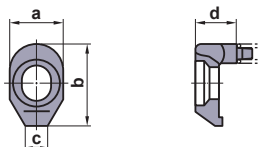
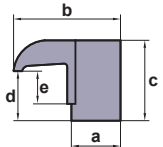
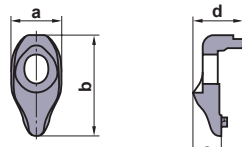
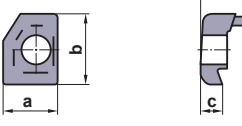
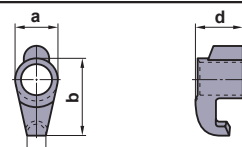
SPARE PARTS

SPARE PARTS

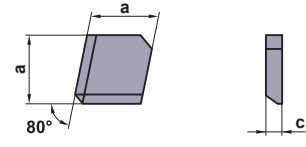
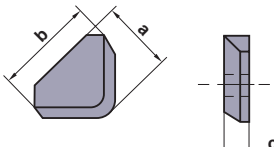
PIN / RING / CLAMP LEVER

Geometry	Order Number	Dimensions (inch)			Tool Holder
		a	b	c	
	NL23	.313-1.260	.313	.063	M Type Tool Holder (⊕C007) M Type Boring Bar (⊕E024)
	NL33	.313-1.260	.347	.078	
	NL33L	.394-1.260	.406	.078	
	NL34	.394-1.260	.453	.078	
	NL34L	.394-1.260	.500	.078	
	NL43	.394-1.260	.422	.078	
	NL44	.250-1.102	.516	.094	
	NL46	.250-1.102	.688	.094	
	NL56	.313-.945	.703	.125	
	NL58	.313-.945	.844	.125	
	NL68	.375-.945	.875	.141	
	NL68L	.375-.945	.938	.141	
	NL810	.438-.787	.813	.156	
	BCP141	.118	.055	.220	SP Type Holder (⊕C036) HSK-T Tool Holder (⊕H001)
	LLCL14	.185	.528	.520	HSK-T Tool Holder (⊕H001)
	LLCL24	.185	.638	.583	
	* LLCL112	.138	.512	.531	
	LLP13	.219	.191	.209	DOUBLE CLAMP Type Holder (⊕C006) DOUBLE CLAMP DIMPLE BAR (⊕E021) HSK-T Tool Holder (⊕H001)
	LLP14	.285	.258	.228	
	LLP23	.219	.191	.268	
	LLP24	.285	.258	.358	

CLAMP BRIDGE

Geometry	Order Number	Dimensions (inch)					Tool Holder
		a	b	c	d	e	
	AMS3	.276	.472	.118	.130	—	AJX (⊕K286) PMC (⊕K376)
	AMS4	.354	.531	.118	.150	—	
	AMS5	.394	.590	.136	.197	—	
	CL6	.310	.580	.440	.062	.094	M Type Tool Holder (⊕C007) M Type Boring Bar (⊕E024)
	CL7	.310	.640	.310	.062	—	
	CL9	.430	.750	.660	.344	.125	
	CL12	.430	.880	.660	.344	.125	
	CL19	.310	.550	.310	.187	—	
	CL20	.375	.730	.380	.125	—	
	CL24	.491	1.000	.785	.453	.136	
	CL30	.430	1.000	.660	.344	.125	
	DCK2211	.433	.866	.259	.357	—	DOUBLE CLAMP Holder (⊕C006) DOUBLE CLAMP DIMPLE BAR (⊕E021) HSK-T Tool Holder (⊕H001)
	DCK2613	.512	1.043	.289	.407	—	
	DCK3113	.512	1.220	.354	.472	—	
	MTK1R/L	.512	.689	.197	.472	—	HSK-T Tool Holder (⊕H001)
	SETK51	.268	.571	.114	.315	—	MMTE (⊕G021) MMTI (⊕G026) HSK-T Tool Holder (⊕H001)
	SETK61	.350	.713	.161	.339	—	

CHIP BREAKER

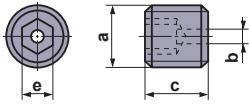
Geometry	Order Number	Dimensions (inch)					Tool Holder
		a	b	c	d	e	
	CBC4	.440	—	.062	.500	—	M Type Tool Holder M Type Boring Bar
	CBR4	.421	.560	.120	.500	—	M Type Tool Holder

M

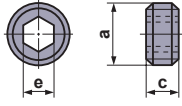
SPARE PARTS

SPARE PARTS


COOLANT NOZZLE

Geometry	Order Number	Dimensions (inch)				Tool Holder
		a	b	c	e	
	HSD04004H06	M4x0.7	.024	.157	.079	ARP(☉K329), ASPX(☉K262)
	HSD04004H08	M4x0.7	.031	.157	.079	ARP(☉K329), ASPX(☉K262)
	HSD04004H12	M4x0.7	.047	.157	.079	ARP(☉K329), ASPX(☉K262)
	HSD04004H16	M4x0.7	.063	.157	.079	ARP(☉K329), ASPX(☉K262)

STOPPER

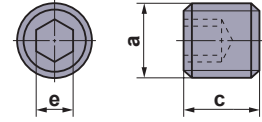
Geometry	Order Number	Dimensions (inch)			Tool Holder
		a	c	e	
	WS35LH	.137	.067	.079	STAW(☉L226)
	WS45LH	.137	.067	.079	STAW(☉L226)
	WS55LH	.137	.067	.079	STAW(☉L226)

ANTI SEIZE LUBRICANT

Shape	Order Number	Stock	Volume (oz)
	MK1KS	●	0.1

STANDARD FOR NON-STOCK PARTS

Compatible parts are available commercially (JIS Standard).
Please refer to the dimensions below and purchase required parts.



CLAMP SCREW

Holder Order Number	Page	Parts Order Number	Reference Dimensions (inch)			Torque (lbf-ft)
			a	c	e	
H63TH-EV2525R/L-112	H019	HSS12025	M12×1.75	.984	.236	416
H100TH-EV3232R/L-180	H019	HSS14035	M14×2.0	1.378	.236	469
H63TH-EN2525R/L-115	H020	HSS12030	M12×1.75	1.181	.236	416
H100TH-EN3232R/L-130	H020	HSS14030	M14×2.0	1.181	.236	469
H63TH-EV2020R/L-105-3	H021	HSS12030	M12×1.75	1.181	.236	416
H63TH-B08-65	H021	HSS08010	M8×1.25	.394	.157	124
H63TH-B10-70	H021	HSS08012	M8×1.25	.472	.157	124
H63TH-B12-70	H021	HSS08012	M8×1.25	.472	.157	124
H63TH-B16-75	H021	HSS10016	M10×1.5	.630	.197	239
H63TH-B20-75	H021	HSS10016	M10×1.5	.630	.197	239
H63TH-B25-83	H021	HSS12016	M12×1.75	.630	.236	416
H63TH-B32-87	H021	HSS12016	M12×1.75	.630	.236	416
H63TH-B40-97	H021	HSS16012	M16×2.0	.472	.315	1044
H100TH-B25-120	H022	HSS12016	M12×1.75	.630	.236	416
H100TH-B32-135	H022	HSS12018	M12×1.75	.709	.236	416
H100TH-B40-150	H022	HSS16020	M16×2.0	.787	.315	1044
H100TH-B50-180	H022	HSS16020	M16×2.0	.787	.315	1044
SL3208-90	H022	HSS06008	M6×1.0	.315	.118	52
SL3210-90	H022	HSS08008	M8×1.25	.315	.157	124
SL3212-90	H022	HSS08008	M8×1.25	.315	.157	124
SL3216-90	H022	HSS08006	M8×1.25	.236	.157	124
SL3220-90	H022	HSS08005	M8×1.25	.197	.157	124

PLUG

Holder Order Number	Page	Parts Order Number	Reference Dimensions (inch)			Torque (lbf-ft)
			a	c	e	
H63TH-EV2525R/L-112	H019	HGM-PT1/8	1/8-28	.276	.197	—
H100TH-EV3232R/L-180	H019	HSS06006	M6×1.0	.236	.118	—
H63TH-EN2525R/L-115	H020	HSS06006	M6×1.0	.236	.118	—
H100TH-EN3232R/L-130	H020	HSS06006	M6×1.0	.236	.118	—
H63TH-EV2020R/L-105-3	H021	HSS06006	M6×1.0	.236	.118	—

STOP PLUG FOR NOZZLE

Holder Order Number	Page	Parts Order Number	Reference Dimensions (inch)			Torque (lbf-ft)
			a	c	e	
H63TH-EV2020R/L-105-3	H021	HSS05012	M5×0.8	.472	.098	—

M

SPARE PARTS

Memo

A series of horizontal dotted lines for writing, spanning the width of the page.