

Parts N1 to N16

N

Parts/Other

N

Parts

Technical Guidance
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Stock Markings and Symbols

- mark: Standard stocked item
- mark: To be replaced with the new item featured on the same page
- ▲ mark: To be replaced by a new product, made to order, or discontinued (please confirm stock availability)

- * mark: Semi-standard stock (please confirm stock availability)
- mark: Stock or planned stock (please confirm stock availability)
- Blank: Made-to-order item
- mark: Not available

Screws

■ Screws

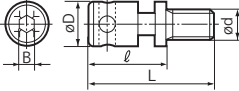
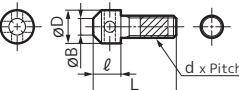
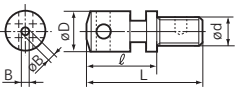
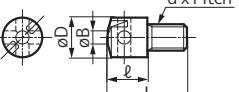
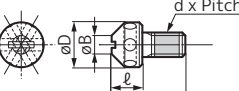
Double Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)	
			d	Pitch	L	ℓ	D	B		
<p>Left-hand Thread Right-hand Thread</p>	WB4-8	●	M4	0.7	7.5	3	3.0	2	—	
	WB5-10	●	M5	0.8	10	4	3.8	2.5	—	
	WB5-12	●	M5	0.8	12	5	3.8	2.5	—	
	WB5-18	●	M5	0.8	18	6	3.8	2.5	—	
	WB6-10	●	M6	1.0	10	3.5	4.5	3	—	
	WB6-13	●	M6	1.0	13	5	4.5	3	—	
	WB6-16	●	M6	1.0	16	6	4.5	3	—	
	WB6-20	●	M6	1.0	20	8.5	4.5	3	—	
	WB6-30	●	M6	1.0	30	12	4.5	3	—	
	WB8-20	●	M8	1.25	20	8.5	6.2	4	—	
	WB8-24	●	M8	1.25	24	8.5	6.2	4	—	
	WB8-30	●	M8	1.25	30	11.5	6.2	4	—	
* : Wrench hole on the left-hand thread side only.										
Double Screw (Single Torx)	Cat. No.	Stock	Dimensions (mm)						(N·m)	
			d	Pitch	L	ℓ	D	B		
	WB6-13T	●	M6	1.0	13	5	4.5	T20	—	
	WB6-16T	●	M6	1.0	16	6	4.5	T20	—	
	WB6-20T	●	M6	1.0	20	8.5	4.5	T20	—	
	WB6-20TL	●	M6	1.0	20	8.5	4.5	T20	—	
	WB7-15T	●	M7	1.0	15	5.5	5	T25	—	
	WB7F-15T	●	M7	0.75	15	5.5	5	T25	—	
	WB7F-20TL	●	M7	0.75	20	8.5	5.5	T25	—	
	WB8-22T	●	M8	1.25	22	8.5	6.2	T27	—	
	WB8-22TL	●	M8	1.25	22	8.5	6.2	T27	—	
	WB8-30T	●	M8	1.25	30	11.5	6.2	T27	—	
	WB8R-16T	●	M8	1.25	14	5.5	6.2	T27	—	
	WB8L-16T	●	M8	1.25	14	5.5	6.2	T27	—	
Torx Hole Position Part number suffix: T indicates left-hand thread side, TL indicates right-hand thread side										
Cap Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)	
			d	Pitch	L	ℓ	D	B		
<p>Fig 1</p> <p>Torx Hole</p> <p>Fig 2</p>	BX0304	●	M3	0.5	4	Full thread	5.5	2.5	1	—
	BX0308	●	M3	0.5	8	Full thread	5.5	2.5	1	—
	BX0408	●	M4	0.7	8	Full thread	7	3	1	—
	BX0410	●	M4	0.7	10	Full thread	7	3	1	—
	BX0430	●	M4	0.7	30	20	7	3	1	—
	BX0414	●	M4	0.7	14	Full thread	7	3	1	—
	BX0418	●	M4	0.7	18	—	7	3	1	—
	BX0425	●	M4	0.7	25	20	7	3	1	—
	BX0508	●	M5	0.8	8	Full thread	8.5	4	1	—
	BX0510	●	M5	0.8	10	Full thread	8.5	4	1	—
	BX0512	●	M5	0.8	12	Full thread	8.5	4	1	—
	BX0515	●	M5	0.8	15	Full thread	8.5	4	1	—
	BX0520	●	M5	0.8	20	Full thread	8.5	4	1	5.0
	BX0520T	●	M5	0.8	20	16	8.5	T20	1	—
	BX0610	●	M6	1.0	10	Full thread	10	5	1	—
	BX0615	●	M6	1.0	15	Full thread	10	5	1	—
	BX0620	●	M6	1.0	20	Full thread	10	5	1	—
	BX0622	●	M6	1.0	22	18	10	5	1	—
	BX0625	●	M6	1.0	25	18	10	5	1	—
	BX0635	●	M6	1	35	—	10	5	1	—
	BX0640	●	M6	1	40	—	10	5	1	—
	BX0820	●	M8	1.25	20	Full thread	13	6	1	—
	BX0840	●	M8	1.25	40	—	13	6	1	—
	BX0845	●	M8	1.25	45	—	13	6	1	—
	BX0850	●	M8	1.25	50	—	13	6	1	—
	BX1045	●	M10	1.5	45	—	16	8	1	—
	BX1060	●	M10	1.5	60	—	16	8	1	—
	BX1070	●	M10	1.5	70	—	16	8	1	—
	BX1240	●	M12	1.75	40	—	18	10	1	—
	BX1260	●	M12	1.75	60	—	18	10	1	—
	BX1265	●	M12	1.75	65	—	18	10	1	—
	BX1660	●	M16	2.0	60	—	24	14	1	—
BX2065	●	M20	2.5	65	—	30	17	1	—	
EHBX0512	●	M5	0.8	12	10.5	8	4	1	—	
FADR	●	M7	1.0	10	7	10.5	T25	1	—	
CP-M8-25-1	●	M8	1.25	25	Full thread	13	6	2	—	

■ Screws

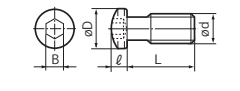
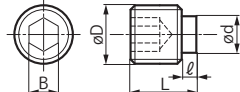
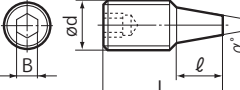
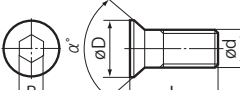
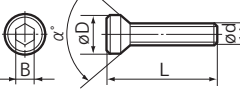
Cap Screw (Torx Plus)	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			d	Pitch	L	ℓ	D	H			
	BXA0310IP	●	M3	0.5	7.5	Full thread	5.3	2.4	10IP	2.0	
Cap Screw with Oil Hole	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			d	Pitch	L	ℓ	D	H			
	BXH0825-D13	●	M8	1.25	25	Full thread	13	8	6	—	
	BXH1030-D16	●	M10	1.5	30	Full thread	16	10	8	—	
	BXH1235-D18	●	M12	1.75	35	Full thread	18	12	10	—	
Cap Screw with Oil Hole	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			d	Pitch	L	ℓ	D	H1			
	BXH1235-D33	●	M12	1.75	35	Full thread	33	10	2	10	—
	BXH1635-D40	●	M16	2.0	35	Full thread	40	10	—	14	—
	BXH2036-D50	●	M20	2.5	36	29	50	14	4	17	—
Set Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			d	Pitch	L	ℓ	D	B			
	BTD0408	●	M4	0.7	8	2	2.8	2	—		
	BTD0508	●	M5	0.8	8	2	3.5	2.5	—		
	BTD05F09	●	M5	0.5	9	2	4	T15	—		
	BTD0510	●	M5	0.8	10	3	3.5	2.5	—		
	BTD0609	●	M6	1.0	9	2	4	3	—		
	BTD0812	●	M8	1.25	12	2	5	4	—		
	BTD0818	●	M8	1.25	18	6	5	4	—		
	BTD0818	●	M8	1.25	18	6	5	4	—		
Button Head Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			d	Pitch	L	ℓ	D	B			
<p>Hexagonal Hole type</p> <p>Torx Hole</p>	BH0304	●	M3	0.5	4	Full thread	5.5	2	—		
	BH0306	●	M3	0.5	6	Full thread	5.5	2	—		
	FBUP3-A0-9 (equiv. BH0308)	●	M3	0.5	8	Full thread	5.5	2	1.0		
	BH0310	●	M3	0.5	10	Full thread	5.5	2	—		
	BH03504	●	M3.5	0.6	4	Full thread	7	2	—		
	BH0408	●	M4	0.7	8	Full thread	6	2.5	—		
	BH0410T	●	M4	0.7	10	8	7.5	T15	—		
	BH0516	●	M5	0.8	16	14.4	9.5	3	—		
	BH0615	●	M6	1.0	15	Full thread	10.5	4	—		
	BH0616	●	M6	1.0	16	14	10.5	4	—		
	BH0620	●	M6	1.0	20	Full thread	10.5	4	—		
	BH0824R	●	M8	1.25	24	20	12	4	—		
	BH0824L	●	M8	1.25	24	20	12	4	—		
	BH0825	●	M8	1.25	25	22.5	14	5	—		
	BH0830R	●	M8	1.25	30	26	12	4	—		
BH0830L	●	M8	1.25	30	26	12	4	—			
BH1030R	●	M10	1.5	30	26	14	5	—			
BH1030L	●	M10	1.5	30	26	14	5	—			
BH1036R	●	M10	1.5	36	32	14	5	—			
BH1036L	●	M10	1.5	36	32	14	5	—			
* : Same wrench hole (B) on the screw end											
* : Left-hand threads											
Cap Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			d	Pitch	L	ℓ	D	B			
	BHA0525	●	M5	0.8	25.5	9	8.5	3	—		
	BHA0625	●	M6	1.0	30	11	10.5	4	—		
	BHE0407	●	M4	0.7	9.5	2	5.7	2.5	1.8		
	BHE0510	●	M5	0.8	13	3	7.7	3	2.7		
Axial Adjustment Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			d	Pitch	L	ℓ	D	B			
	AJM4F	●	M4	0.5	12	5	8	2	—		
Axial Adjustment Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			d	Pitch	L	ℓ	D	B			
	RFJ	●	M4	0.7	12	6	6	2	—		

Screws

■ Screws

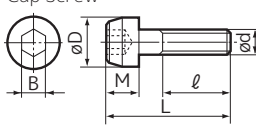
Adjustment Screw	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	SRFJ	●	M4	0.7	17	10.5	6	2	—
Axial Adjustment Screw	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	FMJ	●	M4	0.5	15	5	6	3	—
Adjustment Bolt	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	FMUJ	●	M4	0.7	17	10.5	6	1	—
Adjustment Screw	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	HFJ	●	M4	0.7	12	6	6	2	—
Axial Adjustment Screw	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	AJM4FT	●	M4	0.5	12	5	7.3	3	—
Lever Lock Bolt	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	LCS3	●	M6	1.0	17	10	6	2.5	—
	LCS4	●	M8	1.0	21	10	8	3	—
	LCS5	●	M8	1.0	25	12	8	3	—
	LCS6	●	M10	1.0	27.2	14.4	9.8	4	—
	LCS4CA	●	M8	1.0	17.5	10	8	3	—
	LCS8	●	M12	1.0	36	18.3	11.8	5	—
	LCS10	●	M5	0.8	14.5	8.5	5	2	—
	LCS12	●	M6	1.0	17	9.6	6	2.5	—
	LCS16	●	M6	1.0	21	13.6	6	2.5	—
	LCS20	●	M8	1.0	23.5	13.2	8	3.0	—
	LCS25	●	M10	1.0	30	17.4	10	4.0	—
	LCS32	●	M12	1.0	36	19.3	12	5.0	—
	LCS3TE	●	M6	1.0	15.5	8.5	6	2.5	—
LCS33NT	●	M5	0.8	12	6.2	—	2	—	

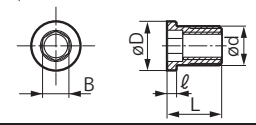
■ Screws

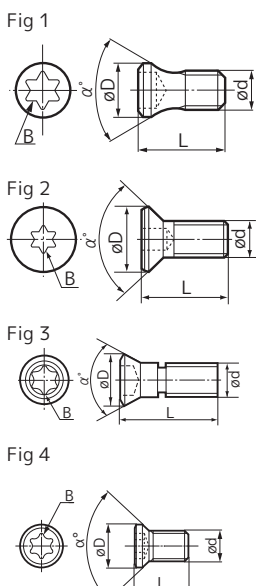
Button Head Screw	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	FBH0512	●	M5	0.8	12	3.1	7.3	3	—
	FBX0811	●	M8	1.25	11.1	4.9	8.5	4	—
	FBX0817	●	M8	1.25	17.1	4.9	8.5	4	—
Set Screw	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	B	α	
Hexagonal Hole type	BT0306	●	M3	0.5	6	—	1.5	—	—
	BT0404	●	M4	0.7	4	—	2	—	—
	BT0406	●	M4	0.7	6	—	2	—	—
	BT0408	●	M4	0.7	8	—	2	—	—
Torx Hole	BT0506	●	M5	0.8	6	—	2.5	—	—
	BT06035T	●	M6	1.0	3.5	—	T15	—	—
Shape of BT06035T									
Set Screw (Rod tipped)	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	BTD0809	●	M8	1.25	9	2	5	4	—
	BTD1012	●	M10	1.5	12	2	8	5	—
Set Screw	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	B	α	
	BTT0407	●	M4	0.5	7	2.6	—	2	60
	BTT0411	●	M4	0.5	11	2.6	—	2	60
Flat Head Screw (Hexagonal Hole)	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	D	B	α	
	FBUP2-A0-8	●	M3	0.5	10	5.5	2	82	1.0
	BFX0410R	●	M4	0.7	9.5	5.8	2.5	90	1.8
	BFX0410L	●	M4	0.7	9.5	5.8	2.5	90	1.8
	BFX0511R	●	M5	0.8	10.5	7.5	3	90	2.7
	BFX0511L	●	M5	0.8	10.5	7.5	3	90	2.7
*: Left-hand threads									
Special Cap Screw	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	D	B	α	
	BXF0520R	●	M5	0.8	25	8.5	4	90	7.0
	BXF0616	●	M6	1.0	16	9	4	90	—

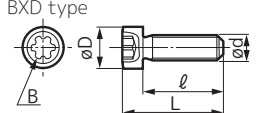
Screws

■ Screws

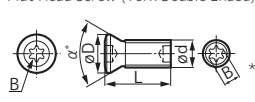
Cap Screw	Cat. No.	Stock	Dimensions (mm)							N-m
			d	Pitch	L	ℓ	D	B	M	
	QBX120	●	M12	1.75	54	30	22	10	14	—
	QBX160	●	M16	2.0	56	30	28	14	16	—

Special Hollow Screw	Cat. No.	Stock	Dimensions (mm)					N-m	
			d	Pitch	L	ℓ	D		B
	BW0507F	●	M5	0.5	7	1.2	6.3	3.5	—
	BW0609F	●	M6	0.75	9	1.5	7.7	4	—

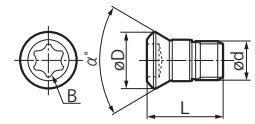
Flat Head Screw (Torx Hole)	Cat. No.	Stock	Dimensions (mm)							Fig	N-m
			d	Pitch	L	D	B	α°	Fig		
	BFT2045T06	●	M2	0.4	4.5	2.7	T6	60	1	—	
	BFT2506T08	●	M2.5	0.45	6	3.45	T8	60	1	—	
	BFTY02205	●	M2.2	0.45	5	3.05	T7	60	1	—	
	BFTY02206	●	M2.2	0.45	5.6	3.05	T7	60	1	1.0	
	BFN0511T	●	M5	0.8	10.5	7.3	T20	90	2	—	
	BFTX016033	●	M1.6	0.35	3.3	2.6	T6	60	1	0.2	
	BFTX02507	●	M2.5	0.45	6.5	3.45	T8	60	4	—	
	BFTX03508	●	M3.5	0.6	8	5.1	T10	52	4	2.0	
	BFTX03584	●	M3.5	0.6	7.4	5.2	T15	60	4	3.0	
	BFTX03588	●	M3.5	0.6	8.8	5.2	T15	60	4	3.4	
	BFTX0408	●	M4	0.7	8	5.5	T15	60	1	—	
	BFTX0414	●	M4	0.7	14.5	5.5	T15	60	1	3.0	
	BFTX01604N	●	M1.6	0.35	4.2	2.4	T6	60	1	0.2	
	BFTX0203N	●	M2	0.4	3	2.7	T6	60	1	0.5	
	BFTX0204N	●	M2	0.4	4.3	2.7	T6	60	1	0.5	
	BFTX02205N	●	M2.2	0.45	4.5	3	T6	60	1	0.5	
	BFTX02505N	●	M2.5	0.45	4.5	3.45	T8	60	4	1.1	
	BFTX02506N	●	M2.5	0.45	5.5	3.45	T8	60	4	1.5	
	BFTX0305N	●	M3	0.5	5.3	4.2	T10	60	1	2.0	
	BFTX0306N	●	M3	0.5	5.8	4.2	T10	60	4	2.0	
	BFTX0307N	●	M3	0.5	6.5	4.2	T10	60	4	2.0	
	BFTX03085N	●	M3	0.5	8.5	5.4	T10	60	1	—	
	BFTX0312N	●	M3	0.5	12	5.4	T10	60	1	—	
	BFTX0407N	●	M4	0.7	7	5.6	T15	60	4	3.0	
	BFTX0409N	●	M4	0.7	9	5.6	T15	60	4	3.4	
	BFTX0412N	●	M4	0.7	12	5.5	T15	60	1	3.0	
	BFTX0509N	●	M5	0.8	9	7	T20	60	4	5.0	
	BFTX0511N	●	M5	0.8	11.5	7	T20	60	4	5.0	
	BFTX0513N	●	M5	0.8	13	7	T20	60	1	5.0	
	BFTX0515N	●	M5	0.8	15	7	T20	60	2	—	
	BFTX0615N	●	M6	1.0	15	9	T25	60	4	5.0	
	BFTX0619N	●	M6	1.0	19	9.3	T25	60	4	5.0	
	BFTX0203A	●	M2	0.4	3	2.7	T6	90	1	0.5	
	BFTX0204A	●	M2	0.4	4.3	2.7	T6	90	1	0.5	
	BFTX0305A	●	M3	0.5	5.3	4.3	T10	90	1	—	
	BFTX0306A	●	M3	0.5	5.8	4.3	T10	90	1	2.0	
	BFTX0307A	●	M3	0.5	6.8	4.3	T10	90	1	2.0	
	BFTX0407A	●	M4	0.7	7.3	5.6	T15	90	1	3.4	
	BFTX0410A	●	M4	0.7	10.3	5.6	T15	90	1	3.4	
	BFTX0509A	●	M5	0.8	9.3	6.9	T20	90	1	5.0	
BFTX0204NS	●	M2	0.4	4.4	3.2	T1.8	82	2	0.7		
BFTX0205NS	●	M2	0.4	5.5	3.2	T1.8	90	4	0.7		
BFTX02506NS	●	M2.5	0.45	6.8	3.6	T2.2	90	4	1.4		
BFTX0307NS	●	M3	0.5	7.8	4.2	T2.9	90	4	3		
BFTX02206NT	●	M2.2	0.45	6	3.2	T1.8	60	4	0.7		
BFTX02507NT	●	M2.5	0.45	7	3.6	T2.2	60	4	1.4		
BFTX0408NT	●	M4	0.7	8	5.8	T3.6	60	4	5		
BFTX0410NT	●	M4	0.7	10	5.8	T3.6	60	4	5		
BFTX02508NV	●	M2.5	0.45	7.5	3.45	T8	60	3	1.5		
BFTX0407K	●	M4	0.7	7	5.5	T15	86	4	—		

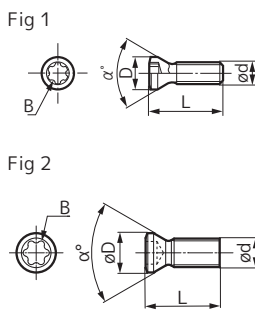
Special Cap Screw BXD type	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	BFF2506T08	●	M2.5	0.8	7.5	6	3.45	T8	—
	BFF3505T10	●	M3.5	0.6	6.6	5	5	T10	—
	BFF4510T15	●	M4.5	0.75	12.1	10.5	5.9	T15	—

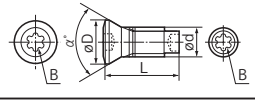
■ Screws

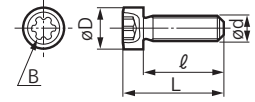
Flat Head Screw (Torx Double Ended)	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	D	B	α°	
	BFTX0410T8R	●	M4	0.7	9.6	5.6	T8	60	1.1
	BFTX0410T8L	●	M4	0.7	9.6	5.6	T8	60	1.1

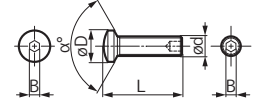
*: Left-hand threads
R: right-hand thread, L: left-hand thread

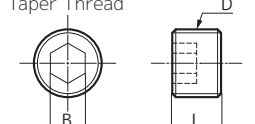
Fine Thread Flat Head Screw (Torx Hole) (For SEC Ballnose Endmills)	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	D	B	α°	
	BFTG0408F	●	M4	0.5	7.5	5.7	T15	61	3.4
	BFTG0409F	●	M4	0.5	8.4	6.15	T15	61	3.4
	BFTG0513F	●	M5	0.5	13	6.8	T20	61	5.0
	BFTG0617F	●	M6	0.75	16.5	8	T25	61	7.5
	BFTG0621F	●	M6	0.75	21	9.5	T25	61	7.5
	BFTG0825F	●	M8	0.75	24.5	12	T25	61	7.5

Flat Head Screw (Torx Plus)	Cat. No.	Stock	Dimensions (mm)						Fig	N-m
			d	Pitch	L	D	B	α°		
	BFTX01804IP	●	M1.8	0.35	3.7	2.45	6IP	60	1	—
	BFTX02505IP	●	M2.5	0.45	4.5	3.45	8IP	60	1	—
	BFTX02506IP	●	M2.5	0.45	5.5	3.45	8IP	60	1	—
	BFTX02507IP	●	M2.5	0.45	6.5	3.45	8IP	60	2	—
	BFTX0305IP	●	M3	0.5	5.3	3.8	8IP	60	1	2.0
	BFTX0306IP	●	M3	0.5	6	3.8	8IP	60	1	2.0
	BFTX0307IP	●	M3	0.5	7	4.3	10IP	55	1	2.0
	BFTX0308IP	●	M3	0.5	8	3.8	8IP	60	1	—
	BFTX03510IP	●	M3.5	—	9.65	5.3	—	60	1	—
	BFTX03510IP08	●	M3.5	0.6	10	5.3	8IP	60	1	—
	BFTX03510IP15	●	M3.5	0.6	10	5.3	15IP	60	1	—
	BFTX03512IP	●	M3.5	0.6	11.5	5.3	15IP	60	1	3.0
	BFTX03584IP	●	M3.5	0.6	7.4	5.2	15IP	60	1	—
	BFTX0407IP	●	M4	0.7	8	5.6	15IP	60	1	3.0
	BFTX0409IP	●	M4	0.7	9	5.6	15IP	60	1	3.0
	BFTX04095IP	●	M4	0.7	9.5	5.6	15IP	60	2	—
	BFTX0412IP	●	M4	0.7	12	5.5	15IP	60	1	3.0
	BFTX0418IP	●	M4	0.7	18	5.5	15IP	60	1	—
	BFTX04513IP20	●	M4.5	0.75	13.1	6.8	20IP	60	1	—
	BFTX0511IP	●	M5	0.8	11.5	7	20IP	60	1	—
	BFTX0513IP	●	M5	0.8	13	7	20IP	60	1	—
	BFTX0615IP	●	M6	1.0	15	9	25IP	60	1	—
	BXD02208IPC	●	M2.2	0.45	7.5	3.5	8IP	0	1	—
	BXD02509IPC	●	M2.5	0.45	9	4.1	10IP	0	1	—
	BXD03011IPC	●	M3	0.5	10.5	4.9	15IP	0	1	—
	BXD03512IPC	●	M3.5	0.6	11.5	5.5	15IP	0	1	—
	BXD04014IPC	●	M4	0.7	12.5	6	20IP	0	1	—
	BXD04515IPC	●	M4.5	0.75	14.3	6.8	25IP	0	1	—

Flat Head Screw (Torx Plus Double Ended)	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	D	B	α°	
	BFTX0410NSW	●	M4	0.7	10	5.8	2.2	90	1.4
	BFTX0410NTW	●	M4	0.7	10	5.85	2.2	60	1.4
	BFTX0412NTW	●	M4	0.7	12	5.85	2.2	60	1.4

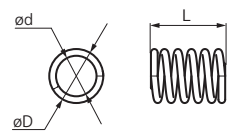
Cap Screw (Torx Plus)	Cat. No.	Stock	Dimensions (mm)						N-m
			d	Pitch	L	ℓ	D	B	
	BXD02208IP	●	M2.2	0.45	7.5	5.7	3.5	8IP	—
	BXD02509IP	●	M2.5	0.45	9	7	4.1	10IP	—
	BXD03011IP	●	M3	0.5	10.5	8	4.9	15IP	—
	BXD03512IP	●	M3.5	0.6	11.5	8.8	5.5	15IP	—
	BXD04014IP	●	M4	0.7	12.5	9.5	6	20IP	—
BXD04515IP	●	M4.5	0.75	14.3	10.8	6.8	25IP	—	

Oval Head Screw	Cat. No.	Stock	Dimensions (mm)					N-m	
			d	Pitch	L	D	B		α°
	FBH0520NT	●	M5	0.8	20	8	2.5	120	—

Taper Thread	Cat. No.	Stock	Dimensions (mm)					N-m	
			D	L	B	—	—		
	XP02	●	R 1/8	7	5	—	—	—	—

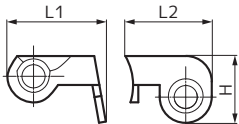
Springs / Covers / Cassettes / Eccentric Pins / Lever Pins / Clamp Plates

■ Springs



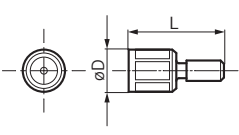
Cat. No.	Stock	Dimensions (mm)						N·m
		d	D	L	—	—	—	
CSP08	●	6.5	8	10	—	—	—	—
CSP12	●	9.6	12	10	—	—	—	—
CSP12J	●	6	8	10	—	—	—	—
CSP25	●	2	2.5	12	—	—	—	—
GSP-5	●	5.3	6.5	6.5	—	—	—	—
GSP06	●	6.4	7.6	7	—	—	—	—
GSP10	●	8.5	10.5	12	—	—	—	—
DSP5	●	2.3	3.3	10.5	—	—	—	—
S-SP4-20	●	3	4	20	—	—	—	—

■ Covers



Cat. No.	Stock	Dimensions (mm)						N·m
		L1	L2	H	—	—	—	
RFC	●	17	15	12	—	—	—	—

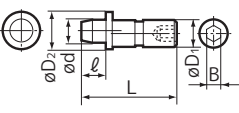
■ Cassettes



Cat. No.	Stock	Dimensions (mm)						N·m
		D	L	—	—	—	—	
BNRE-08	●	6.2	14	—	—	—	—	—
BNRE-10	●	8	16	—	—	—	—	—
BNRE-12	●	9.9	18.5	—	—	—	—	—
BNRE-16	●	12.6	21	—	—	—	—	—
BNRE-20	●	17	20.5	—	—	—	—	—

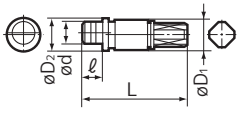
■ Eccentric Pins

For SEC-Boring Bars



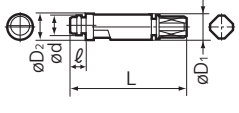
Cat. No.	Stock	Dimensions (mm)							N·m
		d	D ₁	D ₂	L	l	B	—	
CPB43	●	4.5	5.5	7	19	5	3	—	—
CPB44T	●	4.5	5.5	7	22	5	3	—	—
CPB45T	●	4.5	5.5	7	27	5	3	—	—
CPB43S	●	4.5	5.5	7	16	5	3	—	—
CPB32C	●	3.3	4.1	5.5	14	3.4	2.5	—	—
CPB32	●	3.4	4.1	5.5	14	3.4	2.5	—	—
CPB34	●	3.4	4.1	5.5	14	5	2.5	—	—
CPB35	●	3.4	4.1	5.5	17	5	2.5	—	—
CPB42	●	4.5	5.5	7	14	5	3	—	—
CPB64	●	6.8	8.2	10.5	24	6.6	4	—	—

For SEC-30 type Holders



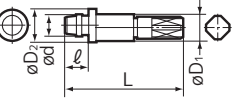
Cat. No.	Stock	Dimensions (mm)						N·m
		d	D ₁	D ₂	L	l	—	
P432U	●	5.025	7	7.5	21	4.9	—	—
P433U	●	5.025	7	7.5	24	4.9	—	—
P434U	●	5.025	7	7.5	30	4.9	—	—
P221US	●	2.11	3.5	4	18	3.3	—	—
P321US	●	3.635	5	5.5	18	3.3	—	—
P322US	●	3.635	5	5.5	21	3.3	—	—
P323US	●	3.635	5	5.5	24	3.3	—	—
P332US	●	3.635	5	5.5	21	4.9	—	—
P333US	●	3.635	5	5.5	24	4.9	—	—
P334US	●	3.635	5	5.5	30	4.9	—	—

For SEC-30 type Holders



Cat. No.	Stock	Dimensions (mm)						N·m
		d	D ₁	D ₂	L	l	—	
P433W	●	5.025	7	7.8	24	4.9	—	—
P434W	●	5.025	7	7.8	30	4.9	—	—
P323WS	●	3.635	5	5.8	24	3.3	—	—
P333WS	●	3.635	5	5.8	24	4.9	—	—
P334WS	●	3.635	5	5.8	30	4.9	—	—

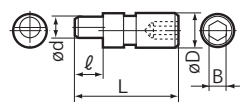
For SEC-60 type Holders



Cat. No.	Stock	Dimensions (mm)						N·m
		d	D ₁	D ₂	L	l	—	
CPZ333	▲	3.4	4.1	5.5	25	5	—	—
CPZ333V	●	3.4	4.1	5.5	29	5	—	—
CPZ334	●	3.4	4.1	5.5	32	5.5	—	—
CPZ334V	●	3.4	4.1	5.5	35	5	—	—

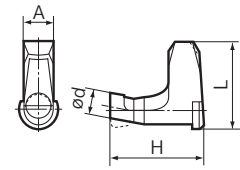
■ Eccentric Pins

For SEC-Cartridge BU

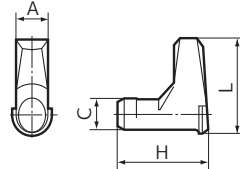


Cat. No.	Stock	Dimensions (mm)						N·m
		d	D	L	ℓ	B	—	
CPU304C	●	3.3	5.5	10	3.5	3	—	—

■ Lever Pins

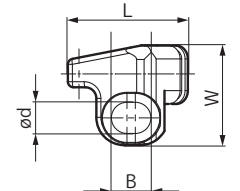


Cat. No.	Stock	Dimensions (mm)						N·m
		A	H	L	d	—	—	
LCL06	●	2.5	6.28	7	2	—	—	—
LCL09	●	3.4	9.3	10.75	3	—	—	—
LCL10	●	3.4	11.8	10.8	3	—	—	—
LCL12	●	3.7	13.4	12.9	3.5	—	—	—
LCL16	●	4.6	17.6	18.4	4.4	—	—	—
LCL20	●	6	18.9	20.4	5.6	—	—	—
LCL25	●	7.5	23.5	23.9	6.2	—	—	—
LCL32	●	8.5	26.8	29.8	8	—	—	—

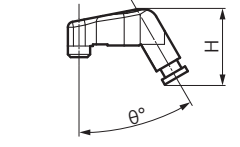


Cat. No.	Stock	Dimensions (mm)						N·m
		A	H	L	C	—	—	
LCL3S	●	3.7	10.6	10	3.6	—	—	—
LCL4S	●	4.7	14	14.55	4.4	—	—	—
LCL3	●	3.7	12	10	3.6	—	—	—
LCL4	●	4.7	14	14.55	4.7	—	—	—
LCL5	●	6	17	17.1	6	—	—	—
LCL6	●	7.5	21	20.5	7.5	—	—	—
LCL8	●	8.6	25.4	25.4	8.6	—	—	—
LCL33NT	●	3.2	9.4	10	3.2	—	—	—

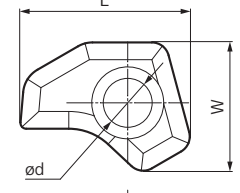
■ Clamp Plates



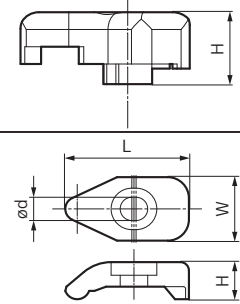
Cat. No.	Stock	Dimensions (mm)							N·m
		W	L	d	B	H	θ°	—	
JCR-01	●	17.9	21.6	5.6	7.1	13.5	30	—	—
JCL-01	●	17.9	21.6	5.6	7.1	13.5	30	—	—
JDR-01	●	16.5	25.9	5.6	7.2	14.4	30	—	—
JDL-01	●	16.5	25.9	5.6	7.2	14.4	30	—	—
JVR-01	●	18.3	28.9	5.6	7.5	15.2	30	—	—
JVL-01	●	18.3	28.9	5.6	7.5	15.2	30	—	—



Cat. No.	Stock	Dimensions (mm)						N·m
		W	L	d	H	—	—	
DCR1	●	23.5	29.3	8.5	12.5	—	—	—
DCL1	●	23.5	29.3	8.5	12.5	—	—	—
DCR2	●	22.3	29.4	8.5	12.5	—	—	—
DCL2	●	22.3	29.4	8.5	12.5	—	—	—
DCR3	●	27.7	35.4	10.5	12.5	—	—	—
DCL3	●	27.7	35.4	10.5	12.5	—	—	—



Cat. No.	Stock	Dimensions (mm)						N·m
		W	L	d	H	—	—	
TRCP3	●	15	29.2	5.5	8.8	—	—	—



Cat. No.	Stock	Dimensions (mm)						N·m
		W	L	d	H	—	—	
TRCP3	●	15	29.2	5.5	8.8	—	—	—

Clamp Plates

■ Clamp Plates

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	L	d	H	—	—	
MMW30	●	18	16.6	5.5	8.9	—	—	—
MMW40	●	24	18	6.5	11	—	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	L	d	H	B	—	
MWW40	●	20	19.15	6.5	10.8	7.35	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	L	d	H	—	—	
GDW600R	●	25	32	7	15	—	—	—
GDW600L	●	25	32	7	15	—	—	—
GDW615R	●	21	37	7	15	—	—	—
GDW615L	●	21	37	7	15	—	—	—
GDW800R	●	25	32	7	15	—	—	—
GDW800L	●	25	32	7	15	—	—	—
GDW815R	●	22.5	37	7	15	—	—	—
GDW815L	●	22.5	37	7	15	—	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	L	d	H	—	—	
GDW645R	●	30	31.2	7	15	—	—	—
GDW645L	●	30	31.2	7	15	—	—	—
GDW845R	●	30	28	7	15	—	—	—
GDW845L	●	30	28	7	15	—	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	L	d	H	—	—	
GDS600R	●	25	32	7	15	—	—	—
GDS600L	●	25	32	7	15	—	—	—
GDS615R	●	21	37	7	15	—	—	—
GDS615L	●	21	37	7	15	—	—	—
GDS800R	●	25	32	7	15	—	—	—
GDS800L	●	25	32	7	15	—	—	—
GDS815R	●	22.5	37	7	15	—	—	—
GDS815L	●	22.5	37	7	15	—	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	L	d	H	—	—	
GDS645R	●	30	31.2	7	15	—	—	—
GDS645L	●	30	31.2	7	15	—	—	—
GDS845R	●	30	28	7	15	—	—	—
GDS845L	●	30	28	7	15	—	—	—

■ Clamp Plates

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	L	d	Pitch	H	—	
CCM8-LONG	●	11	24	M8	1.25	17	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		d	Pitch	W	L	H	—	
CCM6BR	●	M6	1.0	8.8	16.5	7	—	—
CCM6BL	●	M6	1.0	8.8	16.5	7	—	—
CCM5BSR	●	M5	0.8	6.8	14	7	—	—
CCM5BSL	●	M5	0.8	6.8	14	7	—	—
CCM6UL	●	M6	1.0	8.8	17.5	8	—	—
CCM8UR	●	M8	1.25	12	21	8	—	—

*: Left-hand threads

Cat. No.	Stock	Dimensions (mm)						(N·m)
		d	Pitch	D	H	—	—	
BWS30	●	M8	1.25	9	11.2	—	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		L	D	—	—	—	—	
CKBW16	●	9.6	7.2	—	—	—	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		T	d	D	H	—	—	
BNGCR	●	9.88	7	11	24	—	—	—
BNGCL	●	9.88	7	11	24	—	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	L	d	D	H	—	
BNBC	●	6.3	11	3	5.7	3.4	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		T	d	D	h	H	—	
GCLR-3	●	6.3	5.3	9	2	15	—	—
GCLL-3	●	6.3	5.3	9	2	15	—	—
GCLR-4	●	6.3	5.3	9	3	15	—	—
GCLL-4	●	6.3	5.3	9	3	15	—	—
GCLR-6	●	6.3	5.3	9	5	18	—	—
GCLL-6	●	6.3	5.3	9	5	18	—	—

Cat. No.	Stock	Dimensions (mm)						(N·m)
		W	d	D	H	—	—	
GTCR	●	30.4	8.7	14.3	18.6	—	—	—
GTCL	●	30.4	8.7	14.3	18.6	—	—	—

Clamp Plates

■ Clamp Plates

	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	UFKWR	●	10	M7	1	10.54	—	—	—		
	UFKWL	●	10	M7	1	10.54	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	UFTWR	●	10	M7	1	11.3	—	—	—		
	UFTWL	●	10	M7	1	11.3	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			L	d	Pitch	H	—	—			
	GRWR	●	30.4	M8	1.25	13	—	—	—		
	GRWL	●	30.4	M8	1.25	13	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			W	D	H	—	—	—			
			FPWR	●	15	5.2	16	—		—	—
			FPWL	●	15	5.2	16	—		—	—
	FEWR	●	15	5.2	15	—	—	—			
	FEWL	●	15	5.2	15	—	—	—			
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			L	T	d	D	H	—			
	EHW4R	●	22	13.5	5.65	6.15	14.6	—	—		
	EHW5R	●	25	13.5	5.6	5.6	14.6	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	FTW40R	●	17	M8	1.25	12.85	—	—	—		
	FTW40L	●	17	M8	1.25	12.85	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	FTW41R	●	17	M8	1.25	12.85	—	—	—		
	FTW41L	●	17	M8	1.25	12.85	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			L	d	Pitch	H	—	—			
	ATW45R	●	14	M8	1.25	17.9	—	—	—		
	ATW45L	●	14	M8	1.25	17.9	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			L	d	D	H	T	—			
			BCS15	●	74	7	11	14		17	—
	BCS20	●	90	7	11	15.5	17	—	—		
	BCS25	●	100	7	11	15.5	17	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
			GLW40R	●	18.5	M8	1.25	16.1		—	—
			GLW40L	●	18.5	M8	1.25	16.1		—	—
	GLW50R	●	18.5	M8	1.25	14.6	—	—			
	GLW50L	●	18.5	M8	1.25	14.6	—	—			
*: Left-hand threads											

■ Clamp Plates

	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	GLW41R	●	18.5	M8	1.25	16.1	—	—	—		
	GLW41L	●	18.5	M8	1.25	16.1	—	—	—		
	GLW42R	●	18.5	M8	1.25	16.3	—	—	—		
	GLW42L	●	18.5	M8	1.25	16.3	—	—	—		
	GLW51R	●	18.5	M8	1.25	14.6	—	—	—		
	GLW51L	●	18.5	M8	1.25	14.6	—	—	—		
	GLW52R	●	18.5	M8	1.25	14.8	—	—	—		
	GLW52L	●	18.5	M8	1.25	14.8	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	GLWF41R	●	18.5	M8	1.25	13.8	—	—	—		
	GLWF41L	●	18.5	M8	1.25	13.8	—	—	—		
	GLWF80R	●	13	M8	1.25	12.8	—	—	—		
	GLWF80L	●	13	M8	1.25	12.8	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	GTW40R	●	18.5	M8	1.25	15.7	—	—	—		
	GTW40L	●	18.5	M8	1.25	15.7	—	—	—		
	GTW50R	●	18.5	M8	1.25	14.2	—	—	—		
	GTW50L	●	18.5	M8	1.25	14.2	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
			GTW41R	●	18.5	M8	1.25	15.9		—	—
			GTW41L	●	18.5	M8	1.25	15.9		—	—
			GTW42R	●	18.5	M8	1.25	16.2		—	—
			GTW42L	●	18.5	M8	1.25	16.2		—	—
	GTW51R	●	18.5	M8	1.25	14.4	—	—			
	GTW51L	●	18.5	M8	1.25	14.4	—	—			
	GTW52R	●	18.5	M8	1.25	14.6	—	—			
	GTW52L	●	18.5	M8	1.25	14.6	—	—			
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
			GTWF41R	●	18.5	M8	1.25	13.7		—	—
			GTWF41L	●	18.5	M8	1.25	13.7		—	—
	GTWF80R	●	13	M8	1.25	12.6	—	—			
	GTWF80L	●	13	M8	1.25	12.6	—	—			
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	D	H	—	—	—			
	CHWR	●	14.5	5.2	18.9	—	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	CEWR	●	10	M8	1.25	19	—	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			W	L	T	d	D	—			
	CCH4R	●	7.5	14	4.8	4.2	6	—	—		
	CCH5R	●	10	20	6.3	5.2	8	—	—		
*: Left-hand threads											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	PTW40R	●	17	M8	1.25	12.5	—	—	—		
	PTW40L	●	17	M8	1.25	12.5	—	—	—		
*: Left-hand thread											
	Cat. No.	Stock	Dimensions (mm)						N-m		
			T	d	Pitch	H	—	—			
	PTW41R	●	17	M8	1.25	12.7	—	—	—		
	PTW41L	●	17	M8	1.25	12.7	—	—	—		
*: Left-hand thread											

Clamp Plates / Adjustment Wedges

■ Clamp Plates

	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	FMW	●	W	T	d	Pitch	D	T	H	—
			10.6	14	M7	1	8	13	14	—
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	RMW	●	L	W1	W2	H	M	—	—	—
			11.1	7	8	9	M6	—	—	—
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	GRHNW	●	T	d	Pitch	D	H	—	—	—
			9	M6	1	6.5	9.8	—	—	—
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	CCH3.5	●	W	L	d	D	H	—	—	—
			7.5	13	3.8	5.5	6.7	—	—	—
	CCH4.5	●	7.9	14.1	4.8	6.5	7.85	—	—	—
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	HTW40R	●	L	T	d	Pitch	H	—	—	—
			12	9.32	M6	1	12.5	—	—	—
	HTW40L	●	12	9.32	M6	1	12.5	—	—	—
	HTW50R	●	14	9.76	M6	1	14.8	—	—	—
	HTW50L	●	14	9.76	M6	1	14.8	—	—	—
	*: Left-hand thread									
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	HTW41R	●	L	T	d	Pitch	H	—	—	—
			12	9.5	M6	1	12.5	—	—	—
	HTW41L	●	12	9.5	M6	1	12.5	—	—	—
	HTW51R	●	14	10	M6	1	14.8	—	—	—
	HTW51L	●	14	100	M6	1	14.8	—	—	—
	*: Left-hand thread									
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	DSLX8	●	W	L	d	D	H	—	—	—
			15	29.5	8.5	11	12	—	—	—
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	FAWR	●	L	T	d	Pitch	H	—	—	—
			10	6	M7	1	11	—	—	—
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	FFW	●	W	d	Pitch	H	—	—	—	—
			11.8	M6	1	8	—	—	—	—

■ Clamp Plates

	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	AW52R	●	W	T	d	Pitch	—	—	—	—
			15	10.5	M6	1	—	—	—	—
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	NW41RR	●	W	T	d	Pitch	θ°	—	—	—
			12.5	10.1	M6	1	4	—	—	—
	NW41RL	●	12.5	10.1	M6	1	4	—	—	—
	NW41FR	●	12.5	10.1	M6	1	7	—	—	—
	NW41FL	●	12.5	10.1	M6	1	7	—	—	—
	*: Left-hand thread									
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	NW42RR	●	W	T	d	Pitch	θ°	—	—	—
			12.5	10.4	M6	1	5	—	—	—
	NW42RL	●	12.5	10.4	M6	1	5	—	—	—
	NW42FR	●	12.5	10.4	M6	1	0	—	—	—
	NW42FL	●	12.5	10.4	M6	1	0	—	—	—
	*: Left-hand thread									
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	NW51R	●	W	T	d	Pitch	θ°	—	—	—
			16	10.8	M6	1	4	—	—	—
	NW51L	●	16	10.8	M6	1	4	—	—	—
	NW52R	●	16	10.9	M6	1	0	—	—	—
	NW52L	●	16	10.9	M6	1	0	—	—	—
	*: Left-hand thread									
	Cat. No.	Stock	Dimensions (mm)						(N·m)	
	BNRW-08	●	W	L	d	Pitch	H	—	—	—
			7	37.6	M6	1	7	—	—	—
	BNRW-12	●	10	41.6	M8	1	9	—	—	—
	BNRW-16	●	13	48.6	M8	1	12	—	—	—
	BNRW-20	●	16	52.4	M8	1	12	—	—	—

■ Adjustment Wedges

	Adjustment Wedge	Cat. No.	Stock	Dimensions (mm)						(N·m)
		FME	●	d	Pitch	L	ℓ	D	B	—
				M7	0.75	13	5	11	8	—
	Adjustment Wedge	Cat. No.	Stock	Dimensions (mm)						(N·m)
		BNRC-08	●	d	Pitch	W	A	H	—	—
				M5	0.8	10	6	6	—	—
		BNRC-12	●	M5	0.8	11	10	8	—	—
		BNRC-16	●	M8	1.25	16.5	12.5	12	—	—
		BNRC-20	●	M8	1.25	16.5	16.5	12	—	—
	Adjustment Wedge	Cat. No.	Stock	Dimensions (mm)						(N·m)
		FAAR	●	d	Pitch	W	A	H	—	—
				M8	0.75	10	12	6	—	—

Chipbreakers / Shims

■ Chipbreakers

Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
CBD4R	●	10	15	3.8				
CBD4L	●	10	15	3.8				
CBD5R	●	12	20	4.3				
CBD5L	●	12	20	4.3				
Cat. No.	Stock	Dimensions (mm)						N-m
L	H	T						
CBS13	●	9.3	8.5	1.6				
CBS14	●	12.5	11.7	2.4				
Cat. No.	Stock	Dimensions (mm)						N-m
L	H	T						
CBT12	●	9.3	8.16	1.6				
Cat. No.	Stock	Dimensions (mm)						N-m
L	H	T						
CBC0903	●	10	8.5	1.6				
Cat. No.	Stock	Dimensions (mm)						N-m
L	H	T						
CBC4	●	12.6	10.7	2.6				
Cat. No.	Stock	Dimensions (mm)						N-m
L	H	T						
CBD1103	●	15.9	8	1.6				

■ Shims

Cat. No.	Stock	Dimensions (mm)						N-m
		A	T	d				
LST317	●	9.5	2.7	5.2				
LST42	●	12.65	3.18	6.9				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
LSS32	●	9.48	3.18	5				
LSS42	●	12.65	3.18	6.9				
LSS53	●	15.85	4.76	7.9				
LSS63	●	19	4.76	10				
LSS84	●	25.35	6.35	13.2				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
LSS42B	●	12.65	3.18	6.9				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
LSC317	●	9.5	2.7	5.2				
LSC32	●	9.48	3.18	5				
LSC42	●	12.65	3.18	6.9				
LSC53	●	15.85	4.76	7.9				
LSC63	●	19	4.76	10				

■ Shims

Cat. No.	Stock	Dimensions (mm)						N-m
		A	T	d				
LSD317	●	9.5	2.7	5.2				
LSD42	●	12.65	3.18	6.9				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
LST317CA	●	9.33	2.7	5				
LST53	●	15.85	4.76	7.9				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
LSR817	●	8.4	2.7	5.2				
LSR10	●	8.4	3.18	4.7				
LSR12	●	10	3.18	4.7				
LSR16	●	13.5	4.76	6.3				
LSR20	●	17.2	4.76	7.9				
LSR25	●	22	6.35	9.5				
LSR32	●	28	6.35	12.7				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d			θ°			
LSC42B	●	12.65	3.18	6.9		8		
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d	D		θ°			
LSW42B	●	12.7	3.18	6.9	15	15		
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
STN1103		6.3	3.18	3.4				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
STND323	●	9.3	3.18	3.4				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
SSN0903	●	9.5	3.18	3.4				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d						
SSND423	●	12.5	3.18	3.4				
SSND433	●	12.5	4.76	3.4				
Cat. No.	Stock	Dimensions (mm)						N-m
A	T	d ₁	d ₂					
EST32	●	9.53	3.18	5.5	5.9			
EST43	●	12.7	4.76	7.5	7.9			

Shims

Shims

For SEC-30 type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d ₁	d ₂	—	—	
	E542	●	12.7	3.18	7.5	7.9	—	—	—
For SEC-30 type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	SCN0903	●	9.5	3.18	3.4	—	—	80	—
For SEC-30 type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	SDN1103	●	9.5	3.18	3.4	—	—	55	—
For SEC-40 type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	SCND433	●	12.65	4.76	3.4	—	—	80	—
For SEC-40 type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	STPD322	●	8.4	3.18	3.4	—	—	6	—
	STPD422	●	11	3.18	3.4	—	—	6	—
	STPL42	●	11	3.18	3.4	—	—	6	—
For SEC-40 type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	SSPD422	●	11.6	3.18	3.4	—	—	6	—
	SSPD522	●	14.1	3.18	3.4	—	—	6	—
For SEC-40 type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	SRND32	●	3.2	3.4	9.53	—	—	—	—
	SRND42	●	—	—	12.7	—	—	—	—
For SEC-60 type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	SVW322	●	9.5	3.18	4.7	6.5	—	35	—
	SDW323	●	9.5	3.18	4.7	6.5	—	55	—
	SDW423	●	12.65	3.18	6.2	8	—	55	—
	SCW323	●	9.5	3.18	4.8	6.5	—	80	—
	SCW423	●	12.65	3.18	6.2	8	—	80	—
	SCW635	●	19	4.76	9	11.5	—	80	—
For SEC-M type Holders For SEC-Boring Bars	Cat. No.	Stock	Dimensions (mm)						(N·m)
	STW323	●	9.5	3.18	4.7	6.5	—	—	—
	STW434	●	12.65	4.76	6.2	8	—	—	—
For SEC-M type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	SWW433	●	12.65	4.76	6.2	8	—	—	—
For SEC-M type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	WNS0603B	●	9.525	3.18	3.4	4.5	—	—	—
	WNS0803B	●	12.7	3.18	3.4	4.5	—	—	—
	WNS0804	●	12.57	4.76	4.4	6	—	—	—
	WNS0804B	●	12.7	4.76	4.4	6	—	—	—

Shims

For SEC-Boring Bars	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			A	T	d ₁	d ₂	—	—			
	SSW423	●	12.65	3.18	6.2	8	—	—	—		
	SSW635	●	19	4.76	9	11.5	—	—	—		
For SEC-D type Holders	Cat. No.	Stock	Dimensions (mm)								(N·m)
	CNS1204	●	12.57	4.76	4.4	6	0.8	0.8	1.2	1.2	—
	CNS1606	●	15.75	4.76	5.5	7.5	1.2	1.2	1.2	1.2	—
	CNS1906	●	18.70	6.35	5.5	7.5	1.6	1.6	1.2	1.2	—
	CNS2509	●	25.27	6.35	6.6	9.5	2.4	2.4	2.4	2.4	—
	CNS1204-R24	●	12.57	4.76	4.4	6	2	0.8	2.4	1.2	—
For SEC-D type Holders	Cat. No.	Stock	Dimensions (mm)								(N·m)
	DNS1504	●	12.57	6.35	4.4	6	0.8	0.8	1.2	0.8	—
	DNS1506	●	12.57	4.76	4.4	6	0.8	0.8	1.2	0.8	—
	DNS1504-R24	●	12.57	6.35	4.4	6	2	0.8	2.4	0.8	—
For SEC-D type Holders	Cat. No.	Stock	Dimensions (mm)								(N·m)
	SNS1203B	●	12.57	3.18	3.4	4.5	—	—	—	—	—
	SNS1204	●	12.57	4.76	4.4	6	0.8	0.8	1.2	1.2	—
	SNS1506	●	15.75	4.76	5.5	7.5	1.2	1.2	1.2	1.2	—
	SNS1906	●	18.92	6.35	5.5	7.5	1.2	1.2	1.2	1.2	—
	SNS2507	●	25.27	7.93	6.6	9.5	2.4	2.4	2.4	2.4	—
	SNS2509	●	25.27	6.35	6.6	9.5	2.4	2.4	2.4	2.4	—
For SEC-D type Holders	Cat. No.	Stock	Dimensions (mm)								(N·m)
	TNS1603B	●	9.525	3.18	3.4	4.5	—	—	—	—	—
	TNS1604	●	9.45	4.76	3.4	4.5	0.4	0.8	1.2	—	
	TNS1604B	●	9.525	4.76	3.4	4.5	—	—	—	—	
	TNS1604-R24	●	9.45	4.76	3.4	4.5	1.6	2	2.4	—	
For SEC-D type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)		
	VNS1604	●	9.45	4.76	3.4	4.5	1.2	0.8	—	—	
For SEC-D type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)		
	SVP32	●	7.73	3.55	5.5	—	—	—	—	—	
For X-Bar Negative type Inserts	Cat. No.	Stock	Dimensions (mm)								(N·m)
	CNS1203B	●	12.57	3.18	3.4	4.5	1.2	0.8	1.2	0.8	—
	CNS1204B	●	12.57	4.76	4.4	6	1.2	0.8	1.2	0.8	—
For X-Bar Negative type Inserts	Cat. No.	Stock	Dimensions (mm)								(N·m)
	DNS1104B	●	9.45	4.76	3.4	4.5	1.2	0.8	1.2	0.8	—
	DNS1506B	●	12.57	4.76	4.4	6	1.2	0.8	1.2	0.8	—
	DNS1504B	●	12.57	6.35	4.4	6	1.2	0.8	1.2	0.8	—
For SEC-Sumi Dual Mill DGC series	Cat. No.	Stock	Dimensions (mm)						(N·m)		
	DGCS13R	●	13.7	3.9	6.8	8.8	—	5	—	—	

Shims / Seats / Supports

Shims

For SEC-WaveMill WGC/WGX series	Cat. No.	Stock	Dimensions (mm)						N-m
			A	T	d ₁	d ₂	—	θ°	
	WGCS13R	●	10.7	3	5.5	7.5	—	5	—
For SEC-WaveMill WFX series	Cat. No.	Stock	Dimensions (mm)						N-m
			A	T	d ₁	d ₂	—	θ°	
	WFXS4R	●	10.2	3	5.5	7.5	—	15	—
For LTER (Threading)	Cat. No.	Stock	Dimensions (mm)						N-m
			A	T ₁	T ₂	d	—	—	
	LSTE31-0	●	9.5	2.7	2.7	5.2	—	—	—
	LSTE42-0	●	12.65	3.18	3.18	7	—	—	—
For SSTE/SSTI (Threading)	Cat. No.	Stock	Dimensions (mm)						N-m
			H	A	T	d	θ°	—	
	YE3	●	12.99	9.525	3.2	4.025	0	—	—
	YI3	●	12.99	9.525	3.2	4.025	0	—	—
	YE3-1P	●	12.99	9.525	3.2	4.025	1	—	—
	YE3-2P	●	12.99	9.525	3.2	4.025	2	—	—
	YE3-3P	●	12.99	9.525	3.2	4.025	3	—	—
	YE3-1N	●	12.99	9.525	3.2	4.025	1	—	—
	YE3-2N	●	12.99	9.525	3.2	4.025	2	—	—
	YE3-3N	●	12.99	9.525	3.2	4.025	3	—	—
	YI3-1P	●	12.99	9.525	3.2	4.025	1	—	—
	YI3-2P	●	12.99	9.525	3.2	4.025	2	—	—
	YI3-3P	●	12.99	9.525	3.2	4.025	3	—	—
	YI3-1N	●	12.99	9.525	3.2	4.025	1	—	—
	YI3-2N	●	12.99	9.525	3.2	4.025	2	—	—
	YI3-3N	●	12.99	9.525	3.2	4.025	3	—	—
60°	Cat. No.	Stock	Dimensions (mm)						N-m
			H	A	T	d	—	—	
	TRW5505	●	14.95	10.5	4.76	3.4	—	—	—
80°	Cat. No.	Stock	Dimensions (mm)						N-m
			H	A	T	d	D	—	
	LSW317	●	10.37	8.53	2.7	4.8	6.2	—	—
Cat. No.	Stock	Dimensions (mm)						N-m	
		H	L	T	—	—	—		
	UF4SR	●	14.95	25.45	6	—	—	—	
	UF4SL	●	14.95	25.45	6	—	—	—	
	UF5SR	●	17.65	25.15	6	—	—	—	
	UF5SL	●	17.65	25.15	6	—	—	—	
Cat. No.	Stock	Dimensions (mm)						N-m	
		H	d	D	—	—	—		
	EHK4R	●	14	5.6	5.6	—	—	—	
	EHK5R	●	16	5.6	5.6	—	—	—	
Cat. No.	Stock	Dimensions (mm)						N-m	
		B	A	T	D	—	—		
	TSXS13L	●	9.6	13.3	6.8	6	—	—	

Shims

Cat. No.	Stock	Dimensions (mm)						N-m
		H	A	T	d	—	—	
	RMS	●	19.05	19.05	6.35	7.93	—	—
Cat. No.	Stock	Dimensions (mm)						N-m
		D	d	T	—	—	—	
	LSR917	●	9	5.2	2.7	—	—	—

Seats

Seat for TSX Cutter	Cat. No.	Stock	Dimensions (mm)						N-m
			A	B	T	d ₁	d ₂	—	
	TSXS13R	●	12.7	9	6.2	4.4	6	—	
Seat for PWS Cutter	Cat. No.	Stock	Dimensions (mm)						N-m
			d	L	H	—	—	—	
	PWSS4R	●	4.6	15	8	—	—	—	

Supports

For BNGG series Grooving Holders	Cat. No.	Stock	Dimensions (mm)						Fig	N-m
			L	H	—	—	—	—		
	BNGSR200	●	44.5	1.2	—	—	—	1	—	
	BNGSR250	●	44.5	1.7	—	—	—	1	—	
	BNGSR300	●	44.5	2.2	—	—	—	1	—	
	BNGSR400	●	45.5	3.2	—	—	—	1	—	
	BNGSR500	●	45.5	4.2	—	—	—	1	—	
	BNGSR600	●	46.5	5.2	—	—	—	1	—	
	BNGSRTT	●	44.5	2	—	—	—	2	—	
	BNGSL200	●	44.5	1.2	—	—	—	1	—	
	BNGSL250	●	44.5	1.7	—	—	—	1	—	
	BNGSL300	●	44.5	2.2	—	—	—	1	—	
	BNGSL400	●	45.5	3.2	—	—	—	1	—	
	BNGSL500	●	45.5	4.2	—	—	—	1	—	
	BNGSL600	●	46.5	5.2	—	—	—	1	—	
	BNGSLTT	●	44.5	2	—	—	—	2	—	
For SEC-Threading Tools GME-TH series	Cat. No.	Stock	Dimensions (mm)						N-m	
			L	H	—	—	—	—		
	GTR	●	33.9	5.2	—	—	—	—		
	GTL	●	33.9	5.2	—	—	—	—		

Locators / Retaining Rings / Hoses / Connectors / O-rings

Locators

Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
UF4KR	●	24.6	14	3.8				
UF4KL	●	24.6	14	3.8				
UF5KR	●	24.3	16.3	4.5				
UF5KL	●	24.3	16.3	4.5				
Cat. No.	Stock	Dimensions (mm)						N-m
		D	H	T				
GRKR	●	7	23	11.5				
GRKL	●	7	23	11.5				
Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
LFP4R	●	28.9	21.3	13				
LFP4L	●	28.9	21.3	13				
LFP5R	●	28.9	21.3	13				
LFP5L	●	28.9	21.3	13				
LFE4R	●	28.9	21.3	13				
Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
LNF40R	●	37	19	10				
LNF40L	●	37	19	10				
Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
LAP40R	●	33	20	10				
LAP40L	●	33	20	10				
Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
GL40R	●	35	21	8				
GL40L	●	35	21	8				
GL50R	●	35	22	9.5				
GL50L	●	35	22	9.5				
Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
LCP40R	●	38.7	19	11				
LCP40L	●	38.7	19	11				
Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
FMUU	●	39	14.3	15.6				
FMUUE	●	39	14.3	15.6				
Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
GFXK4R	●	29.8	16.9	14				
GFXK4L	●	29.8	16.9	14				
GFVK5R	●	29.8	16.9	17				
GFVK5L	●	29.8	16.9	17				
Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
TU050055K1	●	28.5	12.5	9				
TU055065K1	●	28.5	12.5	9				
TU065075K1	●	28.5	12.5	9				
TU075085K1	●	28.5	12.5	9				
TU085095K1	●	28.5	12.5	9				
TU095105K1	●	28.5	12.5	9				
TU105135K1	●	28.5	12.5	9				
TU050055K2	●	28.5	12.5	9				
TU055065K2	●	28.5	12.5	9				
TU065075K2	●	28.5	12.5	9				
TU075085K2	●	28.5	12.5	9				
TU085105K2	●	28.5	12.5	9				
TU105125K2	●	28.5	12.5	9				

Locators

Cat. No.	Stock	Dimensions (mm)						N-m
		L	H	T				
LCH4R	●	28	20	12.8				
Cat. No.	Stock	Dimensions (mm)						N-m
		D	H	T				
LCE4R	●	30	13	9.7				
Cat. No.	Stock	Dimensions (mm)						N-m
		W	H	T				
BNRSR-08	●	6.5	38.5	11				
BNRSR-10	●	8.5	37.1	14				
BNRSR-12	●	10.4	40.2	16				
BNRSR-16	●	13	46.5	19				
BNRSR-18	●	17	49.8	11				
BNRSR-20	●	17	48.8	21				

Retaining Rings

Cat. No.	Stock	Dimensions (mm)						N-m
		A	B	T	d			
ER03	●	7	2.6	0.6	3			
ER04	●	9	3.5	0.6	4			
ER05	●	11	4.3	0.6	5			

Hoses

Cat. No.	Stock	Dimensions (mm)						N-m
		d	L					
J-HOSE-G1/8-G1/8-200	●	8.8	200					
J-HOSE-G1/8-G1/8-300	●	8.8	300					

Connectors

Cat. No.	Stock	Dimensions (mm)						Fig	N-m
		Screw Standard	T1	L	L1	L2	H1		
J-G1/8-R1/4-00	●	R1/4	34				14		1
J-G1/8-R1/8-00	●	R1/8	29				14		1
J-G1/8-R3/8-00	●	R3/8	36				19		1
J-G1/8-R1/4-90	●	R1/4		22	25			17	2
J-G1/8-R1/8-90	●	R1/8		20	21			14	2
J-G1/8-R3/8-90	●	R3/8		23	30			19	2

O-rings

Cat. No.	Stock	Dimensions (mm)						N-m
		D	T					
SS020	●	2	1					
SS060	●	6	1					
P3	●	2.8	1.9					

Coolant Nozzles / C-rings / Washers / Pins / Nuts / Drawing Pins / Alignment Jigs / Sleeves / Stoppers

Coolant Nozzles

	Cat. No.	Stock	Dimensions (mm)						
			D	Pitch	d	L	—	—	
	C4-CNZ	●	M8	1.25	7.4	9.9	—	—	—

C-rings

	Cat. No.	Stock	Dimensions (mm)						
			d	H	T	—	—	—	
	CR03	●	1.5	3.79	0.4	—	—	—	—

Washers

	Cat. No.	Stock	Dimensions (mm)						
			d	T	—	—	—	—	
	PW3	●	3.3	0.5	—	—	—	—	—

Pins

	For SEC-M type Holders		Cat. No.	Stock	Dimensions (mm)						
					d	Pitch	L	D	D ₁	d ₁	
	MP317	●	M4	0.7	15.56	4	3.7	—	—	—	
	MP317S	●	M4	0.7	15.56	4	3.56	—	—	—	
	MP320	●	M4	0.7	19.56	4	3.7	—	—	—	
	MP320S	●	M4	0.7	19.56	4	3.56	—	—	—	
	MP416	●	M5	0.8	14	7.5	6	5	—	—	
MP420	●	M5	0.8	20	7.5	6	5	—	—		

	For SEC-Light Endmill		Cat. No.	Stock	Dimensions (mm)						
					d	—	L	D	ø°	—	
	SPP308	●	3.2	—	8	4.8	60°	—	—	—	

	For SEC-20 & 40 type Holders		Cat. No.	Stock	Dimensions (mm)						
					—	—	L	D	—	—	
	SPP3	●	—	—	14	3.2	—	—	—	—	

	For SEC-70 type Holders		Cat. No.	Stock	Dimensions (mm)						
					d	H	L	—	—	—	
	LSP3	●	5	3.3	5.5	—	—	—	—	—	
	LSP4	●	6.7	4	7	—	—	—	—	—	
	LSP5	●	7.7	4.5	8.5	—	—	—	—	—	
	LSP6	●	9.85	6	11.1	—	—	—	—	—	
	LSP8	●	13.05	10	12	—	—	—	—	—	
	LSP10	●	5	3.3	6.5	—	—	—	—	—	
	LSP16	●	6.6	4.5	9	—	—	—	—	—	
	LSP20	●	8.2	5.5	9	—	—	—	—	—	
	LSP25	●	9.8	6.5	11	—	—	—	—	—	
LSP32	●	13	10	12	—	—	—	—	—		

	Pin for SEC-Mini Tool Holders		Cat. No.	Stock	Dimensions (mm)						
					d	D	L	ℓ	—	—	
	LP04	●	0.4	1.1	4.7	3	—	—	—	—	
	LP06	●	0.4	1.1	6	5	—	—	—	—	
	LP07	●	0.4	1.1	7.7	3.5	—	—	—	—	

	For SEC-SV type or Boring Bars		Cat. No.	Stock	Dimensions (mm)							
					d ₁	Pitch	d ₂	Pitch	L	D		ℓ ₁
	VP20	●	M3.5	0.6	M4	0.7	12	6.5	≥4.5	≥4.5	—	—
	VP25	●	M3.5	0.6	M4	0.7	17	6.5	≥4.5	≥4.5	—	—
	VP32	●	M3.5	0.6	M4	0.7	24	6.5	≥4.5	≥4.5	—	—

Pins

	For SEC-SV type or Boring Bars		Cat. No.	Stock	Dimensions (mm)						
					d	Pitch	L	ℓ	D ₁	D ₂	
	VP32B	●	M3.5	0.6	8	1.4	5	6.5	—	—	
VP40B	●	M3.5	0.6	11.5	1.4	5	6.5	—	—		

Nuts

	For SEC-M type Holders		Cat. No.	Stock	Dimensions (mm)						
					d	Pitch	L	D	B	—	
	CPM32N	●	M4	0.7	7.5	7	3	—	—		
	CPM43N	●	M5	0.8	8.5	7	3	—	—		
	CPM43S	●	M5	0.8	6	7	3	—	—		

	For BNB Holders		Cat. No.	Stock	Dimensions (mm)						
					L	—	—	—	—	—	
	BNBW-4	●	4	—	—	—	—	—	—		
	BNBW-7	●	7	—	—	—	—	—	—		

	For BNB Holders		Cat. No.	Stock	Dimensions (mm)						
					d	Pitch	L	D	B	—	
	CPV33N	●	M4	0.5	6	6	2.5	—	—		
	BNBW-2	●	M3	0.5	2	4	—	—	—		

Drawing Pins

	Fig 1	Cat. No.	Stock	Dimensions (mm)						
				d	D	L	ø°	—	Fig	
		SR083	●	5	2.9	20	60	—	1	—
		SR124	●	6	3.9	24	60	—	—	—
		SR134B	●	6	3.9	22.5	60	—	2	—

Alignment Jigs

	Cat. No.	Stock	Dimensions (mm)						
			W	L	T	D	—	—	
	AFBSM60	●	15	34.67	6.05	6	—	—	—

Sleeves

	Cat. No.	Stock	Dimensions (mm)						
			L	d	D	—	—	—	
	HBB616	●	100	6	16	—	—	—	
HBB816	●	100	68	16	—	—	—		

Stoppers

	Cat. No.	Stock	Dimensions (mm)						
			d	Pitch	L	D	B	—	
	RFS	●	M5	0.8	12	10	2.5	—	—

	Cat. No.	Stock	Dimensions (mm)						
			d	Pitch	D	—	—	—	
	FMUE	●	M5	0.8	10	—	—	—	—

Wrenches

Wrenches

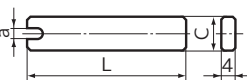
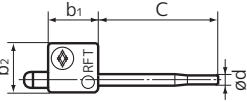
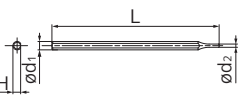
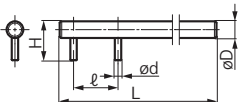
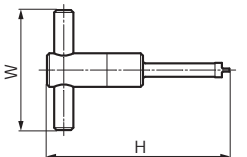
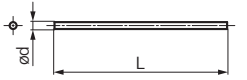
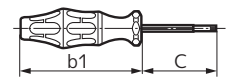
L-Shaped Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)						(N·m)		
			B	L	ℓ	—	—	—			
	LH015	●	1.5	45	14	—	—	—	—		
	LH020	●	2	50	16	—	—	—	—		
	LH020NT	●	2	50	16	—	—	—	—		
	LH025	●	2.5	56	18	—	—	—	—		
	LH025NT	●	2.5	56	6	—	—	—	—		
	LH030	●	3	63	20	—	—	—	—		
	LH035	●	3.5	22	68	—	—	—	—		
	LH040	●	4	70	25	—	—	—	—		
	LH050	●	5	80	28	—	—	—	—		
	LH060	●	6	90	32	—	—	—	—		
LH080	●	8	100	36	—	—	—	—			
L-Shaped Wrench (Torx)	Cat. No.	Stock	Dimensions (mm)					(N·m)			
			B	d	L	ℓ	—				
			LT08-06	●	T8	2.3	42.5		6	—	—
			LT15-10	●	T15	2.8	62		10	—	—
			LT15	●	T15	3.26	54		17.9	—	—
			LT20	●	T20	3.9	57.2		19.1	—	—
LT25	●	T25	4.4	60.3	20.2	—	—				
LT27	●	T27	4.96	63.5	21.5	—	—				
Wrench (Torx)	Cat. No.	Stock	Dimensions (mm)				(N·m)				
			B	d	L	ℓ					
LT25NT	●	3.6	4	65	10	—	—				
L-Shaped Wrench (Torx Plus)	Cat. No.	Stock	Dimensions (mm)					(N·m)			
			B	L	ℓ	—	—				
LT15IP	●	15IP	55	19	—	—	—				
Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)				(N·m)				
			B	b ₁	C	—					
			TH030	●	3	48		28	—	—	
			TH040	●	4	48		37	—	—	
TH050	●	5	48	45	—	—					
T-Shaped Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)				(N·m)				
			B	b ₁	C	—					
			TH015	●	1.5	35		30	—	—	
			TH020	●	2	35		39	—	—	
TH025	●	2.5	35	39	—	—					
Wing Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)					(N·m)			
			B	C	b ₁	b ₂	—				
TSW040	●	4	60	20	40	—	—				
Wing Wrench (Torx Plus)	Cat. No.	Stock	Dimensions (mm)					(N·m)			
			B	d	C	b ₁	b ₂				
TRXW10IP	●	10IP	2.6	40	75	40	—				
T-Shaped Wrench (Torx)	Cat. No.	Stock	Dimensions (mm)				(N·m)				
			B	d	C	b ₁					
			TTX15W	●	T15	4		97	28	—	
			TTX20	●	T20	3.9		58	47	—	
TT25	●	T25	4.4	27	48	—					
TT27	●	T27	5	41	48	—					

Wrenches

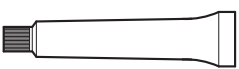
Torx Wrench	Cat. No.	Stock	Dimensions (mm)						(N·m)	
			B	C	b ₁	b ₂	—	—		
	TRX06	●	T6	35.5	15	15	—	—	—	
	TRX08	●	T8	38.5	19	19	—	—	—	
	TRX10	●	T10	42.1	22	22	—	—	—	
	TRX15	●	T15	46	22	27	—	—	—	
	TRX20	●	T20	49	22	30	—	—	—	
Torx Wrench	Cat. No.	Stock	Dimensions (mm)						(N·m)	
			B	d	L	ℓ	—	—		
			RT06	●	2-1.8	2	35	8		—
RT08	●	2-2.1	2.1	35	8	—	—			
Torx Wrench	Cat. No.	Stock	Dimensions (mm)					(N·m)		
			d	C	b ₁	b ₂	B			
RT10	●	3	37	20	20	2.9	—			
Torx Plus Wrench	Cat. No.	Stock	Dimensions (mm)					(N·m)		
			B	C	b ₁	b ₂	—			
TRX06IP	●	6IP	34	15	15	—	—			
Torx Plus Wrench	Cat. No.	Stock	Dimensions (mm)					(N·m)		
			B	C	b ₁	b ₂	—			
TRX08IP	●	8IP	40	25	19	—	—			
T-Shaped Wrench (Torx Plus)	Cat. No.	Stock	Dimensions (mm)				(N·m)			
			B	d	C	b ₁				
TTR15IP	●	15IP	4	80	25.5	—				
Bit (Removable Wrench Tip)	Cat. No.	Stock	Dimensions (mm)					(N·m)		
			B	d	—	—	—			
			TRB10IP	●	10IP	4	—		—	—
			TRB15IP	●	15IP	4	—		—	—
			TRB20IP	●	20IP	4.5	—		—	—
TRB25IP	●	25IP	5	—	—	—				
Hand Grip (Removable Handle)	Cat. No.	Stock	Dimensions (mm)			(N·m)				
			D	L	Remarks					
HPS1015	●	32	99.4	For 10IP and 15IP	—					
HPL2025	●	35.5	110.3	For 20IP and 25IP	—					
Torx Plus Wrench (Screwdriver type)	Cat. No.	Stock	Dimensions (mm)					(N·m)		
			B	C	b ₁	—	—			
			TRDR08IP	●	8IP	60	104		—	—
			TRDR10IP	●	10IP	80	111		—	—
			TRDR15IP	●	15IP	80	111		—	—
TRDR20IP	●	20IP	100	118	—	—				
TRDR25IP	●	25IP	100	118	—	—				
Torx Wrench (Screwdriver type)	Cat. No.	Stock	Dimensions (mm)					(N·m)		
			B	d	C	b ₁	—			
			TRD07	●	T7	2	45		70	—
			TRD08	●	T8	2.3	55		70	—
			TRD15	●	T15	3.3	70		100	—
TRD20	●	T20	3.9	100	90	—				
TRD25	●	T25	5.3	80	110	—				
Hex Wrench (Integrated type)	Cat. No.	Stock	Dimensions (mm)				(N·m)			
			B	C	b ₁	—				
HD040	●	4	75	111	—	—				

Wrenches / Anti-seizure Cream

Wrenches

	Cat. No.	Stock	Dimensions (mm)						N·m
			L	a	C	—	—	—	
	KY25	●	45	2.5	10	—	—	—	—
	KY40	●	60	4	13	—	—	—	—
	Cat. No.	Stock	Dimensions (mm)					N·m	
			d	C	b ₁	b ₂	—		—
	RFT	●	1.7	35	15	15	—	—	—
	Cat. No.	Stock	Dimensions (mm)					N·m	
			d ₁	d ₂	L	H	—		—
	ANT	●	5	2	100	4.5	—	—	—
	Cat. No.	Stock	Dimensions (mm)					N·m	
			d	D	H	l	L		—
	SL-1	●	2.3	6	14	16	90	—	—
	SL-2	●	2.3	6	14	12	90	—	—
	SL-4	●	2.5	6	12	5	90	—	—
	Cat. No.	Stock	Dimensions (mm)					N·m	
			W	H	—	—	—		—
	HFVT	●	50	76	—	—	—	—	—
	Cat. No.	Stock	Dimensions (mm)					N·m	
			d	L	—	—	—		—
	1.8x45	●	1.8	45	—	—	—	—	—
	Cat. No.	Stock	Dimensions (mm)					N·m	
			C	b ₁	—	—	—		—
	TRDR06IP05	●	65	105	—	—	—	—	—
Torque Setting Value: 0.5N·m									

Anti-seizure Cream

	Cat. No.	Stock	Contents (g)	Remarks
	SUMI-P	●	5	—
	APM-P	●	15	Anti-seizure Cream Dedicated for APM series

MEMO

