

# Parts

## N1 to N9

# N

Parts/Other

N

Parts

Technical Guidance  
Reference



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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	
	* 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	—
	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	—
	WB6E-13	●	M6	1.0	13	5	4.5	2.78	—
	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	—
	WB8F-20	●	M8	1.0	20	8.5	6.2	4	—
	WB8F-30	●	M8	1.0	30	11.5	6.2	4	—
	WB10-19	●	M10	1.5	19	8	7.9	5	—
	WB10-26	●	M10	1.5	26	11	7.9	5	—
	WB10-35	●	M10	1.5	35	13	7.9	5	—

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	—
	WB7-20T	●	M7	1.0	20	8.5	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	—
	WB8-30TL	●	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	—

Cap Screw (Hexagonal Hole)	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	Pitch	L	ℓ	D	B	
	BX0304	●	M3	0.5	4	Full thread	5.5	2.5	—
	BX0308	●	M3	0.5	8	Full thread	5.5	2.5	—
	BX0315	●	M3	0.5	15	Full thread	5.5	2.5	—
	BX0320	●	M3	0.5	20	Full thread	5.5	2.5	—
	BX0408	●	M4	0.7	8	Full thread	7	3	—
	BX0410	●	M4	0.7	10	Full thread	7	3	—
	BX0414	●	M4	0.7	14	Full thread	7	3	—
	BX0425	●	M4	0.7	25	20	7	3	—
	BX0508	●	M5	0.8	8	Full thread	8.5	4	—
	BX0510	●	M5	0.8	10	Full thread	8.5	4	—
	BX0512	●	M5	0.8	12	Full thread	8.5	4	—
	BX0515	●	M5	0.8	15	Full thread	8.5	4	—
	BX0520	●	M5	0.8	20	Full thread	8.5	4	5.0
	* BX0520T	●	M5	0.8	20	16	8.5	T20	—
	BX0610	●	M6	1.0	10	Full thread	10	5	—
	BX0615	●	M6	1.0	15	Full thread	10	5	—
	BX0620	●	M6	1.0	20	Full thread	10	5	—
	BX0622	●	M6	1.0	22	18	10	5	—
	BX0625	●	M6	1.0	25	18	10	5	—
	BX0820	●	M8	1.25	20	Full thread	13	6	—
	BX0830	●	M8	1.25	30	22	13	6	—
	BX0845	●	M8	1.25	45	13	6	—	
	BX0850	●	M8	1.25	50	13	6	—	
	BX1035	●	M10	1.5	35	26	16	8	—
	BX1060	●	M10	1.5	60	16	8	—	
	BX1230	●	M12	1.75	30	Full thread	18	10	—
	BX1260	●	M12	1.75	60	18	10	—	
	BX1265	●	M12	1.75	66	18	10	—	
	BX1660	●	M16	2.0	60	24	14	—	
	BX2065	●	M20	2.5	65	30	17	—	
	EHBX0512	●	M5	0.8	12	10.5	8	4	—
	* FADR	●	M7	1.0	10	7	10.5	T25	—

\*: Wrench hole on the left-hand thread side only.

Torx Hole Position  
Part number suffix:  
T indicates left-hand thread side, TL indicates right-hand thread side

Torx Hole Type



\*With Torx Hole

## ■ Screws

Cap Screw (Torx Plus)	Cat. No.	Stock	Dimensions (mm)								(N·m)
			d	Pitch	L	ℓ	D	H	B		
	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	B		
	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	H2	B		
	BXH1235-D33	●	M12	1.75	35	Full thread	33	10	2	10	—	
	BXH1635-D40	●	M16	2.0	35	30	40	10	—	14	—	
	BXH2036-D50	●	M20	2.5	36	29	50	14	4	17	—	

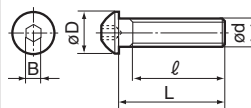
Set Screw (Hexagonal Hole)	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	Pitch	L	ℓ	D	B	
	BTD0408	●	M4	0.7	8	2	2.8	2	—
	BTD0410	●	M4	0.7	10	2	2.8	2	—
	BTD0412	●	M4	0.7	12	2	2.8	2	—
	BTD0508	●	M5	0.8	8	2	3.5	2.5	—
	BTD05F09	●	M5	0.5	9	2	4	T15	—
	BTD0510	●	M5	0.8	10	3	3.5	2.5	—
	BTD0518	●	M5	0.8	18	4	3.5	2.5	—
	BTD0607	●	M6	1.0	7	2	4	3	—
	BTD0609	●	M6	1.0	9	2	4	3	—
	BTD0615	●	M6	1.0	15	5	4	3	—
	BTD0618	●	M6	1.0	18	5	4	3	—
	BTD0620	●	M6	1.0	20	5	4	3	—
	BTD0812	●	M8	1.25	12	2	5	4	—
	BTD0818	●	M8	1.25	18	6	5	4	—
	BTD0820	●	M8	1.25	20	6	5	4	—
	BTD0825	●	M8	1.25	25	8.5	5	4	—
	BTD0830	●	M8	1.25	30	10	5	4	—
	BTD0615T	●	M6	1.0	15	5	4.3	T20	—
	BTD0620T	▲	M6	1.0	20	5	4	T20	—
	BTD0825T	●	M8	1.25	25	8.5	5	T27	—
	BTD0830T	●	M8	1.25	30	10	5	T27	—

Button Head Cap Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	Pitch	L	ℓ	D	B	
	BH0304	●	M3	0.5	4	Full thread	5.5	2	—
	BH0305	●	M3	0.5	5	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	—
	BH0315	●	M3	0.5	15	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	—
	BH0415	●	M4	0.7	15	Full thread	7.5	2.5	—
	BH0510	●	M5	0.8	10	Full thread	9.5	3	—
	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	—
	* BH0832	●	M8	1.25	32	29.5	14	5	—
	* 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	—

Torx Hole Type  
"T" after the part number indicates "Torx hole" (With Torx Hole)

Hexagonal Hole Type

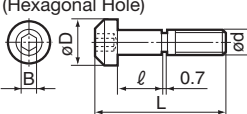


Torx Hole Type  
"T" after the part number indicates "Torx hole" (With Torx Hole)

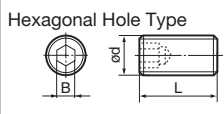
\*: Same wrench hole (B) on the screw end  
\*: Left-hand threads

# Screws

## ■ Screws

Special Cap Screw (Hexagonal Hole)	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 Bolt	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			d	Pitch	L	ℓ	D	B				
			AJM4FT	●	M4	0.5	12	5		7.3	2	—
			AJM4F	●	M4	0.5	12	5		8	2	—
			AJM5F	●	M5	0.5	13	5		9	2	—
			AJM6	●	M6	1.0	18	6		10	2.9	—
Axial Adjustment Bolt	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			d	Pitch	L	ℓ	D	B				
RFJ	●	M4	0.7	12	6	6	2	—				
Adjustment Bolt	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			d	Pitch	L	ℓ	D	B				
SRFJ	●	M4	0.7	17	10.5	6	2	—				
Axial Adjustment Bolt	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	—				
Lever Lock Bolt	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			d	Pitch	L	ℓ	D	B				
			LCS2B	●	M3	0.5	10	3.05		3.6	2	—
			LCS3S	●	M6	1.0	15	10		6	2.5	—
			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	—
			LCS5CA	▲	M8	1.0	20.5	12		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	—				
Fastener Bolt	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	—				

## ■ Screws

Set Screw Hexagonal Hole Type	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			d	Pitch	L	—	B	—				
	BT0306	●	M3	0.5	6	—	1.5	—	—			
	BT0310	●	M3	0.5	10	—	1.5	—	—			
	BT0404	●	M4	0.7	4	—	2	—	—			
	BT0406	●	M4	0.7	6	—	2	—	—			
	BT0408	●	M4	0.7	8	—	2	—	—			
	BT0412	●	M4	0.7	12	—	2	—	—			
	BT0506	●	M5	0.8	6	—	2.5	—	—			
	BT0507K	●	M5	0.8	7	—	2.5	—	—			
	BT0510	●	M5	0.8	10	—	2.5	—	—			
	BT0610	●	M6	1.0	10	—	3	—	—			
	BT0612	●	M6	1.0	12	—	3	—	—			
	BT0620	●	M6	1.0	20	—	3	—	—			
BT06035T	●	M6	1.0	3.5	—	T15	—	—				
Set Screw (Hexagonal Hole)	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
BTT0511	●	M5	0.8	11	5	—	2	20				
BTT0615	●	M6	1.0	15	6	—	2.5	20				
Flat Head Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			d	Pitch	L	D	B	α°				
			FBUP1-A0-8	●	M3	0.5	6	4.4		2	82	1.0
			FBUP2-A0-8	●	M3	0.5	10	5.5		2	82	1.0
			FBUP3-A0-8	●	M3.5	0.6	12	7		2	82	1.0
			FBUP4-A0-8	●	M5	0.8	15	9.3		3	82	2.7
			BFX0307R	●	M3	0.5	7	4		2	60	1.0
			BFX0407R	●	M4	0.7	6.5	5.8		2.5	90	1.8
			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
			BFX0508	●	M5	0.8	8	7.5		3	90	2.7
			BFX0511R	●	M5	0.8	10.5	7.5		3	90	2.7
			BFX0511L	●	M5	0.8	10.5	7.5		3	90	2.7
			BFX0611R	●	M6	1.0	11	9.5		3	90	2.7
Special Cap Screw (Hexagonal Hole)	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	—				
Button Head Flat Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			d	Pitch	L	D	B	α°				
			BHF0203L	●	M2	0.4	4	3		1.5	90	—
			BHF0306R	●	M3	0.5	6.3	4.2		2	90	1.0
			BHF0306L	●	M3	0.5	6.3	4.2		2	90	1.0
			BHF0308R	●	M3	0.5	8	4.2		2	90	1.0
			BHF0308L	●	M3	0.5	8	4.2		2	90	1.0
			BHF0407	●	M4	0.7	8.5	6		3	90	—
			BHF0410	●	M4	0.7	11.5	6		3	90	—
			BHF0623	●	M6	1.0	23	12		4	90	7.0
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	—				
Torx Flat Head Screw	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			d	Pitch	L	D	B	α°				
			BFT2045T06	●	M2	0.4	4.5	2.7		T6	60	
			BFT2506T08	●	M2.5	0.45	6	3.45		T8	60	
BFTY02205	●	M2.2	0.45	5	3.05	T7	60					
BFTY02206	●	M2.2	0.45	5.6	3.05	T7	60					

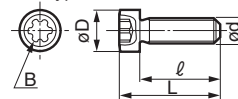
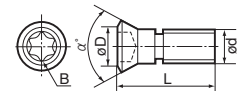
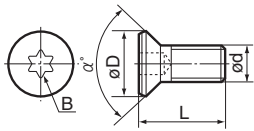
Parts/Other  
N  
Parts  
Technical Guidance  
Reference

(N·m) Recommended tightening torque (N·m) ▲ mark: To be replaced by a new product, made to order, or discontinued (please confirm stock availability)

# Screws / Eccentric Pins

## ■ Screws

Torx Flat Head Screw		Cat. No.	Stock	Dimensions (mm)						(N·m)
				d	Pitch	L	D	B	$\alpha^\circ$	
		BFN0204T	●	M2	0.4	4.3	3.3	T8	90	—
		BFN0206T	●	M2	0.4	5.5	3.3	T8	90	1.1
		BFN0306T	●	M3	0.5	6	4.2	T10	90	—
		BFN0307T	●	M3	0.5	7	4.2	T10	90	2.0
		BFN0410T	●	M4	0.7	9.5	5.6	T10	90	2.0
		BFN0511T	●	M5	0.8	10.5	7.3	T20	90	—
		BFN0611T	●	M6	1.0	11	9.3	T25	90	—
		BFS0205T	●	M2	0.4	5.5	3	T8	60	1.1
		BFTX016033	●	M1.6	0.35	3.3	2.6	T6	60	0.2
		BFTX02507	●	M2.5	0.45	6.5	3.45	T8	60	—
		BFTX02508	●	M2.5	0.45	7.5	3.45	T8	60	—
		BFTX03508	●	M3.5	0.6	8	5.1	T10	52	2.0
		BFTX03584	●	M3.5	0.6	7.4	5.2	T15	60	3.0
		BFTX03588	●	M3.5	0.6	8.8	5.2	T15	60	3.4
		BFTX0408	●	M4	0.7	8	5.5	T15	60	—
		BFTX0414	●	M4	0.7	14.5	5.5	T15	60	3.0
		BFTX01604N	●	M1.6	0.35	4.2	2.4	T6	60	0.2
		BFTX0203N	●	M2	0.4	3	2.7	T6	60	0.5
		BFTX0204N	●	M2	0.4	4.3	2.7	T6	60	0.5
		BFTX02205N	●	M2.2	0.45	4.5	3	T6	60	0.5
		BFTX02505N	●	M2.5	0.45	4.5	3.45	T8	60	1.1
		BFTX02506N	●	M2.5	0.45	5.5	3.45	T8	60	1.5
		BFTX0305N	●	M3	0.5	5.3	4.2	T10	60	2.0
		BFTX0306N	●	M3	0.5	5.8	4.2	T10	60	2.0
		BFTX0307N	●	M3	0.5	6.5	4.2	T10	60	2.0
		BFTX03085N	●	M3	0.5	8.5	5.4	T10	60	—
		BFTX0309N	●	M3	0.5	9	4.2	T10	60	—
		BFTX0312N	●	M3	0.5	12	5.4	T10	60	—
		BFTX03509N	●	M3.5	0.6	8.5	4.9	T10	60	—
		BFTX0406N	●	M4	0.7	6	5.6	T15	60	—
		BFTX0407N	●	M4	0.7	7	5.6	T15	60	3.0
		BFTX0409N	●	M4	0.7	9	5.6	T15	60	3.4
		BFTX0412N	●	M4	0.7	12	5.5	T15	60	3.0
		BFTX0509N	●	M5	0.8	9	7	T20	60	5.0
		BFTX0511N	●	M5	0.8	11.5	7	T20	60	5.0
		BFTX0513N	●	M5	0.8	13	7	T20	60	5.0
		BFTX0515N	●	M5	0.8	15	7	T20	60	—
		BFTX0615N	●	M6	1.0	15	9	T25	60	5.0
		BFTX0619N	●	M6	1.0	19	9.3	T25	60	5.0
		BFTX0203A	●	M2	0.4	3	2.7	T6	90	0.5
		BFTX0204A	●	M2	0.4	4.3	2.7	T6	90	0.5
		BFTX0305A	●	M3	0.5	5.3	4.3	T10	90	—
		BFTX0306A	●	M3	0.5	5.8	4.3	T10	90	2.0
		BFTX0307A	●	M3	0.5	6.8	4.3	T10	90	2.0
		BFTX0407A	●	M4	0.7	7.3	5.6	T15	90	3.4
		BFTX0410A	●	M4	0.7	10.3	5.6	T15	90	3.4
		BFTX0509A	●	M5	0.8	9.3	6.9	T20	90	5.0
		BFTX0204NS	●	M2	0.4	4.4	3.2	T1.8	82	0.7
		BFTX0205NS	●	M2	0.4	5.5	3.2	T1.8	90	0.7
		BFTX02506NS	●	M2.5	0.45	6.8	3.6	T2.2	90	1.4
		BFTX0307NS	●	M3	0.5	7.8	4.2	T2.9	90	3
		BFTX02206NT	●	M2.2	0.45	6	3.2	T1.8	60	0.7
		BFTX02507NT	●	M2.5	0.45	7	3.6	T2.2	60	1.4
		BFTX0408NT	●	M4	0.7	8	5.8	T3.6	60	5
		BFTX0410NT	●	M4	0.7	10	5.8	T3.6	60	5
		BFTX02508NV	●	M2.5	0.45	7.5	3.45	T8	60	1.5
Special Cap Screw BXD Type		Cat. No.	Stock	Dimensions (mm)						(N·m)
				d	Pitch	L	$\ell$	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

Torx Screw (Torx Double Ended)		Cat. No.	Stock	Dimensions (mm)						(N·m)
				d	Pitch	L	D	B	$\alpha^\circ$	
		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

Precision Screw (Torx) <For SEC Ballnose Endmills>		Cat. No.	Stock	Dimensions (mm)						(N·m)
				d	Pitch	L	D	B	$\alpha^\circ$	
		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

Torx Screw		Cat. No.	Stock	Dimensions (mm)						(N·m)
				d	Pitch	L	D	B	$\alpha^\circ$	
		BFTX01804IP	●	M1.8	0.35	3.7	2.45	6IP	60	—
		BFTX02505IP	●	M2.5	0.45	4.5	3.45	8IP	60	—
		BFTX02506IP	●	M2.5	0.45	5.5	3.45	8IP	60	—
		BFTX0305IP	●	M3	0.5	5.3	3.8	8IP	60	2.0
		BFTX0306IP	●	M3	0.5	6	3.8	8IP	60	2.0
		BFTX0307IP	●	M3	0.5	7	4.3	10IP	55	2.0
		BFTX0308IP	●	M3	0.5	8	3.8	8IP	60	—
		BFTX03510IP08	●	M3.5	0.6	10	5.3	8IP	60	—
		BFTX03510IP15	●	M3.5	0.6	10	5.3	15IP	60	—
		BFTX03512IP	●	M3.5	0.6	11.5	5.3	15IP	60	3.0
		BFTX03584IP	●	M3.5	0.6	7.4	5.2	15IP	60	—
		BFTX0407IP	●	M4	0.7	8	5.6	15IP	60	3.0
		BFTX0409IP	●	M4	0.7	9	5.6	15IP	60	3.0
		BFTX0412IP	●	M4	0.7	12	5.5	15IP	60	3.0
		BFTX0418IP	●	M4	0.7	18	5.5	15IP	60	—
		BFTX04513IP20	●	M4.5	0.75	13.1	6.8	20IP	60	—
		BFTX0511IP	●	M5	0.8	11.5	7	20IP	60	—
		BFTX0513IP	●	M5	0.8	13	7	20IP	60	—
		BFTX0615IP	●	M6	1.0	15	9	25IP	60	—

Flat Screw (Torx Plus Double Ended)		Cat. No.	Stock	Dimensions (mm)						(N·m)
				d	Pitch	L	D	B	$\alpha^\circ$	
		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	$\ell$	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	—

## ■ Eccentric Pins

For SEC-Boring Bar		Cat. No.	Stock	Dimensions (mm)						(N·m)
				d	D <sub>1</sub>	D <sub>2</sub>	L	$\ell$	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	—
		CPB33	●	3.4	4.1	5.5	17	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	—
		CPB45	●	4.5	5.5	7	23	5	3	—
		CPB64	●	6.8	8.2	10.5	24	6.6	4	—

# Eccentric Pins, Lever Pins and Shims

## ■ Eccentric Pins

For SEC-30 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	D <sub>1</sub>	D <sub>2</sub>	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)
	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)
	CPZ322	●	3.4	4.1	4.9	22	3.3	—	—
	CPZ332	●	3.4	4.1	5.5	23	5	—	—
	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	—	—
	CPZ433	●	4.5	5.5	7	26	5	—	—
	CPZ434	●	4.5	5.5	7	32	5	—	—
	CPZ435	▲	4.5	5.5	7	39	5	—	—
	CPZ645	●	6.8	8.2	10.5	39	6.6	—	—
For SEC-Cartridge BU	Cat. No.	Stock	Dimensions (mm)						(N·m)
	CPU304C	●	3.3	5.5	—	10	3.5	3	—

## ■ Lever Pins

For SEC-30 Type Holders	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	—	—	—
For SEC-60 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	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	—	—	—

## ■ Shims

For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d	—	—	—	
	LST317	●	9.5	2.7	5.2	—	—	—	—
	LST42	●	12.65	3.18	6.9	—	—	—	—

## ■ Shims

For Lever Lock	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	—	—	—	—
For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
	LSS42B	●	12.65	3.18	6.9	—	—	—	—
For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
	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	—	—	—	—
For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
	LSD317	●	9.5	2.7	5.2	—	—	—	—
	LSD42	●	12.65	3.18	6.9	—	—	—	—
For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
	LST317CA	●	9.33	2.7	5	—	—	—	—
	LST42CA	●	12.5	3.2	6.7	—	—	—	—
For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
	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	—	—	—	—
For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
	LSS42CA	●	12.5	3.2	6.7	—	—	8	—
	LSS53CA	●	15.68	4.8	7.7	—	—	10	—
For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
	LSC53CA	●	15.68	4.8	7.7	—	—	10	—
For Lever Lock	Cat. No.	Stock	Dimensions (mm)						(N·m)
	LSC42B	●	12.65	3.18	6.9	—	—	8	—
For SEC-20 & 40 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
	STND323	●	9.3	3.18	3.4	—	—	—	—
	STND433	●	12.5	4.76	3.4	—	—	—	—

Parts/Other

N

Parts

Technical Guidance Reference

# Shims

## Shims

For SEC-20 & 40 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d	—	—	—	
	<b>SSND423</b>	●	12.5	3.18	3.4	—	—	—	
	<b>SSND433</b>	●	12.5	4.76	3.4	—	—	—	
	<b>SSND533</b>	●	15.65	4.76	3.4	—	—	—	
For SEC-30 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	—	
	<b>EST32</b>	●	9.53	3.18	5.5	5.9	—	—	
	<b>EST43</b>	●	12.7	4.76	7.5	7.9	—	—	
For SEC-30 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	—	
	<b>ESS42</b>	●	12.7	3.18	7.5	7.9	—	—	
For SEC-40 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d	—	—	θ°	
	<b>SCND433</b>	●	12.65	4.76	3.4	—	—	80	
	<b>SDND433</b>	●	12.65	4.76	3.4	—	—	55	
	<b>SEND423</b>	●	12.5	3.18	3.4	—	—	75	
For SEC-40 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d	—	—	θ°	
	<b>STPD322</b>	●	8.4	3.18	3.4	—	—	6	
	<b>STPD422</b>	●	11	3.18	3.4	—	—	6	
	<b>STPL42</b>	●	11	3.18	3.4	—	—	6	
For SEC-40 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d	—	—	θ°	
	<b>SSPD422</b>	●	11.63	3.18	3.4	—	—	6	
	<b>SSPD522</b>	●	14.1	3.18	3.4	—	—	6	
For SEC-40 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			D	—	—	—	—	—	
	<b>SRND42</b>	●	12.7	—	—	—	—	—	
For SEC-60 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	θ°	
	<b>SVW322</b>	●	9.5	3.18	4.7	6.5	—	35	
	<b>SFW423</b>	●	12.65	3.18	6.2	8	—	50	
	<b>SFW433</b>	●	12.65	4.76	6.2	8	—	50	
	<b>SDW323</b>	●	9.5	3.18	4.7	6.5	—	55	
	<b>SDW423</b>	●	12.65	3.18	6.2	8	—	55	
	<b>SCW323</b>	●	9.5	3.18	4.8	6.5	—	80	
	<b>SCW423</b>	●	12.65	3.18	6.2	8	—	80	
<b>SCW635</b>	●	19	4.76	9	11.5	—	80		
For SEC-M Type Holders For SEC-Boring Bar	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	—	
	<b>STW323</b>	●	9.5	3.18	4.7	6.5	—	—	
	<b>STW434</b>	●	12.65	4.76	6.2	8	—	—	
For SEC-M Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	—	
	<b>SWW433</b>	●	12.65	4.76	6.2	8	—	—	

## Shims

For SEC-Boring Bar	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	—				
	<b>SSW423</b>	●	12.65	3.18	6.2	8	—	—				
	<b>SSW635</b>	●	19	4.76	9	11.5	—	—				
For SEC-D Type Holders	Cat. No.	Stock	Dimensions (mm)								(N·m)	
			A	T	d <sub>1</sub>	d <sub>2</sub>	Ra	Rb	Rc	Rd		
	<b>CNS1204</b>	●	12.57	4.76	4.4	4.6	0.8	0.8	1.2	1.2	—	
	<b>CNS1606</b>	●	15.75	4.76	5.5	7.5	1.2	1.2	1.2	1.2	—	
	<b>CNS1906</b>	●	18.70	6.35	5.5	7.5	1.6	1.6	1.2	1.2	—	
	<b>CNS2509</b>	●	25.27	6.35	6.6	9.5	2.4	2.4	2.4	2.4	—	
	<b>CNS1204-R24</b>	●	12.57	4.76	4.4	4.6	2	0.8	2.4	1.2	—	
For SEC-D Type Holders	Cat. No.	Stock	Dimensions (mm)								(N·m)	
			A	T	d <sub>1</sub>	d <sub>2</sub>	Ra	Rb	Rc	Rd		
	<b>DNS1504</b>	●	12.57	6.35	4.4	6	0.8	0.8	1.2	0.8	—	
	<b>DNS1506</b>	●	12.57	4.76	4.4	6	0.8	0.8	1.2	0.8	—	
	<b>DNS1504-R24</b>	●	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)	
			A	T	d <sub>1</sub>	d <sub>2</sub>	Ra	Rb	Rc	Rd		
	<b>SNS1204</b>	●	12.57	4.76	4.4	4.6	0.8	0.8	1.2	1.2	—	
	<b>SNS1506</b>	●	15.75	4.76	5.5	7.5	1.2	1.2	1.2	1.2	—	
	<b>SNS1906</b>	●	18.92	6.35	5.5	7.5	1.2	1.2	1.2	1.2	—	
	<b>SNS2507</b>	●	25.27	7.93	6.6	9.5	2.4	2.4	2.4	2.4	—	
	<b>SNS2509</b>	●	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)	
			A	T	d <sub>1</sub>	d <sub>2</sub>	Ra	Rb	Rc	Rd		
	<b>TNS1604</b>	●	9.45	4.76	3.4	4.5	0.4	0.8	1.2	—		
	<b>TNS1604-R24</b>	●	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)	
			A	T	d <sub>1</sub>	d <sub>2</sub>	Ra	Rb	Rc	Rd		
	<b>VNS1604</b>	●	9.45	4.76	3.4	4.5	1.2	0.8	—	—		
For X-Bar Negative Insert	Cat. No.	Stock	Dimensions (mm)								(N·m)	
			A	T	d <sub>1</sub>	d <sub>2</sub>	Ra	Rb	Rc	Rd		
	<b>CNS1203B</b>	●	12.57	3.18	3.4	4.5	1.2	0.8	1.2	0.8	—	
	<b>CNS1204B</b>	●	12.57	4.76	4.4	4.6	1.2	0.8	1.2	0.8	—	
For X-Bar Negative Insert	Cat. No.	Stock	Dimensions (mm)								(N·m)	
			A	T	d <sub>1</sub>	d <sub>2</sub>	Ra	Rb	Rc	Rd		
	<b>DNS1104B</b>	●	9.45	4.76	3.4	4.5	1.2	0.8	1.2	0.8	—	
	<b>DNS1506B</b>	●	12.57	4.76	4.4	4.6	1.2	0.8	1.2	0.8	—	
	<b>DNS1504B</b>	●	12.57	6.35	4.4	4.6	1.2	0.8	1.2	0.8	—	
For SEC-Special Turning Holder	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			D	T	d	—	—	θ°				
	<b>SRPH163</b>	●	14	3.2	5.3	—	—	11	—			
	<b>SRPH203</b>	●	18	3.2	6.3	—	—	11	—			
For SEC-Sumi Dual Mill DGC Type	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	θ°				
	<b>DGCS13R</b>	●	13.7	3.9	6.8	8.8	—	5	—			
For SEC-WaveMill WGC/WGX Type	Cat. No.	Stock	Dimensions (mm)						(N·m)			
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	θ°				
	<b>WGCS13R</b>	●	10.7	3	5.5	7.5	—	5	—			

# Shims / Seats / Rings / Pins / Nuts

## Shims

For SEC-WaveMill WFX Type	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d <sub>1</sub>	d <sub>2</sub>	—	θ°	
	<b>WFXS4R</b>	●	10.2	3	5.5	7.5	—	15	—
For CCLC Holder	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	—	—	—	θ°	
	<b>SCN204</b>	●	8.7	2.04	—	—	—	7	—
For BNR Holder	Cat. No.	Stock	Dimensions (mm)						(N·m)
			D	T	—	—	—	—	
	<b>BNRS120</b>	●	11.2	4	—	—	—	—	—
For LTER (Threading)	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T <sub>1</sub>	T <sub>2</sub>	d	—	—	
	<b>LSTE31-0</b>	●	9.5	2.7	2.7	5.2	—	—	—
	<b>LSTE31-1</b>	●	9.5	2.67	2.91	5.2	—	—	—
	<b>LSTE31-2</b>	●	9.5	2.64	3.11	5.2	—	—	—
	<b>LSTE42-0</b>	●	12.65	3.18	3.18	7	—	—	—
	<b>LSTE42-1</b>	▲	12.65	3.14	3.45	7	—	—	—
	<b>LSTE42-2</b>	▲	12.65	3.09	3.71	7	—	—	—
For SSTE/SSSTI (Threading)	Cat. No.	Stock	Dimensions (mm)						(N·m)
			A	T	d	—	—	—	
	<b>YE3</b>	●	9.5	3.2	4	—	—	—	—
	<b>YI3</b>	●	9.5	3.2	4	—	—	—	—

## Seats

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

## Rings

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

## Shim Pins

For SEC-M Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	Pitch	L	D	D <sub>1</sub>	d <sub>1</sub>	
	<b>MP317</b>	●	M4	0.7	15.5	6	4	3.7	—
	<b>MP317S</b>	●	M4	0.7	15.5	6	4	3.56	—
	<b>MP320</b>	●	M4	0.7	19.5	6	4	3.7	—
	<b>MP320S</b>	●	M4	0.7	19.5	6	4	3.56	—
	<b>MP416</b>	●	M5	0.8	14	7.5	6	5	—
	<b>MP420</b>	●	M5	0.8	20	7.5	6	5	—
	<b>MP432</b>	●	M5	0.8	32	7.5	6	5	—
For SEC-Light Endmill	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	—	L	D	θ°	—	
	<b>SPP308</b>	●	3.2	—	8	4.8	60°	—	—
For SEC-20 & 40 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			—	—	L	D	—	—	
	<b>SPP3</b>	●	—	—	14	3.2	—	—	—
For SEC-70 Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	H	L	—	—	—	
	<b>LSP3</b>	●	5	3.3	5.5	—	—	—	—
	<b>LSP4</b>	●	6.7	4	7	—	—	—	—
	<b>LSP5</b>	●	7.7	4.5	8.5	—	—	—	—
	<b>LSP6</b>	●	9.85	6	11.1	—	—	—	—
	<b>LSP8</b>	●	13.05	10	12	—	—	—	—
	<b>LSP10</b>	●	5	3.3	6.5	—	—	—	—
	<b>LSP16</b>	●	6.6	4.5	9	—	—	—	—
	<b>LSP20</b>	●	8.2	5.5	9	—	—	—	—
	<b>LSP25</b>	●	9.8	6.5	11	—	—	—	—
	<b>LSP32</b>	●	13	10	12	—	—	—	—
Pin for SEC-Mini Tool Holder	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	D	L	l	—	—	
	<b>LP04</b>	●	0.4	1.1	4.7	3	—	—	—
	<b>LP06</b>	●	0.4	1.1	6	5	—	—	—
	<b>LP07</b>	●	0.4	1.1	7.7	3.5	—	—	—
For SEC-SV Type or Boring Bars	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d <sub>1</sub>	d <sub>2</sub>	L	D	l <sub>1</sub>	l <sub>2</sub>	
	<b>VP20</b>	●	M3.5	M4	12	6.5	≥ 4.5	≥ 4.5	—
	<b>VP25</b>	●	M3.5	M4	17	6.5	≥ 4.5	≥ 4.5	—
	<b>VP32</b>	●	M3.5	M4	24	6.5	≥ 4.5	≥ 4.5	—
For SEC-SV Type or Boring Bars	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	Pitch	L	l	D <sub>1</sub>	D <sub>2</sub>	
	<b>VP32B</b>	●	M3.5	0.6	8	1.4	5	6.5	—
	<b>VP40B</b>	●	M3.5	0.6	11.5	1.4	5	6.5	—
For SEC-M Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	L	D	B	—	—	
	<b>CPM32N</b>	●	M4	7.5	7	3	—	—	—
	<b>CPM43N</b>	●	M5	8.5	7	3	—	—	—
	<b>CPM43S</b>	●	M5	6	7	3	—	—	—
For BNB Holder	Cat. No.	Stock	Dimensions (mm)						(N·m)
			L	—	—	—	—	—	
	<b>BNBW-4</b>	●	4	—	—	—	—	—	—
	<b>BNBW-7</b>	●	7	—	—	—	—	—	—

## Nuts

For SEC-M Type Holders	Cat. No.	Stock	Dimensions (mm)						(N·m)
			d	L	D	B	—	—	
	<b>CPM32N</b>	●	M4	7.5	7	3	—	—	—
	<b>CPM43N</b>	●	M5	8.5	7	3	—	—	—
	<b>CPM43S</b>	●	M5	6	7	3	—	—	—
For BNB Holder	Cat. No.	Stock	Dimensions (mm)						(N·m)
			L	—	—	—	—	—	
	<b>BNBW-4</b>	●	4	—	—	—	—	—	—
	<b>BNBW-7</b>	●	7	—	—	—	—	—	—

Parts/Other

N

Parts

Technical Guidance Reference

# Nuts / Drawing Pins / Wrenches

## Nuts

For BNB Holder	Cat. No.	Stock	Dimensions (mm)					(N-m)
			d	Pitch	L	D	B	
	<b>CPV33N</b>	●	M4	0.5	6	6	2.5	—

## Drawing Pins

Fig1	Cat. No.	Stock	Dimensions (mm)					Shape	(N-m)	
			d	D	L	θ°	—			
	<b>SR083</b>	●	5	2.9	20	60	—	Fig1	—	
	<b>SR104</b>	●	5.5	3.4	21	60	—			
	<b>SR124</b>	●	6	3.9	24	60	—			
	<b>SR164</b>	●	8.2	5	32	60	—			
	<b>SR204</b>	●	9.2	6	41	60	—			
	<b>SR164Q</b>	●	8.2	5	32	60	—			Fig2
	<b>SW43B</b>	●	7.7	4.9	27.5	90	—			
	<b>SR134B</b>	●	6	3.9	22.5	60	—	Fig3	—	

## Wrenches

L-Shaped Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	L	ℓ	—	—	
	<b>LH015</b>	●	1.5	45	14	—	—	
	<b>LH020</b>	●	2	50	16	—	—	
	<b>LH025</b>	●	2.5	56	18	—	—	
	<b>LH030</b>	●	3	63	20	—	—	
	<b>LH035</b>	●	3.5	72	22	—	—	
	<b>LH040</b>	●	4	70	25	—	—	
	<b>LH050</b>	●	5	80	28	—	—	
	<b>LH060</b>	●	6	90	32	—	—	
	<b>LH100</b>	●	10	112	40	—	—	

L-Shaped Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	L	ℓ	—	—	
	<b>LH020NT</b>	●	2	50	16	—	—	
	<b>LH025NT</b>	●	2.5	56	18	—	—	
	<b>LH030NT</b>	●	3	63	20	—	—	

L-Shaped Wrench (Torx)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	d	L	ℓ	—	
	<b>LT08-06</b>	●	T8	2.3	42.5	6	—	
	<b>LT15-10</b>	●	T15	2.8	62	10	—	
	<b>LT15</b>	●	T15	3.26	54	17.9	—	
	<b>LT20</b>	●	T20	3.9	57.2	19.1	—	
	<b>LT25</b>	●	T25	4.4	60.3	20.2	—	
	<b>LT27</b>	●	T27	4.96	63.5	21.5	—	

Wrench (Torx)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	d	L	ℓ	—	
	<b>LT25NT</b>	●	3.6	4	65	10	—	

Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	b <sub>1</sub>	C	—	—	
	<b>TH030</b>	●	3	48	28	—	—	
	<b>TH040</b>	●	4	48	37	—	—	
	<b>TH050</b>	●	5	48	45	—	—	

## Wrenches

T-Shaped Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	b <sub>1</sub>	C	—	—	
	<b>TH015</b>	●	1.5	35	30	—	—	
	<b>TH020</b>	●	2	35	39	—	—	
	<b>TH025</b>	●	2.5	35	39	—	—	

Wing Wrench (Hex)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	C	b <sub>1</sub>	b <sub>2</sub>	—	
	<b>TSW040</b>	●	4	60	20	40	—	

Wing Wrench (Torx Plus)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	d	C	b <sub>1</sub>	b <sub>2</sub>	
	<b>TRXW10IP</b>	●	10P	2.6	40	75	40	—

T-Shaped Wrench (Torx)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	d	C	b <sub>1</sub>	—	
	<b>TTX15W</b>	●	T15	4	97	28	—	
	<b>TTX20</b>	●	T20	3.9	58	47	—	
	<b>TT25</b>	●	T25	4.4	27	48	—	
	<b>TT27</b>	●	T27	5	41	48	—	

Torx Wrench	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	C	b <sub>1</sub>	b <sub>2</sub>	—	
	<b>TRX06</b>	●	T6	35.5	15	15	—	
	<b>TRX08</b>	●	T8	38.5	19	19	—	
	<b>TRX10</b>	●	T10	42.1	22	22	—	
	<b>TRX15</b>	●	T15	46	22	27	—	
	<b>TRX20</b>	●	T20	49	22	30	—	

Torx Wrench	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	d	L	ℓ	—	
	<b>RT06</b>	●	2-1.8	2	35	8	—	
	<b>RT08</b>	●	2-2.1	2.1	35	8	—	

Torx Wrench	Cat. No.	Stock	Dimensions (mm)					(N-m)
			d	C	b <sub>1</sub>	b <sub>2</sub>	B	
	<b>RT10</b>	●	3	37	20	20	2.9	—

Torx Plus Wrench	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	C	b <sub>1</sub>	b <sub>2</sub>	—	
	<b>TRX06IP</b>	●	6IP	34	15	15	—	

T-Shaped Wrench (Torx Plus)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	d	C	b <sub>1</sub>	—	
	<b>TTR15IP</b>	●	15IP	4	80	25.5	—	

Bit (Removable Wrench Tip)	Cat. No.	Stock	Dimensions (mm)					(N-m)
			B	d	—	—	—	
	<b>TRB10IP</b>	●	10IP	4	—	—	—	
	<b>TRB15IP</b>	●	15IP	4	—	—	—	
	<b>TRB20IP</b>	●	20IP	4.5	—	—	—	
	<b>TRB25IP</b>	●	25IP	5	—	—	—	

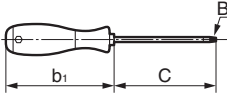

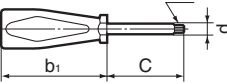

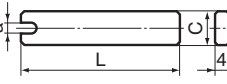

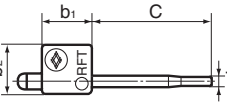

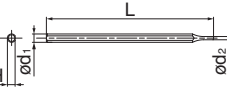

  

Hand Grip (Removable Handle)	Cat. No.	Stock	Dimensions (mm)			(N-m)
			D	L	Remarks	
	<b>HPS1015</b>	●	32	99.4	For 10IP and 15IP	—
	<b>HPL2025</b>	●	35.5	110.3	For 20IP and 25IP	—



# Wrenches

## Wrenches

<p>Torx Plus Wrench (Screwdriver Type)</p> 	Cat. No.	Stock	Dimensions (mm)						
			B	C	b <sub>1</sub>	—	—	—	
	<b>TRDR08IP</b>	●	8IP	60	104	—	—	—	
	<b>TRDR10IP</b>	●	10IP	80	111	—	—	—	
	<b>TRDR15IP</b>	●	15IP	80	111	—	—	—	
	<b>TRDR20IP</b>	●	20IP	100	118	—	—	—	
<b>TRDR25IP</b>	●	25IP	100	118	—	—	—		
<p>Torx Wrench (Screwdriver Type)</p> 	Cat. No.	Stock	Dimensions (mm)						
			B	d	C	b <sub>1</sub>	—	—	
	<b>TRD07</b>	●	T7	2	45	70	—	—	
	<b>TRD08</b>	●	T8	2.3	55	70	—	—	
	<b>TRD15</b>	●	T15	3.3	70	100	—	—	
	<b>TRD20</b>	●	T20	3.9	100	90	—	—	
<b>TRD25</b>	●	T25	5.3	80	110	—	—		
<p>Key Wrench</p> 	Cat. No.	Stock	Dimensions (mm)						
			L	a	C	—	—	—	
	<b>KY25</b>	●	45	2.5	10	—	—	—	
<b>KY40</b>	●	60	4	13	—	—	—		
<p>Socket Wrench (Wrench for Axial Adjustment Operation)</p> 	Cat. No.	Stock	Dimensions (mm)						
	<b>RFT</b>	●	d	C	b <sub>1</sub>	b <sub>2</sub>	—	—	
<b>RFT</b>	●	1.7	35	15	15	—	—		
<p>Socket Wrench</p> 	Cat. No.	Stock	Dimensions (mm)						
	<b>ANT</b>	●	d <sub>1</sub>	d <sub>2</sub>	L	H	—	—	
<b>ANT</b>	●	5	2	100	4.5	—	—		

