

	Root Shape						
Torque Screwdriver	-	RTD/RTDZ/LTD BMRD BMLD FTD50CN - 400CN FTD2CN-S - 400CN2-S STC2-G		FTD8N2-S - FTD16N2-S, (FTD8N - 16N)	AMRD AMLMD MTD	LTD2000CN	-
Power Torque Tool	U30CN	U (except U30CN), PTA-G-BT		-	-	-	AUR (LS) 5N-mk2
Root Shape Sign	A	B	C	D	F	G	H
Root Shape and Dimensions							

		Sign	Size	Screw	Tohnichi Original Bit	Common (Standard)	Tohnichi Original Bit	Tohnichi Original Bit	Tohnichi Original Bit	Common (Standard)	
Screw Head Shape	Plus ⊕	0	#0 (S-0)	Refer to Table A	104	109		115			
		1	#1 (H-1)	Refer to Table A		85 106	84 116				
		2	#2 (H-2)	Refer to Table A		86 107	80				
		3	#3 (H-3)	Refer to Table A	87		81	35	700		
	4	#4 (H-4)	Refer to Table A				36				
	Minus ⊖	10	0.15 × 1	Refer to Table B				111			
		11	0.2 × 1.5	Refer to Table B				112			
		12	0.3 × 2	Refer to Table B				113			
		13	0.4 × 2.4	Refer to Table B	105						
		14	0.6 × 3.8	Refer to Table B		108					
		15	0.7 × 7	Refer to Table B		88					
		16	0.9 × 7	Refer to Table B		89					
		17	1 × 10	Refer to Table B					37		
		18	1 × 12	Refer to Table B					38		
		19	1.2 × 17	Refer to Table B					39		
		20	1.6 × 10	Refer to Table B			82				
	21	1.2 × 8	Refer to Table B			83					
	Hex bit socket ⦿	Hex Bolt									
		W 5.5	5.5	M3		91					
		W 6	6	(M3.5)		95					
		W 7	7	M4		92					
		W 8	8	(M4.5) M5		93					
	Hex ⬡	W 10	10	M6		94					
				Cap Screw	Set Screw						
		W 1.27	1.27		M2.5		56				
		W 1.5	1.5		M3		57				
		W 2	2	M2.5	M4		58				
W 2.5		2.5	M3	M5		59					
W 3		3	M4	M6		60					
W 4		4	M5	M8		61					
W 5		5	M6	M10		62					
W 6		6	M8	M12 (M14)		63					
W 8		8	M10	M16 (M18)		64					
Square Drive □		2	□ 6.35	(1/4)		90				33	
		3	□ 9.53	(3/8)						34	
Hexalobular ★	Flat Head		Socket Head	Set Screw							
	T 5	M2		M2.5		470					
	T 6	M2		M3		471					
	T 7			M3.5							
	T 8	M2.5	M2.5	M4		472					

Nominal Size of Screw (d)	Hex head Bolt (B)		Small Hex Head Bolt (B)	High Strength Hex Bolt for Friction Grip Joint (B)	Hex Socket Head Cap Screw (B)	Hex Socket Set Screw (B)
M2.5	4.5		-	-	2	1.27
M3	5.5		-	-	2.5	1.5
(M3.5)	6		-	-	-	-
M4	7		-	-	3	2
(M4.5)	8		-	-	-	-
M5	8		-	-	4	2.5
M6	10		-	-	5	3
(M7)	11		-	-	-	-
M8	13		12	-	6	4
M10	16	17	14	-	8	5
M12	18	19	17	22	10	6
(M14)	21	22	19	-	12	
M16	24		22	27	14	8
(M18)	27		24	-		
M20	30		27	32	17	10
(M22)	32	34	30	36		-
M24	36		32	41	19	-
(M27)	41		36	46		-
M30	46		41	50	22	-
(M33)	50		46	-	24	-
M36	55		50	-	27	-
(M39)	60		55	-		-
M42	65		-	-	32	-
JIS	JIS B 1180		JIS B 1180	JIS B 1186	JIS B 1176	JIS B 1177

Technical drawing of a hex bolt. The left view shows the hexagonal head with a dimension line across its flats labeled 'B'. The right view shows the bolt's shaft with a dimension line across its diameter labeled 'd'. Below the head view, the text '(Width across flats)' is written.

No. of Cross Nominal Size of Screw (d)	Hole No.	Remark
M1.6, M2	#0 (S-0)	Pan head screw, Flat head screw, Pan flat screw, Bind screw
[M2], (M2.2), M2.5, (M3)	#1 (H-1)	[(M3) #1 is bind small screw only]
M3, (M3.5), M4, (M4.5), M5	#2 (H-2)	[(M2) #1 is not compliant with ISO]
M6	#3 (H-3)	
M8, M10	#4 (H-4)	

		Nominal Size (b)																	
		M1	M1.2	(M1.4)	M1.6	(M1.7)	M2	(M2.2M)	M2.3	M2.5	(M2.6)	M3	(M3.5)	M4	(M4.5)	M5	M6	M8	M10
Groove Width (a)	ISO screws				0.4		0.5		0.6		0.8	1	1.2		1.2	1.6	2	2.5	
	Non-ISO screws			0.32	0.4	0.6		0.8		1	1.2	1.6	2	2.5					