

Marketed By:



فاستنر بوينت (ش.ذ.م.م.)
FASTENER POINT LLC



Manufactured By:



فاستنر بوينت للصناعات (ش.ذ.م.م.)
FASTENER POINT IND. LLC

BOLT SIZE	PITCH	STRESS AREA	BOLT/SCREW & STUD ISO 4014/4017 Gr. ISO 898-1 8.8									NUT ISO 4032 Grade ISO 898-2 Gr. 8				
			SHANK DIAMETER	WIDTH ACCROSS FLATS	HEAD HEIGHT	PROOF STRESS	PROOF LOAD	TENSILE STRESS	TORQUE*	HARDNESS	ELONGATION #	WIDTH ACCROSS FLATS	HEAD HEIGHT	PROOF STRESS	PROOF LOAD	HARDNESS
mm	mm	mm ²	A/B Min~Max	A/B Min~Max	A/B Min~Max	Mpa	KN	Mpa	N-m	HRC	%	mm	mm	Mpa	KN	HRC
M6	1	20.1	5.82/5.70~6.00	9.78/9.64~10.00	3.85/3.76~4.15/4.24	580	11.7	800	9.4	22-32	12-	9.78~10.00	4.90~5.20	855	17.2	-30
M8	1.25	36.6	7.78/7.64~8.00	12.73/12.57~13.00	5.15/5.06~5.45/5.54	580	21.2	800	22.8	22-32	12-	12.73~13.00	6.44~6.80	870	31.8	-30
M10	1.5	58.0	9.78/9.64~10.00	15.73/15.57~16.00	6.22/6.11~6.58/6.69	580	33.7	800	45.8	22-32	12-	15.73~16.00	8.04~8.40	870	50.5	-30
M12	1.75	84.3	11.73/11.57~12.00	17.73/17.57~18.00	7.32/7.21~7.68/7.79	600	50.7	830	78.8	23-34	12-	17.73~18.00	10.37~10.80	880	74.2	-30
M14	2.0	115.0	13.73/13.57~14.00	20.67/20.16~21.00	8.62/8.51~8.98/9.09	600	68.8	830	129.7	23-34	12-	20.67~21.00	12.10~12.80	880	101.2	-30
M16	2.0	157.0	15.73/15.57~16.00	23.67/23.16~24.00	9.82/9.71~10.18/10.29	600	94.5	830	195.6	23-34	12-	23.67~24.00	14.10~14.80	880	138.2	-30
M18	2.5	192.0	17.73/17.57~18.00	26.67/26.16~27.00	11.285/11.15~11.715/11.85	600	115.2	830	278.4	23-34	12-	26.16~27.00	15.10~15.80	920	176.6	-36
M20	2.5	245.0	19.67/19.48~20.00	29.67/29.16~30.00	12.285/12.15~12.715/12.85	600	147.0	830	394.7	23-34	12-	29.16~30.00	16.90~18.00	920	225.4	-36
M22	2.5	303.0	21.67/21.48~22.00	33.38/33.00~34.00	13.785/13.65~14.215/14.35	600	182.0	830	536.9	23-34	12-	33.00~34.00	18.10~19.40	920	278.8	-36
M24	3.0	353.0	23.67/23.48~24.00	35.38/35.00~36.00	14.785/14.65~15.215/15.35	600	212.0	830	682.4	23-34	12-	35.00~36.00	20.20~21.50	920	324.8	-36
M27	3.0	459.0	N/26.48~27.00	N/40.00~41.00	N/16.65~N/17.35	600	275.4	830	998.3	23-34	12-	40.00~41.00	22.50~23.80	920	422.3	-36
M30	3.5	561.0	N/29.48~30.00	N/45.00~46.00	N/18.28~N/19.12	600	337.0	830	1,356	23-34	12-	45.00~46.00	24.30~25.60	920	516.1	-36
M33	3.5	694.0	N/32.38~33.00	N/49.00~50.00	N/20.58~N/21.42	600	416.4	830	1,845	23-34	12-	49.00~50.00	27.40~28.70	920	638.5	-36
M36	4.0	817.0	N/35.38~36.00	N/53.80~55.00	N/22.08~22.92	600	490.2	830	2,369	23-34	12-	53.80~55.00	29.40~31.00	920	751.6	-36
M39	4.0	976.0	N/38.38~39.00	N/58.80~60.00	N/24.58~N25.42	600	586.0	830	3,066	23-34	12-	58.80~60.00	31.80~33.40	920	897.9	-36
M42	4.5	1,120.0	N/41.38~42.00	N/63.1~65.00	N/25.58~N/26.42	600	672.0	830	3,789	23-34	12-	63.10~65.00	32.40~34.00	920	1,030	-36
M45	4.5	1,310.0	N/44.38~45.00	N/68.10~70.00	N/27.58~N/28.42	600	786.0	830	4,748	23-34	12-	68.10~70.00	34.40~36.00	920	1,205	-36
M48	5.0	1,470.0	N/47.38~48.00	N/73.10~75.00	N/29.58~N/30.42	600	882.0	830	5,684	23-34	12-	73.10~75.00	36.40~38.00	920	1,352	-36
M52	5.0	1,760.0	N/51.26~52.00	N/78.10~80.00	N/32.50~N/33.50	600	1,056	830	7,372	23-34	12-	78.10~80.00	40.40~42.00	920	1,619	-36
M56	5.5	2,030.0	N/55.26~56.00	N/82.80~85.00	N/34.50~N/35.50	600	1,218	830	9,157	23-34	12-	82.80~85.00	43.40~45.00	920	1,868	-36
M60	5.5	2,360.0	N/59.26~60.00	N/87.80~90.00	N/37.50~N/38.50	600	1,416	830	11,406	23-34	12-	87.80~90.00	46.40~48.00	920	2,171	-36
M64	6.0	2,680.0	N/63.26~64.00	N/92.80~95.00	N/39.50~N/40.50	600	1,608	830	13,816	23-34	12-	92.80~95.00	49.10~51.00	920	2,466	-36
M68	6.0	3,060.0	N/63.26~64.00	N/92.80~95.00	N/39.50~N/40.50	600	1,836	830	16,761	23-34	12-	92.80~95.00	49.10~51.00	920	2,466	-36
M72	6.0	3,460.0				600	2,076	830	20,067	23-34	12-			920	2,466	-36
M76	6.0	3,890.0				600	2,334	830	23,814	23-34	12-			920	2,466	-36
M80	6.0	4,340.0				600	2,604	830	27,967	23-34	12-			920	2,466	-36
M85	6.0	4,950.0				600	2,970	830	33,891	23-34	12-			920	2,466	-36
M90	6.0	5,590.0				600	3,354	830	40,525	23-34	12-			920	2,466	-36
M95	6.0	6,270.0				600	3,762	830	47,980	23-34	12-			920	2,466	-36
M100	6.0	6,990.0				600	4,194	830	56,304	23-34	12-			920	2,466	-36
Dimensions	HEX as per ISO 4014/4017											HEX as per ISO 4032				
Markings	'FPI' 'M' '8.8'											'FPI' '8'				
Carbon	0.25-0.55/0.20-0.55											-0.58				
Manganese												(<= M16) 0.25- / 0.3- (> M16)				
Sulfur	-0.025											(<= M16) -0.15 / -0.058 (> M16)				
Silicon																
Chromium																
Molybdenum																
Nickle																
Vanadium																
Boron	-0.003															
Copper																
Nitrogen																
Phosphorus	-0.025											-0.06/0.048				
Material	Carbon / Alloy steel quenched & tempered											Medium Carbon Steel				

Notes:

Left hand side of '-' is minimum value
right hand side of '-' is maximum value
Eg. 0.5-0.7 min is 0.5 and max is 0.7
Eg. -0.8 max is 0.8 no minimum value
Eg. 2.0- min is 2.0 no maximum value

* Torque value based on 75% of proof load and finish as received steel

While every care has been taken in preparation of the information, the company accepts no liability for any loss or damage either direct or consequential. Please refer Original standards for details.