

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 ASTM A193M B7										NUT ASTM A194M 2H				
			SHANK DIAMETER	WIDTH ACCROSS FLATS	HEAD HEIGHT	YIELD STRESS	YIELD LOAD	TENSILE STRESS	TORQUE *	REDUCTION OF AREA	HARDNESS	ELONGATION #	WIDTH ACCROSS FLATS	HEAD HEIGHT	PROOF STRESS	PROOF LOAD	HARDNESS
mm	mm	mm <sup>2</sup>	mm	mm	mm	Mpa	KN	Mpa	N-m	%	HRC	%	mm	mm	Mpa	KN	HRC
M6	1	20.1				720	14.5	860	11.7	50-	-35	16-			1205	24.2	24-35
M8	1.25	36.6				720	26.4	860	28.3	50-	-35	16-			1205	44.1	24-35
M10	1.5	58.8				720	42.3	860	56.8	50-	-35	16-			1205	70.9	24-35
M12	1.75	84.3	11.73~12.00	20.67~21.00	7.24~7.76	720	60.7	860	97.8	50-	-35	16-	20.16~21.00	11.90~12.30	1205	101.6	24-35
M14	2.0	115.0	13.73~14.00	23.67~24.00	8.51~9.09	720	82.8	860	155.6	50-	-35	16-	23.16~24.00	13.60~14.30	1205	138.6	24-35
M16	2.0	157.0	15.73~16.00	26.67~27.00	9.68~10.32	720	113.0	860	242.8	50-	-35	16-	26.16~27.00	16.40~17.10	1205	189.2	24-35
M18	2.5	192.0				720	138.2	860	334.1	50-	-35	16-			1205	231.4	24-35
M20	2.5	245.0	19.67~20.00	33.00~34.00	12.12~12.88	720	176.4	860	473.6	50-	-35	16-	33.00~34.00	19.40~20.70	1205	295.2	24-35
M22	2.5	303.0				720	218.2	860	644.3	50-	-35	16-	35.00~36.00	22.30~23.60	1205	365.1	24-35
M24	3.0	353.0	23.67~24.00	40.00~41.00	14.56~15.44	720	254.2	860	818.9	50-	-35	16-	40.00~41.00	22.90~24.20	1205	425.4	24-35
M27	3.0	459.0				720	330.5	860	1,198	50-	-35	16-	45.00~46.00	26.30~27.60	1205	553.1	24-35
M30	3.5	561.0	29.67~30.00	49.00~50.00	17.92~19.48	720	403.9	860	1,627	50-	-35	16-	49.00~50.00	29.10~30.70	1205	676.0	24-35
M33	3.5	694.0				720	499.7	860	2,214	50-	-35	16-			1205	836.3	24-35
M36	4.0	817.0	35.61~36.00	58.80~60.00	21.72~23.38	720	588.2	860	2,843	50-	-35	16-	58.80~60.00	35.00~36.60	1205	984.5	24-35
M39	4.0	976.0				720	702.7	860	3,679	50-	-35	16-			1205	1,176.1	-35
M42	4.5	1,120.0				720	806.4	860	4,547	50-	-35	16-	67.90~70.00	40.40~42.00	1205	1,349.6	-35
M45	4.5	1,310.0				720	943.2	860	5,698	50-	-35	16-			1205	1,578.6	-35
M48	5.0	1,470.0				720	1,058.4	860	6,820	50-	-35	16-	77.60~80.00	46.40~48.00	1205	1,771.4	-35
M52	5.0	1,760.0				720	1,267.2	860	8,846	50-	-35	16-			1205	2,120.8	-35
M56	5.5	2,030.0				720	1,461.6	860	10,988	50-	-35	16-	87.20~90.00	54.10~56.00	1205	2,446.2	-35
M60	5.5	2,360.0				720	1,699.2	860	13,687	50-	-35	16-			1205	2,843.8	-35
M64	6.0	2,680.0				720	1,929.6	860	16,579	50-	-35	16-	96.80~100.00	62.10~64.00	1205	3,229.4	-35
M68	6.0	3,060.0				655	2,004.3	795	18,297	50-	-35	16-			1205	3,687.3	-35
M72	6.0	3,460.0				655	2,266.3	795	21,906	50-	-35	16-	106.40~110.00	70.10~72.00	1205	4,169.3	-35
M76	6.0	3,890.0				655	2,548.0	795	25,997	50-	-35	16-			1205	4,687.5	-35
M80	6.0	4,340.0				655	2,842.7	795	30,531	50-	-35	16-	116.00~120.00	78.10~80.00	1205	5,229.7	-35
M85	6.0	4,950.0				655	3,242.3	795	36,998	50-	-35	16-			1205	5,964.8	-35
M90	6.0	5,590.0				655	3,661.5	795	44,239	50-	-35	16-	130.50~135.00	87.80~90.00	1205	6,736.0	-35
M95	6.0	6,270.0				655	4,106.9	795	52,378	50-	-35	16-			1205	7,555.4	-35
M100	6.0	6,990.0				655	4,578.5	795	16,482	50-	-35	16-	145.00~150.00	97.80~100.00	1205	8,423.0	-35
Dimensions			HEAVY HEX as per ANSI/ASME B18.2.3.3M										HEAVY HEX as per ANSI/ASME B18.2.4.6M				
Markings			'FPI' 'B7'										'FPI' '2H'				
Tempering °C			593 ( 1100° F )										455 ( 850° F )				
Heating for 24Hours for the Nut °C													540 ( 1000° F )				
Hardness After Heating													<= M36 89 HRB >M36 79HRB				
Charpy Test Specimen 10X10X55																	
Charpy V Notch Impact test at																	
Carbon			0.37-0.49										0.4-				
Manganese			0.65-1.10										-1.0				
Sulfur			-0.040										-0.050				
Silicon			0.15-0.35										-0.40				
Chromium			0.75-1.20														
Molybdenum			0.15-0.25														
Nickel																	
Vanadium																	
Boron																	
Copper																	
Nitrogen																	
Phosphorus			-0.035										-0.40				
Material			Chromium-molybdenum Steel										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  
# Elongation in length of 4 times Diameter

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.