

Marketed By:



فاستنر پوینت (ش.ذ.م.م.)  
**FASTENER POINT LLC**



Manufactured By:



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

BOLT SIZE	PITCH	STRESS AREA	BOLT/SCREW & STUD ISO 4014/4017 Gr. ISO 898-1 10.9										NUT ISO 4032 Grade ISO 898-2 Gr. 10				
			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 <sup>2</sup>	mm	mm	mm	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	830	16.7	1,040	13.4	32-39	9-	9.78-10.00	4.90-5.20	1040	20.9	26-36	
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	830	30.4	1,040	32.6	32-39	9-	12.73-13.00	6.44-6.80	1040	31.8	26-36	
M10	1.5	58.8	9.78/9.64-10.00	15.73/15.57-16.00	6.22/6.11-6.58/6.69	830	48.8	1,040	65.5	32-39	9-	15.73-16.00	8.04-8.40	1040	61.2	26-36	
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	830	70.0	1,040	112.7	32-39	9-	17.73-18.00	10.37-10.80	1050	88.5	26-36	
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	830	95.5	1,040	179.4	32-39	9-	20.67-21.00	12.10-12.80	1050	120.8	26-36	
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	830	130.3	1,040	279.9	32-39	9-	23.67-24.00	14.10-14.80	1050	164.9	26-36	
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	830	159.4	1,040	385.1	32-39	9-	26.16-27.00	15.10-15.80	1060	203.5	26-36	
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	830	203.4	1,040	546.0	32-39	9-	29.16-30.00	16.90-18.00	1060	259.7	26-36	
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	830	251.5	1,040	742.8	32-39	9-	33.00-34.00	18.10-19.40	1060	321.2	26-36	
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	830	293.0	1,040	944.0	32-39	9-	35.00-36.00	20.20-21.50	1060	374.2	26-36	
M27	3.0	459.0	N/26.48-27.00	N/40.00-41.00	N/16.65-N/17.35	830	381.0	1,040	1,381	32-39	9-	40.00-41.00	22.50-23.80	1060	486.5	26-36	
M30	3.5	561.0	N/29.48-30.00	N-45.00-46.00	N/18.28-N/19.12	830	465.6	1,040	1,875	32-39	9-	45.00-46.00	24.30-25.60	1060	594.7	26-36	
M33	3.5	694.0	N/32.38-33.00	N/49.00-50.00	N/20.58-N/21.42	830	576.0	1,040	2,552	32-39	9-	49.00-50.00	27.40-28.70	1060	735.6	26-36	
M36	4.0	817.0	N/35.38-36.00	N53.80-55.00	N/22.08-22.92	830	678.1	1,040	3,277	32-39	9-	53.80-55.00	29.40-31.00	1060	866.0	26-36	
M39	4.0	976.0	N/38.38-39.00	N/58.80-60.00	N/24.58-N/25.42	830	810.1	1,040	4,241	32-39	9-	58.80-60.00	31.80-33.40	1060	1,034.6	26-36	
M42	4.5	1,120.0	N/41.38-42.00	N/63.1-65.00	N/25.58-N/26.42	830	929.6	1,040	5,242	32-39	9-	63.10-65.00	32.40-34.00	1060	1,187.2	26-36	
M45	4.5	1,310.0	N/44.38-45.00	N/68.10-70.00	N/27.58-N/28.42	830	1,087.3	1,040	6,569	32-39	9-	68.10-70.00	34.40-36.00	1060	1,388.6	26-36	
M48	5.0	1,470.0	N/47.38-48.00	N/73.10-75.00	N/29.58-N/30.42	830	1,220.1	1,040	7,862	32-39	9-	73.10-75.00	36.40-38.00	1060	1,558.2	26-36	
M52	5.0	1,760.0	N/51.26-52.00	N/78.10-80.00	N/32.50-N/33.50	830	1,460.8	1,040	10,198	32-39	9-	78.10-80.00	40.40-42.00	1060	1,865.6	26-36	
M56	5.5	2,030.0	N/55.26-56.00	N/82.80-85.00	N/34.50-N/35.50	830	1,684.9	1,040	12,667	32-39	9-	82.80-85.00	43.40-45.00	1060	2,151.8	26-36	
M60	5.5	2,360.0	N/59.26-60.00	N/87.80-90.00	N/37.50-N/38.50	830	1,958.8	1,040	15,778	32-39	9-	87.80-90.00	46.40-48.00	1060	2,501.6	26-36	
M64	6.0	2,680.0	N/63.26-64.00	N/92.80-95.00	N/39.50-N/40.50	830	2,224.4	1,040	19,112	32-39	9-	92.80-95.00	49.10-51.00	1060	2,840.8	26-36	
M68	6.0	3,060.0				830	2,539.8	1,040	23,186	32-39	9-			1060	3,244	26-36	
M72	6.0	3,460.0				830	2,871.8	1,040	27,759	32-39	9-			1060	3,668	26-36	
M76	6.0	3,890.0				830	3,228.7	1,040	32,942	32-39	9-			1060	4,123	26-36	
M80	6.0	4,340.0				830	3,602.2	1,040	38,688	32-39	9-			1060	4,600	26-36	
M85	6.0	4,950.0				830	4,108.5	1,040	46,883	32-39	9-			1060	5,247	26-36	
M90	6.0	5,590.0				830	4,639.7	1,040	56,059	32-39	9-			1060	5,925	26-36	
M95	6.0	6,270.0				830	5,204.1	1,040	66,372	32-39	9-			1060	6,646	26-36	
M100	6.0	6,990.0				830	5,801.7	1,040	77,888	32-39	9-			1060	7,409	26-36	
Dimensions	HEX as per ISO 4014/4017										HEAVY HEX as per ISO 4032						
Markings	'FPI' 'M' '10.9'										'FPI' '10'						
Carbon	0.25-0.55/0.20-0.55										-0.58						
Manganese											0.30-						
Sulfur	-0.025										-0.058						
Silicon																	
Chromium																	
Molybdenum																	
Nickle																	
Vanadium																	
Boron	-0.003																
Copper																	
Nitrogen																	
Phosphorus	-0.025										-0.048						
Material	Carbon steel/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

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