

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 BS EN 14399-3 Gr. 10.9										NUT BS EN 14399-3 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															
M8	1.25	36.6															
M10	1.5	58.8															
M12	1.75	84.3	11.30~12.70	21.16~22.00	7.05~7.95	830	70.0	1,040	112.7	32-39	9-	21.16~22.00	10.37~10.80	1160	97.8	28-38	
M14	2.0	115.0	13.30~14.70	23.16~24.00	8.35~9.25	830	95.5	1,040	179.4	32-39	9-	23.16~24.00	12.10~12.80	1160	133.4	28-38	
M16	2.0	157.0	15.30~16.70	26.16~27.00	9.25~10.75	830	130.3	1,040	279.9	32-39	9-	26.16~27.00	14.10~14.80	1160	182.1	28-38	
M18	2.5	192.0	17.30~18.70	29.16~30.00	10.60~12.40	830	159.4	1,040	385.1	32-39	9-	29.16~30.00	15.10~15.80	1160	222.7	28-38	
M20	2.5	245.0	19.16~20.84	31.00~32.00	11.60~13.40	830	203.4	1,040	546.0	32-39	9-	31.00~32.00	16.90~18.00	1160	284.2	28-38	
M22	2.5	303.0	21.16~22.84	35.00~36.00	13.10~14.90	830	251.5	1,040	742.8	32-39	9-	35.00~36.00	18.10~19.40	1160	351.5	28-38	
M24	3.0	353.0	23.16~24.84	40.00~41.00	14.10~15.90	830	293.0	1,040	944.0	32-39	9-	40.00~41.00	20.20~21.50	1160	409.5	28-38	
M27	3.0	459.0	26.16~27.84	45.00~46.00	16.10~17.90	830	381.0	1,040	1,381	32-39	9-	45.00~46.00	22.50~23.80	1160	532.4	28-38	
M30	3.5	561.0	29.16~30.84	49.00~50.00	17.65~19.75	830	465.6	1,040	1,875	32-39	9-	49.00~50.00	24.30~25.60	1160	650.8	28-38	
M33	3.5	694.0				830	576.0	1,040	2,552	32-39	9-			1160	805.0	28-38	
M36	4.0	817.0	35.00~37.00	58.80~60.00	21.45~23.55	830	678.1	1,040	3,277	32-39	9-	58.80~60.00	29.40~31.00	1160	947.7	28-38	
M39	4.0	976.0															
M42	4.5	1,120.0															
M45	4.5	1,310.0															
M48	5.0	1,470.0															
M52	5.0	1,760.0															
M56	5.5	2,030.0															
M60	5.5	2,360.0															
M64	6.0	2,680.0															
M68	6.0	3,060.0															
M72	6.0	3,460.0															
M76	6.0	3,890.0															
M80	6.0	4,340.0															
M85	6.0	4,950.0															
M90	6.0	5,590.0															
M95	6.0	6,270.0															
M100	6.0	6,990.0															
Dimensions	HEX as per EN 14399-32005										HEX as per EN 14399-32005						
Markings	'FPI' '10.9HR'										'FPI' '10HR'						
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

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.