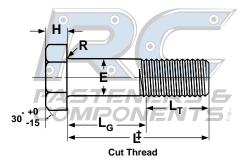
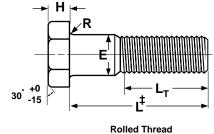
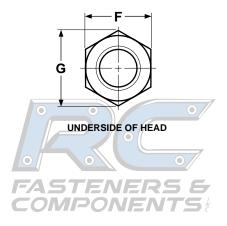
Cap Screws & Bolts Hot Dip Galvanized









‡Length of a machine bolt is measured from the underhead bearing surface to the extreme end of the bolt.

HEX MACHINE BOLTS ASME B18.2.1- 1996															
FA	STR	ENERS &			G		н			R		L _T			
Nominal Size Or	Body Diameter		NTS			Width Across Corners		Head Height		Radius of Fillet		Thread Length For Bolt Lengths			
Basic Diameter			Width Across Flats		6 in. and shorter							over 6 in.			
	Max.	Min.	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	Max.	Min.	Basic	Basic	
1/4 0.2500	0.260	0.237	7/16	0.438	0.425	0.505	0.484	11/64	0.188	0.150	0.03	0.01	0.750	1.000	
5/16 0.3125	0.324	0.298	1/2	0.500	0.484	0.577	0.552	7/32	0.235	0.195	0.03	0.01	0.875	1.125	
3/8 0.3750	0.388	0.360	9/16	0.562	0.544	0.650	0.620	1/4	0.268	0.226	0.03	0.01	1.000	1.250	
1/2 0.5000	0.515	0.482	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302	0.03	0.01	1.250	1.500	
5/8 0.6250	0.642	0.605	15/16	0.938	0.906	1.083	1.033	27/64	0.444	0.378	0.06	0.02	1.500	1.750	
3/4 0.7500	0.768	0.729	1-1/8	1.125	1.088	1.299	1.240	1/2	0.524	0.455	0.06	0.02	1.750	2.000	
7/8 0.8750	0.895	0.852	1-5/16	1.312	1.269	1.516	1.447	37/64	0.604	0.531	0.06	0.02	2.000	2.250	
1 1.0000	1.022	0.976	1-1/2	1.500	1.450	1.732	1.653	43/64	0.700	0.591	0.09	0.03	2.250	2.500	
			. .	Nominal Screw Length											
Tolerance on Length		Nominal Screw Size			Up to1 in., incl.		Over 1 in. to 2-1/2 in., incl.		Over 2-1/2 in. to 4 in., incl.		Over 4 in. to 6 in., incl.		Longer than 6 in.		
		h 1/4 to 3/8			+0.02	+0.02, -0.03		+0.02, -0.04		+0.04, -0.06		+0.06, -0.10		+0.10, -0.18	
		7/16 and 1/2			+0.02, -0.03		+0.04, -0.06		+0.06, -0.08		+0.08, -0.10		+0.12, -0.18		
		9/16 to 3/4			+0.02, -0.03		+0.06, -0.08		+0.08, -0.10		+0.10, -0.10		+0.14, -0.18		
		7/8 and 1					+0.08, -0.10		+0.10, -0.14		+0.12, -0.16		+0.16, -0.20		

Hex Machine Bolts	Hot Dip Galvanized Bolts & Cap Screws
0 0	FASTENERS & COMPONENTS
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Description	A low or medium carbon steel, externally threaded mechanical device, 1/4 inch in diameter or larger, with a trimmed hex head and a hot-dip galvanized coating. A hex bolt does not have a washer face on its bearing surface as does a hex cap screw, nor does it have a machined point. Its body tolerances are not as close as those of a cap screw.
Applications/ Advantages	Designed to be used in highly corrosive environments (ie. coastal locales and heavily polluted atmospheres). May be inserted into an oversized hole and should be assembled with a nut.
Material	Machine bolts shall be manufactured from steel which conforms to the following chemical composition requirements: <i>Phosphorus:</i> 0.06% maximum; <i>Sulfur:</i> 0.15% maximum.
Hardness	Bolts of a length < 3X nominal diameter: Rockwell B69 - B100. Bolts of a length => 3X nominal diameter: Rockwell B100 maximum.
Tensile Strength	60,000 psi. minimum.
Elongation*	18% minimum (all diameters)
Plating	See Appendix-A for plating information.



*These properties are tested only on machined specimens when the testing machine cannot provide for full testing of the parts. **Product standards require the manufacturer's head marking to appear on the top of all bolts 1/4" diameter and larger. "X" represents one location such a marking may appear.

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