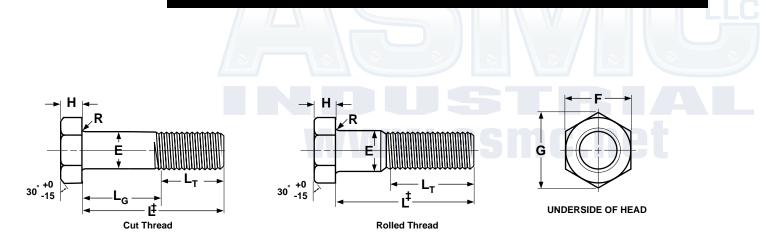
Cap Screws & Bolts Hot Dip Galvanized

Hex Machine Bolts



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

				HEX	Мас	HINE B	OLTS		L	.LC	_		ASME	B18.2.1- 1996
	F		D	F		(3		Н		1	R	L	т
Nominal Size Or						Width	Across			2	Padi	us of	Thread For Bolt	Length Lengths
Basic Diameter	Body D	iameter	Width	Across	Flats		ners		lead Hei	ght		llet	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
							ſ					1		C
								No	ominal So	rew Leng	gth			
		Nomir	nal Screw	/ Size	Up to1	in., incl.	Over 1 2-1/2 ir			1/2 in. to , incl.		4 in. to , incl.	Longer t	han 6 in.
Tolerance on	Length		1/4 to 3/8		+0.02	, -0.03	+0.02,	-0.04	+0.04	, -0.06	+0.06	, -0.10	+0.10	, -0.18
	U	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	Ļ	+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 Screw
Description	A low or medium carbon steel, externally threaded mechanical devic a hot-dip galvanized coating. A hex bolt does not have a washer far have a machined point. Its body tolerances a	ce on its bearing surface as does a hex cap screw, nor does it
Description Applications/ Advantages	a hot-dip galvanized coating. A hex bolt does not have a washer far	ce on its bearing surface as does a hex cap screw, nor does it re not as close as those of a cap screw. cales and heavily polluted atmospheres). May be inserted into
Applications/	a hot-dip galvanized coating. A hex bolt does not have a washer far have a machined point. Its body tolerances a Designed to be used in highly corrosive environments (ie. coastal lo	ce on its bearing surface as does a hex cap screw, nor does it re not as close as those of a cap screw. cales and heavily polluted atmospheres). May be inserted into be assembled with a nut. ms to the following chemical composition requirements:
Applications/ Advantages	a hot-dip galvanized coating. A hex bolt does not have a washer far have a machined point. Its body tolerances a Designed to be used in highly corrosive environments (ie. coastal lo an oversized hole and should l Machine bolts shall be manufactured from steel which confor	ce on its bearing surface as does a hex cap screw, nor does it re not as close as those of a cap screw. cales and heavily polluted atmospheres). May be inserted into be assembled with a nut. ms to the following chemical composition requirements: <i>Sulfur:</i> 0.15% maximum. meter: Rockwell B69 - B100.
Applications/ Advantages Material	a hot-dip galvanized coating. A hex bolt does not have a washer fai have a machined point. Its body tolerances a Designed to be used in highly corrosive environments (ie. coastal lo an oversized hole and should l Machine bolts shall be manufactured from steel which confor <i>Phosphorus:</i> 0.06% maximum; Bolts of a length < 3X nominal dia	ce on its bearing surface as does a hex cap screw, nor does it re not as close as those of a cap screw. cales and heavily polluted atmospheres). May be inserted into be assembled with a nut. ms to the following chemical composition requirements: <i>Sulfur:</i> 0.15% maximum.
Applications/ Advantages Material Hardness	a hot-dip galvanized coating. A hex bolt does not have a washer fai have a machined point. Its body tolerances a Designed to be used in highly corrosive environments (ie. coastal lo an oversized hole and should l Machine bolts shall be manufactured from steel which confor <i>Phosphorus</i> : 0.06% maximum; Bolts of a length < 3X nominal diam Bolts of a length => 3X nominal diam	ce on its bearing surface as does a hex cap screw, nor does it re not as close as those of a cap screw. cales and heavily polluted atmospheres). May be inserted into be assembled with a nut. ms to the following chemical composition requirements: <i>Sulfur</i> : 0.15% maximum. uneter: Rockwell B69 - B100. heter: Rockwell B100 maximum.

*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.