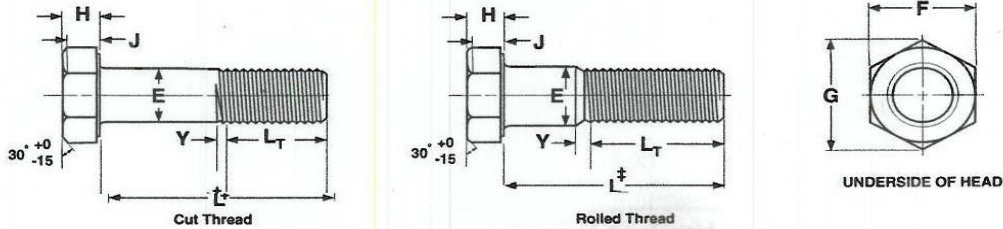
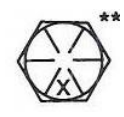


# Hex Cap Screw Grade 5 Zinc Plated

## Product Specifications



Basic Diameter	E Diameter		F Width			G Width		H Head			J Wrench	L Thread Length	Y			
			Across Flats			Across Corners		Height				Screw Length	n Thread Length			
	Min	Max	Basic	Mn	Max	Min	Max	Basic	Min	Max	Min	< 6"	> 6"	Max		
1/4	0.2500	0.2450	0.2500	7/16	0.428	0.438	0.488	0.505	5/32	0.150	0.163	0.106	0.7500	1.0000	0.250	
5/16	0.3125	0.3065	0.3125	1/2	0.489	0.500	0.557	0.577	13/64	0.195	0.211	0.140	0.8750	1.1250	0.278	
3/8	0.3750	0.3690	0.3750	9/16	0.551	0.562	0.628	0.650	15/64	0.226	0.243	0.160	1.0000	1.2500	0.312	
7/16	0.4375	0.4305	0.4375	5/8	0.612	0.625	0.698	0.722	9/32	0.272	0.291	0.195	1.1250	1.375	0.357	
1/2	0.5000	0.4930	0.5000	3/4	0.736	0.750	0.840	0.866	5/16	0.302	0.323	0.215	1.2500	1.500	0.385	
9/16	0.5625	0.5545	0.5625	13/16	0.798	0.812	0.910	0.938	23/64	0.348	0.371	0.250	1.375	1.625	0.417	
5/8	0.6250	0.6170	0.6250	15/16	0.922	0.938	1.051	1.083	25/64	0.378	0.403	0.269	1.500	1.750	0.455	
3/4	0.7500	0.7410	0.7500	1-1/8	1.100	1.125	1.254	1.299	15/32	0.455	0.483	0.324	1.750	2.000	0.500	
7/8	0.8750	0.8660	0.8750	1-5/16	1.285	1.312	1.465	1.516	35/64	0.531	0.563	0.378	2.000	2.250	0.556	
1	1.0000	0.9900	1.0000	1-1/2	1.469	1.500	1.675	1.732	39/64	0.591	0.627	0.416	2.250	2.500	0.625	
1--1/8	1.1250	1.1140	1.1250	1-11/16	1.631	1.688	1.859	1.949	11/16	0.658	0.718	0.461	2.500	2.750	0.714	
1--1/4	1.2500	1.2390	1.2500	1-7/8	1.812	1.875	2.066	2.165	25/32	0.749	0.813	0.530	2.750	3.000	0.714	
1--1/2	1.5000	1.4880	1.5000	2-1/4	2.175	2.250	2.480	2.598	1-5/16	0.902	0.974	0.640	3.250	3.500	0.833	
Tolerance on Length	Screw Size		Screw Length													
			Up to 1"	Over 1" to 2-1/2"	Over 2-1/2" to 4"	Over 4" to 6"	Longer than 6"									
	1/4 to 3/8		-0.03	-0.04	-0.06	-0.10	-0.18									
	7/16 to 1/2		-0.03	-0.06	-0.08	-0.10	-0.18									
	9/16 to 3/4		-0.03	-0.08	-0.10	-0.10	-0.18									
7/8 to 1			-0.10	-0.14	-0.16	-0.20										
1-1/8 to 1-1/2			-0.12	-0.16	-0.18	-0.22										
ASME B1821-1996			1/4" through 1" Diameter Grade 5		1-1/8" through 1-1/2" Diameter Grade 5											
Core Hardness	Rockwell		C25C34					C19C30								
Surface Hardness	Rockwell		30N54 max.					30N50 max.								
Proof Load	psi		85,000					74,000								
Yield Strength	psi		92,000 psimin.					81,000 psimin.								
Tensile Strength	psi		120,000 psimin.					105,000 psimin.								
Elongation			14% min.					14% min.								
Reduction of Area			35% min.					35% min.								
Material	Medium Carbon Steel. Use of an alloy steel is also acceptable.															
ASME B1821-1996			1/4" through 1" Diameter Grade 8		1-1/8" through 1-1/2" Diameter Grade 8											
Core Hardness	Rockwell		C38C39					C38C39								
Surface Hardness	Rockwell		30N58.6 max.					30N58.6 max.								
Proof Load	psi		120,000					120,000								
Yield Strength	psi		130,000 psimin.					130,000 psimin.								
Tensile Strength	psi		150,000 psimin.					150,000 psimin.								
Elongation			12% min.					12% min.								
Reduction of Area			35% min.					35% min.								
Material	Medium Carbon alloy steel. Diameters 1/4-7/16 AISI 1541 Steel is also permissible.															



**Warranty:** See warranty information for more details.

All dimensions listed are nominal. MAINLINE® reserves the right to make product and material changes at any time without notice.

Contact your sales representative for more information or visit our website at [mainlinecollection.com](http://mainlinecollection.com)