

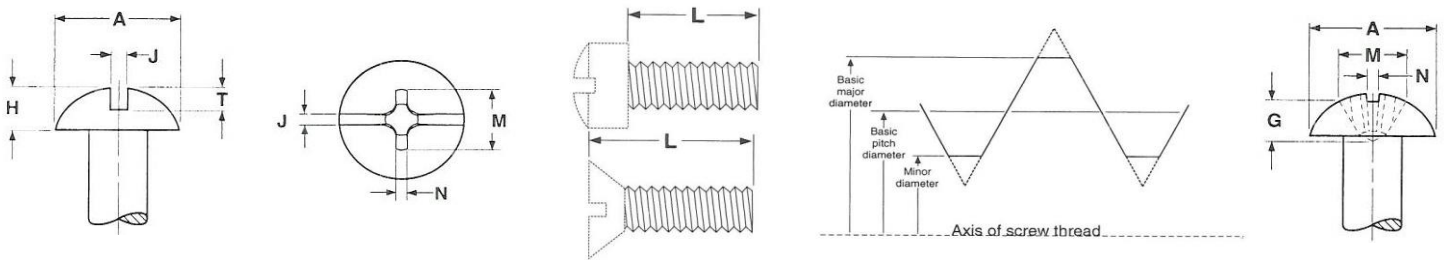
Round Head Machine Screw

Product Specifications



PRODUCT FEATURES

- Zinc Plated



ASME B 1.1 Size and Threads Per Inch	Series Designatio n	Allowance	Major Diameter		Pitch Diameter			Tensile Strength, lb. Min** Carbon Steel	Stress Area Inches ²	A Head Diameter		H Head Height		J Slot Width		T Slot Depth		Dimension of Recess			Phillips Bit Size		
			Min	Max	Min	Max	Toleranc e			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Diameter		Depth	Width
			Ref	Ref	Ref	Ref	Ref			Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref		Ref	
6-32	0.138	UNC	.0008	.1312	.1372	.1141	.1169	.002820	550	0.00909	.240	.260	.091	.103	.039	.048	.051	.068	.155	.070	.045	2	
6-40	0.138	UNF	.0008	.1321	.1372	.1184	.1210	.002614	609	0.01015	.240	.260	.091	.103	.039	.048	.051	.068	.155	.070	.045	2	
8-32	0.164	UNC	.0009	.1571	.1631	.1399	.1428	.002916	850	0.0140	.287	.309	.107	.120	.045	.054	.058	.077	.171	.088	.064	2	
8-36	0.164	UNF	.0009	.1577	.1632	.1424	.1452	.002804	884	0.01474	.287	.309	.107	.120	.045	.054	.058	.077	.171	.088	.064	2	
10-24	0.190	UNC	.0010	.1818	.1890	.1586	.1619	.003319	1050	0.0175	.334	.359	.123	.137	.050	.060	.065	.087	.188	.106	.082	2	
10-32	0.190	UNF	.0009	.1831	.1891	.1658	.1688	.003004	1200	0.0200	.334	.359	.123	.137	.050	.060	.065	.087	.188	.106	.082	2	
12-24	0.216	UNC	.0010	.2078	.2150	.1845	.1879	.003400	1450	0.0242	.382	.408	.139	.153	.056	.067	.073	.096	n/a	n/a	n/a	3	
12-28	0.216	UNF	.0010	.2085	.2150	.1886	.1918	.003224	1548	0.0258	.382	.408	.139	.153	.056	.067	.073	.096	n/a	n/a	n/a	3	
1/4-20	0.250	UNC	.0011	.2408	.2489	.2127	.2164	.003731	1900	0.0318	.443	.472	.160	.175	.064	.075	.082	.109	.261	.134	.104	3	
1/4-28	0.250	UNF	.0010	.2425	.2490	.2225	.2258	.003322	2200	0.0364	.443	.472	.160	.175	.064	.075	.082	.109	.261	.134	.104	3	
5/16-18	0.3125	UNC	.0012	.3026	.3113	.2712	.2752	.004041	3150	0.0524	.557	.590	.198	.216	.072	.084	.099	.132	.301	.174	.144	3	
5/16-24	0.3125	UNF	.0011	.3042	.3114	.2806	.2843	.003660	3480	0.0580	.557	.590	.198	.216	.072	.084	.099	.132	.301	.174	.144	3	
3/8-16	0.375	UNC	.0013	.3643	.3737	.3287	.3331	.004363	4650	0.0775	.670	.708	.237	.256	.081	.094	.117	.155	.380	.215	.182	4	
3/8-24	0.375	UNF	.0011	.3667	.3739	.3430	.3468	.003804	5268	0.0878	.670	.708	.237	.256	.081	.094	.117	.155	.380	.215	.182	4	

Tolerance on Length L	Screw Size	Screw Length							
		Up To 1/2"		Over 1/2" to 1"		Over 1" to 2"		Over 2"	
		6-12	14-38	-0.02	-0.03	-0.03	-0.06	-0.06	-0.09

ANSI B 18.6.3	Steel	SAE Stainless 18-8	Stainless 316	Stainless 410
Material	AISI 1006 – 1022 or equivalent Steel	Stainless SAE 18-8	Stainless SAE 316	Stainless SAE 410 Passivated
Hardness	Rockwell B70 – B100	Rockwell B85 – B95 (approximate)*	Rockwell B85 – B95 (approximate)*	Rockwell C34 (approximate)*

Tensile Strength
 Steel machine screws which have a nominal diameter smaller than #4 are not subject to tensile testing. No. 4 and No. 5 machine screws which are shorter than 1/2" are not subject to tensile testing. Steel machine screws of diameters No. 6 to 1/2" inclusive, which are shorter than either 1/2" or 3D (where D is the nominal screw size in inches) are not subject to tensile testing. Such steel machine screws of a size to be tested shall meet the tensile load requirements listed above. **Tensile strength values for stainless screws are offered as approximations only. There is no single standard for the performance requirements of stainless machine screws.

**Tensile strength is based off of 60,000 psi. and only apply to carbon steel screws. Hex and Hex Washer Head machine screws of adequate length may be wedge tensile tested. Other head styles can be axial tensile tested.

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