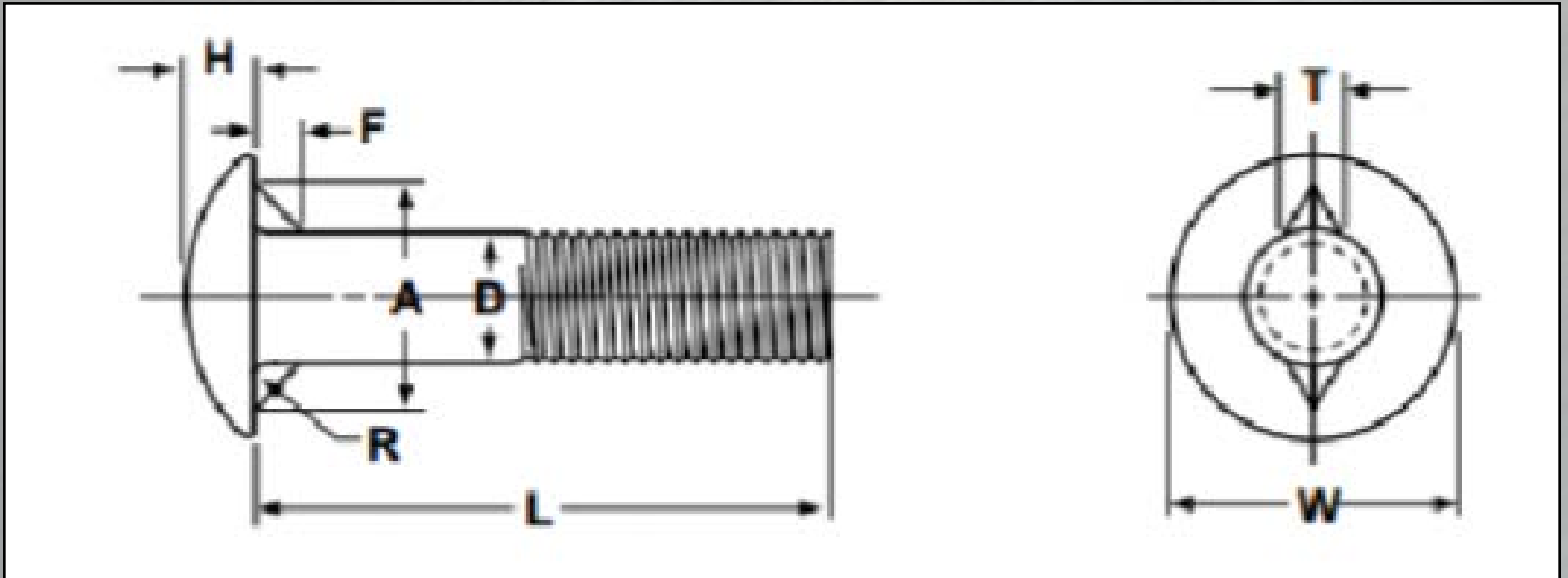




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RIBBED NECK CARRIAGE BOLTS





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RIBBED NECK CARRIAGE BOLTS

Nominal Size or Basic Bolt Diameter	B Body Diameter		W Head Diameter		H Head Height		M Head to Ribs for Length of:		Number of Ribs Approx.	V Dia. Over Ribs	D Depth Over Ribs for Lengths of			R Fillet Radius	
	Max	Min	Max	Min	Max	Min	7/8 & Shorter	1 in. & Shorter		Min	7/8 & Shorter	1 in. & 1-1/8 +/- 0.031	1-1/4 & Longer	Max	
	Max														
#10	0.1900	0.199	0.182	0.469	0.438	0.114	0.094	0.062	0.094	9	0.210	0.250	0.407	0.594	0.031
1/4	0.2500	0.260	0.237	0.294	0.563	0.145	0.125	0.062	0.094	10	0.274	0.250	0.407	0.594	0.031
5/16	0.3125	0.324	0.298	0.719	0.688	0.176	0.156	0.062	0.094	12	0.340	0.250	0.407	0.594	0.031
3/8	0.3750	0.388	0.360	0.844	0.782	0.208	0.188	0.062	0.094	12	0.470	0.250	0.407	0.594	0.031
7/16	0.4375	0.452	0.421	0.969	0.907	0.239	0.219	0.062	0.094	14	0.534	0.250	0.407	0.594	0.031
1/2	0.5000	0.515	0.783	1.094	1.032	0.270	0.250	0.062	0.094	16	0.660	0.313	0.438	0.625	0.062
5/8	0.6250	0.642	0.605	1.344	1.219	0.344	0.313	0.125	0.125	19	0.660	0.313	0.438	0.625	0.062
3/4	0.7500	0.768	0.729	1.594	1.469	0.406	0.375	0.125	0.125	22	0.785	0.313	0.438	0.625	0.062



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	Nominal Bolt Size	Nominal Screw Length									
		Up to 1 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.		Over 6 in.	
Tolerance on Length	#10 thru 3/8	+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	-0.05	+0.06	-0.08	+0.08	-0.10	+0.12	-0.18
	9/16 thru 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
	1-1/8 thru 1-1/2	-	-	+0.12	-0.12	+0.16	-0.16	+0.18	-0.18	+0.22	-0.22

DESCRIPTION: A round head bolt with a flat bearing surface which intersects with the shank at a 90° angle. Where the bearing surface and shank meet are two fins, 180° opposite the other. The bolt is made from low carbon steel.

APPLICATIONS / ADVANTAGES: Primarily used in thin plywood to keep the bolt from turning when a nut is being tightened. Widely used in truck and trailer industries.



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	LOW CARBON	GRADE 5	STAINLESS
MATERIAL	Bolts shall be made from a carbon steel which conforms to the following chemical composition: <i>Carbon: 0.55% maximum</i> <i>Phosphorus: 0.060% maximum</i> <i>Sulfur: 0.150% maximum</i>	AISI 1030 - 1050 or equivalent	18-8 Stainless Steel
HARDNESS	Rockwell B69-100	CORE: (1/4 thru 1 dia.) Rockwell C25-C34 SURFACE: (1/4 thru 1 dia.) Rockwell 30N54 max	Approximately B85-95
TENSILE STRENGTH	60,000 psi minimum	(1/4 thru 1 dia.): 120,000 psi minimum	80,000 psi minimum
YIELD STRENGTH	36,000 psi minimum	(1/4 thru 1 dia.): 92,000 psi minimum	40,000 psi minimum
ELONGATION	18% minimum	14% minimum	-
REDUCTION OF AREA	35% minimum	35% minimum	-