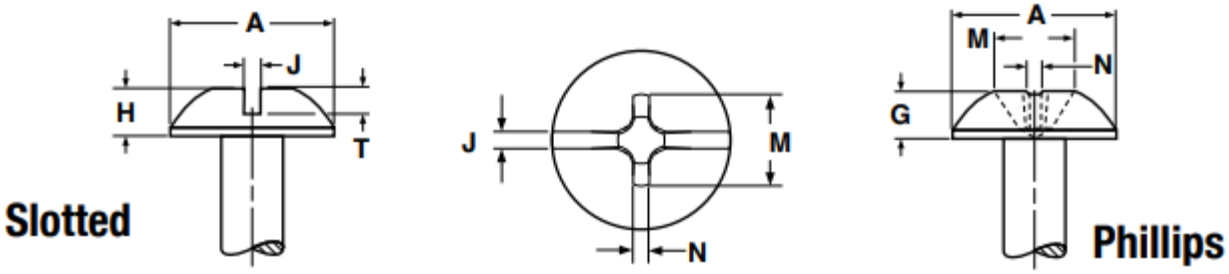
Metallics

An AMERICAN Source For Premier
and Innovative Fasteners and Anchors

TRUSS HEAD SLOTTED / PHILLIPS / COMBO MACHINE SCREWS

The following Specification Sheet applies to all **Steel and Stainless Steel, Round Head Machine Screws** including our **TMS, TMP, AND TMSP** series of screws.



COMBINATION DRIVE TRUSS HEADS FOR MACHINE SCREWS — ASME B 18.6.3-2002

Nominal Size	A		H		J		T		M	G	N	Recess Penetration Gaging Depth		Phillips Driver Size
	Head Diameter		Height of Head		Width of Slot		Depth of Slot		Dimensions of Recess					
									Diameter	Depth	Width			
	Max	Min	Max	Min	Max	Min	Max	Min	Ref	Ref	Ref	Max	Min	
4	.257	.241	.069	.059	.039	.031	.040	.027	.105	.060	.018	.062	.044	1
6	.321	.303	.086	.074	.048	.039	.050	.033	.151	.071	.027	.073	.048	2
8	.384	.364	.102	.088	.054	.045	.058	.040	.166	.086	.029	.088	.063	2
10	.448	.425	.128	.113	.060	.050	.068	.048	.181	.102	.030	.104	.079	2
12	.511	.487	.134	.118	.067	.056	.077	.055	.241	.115	.032	.111	.086	3
1/4	.573	.546	.150	.133	.075	.064	.087	.063	.256	.130	.033	.126	.101	3

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Description	A straight shank fastener with external threads designed to go through a hole or nut that is pre-tapped to form a mating thread for the screw.			
Applications/ Advantages	Machine screws form a fastening superior in strength to spaced thread screws.			
	Steel	***Stainless***		
	Steel Zinc is the most common and most popular variety of steel machine screws ***Steel Zinc yellow*** screws are popular in electronics applications. ***Steel Zinc Black*** and Black Oxide screws are used to blend in with black-colored components.	***18-8 Stainless steel*** machine screws are used in applications which require general atmospheric corrosion resistance, in food processing machinery and refrigeration equipment. Stainless is also superior to steel in withstanding some elevation in application operating temperature while maintaining its strength. ***316 Stainless steel*** offers superior corrosion resistance to 18-8 and is superior at maintaining its strength at high temperatures. ***410 Stainless steel*** is recommended in applications where greater tensile strength is needed such as control mechanisms or valves under high stress. 410 is not as corrosion resistant as are 18-8 or 316 stainless		
Material	AISI 1006 - 1022 or equivalent steel.	SAE 18-8 stainless steel	316 stainless steel	410 stainless steel
Hardness	Rockwell B70 - B100.	Rockwell B85 - B95 (approximate)*	Rockwell B85 - B95 (approximate)*	Rockwell C34 (approximate)
Tensile Strength	60,000 psi. minimum.	80,000 psi. minimum (100,000 psi after cold working)*	85,000 - 140,000 psi.	180,000 psi.
	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.			

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