

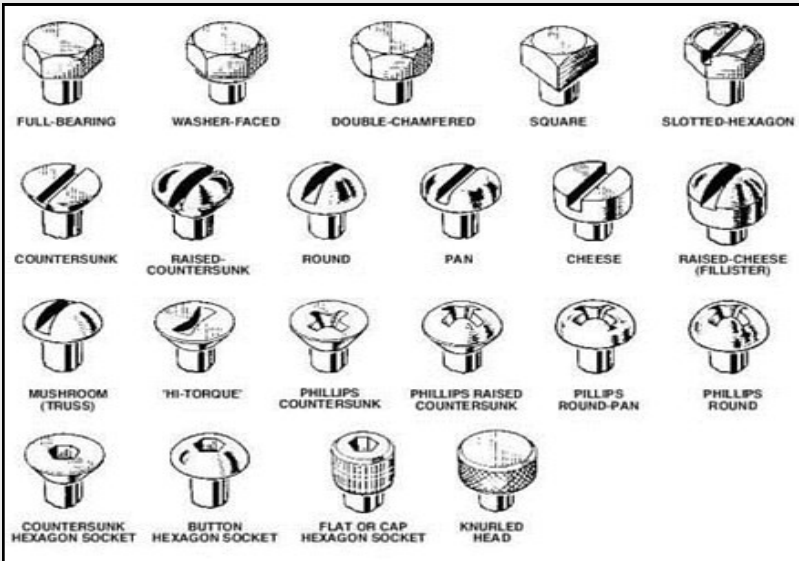
Machine Screw Selection Guide

A machine screw is often described as a small diameter bolt, like a bolt or hex head cap screw; it features a straight, untampered shank and a blunt end, but is usually driven with a screwdriver instead of a wrench. External machine thread runs the entire length of shank.

Most commonly used to fasten metal to metal, a machine screw is designed to be inserted into a pre-threaded hole or mated with a nut. (in which case it would be called a stove bolt). Because application thread sizes vary, it is important to select the right machine screw to meet your specific requirements

When searching for the correct machine screw its best to know the screw size number or fractional size. Next select the head type needed or preferred to narrow down the selection.

Head Types



Screw Size Conversion Chart

Screw Sizes

Screw Size	Fractions	Decimals	Millimeter
#1	1/16"	0.0625"	1.58750
#2	5/64"	0.078125"	1.98437
#3	3/32"	0.09375"	2.38125
#4	7/64"	0.109375"	2.77812
#5	1/8"	0.125"	3.17500
#6	9/64"	0.140625"	3.57187
#8	5/32"	0.15625"	3.96875
#9	11/64"	0.171875"	4.36562
#10	3/16"	0.1875"	4.76250
#11	13/64"	0.203125"	5.15937
#12	7/32"	0.21875"	5.55625
#13	15/64"	0.234375"	5.95312
#14	1/4"	0.250"	6.35000
#16	17/64"	0.265625"	6.74687
#18	19/64"	0.296875"	7.54062
#20	5/16"	0.3125"	7.93750
#24	3/8"	0.375"	9.52500

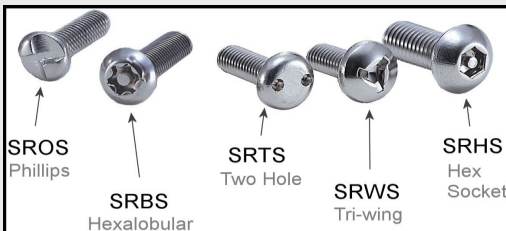
Standard Threads

UNC	UNF
1/4 x 20	1/4 x 28
5/16 x 18	5/16 x 24
3/8 x 16	3/8 x 24
7/16 x 14	7/16 x 20
1/2 x 13	1/2 x 20
5/8 x 11	5/8 x 18
3/4 x 10	3/4 x 16
7/8 x 9	7/8 x 14
1 x 8	1 x 14

Tamper Resistant Machine Screws

Security fasteners, as the name indicates, are fasteners that provide an added level of security by their drive design that prevents removal with ordinary screw drivers. We carry security fasteners in many head-styles, drives and matching tools for their installation and removal. Screws are available in sheet metal and machine threads.

Tamper Resistant Head Styles



Tamper Resistant Driver Heads



If you are still having difficulty choosing a Machine Screw please contact us at askzoro@zoro.com or 855-289-9676

Information sources include (W. W. Grainger)

Product Compliance and Suitability.

THE PRODUCT STATEMENTS CONTAINED IN THIS EZTIP ARE INTENDED FOR GENERAL INFORMATIONAL PURPOSES ONLY. SUCH PRODUCT STATEMENTS DO NOT CONSTITUTE A PRODUCT RECOMMENDATION OR REPRESENTATION AS TO THE APPROPRIATENESS, ACCURACY, COMPLETENESS, CORRECTNESS OR CURRENTNESS OF THE INFORMATION PROVIDED. INFORMATION PROVIDED IN THIS EZ TIP DOES NOT REPLACE THE USE BY YOU OF ANY MANUFACTURER INSTRUCTIONS, TECHNICAL PRODUCT MANUAL OR OTHER PROFESSIONAL RESOURCE OR ADVISER AVAILABLE TO YOU. ALWAYS READ, UNDERSTAND, AND FOLLOW ALL MANUFACTURER INSTRUCTIONS.

Document Create Date: 17 October 2016

Last Review: 17 October 2016

Zoro Machine Screw Selection eZTip

© 2011 - 2016 Zoro Tools, Inc. All rights reserved.