






















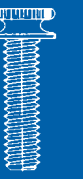














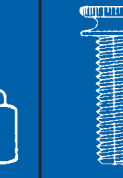





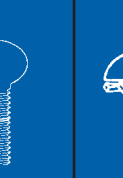










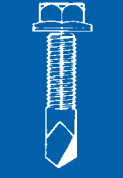

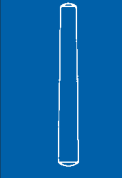




# Selector Chart of Standard Industrial Fasteners

**PARTIAL LISTING**  
 Consult with your  
**CROWN** representative  
 for complete listing  
 Phone 317 889 8900  
 Toll Free 800 360 BOLT (2658)  
 Fax 317 889 8080

																																					
		HEX SCREWS	SQUARE BOLTS	CARRIAGE BOLTS	LAG BOLTS	PLOW BOLTS	STEP BOLTS	ELEVATOR BOLTS	TAP BOLTS	SOCKET CAP SCREW	SOCKET BUTTON CAP SCREW	SOCKET FLAT CAP SCREW	SOCKET SHOULDER SCREW	SOCKET SET SCREW	HEX KEY	SQUARE HD. SET SCREW	SLOTTED SET SCREW	12 PT. FLANGE SCREW	FLAT HEAD CAP SCREW	MACHINE SCREWS	WOOD SCREW	SHEET METAL SCREW	THREAD CUTTING SCREW	KNURLED SCREW	WEATHER GARD	STRUCTURAL BOLT	ASTM A-490 BOLT	ANCHOR BOLT	THREADED ROD	STUD	HANGER BOLT						
GRADE 2	STEEL															<b>HARDENED</b>																					
GRADE 5																																					
GRADE 8											<b>HEAT TREATED ALLOY STEEL</b>																										
18-8 SS	STAINLESS STEEL																																				
316 SS																																					
410 SS																																					
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Available in Standard and Metric Sizes



# Crown Comparison Guide for Popular Metric and Inch Fastener Sizes and Grades

## DIAMETERS

The range of diameters listed in metric standards is from M1.6 to M100. Wherever possible designers are asked to use the stock and preferred sizes are listed here.

1 mm = .04"  
1 inch = 25.4 mm  
(Figures in brackets are the decimal equivalents.)

Metric diameter	Nearest inch diameter	Metric diameter	Nearest inch diameter
M2 (0.079")	#2 (0.086")	M24 (0.945")	1" (1.000")
M2.5 (0.098")	#3 (0.099")	M30 (1.181")	1 1/8" (1.125")
M3 (0.118")	#5 (0.125")	M36 (1.417")	1 1/4" (1.250")
M3.5 (0.138")	#6 (0.138")	M42 (1.653")	1 1/2" (1.500")
M4 (0.157")	#8 (0.164")	M48 (1.890")	1 3/4" (1.750")
M5 (0.197")	3/16" (0.187")	M56 (2.205")	2" (2.000")
M6 (0.236")	1/4" (0.250")	M64 (2.520")	2 1/4" (2.500")
M8 (0.315")	5/16" (0.312")	M72 (2.835")	2 3/4" (2.750")
M10 (0.394")	3/8" (0.375")	M80 (3.150")	3" (3.000")
M12 (0.472")	7/16" (0.437")	M90 (3.543")	3 1/2" (3.500")
M14 (0.551")	1/2" (0.500")	M100 (3.937")	4" (4.000")
M16 (0.630")	5/8" (0.582")		
M20 (0.787")	3/4" (0.750")		

## LENGTHS

The metric lengths given are the preferred lengths and these should be used wherever possible. Some of the shorter lengths will not be available in the larger diameters.

If lengths over 200 mm are required then increments of 20 mm (0.787") should be used and lengths over 300 mm increments of 25 mm (0.984") should be used.

Metric length	Nearest inch length	Metric length	Nearest inch length
10 mm (0.394")	3/8" (0.375")	75 mm (2.953")	3" (3.000")
12 mm (0.472")	1/2" (0.500")	80 mm (3.150")	3 1/4" (3.250")
16 mm (0.630")	5/8" (0.625")	90 mm (3.543")	3 1/2" (3.500")
20 mm (0.787")	3/4" (0.750")	100 mm (3.937")	4" (4.000")
25 mm (0.984")	1" (1.000")	110 mm (4.331")	4 1/2" (4.500")
30 mm (1.181")	1 1/4" (1.250")	120 mm (4.724")	4 3/4" (4.750")
35 mm (1.378")	1 3/8" (1.375")	130 mm (5.118")	5" (5.000")
40 mm (1.575")	1 1/2" (1.500")	140 mm (5.512")	5 1/2" (5.500")
45 mm (1.772")	1 3/4" (1.750")	150 mm (5.905")	6" (6.000")
50 mm (1.968")	2" (2.000")	160 mm (6.299")	6 1/4" (6.250")
55 mm (2.165")	2 1/4" (2.250")	170 mm (6.693")	6 3/4" (6.500")
60 mm (2.362")	2 1/2" (2.500")	180 mm (7.087")	7" (7.000")
65 mm (2.559")	2 5/8" (2.625")	190 mm (7.480")	7 1/2" (7.500")
70 mm (2.756")	2 3/4" (2.750")	200 mm (7.874")	8" (8.000")

<p><b>METRIC (ISO 898)</b></p> <p>No Marking</p> <p>Grade: 4.8 (4.6, 5.8) Tensile: 420 MPa (60,900 psi)</p>	<p><b>INCH (SAE J429)</b></p> <p>No Marking</p> <p>Grade: 2 Tensile: 60,000 psi</p>	<p><b>NOT IN GENERAL USE</b></p> <p>9.8</p> <p>Grade: 9.8 (to 16 mm only) Tensile: 900 MPa (130,500 psi)</p>	<p><b>NOT IN GENERAL USE</b></p> <p>7</p> <p>Grade: 7 Tensile: 133,000 psi</p>	<p><b>METRIC (ISO 898)</b></p> <p>12.9</p> <p>Grade: 12.9 Tensile: 1220 MPa (176,900 psi) <b>Note:</b> Metric Hex Socket Cap Screws are available in lower strength grades (8.8, 10.9) and marked accordingly.</p>	<p><b>INCH (SAE J429)</b></p> <p>12.9</p> <p>Grade: ASTM A574 Tensile: 170,000 psi <b>Note:</b> Generally not marked</p>
<p><b>METRIC (ISO 898)</b></p> <p>8.8</p> <p>Grade: 8.8 Tensile: 830 MPa (120,350 psi)</p>	<p><b>INCH (SAE J429)</b></p> <p>5</p> <p>Grade: 5 Tensile: 120,000 psi</p>	<p><b>METRIC (ISO 898)</b></p> <p>10.9</p> <p>Grade: 10.9 Tensile: 1040 MPa (150,800 psi)</p>	<p><b>INCH (SAE J429)</b></p> <p>8</p> <p>Grade: 8 Tensile: 150,000 psi</p>	<p><b>METRIC (ISO 898)</b></p> <p>8</p> <p>Grade: Corresponding to bolt Marking: Grade 8 and higher <b>Note:</b> Always use equal or higher nut grade for assembly with respective bolt grade.</p>	<p><b>INCH (SAE J429)</b></p> <p>8</p> <p>Grade: Corresponding to bolt Marking: Nuts for use with bolts SAE Grade 8 and higher only are marked (REF SAE J995 or ASTM A563).</p>

QUANTITY	METRIC SYMBOL	INCH EQUIVALENT	CONVERSION (Approx.)
Stress	MPa (megapascal)	psi (pounds per square inch)	1 MPa = 145 psi 7 MPa = 1,000 psi
Force	N (newton)	lbf (pound-force)	1 N = 36 ozf 4.4 N = 1 lbf
Torque	N.m (newton meter)	in/lb or ft/lb (inch pound or foot pound)	1 N.m = 9 in/lb 1.4 N.m = 1 ft/lb 1 N.m = .75 ft/lb

Note: The term kilogram/meters (kg/m) may be encountered and is comparable to 10 N.m (2% deviation). (Use: kg/m ≈ 10 N.m)

## FINEST MERCHANDISE

In addition to supplying all types of fasteners (metric and inch sizes), Crown Screw & Bolt Corporation can supply standard and custom brackets, clamps, fittings, metal stampings and extruded products. Truly, we are a one stop source for all of your fastener needs.

A variety of custom plating, heat treating, and coating options are available on all our products.

Product quality and service reliability are paramount. Crown Screw and Bolt Corporation is registered to ISO 9001:2000 certificate number A1516US.

## QUICKEST DELIVERY

Our modern warehouse uses state-of-the-art equipment, under the strict guidelines of the ISO 9001:2000 quality model, to insure accurate and timely delivery of all your orders. Combined with our central location, your product arrives in the fastest manner possible.

## WAREHOUSE SERVICES

Crown Screw & Bolt has the ability to package and label all products to your specifications including:

End User Assembly Assortment (Bagged or Boxed)

Re-usable Kanban Totes

Packaged Quantities for Resale

A variety of standard and customized label options such as: bar-coding, your name and address, your company logo, etc., are available upon request.

Our **Customized Bin Stocking Systems** allow personal on-site inventory assessment and attention to individual replenishment requirements.

## MOST COMPETITIVE PRICING

Our long-standing relationships with suppliers worldwide as well as our experience in locating innovative manufacturers allows us to broker the lowest prices for the finest quality merchandise.

Our Proud History is our Company Family Heritage – our family of employees strives everyday to prove that **Quality is...Customers that come back, and products that don't.**



**Quality Control** – as an ISO 9001:2000 Registered firm, Crown Screw & Bolt Corporation maintains the finest quality management systems, standards and guidelines.



Our **State-of-the-art Warehouse** uses the latest technology to guarantee accurate and timely delivery as well as completely customized packaging and labeling.



Our **Staff** is second to none in knowledge of fasteners and fastening systems. Their industry knowledge and commitment to customer satisfaction sets a standard for others to follow.



**Fay Adams**  
Vice President of Sales



**Theresa Bible**  
Sales Representative with over 20 years of service.

**Corporate Offices** – located in Indianapolis, "The Crossroads of America," assures our customers fast and convenient delivery to anywhere in the state, the country, or the world.

