

Bolt Strength Markings in Inch and Metric Fasteners

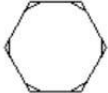

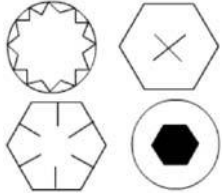


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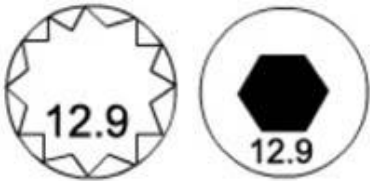
Below are the bolt strength markings for both Inch and Metric Fasteners.

Bolt Strength Markings – Inch

Identification Markings (fasteners may also have manufacturer ID markings)	Grade	Material	Nominal Diameter Size Range
 No markings	Grade 2	Low or medium carbon steel	1/4 through 1-1/2 inch
 3 radial lines	Grade 5	Medium carbon steel, quenched and tempered	1/4 through 1-1/2 inch
 12-point head, "X", 6 radial lines, or socket head (Allen head)	Grade 8	Medium carbon alloy steel, quenched and tempered	1/4 through 1-1/2 inch



Bolt Strength Markings - Metric

Identification Markings (fasteners may also have manufacturer ID markings)	Class	Material	Nominal Diameter Size Range
 8.8	Class 8.8	Medium carbon steel, quenched and tempered	All Sizes through 48 mm
 10.9, 12-point head, socket head	Class 10.9	Alloy steel, quenched and tempered	All Sizes through 48 mm
 12.9, 12-point head, socket head	Class 12.9	Alloy steel, heat treated	All sizes through 48 mm

NOTE: The temperature values in this table are examples; actual operating values vary based on customer specific operating requirements.

