



# Fastener & Hardware

## ▶ Abbreviations

#	
<b>18-8</b>	Stainless Steel with 18% Chrome & 8% Nickel
<b>2,5 or 8</b>	Strength Grade of Screw, Bolt or Nut
<b>2A (3A)</b>	Class of thread fit for inch screws - external thread
<b>2B (3B)</b>	Class of thread fit for inch nuts - internal thread
<b>2H</b>	Nut strength level designation (ASTM A194 Grade 2H Heavy Hex Nut)
<b>6g</b>	Class of thread fit for metric screws
<b>6H</b>	Class of thread fit for metric nuts
A	
<b>A325</b>	Heavy Hex Structural Bolt (ASTM A325), similar to Grade 5
<b>A490</b>	Heavy Hex Structural Bolt (ASTM A490), similar to Grade 8
<b>A574</b>	Strength grade for socket head cap screws (ASTM A574)
<b>AISI</b>	American Iron and Steel Institute, specifies chemical composition of steel
<b>ANSI</b>	American National Standards Institute
<b>AS</b>	Alloy Steel
<b>ASME</b>	American Society of Mechanical Engineers
<b>ASTM</b>	American Society of Testing and Materials
B	
<b>B</b>	When followed by a number (e.g. B-90) hardness measured on the Rockwell B Scale
<b>Bake (Bake-out)</b>	Heat treat process used in plating to prevent hydrogen embrittlement
<b>Bevel</b>	Style of washer (square with a taper) used with L-Beams
<b>Belleville</b>	Style of lock washer, also called Conical Spring Washer
<b>BHCS</b>	Button Head Cap Screw
<b>BHN</b>	Hardness measured with a Brinell Hardness Tester
<b>BS</b>	British Standard
C	
<b>C</b>	When followed by a number (e.g. C-35) hardness measured on the Rockwell C Scale
<b>CH</b>	Case Hardness (type of heat treatment)
<b>C/R</b>	Cross Recess Drive (typically Phillips style) or Chamfer/Radius
<b>CAD</b>	Computer Aided Design/Drafting
<b>Cad</b>	Cadmium Plating
<b>CadWax</b>	Cadmium Plating with a topcoat of wax
<b>COO</b>	Country of Origin



<b>CRES</b>	Corrosion Resistant Steel (usually referred to 18-8 or 316 Stainless Steel)
<b>CS (es)</b>	Carbon Steel or Countersunk
<b>D</b>	
<b>D/A Nut</b>	Double Chamfered Nut (distinguished from washer faced)
<b>D/E</b>	Double Ended Stud
<b>DIN</b>	German Standards Organizations
<b>E</b>	
<b>ET</b>	External Thread
<b>F</b>	
<b>FB</b>	Flange Bolt
<b>F436</b>	Hardened flat washer with dimensions per ASTM F436
<b>FHCS</b>	Flat Head Cap Screw
<b>FIM</b>	Full Indicator Measurement
<b>FIng</b>	Hex Flange Bolt or Nut
<b>FW</b>	Flat Washer
<b>G</b>	
<b>galv</b>	Galvanized typically refers to Hot Dip Galvanized
<b>Gr</b>	Grade, refers to strength level of Screw or Nut (Grade 2, Grade 5 or Grade 8)
<b>H</b>	
<b>Hardened</b>	A Heat Treated Product
<b>HB</b>	Hex Bolt or Hardness reading measured on the Brinell Scale
<b>H.T.</b>	Heat Treated
<b>HCS</b>	Hex Cap Screw or High Carbon Steel
<b>H.D.G.</b>	Hot Dip Galvanized
<b>Hex Bolt</b>	Can Refer to either a "Bolt" or a "Cap Screw"
<b>HHCS</b>	Hex Head Cap Screw (also an abbreviation for Heavy Hex Cap Screw)
<b>HRB</b>	Hardness Measured on the Rockwel B Scale
<b>HRC</b>	Hardness Measured on the Rockwel C Scale
<b>HWH</b>	Hex Washer Head
<b>I</b>	
<b>ID</b>	Interior Dimension
<b>IFI</b>	Industrial Fastener Institute
<b>IH</b>	Indented Head
<b>ISIR</b>	Initial Sample Inspection Report
<b>IT</b>	Internal Thread
<b>J</b>	
<b>J429</b>	SAE Standard that Specifies Strength Levels of Screws



**J995** SAE Standard that Specifies Strength Levels of Nuts

<b>K</b>	
<b>Keps</b>	Nut with a Permanently Attached Washer
<b>Kips</b>	1,000 pounds
<b>ksi</b>	Thousand of Pounds Per Square Inch
<b>L</b>	
<b>lb (lbs)</b>	Pounds
<b>Lb</b>	Body Length on Screws
<b>LCS</b>	Low Carbon Steel
<b>Lg</b>	Grip Length (distance from head to full threads) on Screws
<b>LH</b>	Left-Handed Thread
<b>L/W</b>	Lock Washer
<b>M</b>	
<b>M</b>	Metric
<b>MM</b>	Millimeter
<b>MS</b>	Machine Screw
<b>MTR</b>	Material Test Report
<b>N</b>	
<b>NC</b>	Unified National Coarse Thread
<b>NE (NU, NTE, NTU)</b>	Designations that Define the Thickness of Nylon Insert Lock Nuts
<b>Nom</b>	Nominal (reference Dimension)
<b>NPT</b>	National Tapered Pipe Thread
<b>P</b>	
<b>P</b>	Thread Pitch
<b>P/B</b>	Plow Bolt
<b>PI</b>	Plain Finish
<b>P/N</b>	Part Number
<b>PPAP</b>	Production Part Approval Process
<b>psi</b>	Pounds per Square Inch
<b>PZ</b>	Pozi-Drive Style of Cross Recess
<b>R</b>	
<b>R</b>	Radius
<b>Rb (RB or HRB)</b>	Hardness Measured on the Rockwell B Scale
<b>Rc (RC or HRC)</b>	Hardness Measured on the Rockwell C Scale
<b>RT</b>	Rolled Threads
<b>S</b>	
<b>SAE</b>	Society of Automotive Engineers when used with Washers - small OD, when used with screw or nut - fine thread



<b>SEMS</b>	Screw with a Permanently Attached Washer
<b>Serrated</b>	Locking Serrations on Bearing Face of Screw or Nut
<b>SHCS</b>	Socket Head Cap Screw
<b>SMS</b>	Sheet Metal Screw
<b>Sq</b>	Square, can Refer to Square Head Bolt or Square Nut
<b>SS or S/S</b>	Stainless Steel
<b>St</b>	Steel
<b>T</b>	
<b>T.H.</b>	Through Hardened (type of heat treatment)
<b>TIR</b>	Total Indicator Reading
<b>T/S</b>	Tapping ScREW
<b>TPI</b>	Threads Per Inch
<b>TTH</b>	Threaded to HEad
<b>Type 1 (23, 25)</b>	Special Thread Forming or Cutting Tapping Screws
<b>Type AB (F, T)</b>	Special Thread Forming or Cutting Tapping Screws
<b>U</b>	
<b>UNC</b>	Unified National Coarse Thread
<b>UNRC</b>	Unified National Coarse Thread with Radius Root (standard rolled thread form)
<b>UNF</b>	Unified National Fine Thread
<b>UNRF</b>	Unified National Fine Thread with Radius Root (standard rolled thread form)
<b>UNJ</b>	Unified National Thread with Large Radius Root (speical rolled thread form)
<b>UNR</b>	Unified National Thread with Radius Root
<b>USS</b>	United States Standard when used with Washers - Large OD, when used with Screws or Nuts - Coarse Thread
<b>UTS</b>	Ultimate Tensile Strength
<b>W</b>	
<b>WAC</b>	Width Across Corners
<b>WAF</b>	Width Across Flats
<b>W/F</b>	Washer Faced (can refer to a Nut or a Cap Screw)
<b>Y</b>	
<b>Y</b>	Yellow Chromate
<b>YS</b>	Yield Strength
<b>Z</b>	
<b>Zn</b>	Zinc, usually referencing Zinc Plating (assumed to be Zince with Clear Chromate)
<b>Zn/C (ZC)</b>	Zinc Plating with Clear Chromate Topcoat
<b>Zn Phos</b>	Zinc Phosphate and Oil (same as Phos and Oil)
<b>ZN/Wax</b>	Zinc Plating with a Topcoat of Wax
<b>Zn/Y (ZY)</b>	Zinc Plating with Yellow Chromate Topcoat