



# COMMON FASTENER AND HARDWARE ABBREVIATIONS

18-8	Stainless Steel with 18% Chrome and 8% Nickel
2, 5 or 8	Strength Grade of screw, bolt or nut
2A (3A)	Class of thread fit for inch screws – external thread
2B (3B)	Class of thread fit for inch nuts – internal thread
2H	Nut strength level designation (ASTM A194 Grade 2H Heavy Hex Nut)
6g	Class of thread fit for metric screws
6H	Class of thread fit for metric nuts
A325	Heavy Hex Structural Bolt (ASTM A325), similar to Grade 5
A490	Heavy Hex Structural Bolt (ASTM A490), similar to Grade 8
A574	Strength grade for socket head cap screws (ASTM A574)
AISI	American Iron and Steel Institute, specifies chemical composition of steel
ANSI	American National Standards Institute
AS	Alloy Steel
ASME	American Society of Mechanical Engineers
ASTM	American Society of Testing and Materials
B	When followed by a number (ex B-90) hardness measured on the Rockwell B Scale
Bake (Bake-Out)	Heat treat process used in plating to prevent hydrogen embrittlement
Bevel	Style of washer (square with a taper) used with I Beams

Belleville	Style of lock washer, also called conical spring washer
BHCS	Button Head Cap Screw
BHN	Hardness measured with a Brinell Hardness Tester
BS	British Standard
C	When followed by a number (ex C-35) hardness measured on the Rockwell C Scale
CH	Case Hardness (type of heat treatment)
C/R	Cross Recess Drive (typically Phillips style) or Chamfer/Radius
CAD	Computer Aided Design/Drafting
Cad	Cadmium Plating
Cad/Wax	Cadmium Plating with a topcoat of wax
COO	Country of Origin
CRES	Corrosion Resistant Steel (usually referred to 18-8 or 316 stainless steel)
CS (cs)	Carbon Steel or countersunk
D/A Nut	Double Chamfered Nut (distinguished from washer faced)
D/E	Double Ended Stud
DIN	German Standards Organization
ET	External Thread
FB	Flange Bolt
F436	Hardened flat washer with dimensions per ASTM F436
FHCS	Flat Head Cap Screw
FIM	Full Indicator Measurement
FIng	Hex Flange Bolt or Nut
FW	Flat Washer
galv	Galvanized typically refers to Hot Dip Galvanized
Gr	Grade, refers to strength level of screw or nut (Grade 2, Grade 5 or Grade 8)
Hardened	A heat treated product
HB	Hex Bolt or Hardness reading measured on the Brinell Scale
H.T.	Heat Treated
HCS	Hex Cap Screw or High Carbon Steel
H.D.G.	Hot Dip Galvanized
Hex Bolt	Can refer to either a "bolt" or a "cap screw"
HHCS	Hex Head Cap Screw (also an abbreviation for Heavy Hex Cap Screw)
HRB	Hardness measured on the Rockwell B scale
HRC	Hardness measured on the Rockwell C scale
HWH	Hex Washer Head
ID	Interior Dimension
IFI	Industrial Fastener Institute
IH	Indented Head
ISO	International Standards Organization

ISIR	Initial Sample Inspection Report
IT	Internal Thread
J429	SAE standard that specifies strength levels of screws
J995	SAE Standard that specifies strength levels of nuts
Keys	Nut with a permanently attached washer
Kips	1,000 pounds
ksi	Thousand of pounds per square inch
lb (lbs)	Pounds
Lb	Body length on screws
LCS	Low Carbon Steel
Lg	Grip length (distance from head to full threads) on screws
LH	Left Handed thread
L/W	Lock Washer
M	Metric
MM	Millimeter
MS	Machine Screw
MTR	Material Test Report
NC	Unified National Coarse Thread
NE (NU, NTE, NTU)	Designations that define the thickness of Nylon Insert Lock Nuts
NF	Unified National Fine Thread
Nom	Nominal (reference dimension)
NPT	National Tapered Pipe Thread
p	Thread Pitch
P/B	Plow Bolt
Pl	Plain finish
P/N	Part Number
PPAP	Production Part Approval Process
psi	Pounds per square inch
PZ	Pozi-Drive style of cross recess
R	Radius
Rb (RB or HRB)	Hardness measured on the Rockwell B scale
Rc (RC or HRC)	Hardness measured on the Rockwell C scale
RT	Rolled Threads
SAE	Society of Automotive Engineers when used with washers = small OD, when used with screw or nut = fine thread
SEMS	Screw with a permanently attached washer
Serrated	Locking serrations on bearing face of screw or nut
SHCS	Socket Head Cap Screw
SMS	Sheet Metal Screw

Sq	Square, can refer to square head bolt or square nut
SS or S/S	Stainless Steel
St	Steel
T.H.	Through hardened (type of heat treatment)
TIR	Total Indicator Reading
T/S	Tapping Screw
TPI	Threads Per Inch
TTH	Threaded to Head
Type 1 (23, 25)	Special thread forming or cutting tapping screws
Type AB (F, T)	Special thread forming or cutting tapping screws
UNC	Unified National Coarse Thread
UNRC	Unified National Coarse Thread with Radius Root (standard rolled thread form)
UNF	Unified National Fine Thread
UNRF	Unified National Fine Thread with Radius Root (standard rolled thread form)
UNJ	Unified National Thread with Large Radius Root (special fatigue resistant thread)
UNR	Unified National Thread with Radius Root
USS	United States Standard when used with washers - large OD, when used with screws or nuts = coarse thread
UTS	Ultimate Tensile Strength
WAC	Width Across Corners
WAF	Width Across Flats
W/F	Washer Faced (can refer to a nut or cap screw)
Y	Yellow Chromate
YS	Yield Strength
Zn	Zinc, usually referencing zinc plating (assumed to be zinc with clear chromate)
Zn/C (ZC)	Zinc Plating with Clear Chromate topcoat
Zn Phos	Zinc Phosphate and Oil (same as Phos and Oil)
Zn/Wax	Zinc Plating with a topcoat of wax
Zn/Y (ZY)	Zinc Plating with Yellow Chromate topcoat