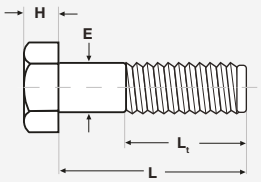
Hex Head and Socket Head – General Dimensions

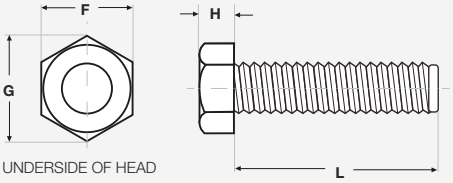
This resource provides detailed illustrations on how the dimensions of different hex head and socket head fasteners are measured. Dimensions such as the bolt head height, thread length, chamfer dimensions, diameter of fastener, etc. It is important to get these dimensions right, as they determine factors such as strength and dimensional tolerances for the bolts.

Hex Head Products

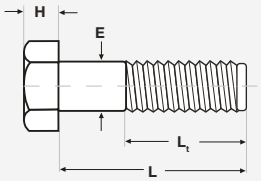
Hex Head Bolt



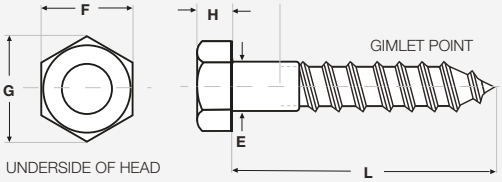
Set Screw



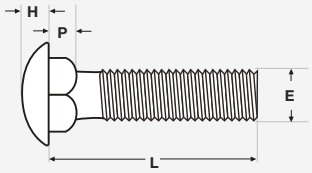
Hex Head Bolt



Coach Screw



Coach Bolt



Key

A = Head diameter.

C = Top chamfer or radius on Socket Product.

D = Shank diameter.

E = Thread, and full body, or shoulder diameter

F = Across the flat measurement (socket size)

G = Across the corners measurement.

H = Depth of Head.

J = Across the flats measurement for internal hexagon drive.

K = Shoulder neck diameter.

L = Product length. Measured from under the head except for Flat head Product, which is measured as overall length .

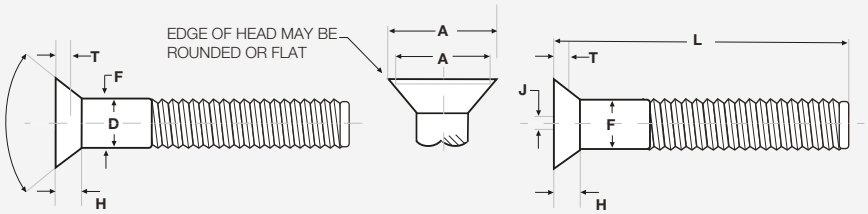
Lt = Thread length.

P = Depth of square neck on Coach bolt.

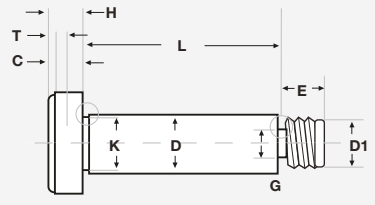
T = Effective depth of internal driving recess.

Socket Head Products

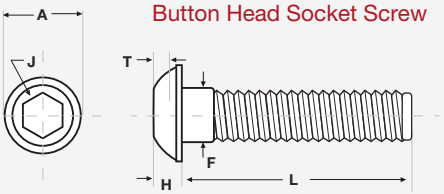
Flat Head Socket Screw



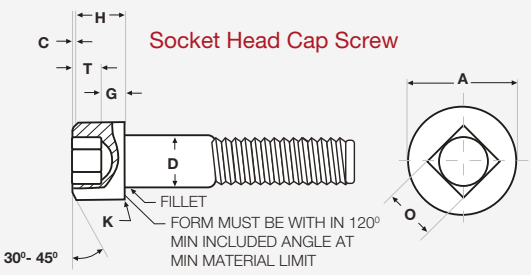
Shoulder Bolt



Button Head Socket Screw



Socket Head Cap Screw



Nuts – General Dimensions

Key

A = Diameter of the dome on a Dome nut.

B = Flange diameter on Serrated Flange Nut

F = Across the flat measurement (socket size)

G = Across the corners measurement

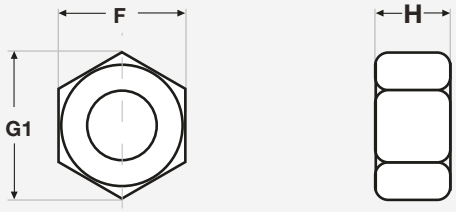
H = Overall height of a nut

J = Thickness of flange

K = Height above flange on a Flange nut

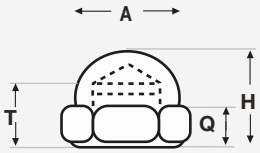
Q = Height of hex on a Dome nut

Hex Nut



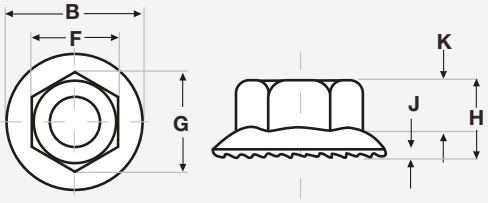
Coupling Nut

Dome Nut



Cone Lock Nut

Serrated Flange Nut



ⓘ The data provided in this document is for general guidance only and should not be solely relied upon when working to stringent specifications. We recommend consulting with qualified experts regarding any technical queries. This information may change without written notice.