

# Types And Shapes Of Fasteners

## Nut Types



**Hex**

A six sided nut. Also referred to as a finished hex nut.



**Heavy Hex**

A heavier pattern version of a standard hex nut.



**Nylon Insert Lock**

A nut with a nylon insert to prevent locking-off. Also referred to as a locknut.



**Jam**

A hex nut with a reduced height.



**Nylon Insert Jam Lock**

A nylock nut with a reduced height.



**Wing**

A nut with wings for hand tightening.



**Cap**

A nut with a domed top over the end of the fastener.



**Acorn**

Acorn nuts are a high crown type of cap nut used for applications.



**Flange**

A nut with a built in washer like flange.



**Tree**

A nut designed to be driven into wood to create a threaded hole.



**Square**

A four sided nut.



**Prevailing Torque Lock**

A non-removable lock nut used for high temperature applications.



**K-Lock or Rap**

A nut with an attached free-spinning external tooth lock washer.



**Coupling**

Coupling nuts are long nuts used to connect pieces of threaded rod or other male fasteners.



**Slotted**

Slotted nuts are used in conjunction with a collar pin or drilled shank fasteners to prevent loosening.



**Castle**

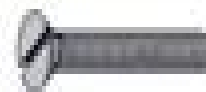
Castle nuts are used in conjunction with a collar pin or drilled shank fasteners to prevent loosening.

## Fastener Categories



**Wood Screws**

Twisted with a smooth shank and tapered point for use in wood. Abbreviated WS.



**Machine Screws**

Screws with threads for use with a nut or tapered hole. Abbreviated MS.



**Thread Cutting Machine Screws**

Machine screws with a thread cutting/self tapping point.



**Sheet Metal Screws**

Fully threaded screws with a point for use in sheet metal. Abbreviated SM.



**Self Drilling SMS**

A sheet metal screw with a self drilling point.



**Hex Bolts**

Bolts with a hexagonal head with threads for use with a nut or tapered hole. Abbreviated HB or HBT.



**Carriage Bolts**

Bolts with a slightly rounded head that has a small square section underneath.



**Lag Bolts**

Bolts with a round head and pointed tip. Abbreviated LB.



**Socket Screws**

Twisted screws, also known as Allen Head, are torqued with a hex Allen screw.



**Set Screws**

Machine screws with no head for inserting all the way into threaded holes.



**Eye Bolts**

A bolt with a circular ring on the head and shank for attaching a rope or chain.



**Eye Lags**

Similar to an eye bolt but with wood threads instead of machine thread.



**J-Bolts**

J shaped bolts are used for tie-downs or as an open eye bolt.



**U-Bolts**

Bolts in U shape for attaching to pipe or other round surfaces. Also available with a square head.



**Shoulder Bolts**

Shoulder bolts (also known as stopper bolts) are used to create a pivot point.



**Elevator Bolts**

Elevator bolts are often used in conveyor systems. They have a large flat head.

# Engineering Guide For Fasteners

**Didier Musso**



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