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PRINTABLE FASTENER TOOLS SERIES



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



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 tapped hole. Abbreviated HHMB or HXBT.



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 SMS



**Carriage Bolts** Bolts with a smooth rounded head that has a small square section underneath.



**Lag Bolts** Bolts with a wood thread and pointed tip. Abbreviated Lag.



Socket Screws Socket screws, also known as Allen Head, are fastened with a hex Allen wrench.



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



Set Screws Machine screws with no head for screwing all the way into threaded holes.



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



**Eye Bolts** A bolt with a circular ring on the head end. Used for attaching a rope or chain.



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



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



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

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#### **Fastener Categories**

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Fastener Categories (continued)

**Head Styles** 



**Sex Bolts** Sex bolts (a.k.a. barrel nuts or Chicago bolts) have a female thread and are used for through bolting applications where a head is desired on both sides of the joint.



Mating Screws Mating screws have a shoulder that matches the diameter of the sex bolts they are used with.



Hanger Bolts Hanger bolts have wood thread on one end and machine thread on the other end



**Flat** A countersunk head with a flat top. Abbreviated FH



**Round** A domed head. Abbreviated RH



**Socket Cap** A small cylindrical head using a socket drive.



**Oval** A countersunk head with a rounded top. Abbreviated OH or OV



**Hex** A hexagonal head Abbreviated HH or HX



**Button** A low-profile rounded head using a socket drive.



Pan A slightly rounded head with short vertical sides. Abbreviated PN



Hex Washer A hex head with built in washer.



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made easy

**Truss** An extra wide head with a rounded top.



Slotted Hex Washer A hex head with built in washer and a slot.

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Phillips and Frearson An X-shaped drive. Abbreviated PH



**One Way** Installs with a normal slotted driver but can not be removed without special tools.



**Drive Types** 

**Washer Types** 

**Slotted** A slot in the head. Abbreviated SL



**Square** Also known as Robertson drive. Abbreviated SQ or SD.



**Combination** A combination of slotted and Phillips drives. Abbreviated combo



**Torx** A six-pointed star pattern, specifically designed to prevent cam-out and stripped heads.



Socket, Hex or Allen A hexagonal hole for use with an Allen wrench.



**Flat** A flat washer, used to distribute load. Available in SAE, USS and other patterns.



**External Tooth Lock** A washer with external 'teeth'. Used to prevent nuts and bolts from backing out.



**Ogee** Thick, large diameter, cast iron washers with a curved or sculpted appearance. Typically used in dock and wood construction.

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**Fender** An oversize flat washer used to further distribute load especially on soft materials.



Internal Tooth Lock A washer with internal 'teeth'. Used to prevent nuts and bolts from backing out.



**Finishing** A washer used to obtain a 'finished' look. Usually used with oval head screws.



**Square** A square shaped washer.



**Split Lock** The most common style of washer used to prevent nuts and bolts from backing out.



**Dock** Dock washers have a larger outside diameter and are thicker than standard.

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Hex A six sided nut. Also referred to as a Finished Hex Nut.



Nylon Insert Jam Lock A nylock nut with a reduced height.



**Flange** A nut with a built in washer like flange.



**K-Lock or Kep** A nut with an attached free-spinning external tooth lock washer.



**Nut Types** 

Heavy Hex A heavier pattern version of a standard hex nut.



**Wing** A nut with 'wings' for hand tightening.



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



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



Nylon Insert Lock A nut with a nylon insert to prevent backing off. Also referred to as a Nylock.



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



**Square** A four sided nut.



**Slotted** Slotted nuts are used in conjunction with a cotter pin on drilled shank fasteners to prevent loosening.



**Jam** A hex nut with a reduced height.



**Acorn** Acorn nuts are a high crown type of cap nut, used for appearance.



Prevailing Torque Lock A non-reversible lock nut used for high temperature applications.



**Castle** Castle nuts are used in conjunction with a cotter pin on drilled shank fasteners to prevent loosening.