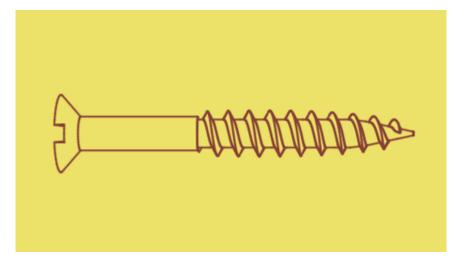
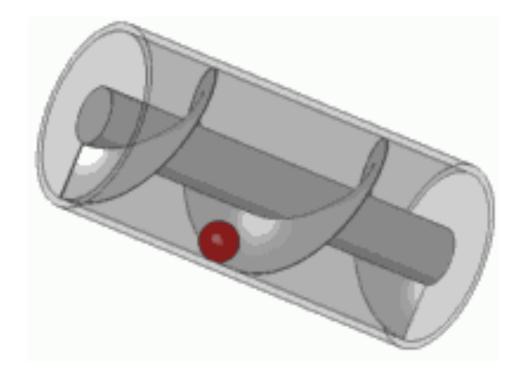
Screw

A Simple Machine

What is a Screw?

• A screw is an inclined plane wrapped around a cylinder or a cone.

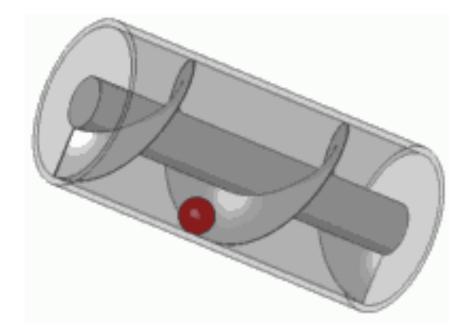




How does a screw work?

• Screws change circular force into linear force.



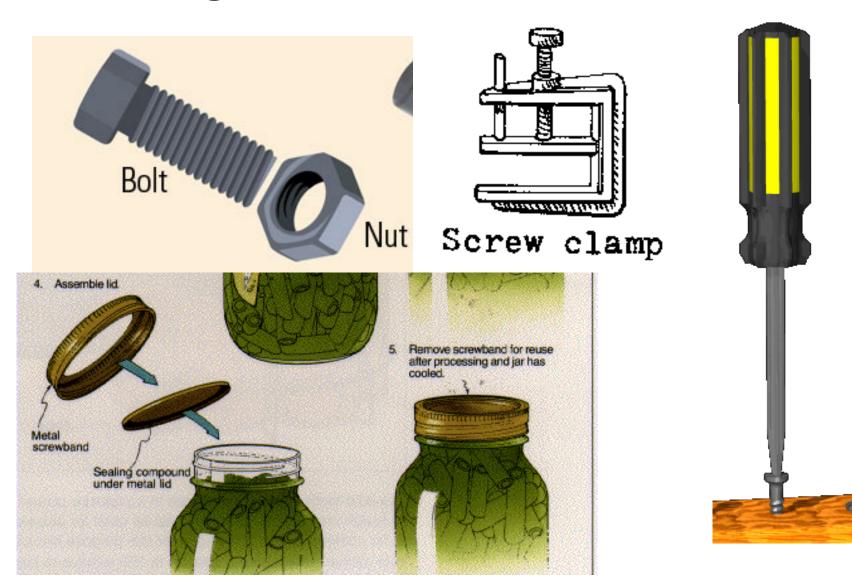


Screws can be used in different ways

• To hold things together or in one spot

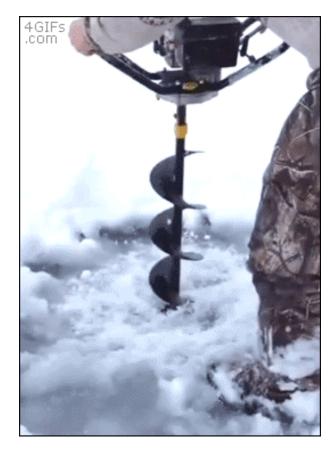
• To move an item out of the way

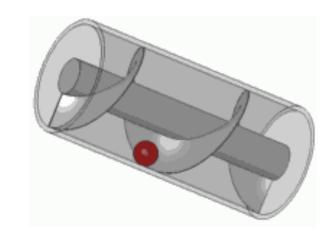
Using Screws to HOLD TOGETHER



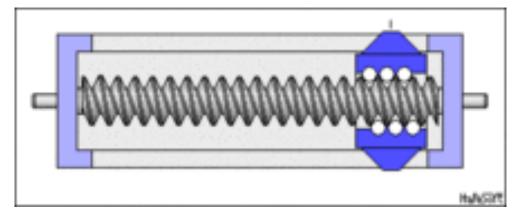


Using Screws as MOVERS









Fastener Categories

100000 TTOODOOTS-

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



Machine Screws Screws with threads for use with a nut or tapped hole.

Abbreviated MS



......

Thread Cutting Machine Screws Machine screws with a thread cutting (self tapping) point.

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



fasteners.



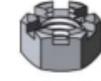
Nylon Insert Lock A nut with a nylon insert to prevent backing off_Also referred to as a Nylock.



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.



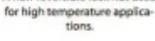
Jam A hex nut with a reduced height.



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



Prevailing Torque Lock A non-reversible lock nut used





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



Self Drilling SMS A sheet metal screw with a self drilling point.

Socket Screws

Socket screws, also known as

Allen Head, are fastened with a

hex Allen wrench.

Ð



Hex Bolts Bolts with a hexagonal head with threads for use with a nut or tapped hole. Abbreviated HHMB or HXBT.

Set Screws

Machine screws with no head

for screwing all the way into

threaded holes.



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



Eye Bolts

A bolt with a circular ring on

the head end. Used for

attaching a rope or chain.

hole.



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

