



How to Use a Hand Drill

In this video you will learn how to use a hand drill.

A hand drill is very useful for making small holes.

Hand drills typically hold drill bit sizes from 1mm to 9mm.

The hand-drill has a cast iron frame, a three-jaw chuck, gears with teeth, a knob to turn, and a handle and a crank handle.

Hold the chuck in the left hand and turn the drive gear to open or close the jaws.

To open the jaws, turn it counter-clockwise.

To close the jaws turn it clockwise.

Use a brad point to drill holes in wood.

The brad point has a sharp tip.

If the drill bit is not placed straight, it will wobble and could break when you drill.

Place the drill in the middle of the three-jaw chuck and turn the drive gear clockwise while holding the chuck with the left hand to prevent it from rotating.

The drill bit is now tight and straight.

Keep the drill square to the workpiece.

To make a clean hole, the drill must be turned clockwise fast with moderate pressure.

Excessive pressure will punch the drill into the wood rather than cutting into it and could break the drill bit.

If a lot of pressure is required the drill bit is probably blunt.

Once you have reached the desired depth, release the pressure, keep turning the handle clockwise and pull the drill upward.

People sometimes use a drill bit for metal in woodworking as they don't have a brad point.

You can clearly see the difference between the brad point and the normal drill bit for metal.

The brad point has a sharp tip.

As the normal drill bit doesn't have a sharp tip, you need to use a centre punch and a hammer to make a small hole for the drill.

This pilot hole will prevent the drill from slipping.

To remove a drillbit, hold the drill with the drive gear toward the right side.

Hold the chuck with your left hand and turn the drive gear anticlockwise with your right hand.

Loosen the chuck and remove the drill bit.

If you fix the workpiece with a C-clamp on the workbench, use scrap wood below to ensure that you don't damage the workbench.

When you want to drill to a certain depth, measure it with a ruler.

Wrap a piece of masking tape around the bit to mark the point at which drilling must stop.

Drill a hole and stop when the masking tape reaches the workpiece.

You have now learnt how to use a hand drill.

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