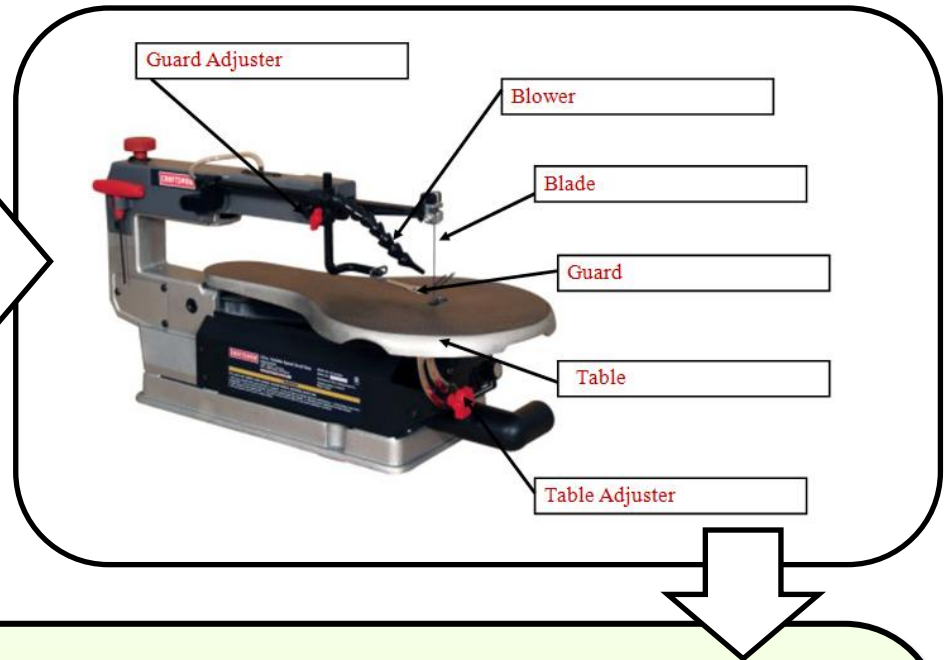


# Scroll Saw

The scroll saw is a machine that is used for freehand cutting decorative shapes in relatively thin wood. The scroll saw uses very thin blades which allow the user to cut very small radius curves. This is often classed as more of a craft orientated tool rather than a heavy duty machine, however a scroll saw can be adjusted and fitted with thicker blades that can cut through larger stock



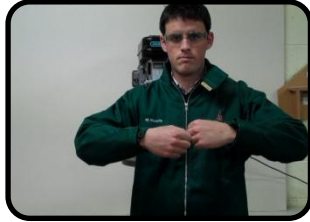
**Blade**-These are available in different sizes and types.

**Table**-This can be adjusted using the **table adjuster** to an angle between 0 and 45 degrees. This allows the operator to make a bevelled cut.

**Guard**- This is in place to stop fingers coming in contact with the blade. It can be adjusted using the **guard adjuster** knob.

**Blower**- This is used to keep wood dust and chippings away from the line being cut.

# Process



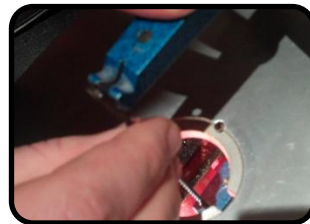
## Step 1

- Before starting the machine process it is important that long hair is tied up, sleeves are rolled up, any jewellery is removed and safety glasses are put on.



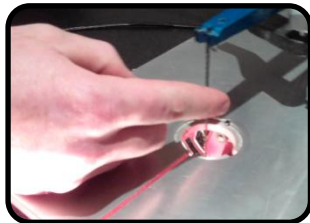
## Step 2

- It is important to set the correct blade speed for the type of work that you are doing. Blade speed can be adjusted by using the speed adjuster. Generally, a fast speed should be used when cutting wood while a slower speed should be adapted when cutting plastics



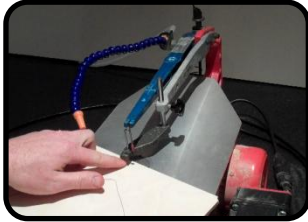
## Step 3

- When fitting the blade it is essential that the blade teeth are facing downwards. This is to prevent the workpiece being pulled up by the saw blade action.



## Step 4

- Once the blade is fitted the operator should always check that it is in tension. This can be done by flicking the blade to check if it is tight.



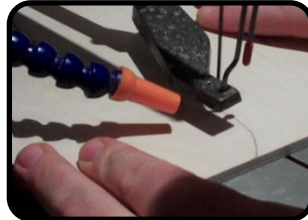
### Step 5

- The safety guard should be set up at a maximum of 10mm above the workpiece. On some scroll saws a hold down foot is available. This should be set up so that it is lightly touching the surface of the wood you are cutting. This keeps the wood from vibrating.



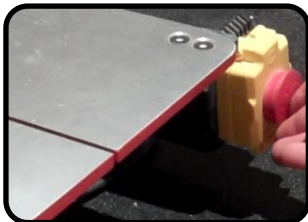
### Step 6

- When turning on the Scroll Saw the workpiece should never be in contact with the saw blade.



### Step 7

- Once the Scroll Saw is in operation keep your hands, fingers, and body parts well out of the way of the blade and never have your hands or fingers in the line of cut.



### Step 8

- If the blade breaks the emergency stop should be pressed immediately. If the operator needs to back out of a cut, the scroll saw should be turned off and then the workpiece slowly removed off the blade.