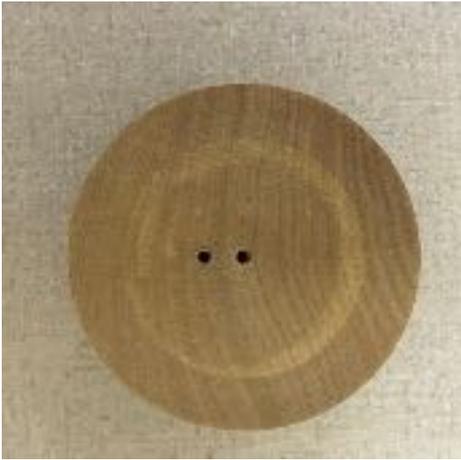


September 2017 - Bryan Milham

The title of Bryan's demo was **"Pendants or how to turn 40p into £40"**

This complicated process involved the making of several jigs but the actual amount of wood involved in the pendant is minimal and is a good use of various scraps, in this case a chunk of wood from the Yandles Show bin for 40p, from which many pendants could be produced. (The procedure, Bryan admitted, was not of his invention)

First, **Jig#1**, used to house the part turned pendant formed in Jig#2, was made as follows ...



From a spindle of wood turn a spigot appropriate for the chuck jaws and then mark 2 holes, one in the centre and the other offset from the centre by 8 to 10mm.

With this mounted in the chuck, screw a similar piece of wood, but a larger diameter and about 15mm thick (Jig#1) to the above so that it is located centrally on the two screws and then turn to round.

- Put two grooves in the outer edge
- Relocate so that the off-centre hole is now screwed into the centre hole
- Use a parting tool to create and indent about half with through with a diameter of about 50mm
- Put an internal groove at the half way point and then continue with the parting tool all the way through to create an offcentre hole



The picture shows Jig#1 with the offcentre hole now separating it from the piece which was attaching it to the original chuck mounted blank.



To complete Jig#1 the jig is sawn in half on the bandsaw and then reconnected together using elastic bands in the 2 grooves on the outer edge.
(Note that this picture was taken after the jig had been used to create a pendant, hence the non-flat surface. Also note that Jig#1 is therefore a sacrificial piece capable of making about 10 to 12 pendants)

Jig#2, used to part turn the pendant before inserting in Jig#1 for final finishing, consists of the following as illustrated in the picture below ...



A bolt, penny washer, the pendant, washer made from mouse mat type material, and a nut glued into the spindle appropriately sized to fit the chuck jaws. Note that it is a good idea to glue the nut into the rear end of the jig to prevent it pulling out.

The procedure is then as follows ...

- Using a piece of wood the required thickness for the pendant, turn it down to about 50mm to ensure a good fit when fitted in the internal groove in Jig#1
- Mark the centre line on the outer surface
- Chamfer the edge down to about 8mm
- Sand edge down to 600grit and then finish with e.g. EEE Ultra Shine (available for Toolpost) which is an abrasive polish suitable for the fine finish required on jewellery and small boxes
- Reverse the disk and chamfer, sand and finish as above

Now remove the disk and insert it into the internal groove in Jig#1 mounted in an appropriate chuck jaws. Hollow out until the original holding hole is removed. Then reverse and repeat and, if desired, use a skew to insert random markings into the pendant. Finally, sand and polish.



The finished pendant which can then be strung on to a leather thong.

Note that the indent at the bottom of the offset hole is part of the holding hole which was not completely removed.

Thanks to Bryan for a very interesting challenge, and for persevering with problems of fracturing wood and the nut in Jig#2 coming unstuck!

David Langan