

Bangle bracelet (two-piece threaded)



This is a precision project. Please read the instructions carefully.

Needed:

Hole saws 2 1/4" and 3 1/2"

Drill press and vise

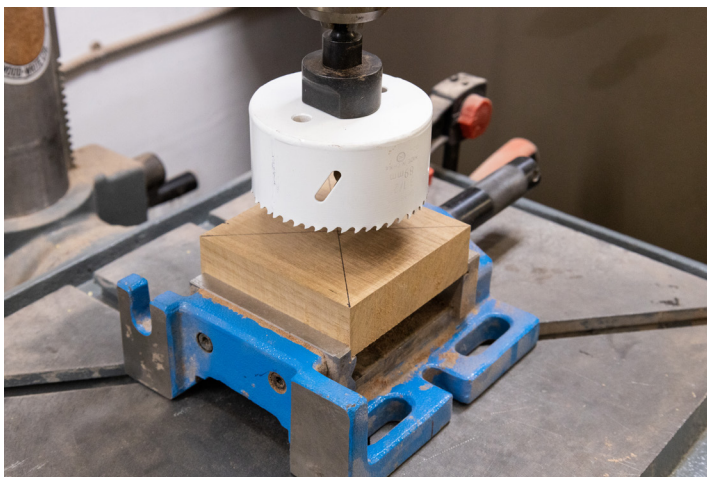
Micrometer

Wood 4" x 4" x 1"

4 jaw chuck

Lathe

1. With the hole saw mounted in your drill press and the wood mounted in a vise, cut the outside diameter (3 1/2") hole first.

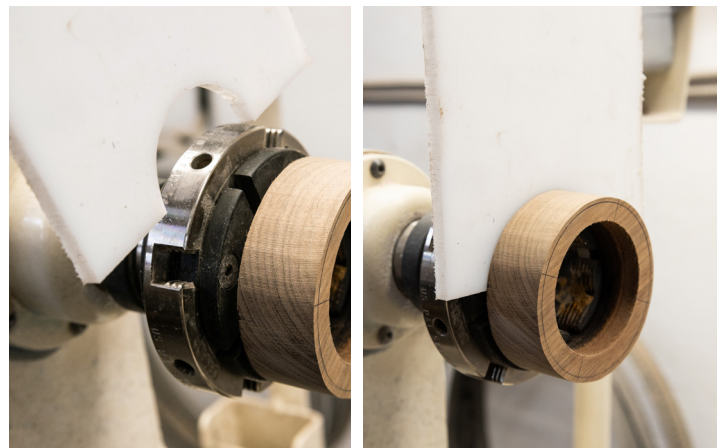


2. Mount the blank back into the vise and cut the inside diameter (2 1/4") hole.



3. Using a 1/4" thick shop made spacer between the chuck and the wood blank, mount the wood using the inside diameter jaws on your chuck. The purpose of the spacer is to make sure the work piece has some space away from the face of the chuck. It will also help to make sure the work piece is mounted straight on the jaws. Once the wood is securely mounted, remove the spacer.

4. You will only be able to cut about half way when



enlarging the hole. **Take care not to touch the jaws of the chuck with your cutting tool.**

5. Using a small scraper or skew, enlarge the hole

until the one of the bracelet core halves fits into the hole. **The steel core should fit into the hole easily.** If it's too tight you will have a hard time screwing the two halves back together during the glue up.



6. Turn the work piece around and repeat steps 3, 4 and 5.

7. For this step, mount the work piece directly up against the face of the chuck so that it is perfectly straight. Also, be sure to make a straight cut.

8. Using a micrometer, mark the blank at the same width of the channel in the steel core. Using a square carbide chisel or HSS cut off chisel cut the work piece to the correct width.

TIP: Leave the width slightly wider than the width of the channel. This will allow small adjustments when dry fitting the wood into the steel core before the glue up. Remove the blank from the lathe and dry fit the steel core onto the blank. Make any fine adjustments by placing the blank down on a sheet of 220 grit sandpaper and sanding in a figure eight motion until you reach the correct width.



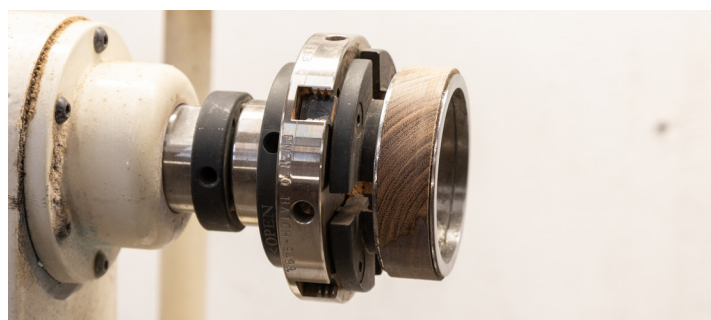
9. Using 2 part epoxy, spread the glue onto the inside of the blank.

10. Place one half of the steel core into the blank and screw the other side into it with the blank in the channel. Tighten the two halves as much as possible.



11. Let this assembly cure overnight.

12. Mount the bangle back onto the lathe as in step 3.



13. Turn to desired shape.

14. Sand the wood and steel up to 600 grit, then polish with micro mesh on slow speed.



15. Apply your choice of finish.