

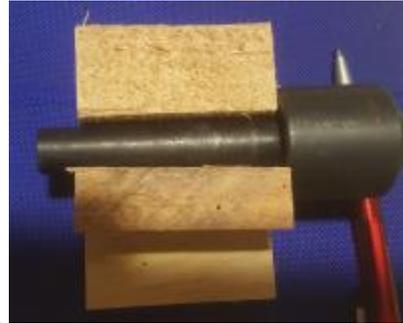
AN EASY METHOD FOR TURNING MORSE TAPERS

It is very useful to be able to make custom drive units that attach to the lathe by way of a Morse taper. Turning the Morse taper can be speeded up by use of a simple tapering gauge. To make the tapering gauge:



1. Attach the piece of wood or other material to a small flat, 3x3". 3 inches is more than enough taper to hold the driver in the lathe.

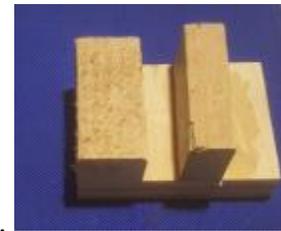
2. Place a Morse taper piece against the block. Place another block on the back side of the Morse taper and



draw a line.



3. Glue the second block to the flat on the line.



You now have a jig to help complete a new Morse taper.



4. Rough out the shape of the business end and mark the approximate location of the taper.



5. Rough in the tapered section gouge or a skew chisel.

with roughing

6.



Set the thin end of the jig opening on the thin end of the taper. Reduce the size of the taper with a skew chisel until the jig slides over the end.



Reduce the rest of the taper until the entire jig slips over the taper.

That's it, a custom-made Morse taper tool.

This particular tool is for shaping the opening of a pepper mill. I'll cut a slit in it and fix sandpaper to in it. Putting the sanding tool in the live center, I can use the wick to push the sandpaper into the peppermill and shape the opening. Sanding the shape is much easier than trying to rough cut it. Once it is roughed in, final sanding or fine finishing cuts can be made with the base of the mill held by the drive center. I recommend purple heart. It's hard and straight and never moves. This one is oak, which is ok but purpleheart is better.

