

Southern Turners Project Sheet

Pepper Mill



These instructions are for a standard 203m (8") pepper mill kit. These kits are relatively inexpensive and available from a range of suppliers. Check the Southern Turners website for a list of suppliers.

1/ begin with a timber blank 20mm longer than the mill shaft and a minimum of 85mm square.



2/ Turn the blank down to 78mm, then square the ends with a parting tool to leave the cylinder 15mm longer than the mill shaft, at this stage the base of the grinder is at the headstock end.



3/ Mark out the top 90mm, this will include a 15mm tenon. Cut out the tenon with a parting tool, leaving 35mm. Cut a spigot the width of a parting tool on the top of the mill to fit into 50mm jaws. This should leave a 75mm top. If a lathe steady is required fix to the lathe with the tool rest on the right hand side.



4/ Reverse the blank and mount into a chuck. Drill a 38mm hole, 6mm deep into the bottom, then a 34mm hole a further 4mm deep. Then a 26mm hole $\frac{3}{4}$ of the depth of the base section of the blank.



5/ Reverse the blank and mount on pin jaws, pin chuck or jamb chuck. Drill a 7mm hole $\frac{3}{4}$ into the top of the mill, then part off the top leaving the tenon attached to the top. Drill a 34mm hole into the top of the base section 1mm longer than the tenon. Drill a 26mm hole through the rest of the base to meet with the previous hole. Remove steady rest if used.



6/ Mount the top section into the chuck & drill a 20mm hole, 2mm deep, then a 7mm hole completely through the top section. Turn the tenon to fit snugly into the 34mm hole that is drilled into the top of the base section.

7/ replace base section onto pin jaws, pin chuck or jamb chuck and turn to desired shape. Sand and finish if using friction polish.

8/ top section can be mounted onto a pen turning mandrel and shaped as desired.



9/ Suggested shape.

- Mark 20mm up from the base and cut 1, 12mm bead.
- Make a mark 2/3 from the last bead and the top of the base & mark with a narrow parting tool leaving 40mm diameter.
- Turn shape to suit.
- Shaping the top section on a pen mandrel makes things easier.

