

# **How to Make a Pepper/Salt Mill Using Record Part 72006**

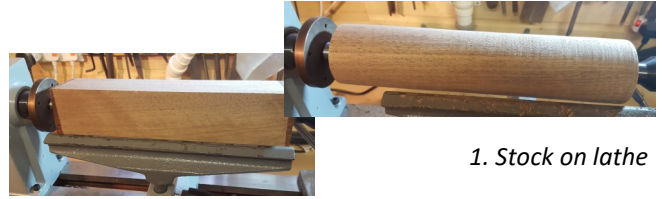


**NOTE:**

This guide uses Record Part 72006, the main body of mill needs to be increased by 89mm for larger type.

Main tools used: Roughing gouge, beading & bowl gouge, parting tool, offset tool, cheese wire, forstner bits—\*45, 38, 30 & \*23mm. Suitable finishes.

- 1. Select a suitable blank. This should be >250mm in length & >70mm diameter. Place in lathe & turn to round.



1. Stock on lathe

- 2. Make chucking points at either end suitable for your chuck. At the 175mm mark, make a recess that when cut in half gives you 2 chucking points. Note: The recess is **above** the 175mm mark. Mark the approximate top of your mill, should be at least 75mm (don't worry if it is more). See Appendix A.



2. Stock turned round, spigots & marked

**Note: Chucking points/spigots not shown.**

Mark the top/bottom of the wood for orientation, see

- 3. Part top, head from bottom, main body & mount the main body in chuck. Use a 45mm forstner bit (can use 44mm), drill to a depth through 'B' of 18mm (can adjust this to suit). See diagram.



3. Main body with marked 45mm forstner bit

- 4. Then use 38mm forstner bit to drill to an overall depth of 57mm. See Appendix A.



4. Main body with marked 38mm forstner bit

- 5. Use a long 30mm forstner bit, drill all the way through. Alternatively, main body can be reversed (reason for marking orientation of the parts) and the hole completed through 'A2'. **BUT not yet!**



5. Main body with 300mm forstner bit & extension bar

- 6. Make a recess to allow the main mill mechanism to grip by using the offset tool marked at 46mm. See



6. Offset tool marked to 46mm

- 7. Then reverse main body & place 'B' into chuck. Finish off 30mm hole (if required). Make a recess of 40mm width, 5mm deep or so (see Appendix A) to later allow the head to fit. No photo—sorry :-)

Remove main body from lathe.



Photos showing inside of main body

8. Place head into chuck & with 23mm forstner bit (or use a 22mm & widen), drill to a depth of \*43mm.

**Note:** This depth is determined whether you decide to recess the top of the mill mechanism or not (5mm depth, 25mm wide). See Appendix A—2 & Appendix



8. 23mm marked forstner bit

9. Use offset tool, make recess of 19mm. Remember to add the depth of your spigot.



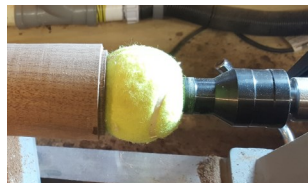
9. Offset tool marked

10. Trim the spigot of the head at 'A1', to fit tightly 'A2' of the main body



10. Main body fitting the spigot of head

11. Secure the two parts by using a revolving centre or similar.



11. Alternatives to securing the bottom of main body, live revolving centre or tennis ball/steb centre

12. Shape mill to suit & apply finishes.



12. Shaping & finishing mill

13. Remove mill, put main body in chuck & remove spigot and sand (sorry no photo).

14. Reverse head & place 'T' into chuck & finish.



14. Finishing head on chuck

15. Push main mill mechanism into main body until it 'clicks' in. Push small mill mechanism into head for same reason.

Put two parts together—done!

15. Finished Pepper/Salt Mill



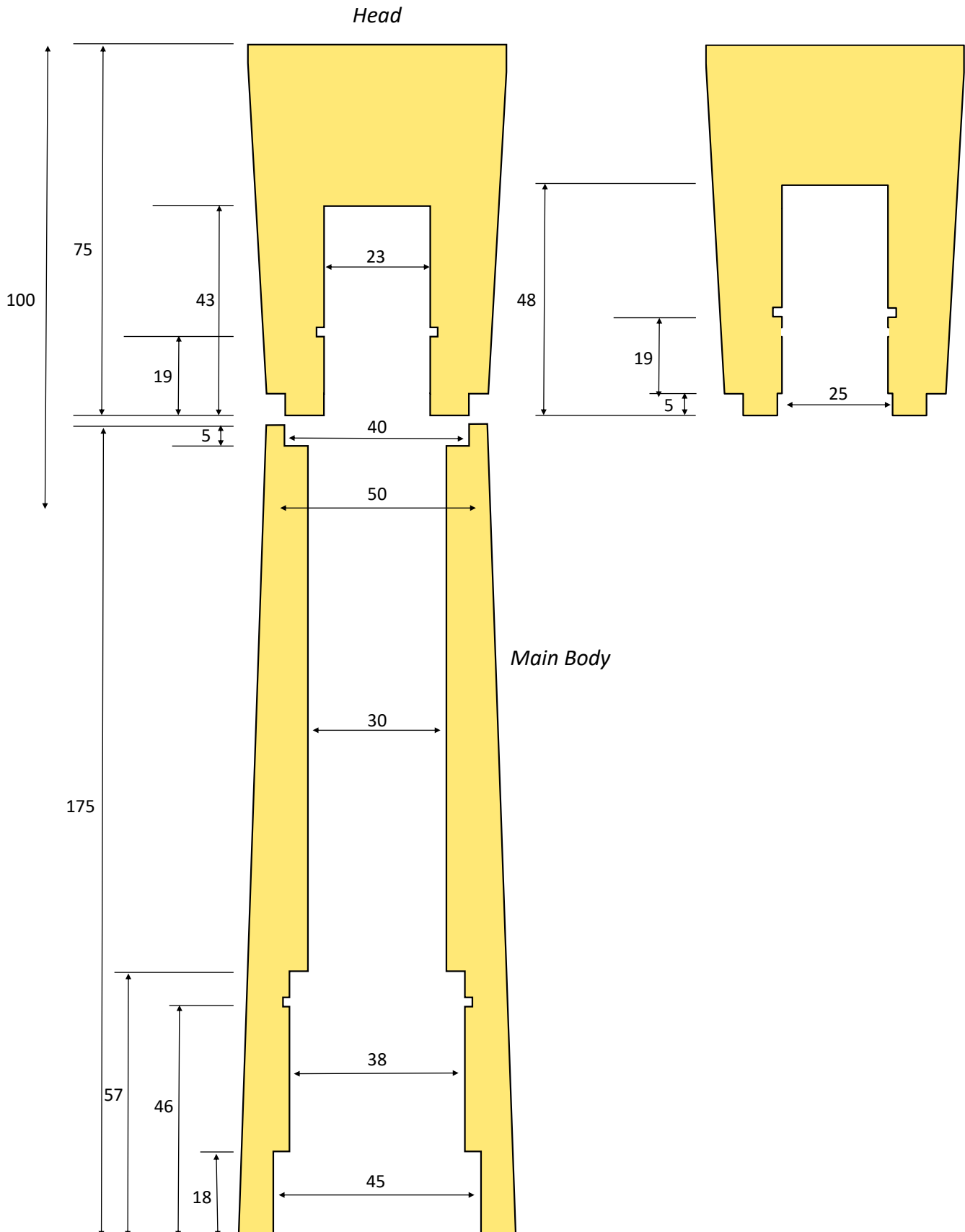
# APPENDIX A

All measurements are in millimetres. Suggested option of width of 50mm at 100mm to allow a standard shape...you can make the design anyway you like :-)

Not shown are the 4 chucking points, remember to add this measurement to the relevant figures below.

APPENDIX A—1

APPENDIX A—2



Appendix B shows a cutaway of the mill with the mill mechanism in place. These photos show the alternative of the recess in the head for the small mill mechanism. The main body of the mill is the same.

**Note:** The chucking point/spigot is still on the base of the main body.

I may annotate the photos below at a later date :-)

APPENDIX B—1



APPENDIX B—2

