

Adjustable Length Salt or Pepper Professional Grinder Kits

Product: #180154

9/3/2021

Supplies Needed to Complete Kit:

- 7/8" Forstner Bit (Cap)
- 1 1/16" Forstner Bit (Through Bore Body)
- 1 1/2" Forstner Bit (Second Step Bore)
- 1 3/4" Forstner Bit (First Step Bore)
- Forstner Bit Extensions (4" or 6" lengths needed for taller mills)
- 3" x 3" x 12" Turning Stock
- Lathe
- Jamb Chucks
- Turning Tools
- Drill Press or Lathe Drill Chuck
- Sandpaper
- Eye & Ear Protection
- Dust Mask

Dimension Notes:

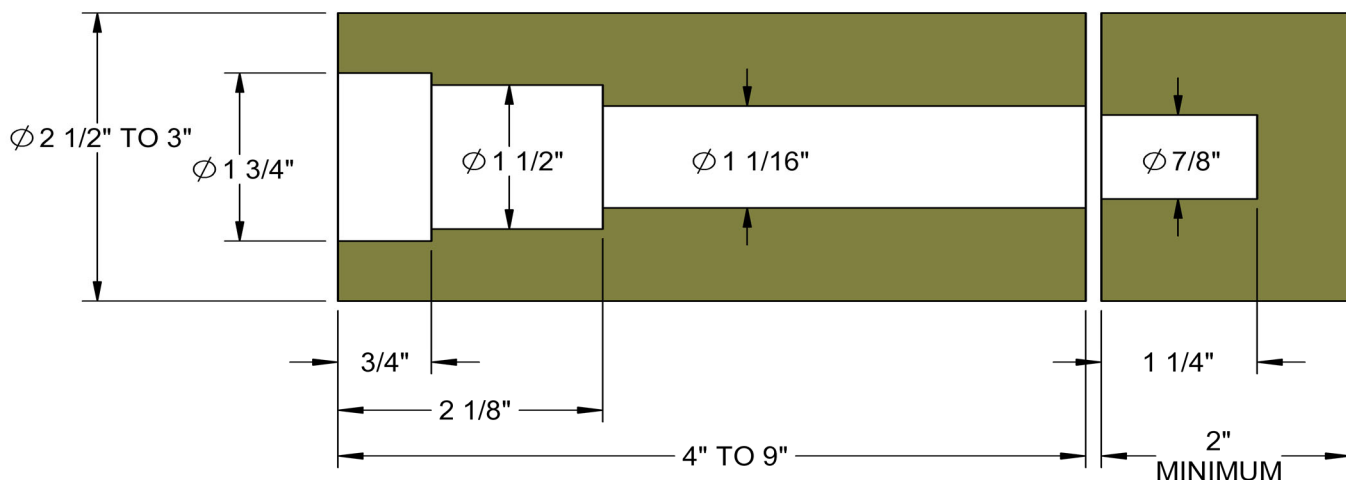
The dimensions shown below are the bore diameters for the body and cap of the grinder. The outside dimensions will vary to suit your design, but the wall thickness should be at least 1/4". The overall finished length, body and cap will vary, depending on the chosen finished length, up to 12" length.

Boring/Turning/Shaping the Mill:

- Mark centers on both the body and cap. If using the lathe to bore, mount the body using a 4-jaw chuck.
- Using the lathe drill chuck, begin by boring a 1 3/4" diameter hole 3/4" deep.
- Bore a 1 1/2" diameter hole 1 3/8" deep for a total depth of 2 1/8". Refer to detail.
- Bore a 1 1/16" diameter hole through the remain portion of the body.
- Mount cap blank and bore a 7/8" diameter hole 1 1/4" deep.
- Create a jamb chuck to fit snugly into the 1 3/4" bore. Mount the body onto the jamb chuck and secure between centers using a large live center.
- Turn, Sand up to 320 grit, and apply a food safe finish of your choice.
- Create a jamb chuck to fit snugly into the 7/8" bore. Mount the cap onto the jamb chuck and secure between centers using a live center.
- Turn, Sand up to 320 grit, and apply a food safe finish of your choice.

Assembly:

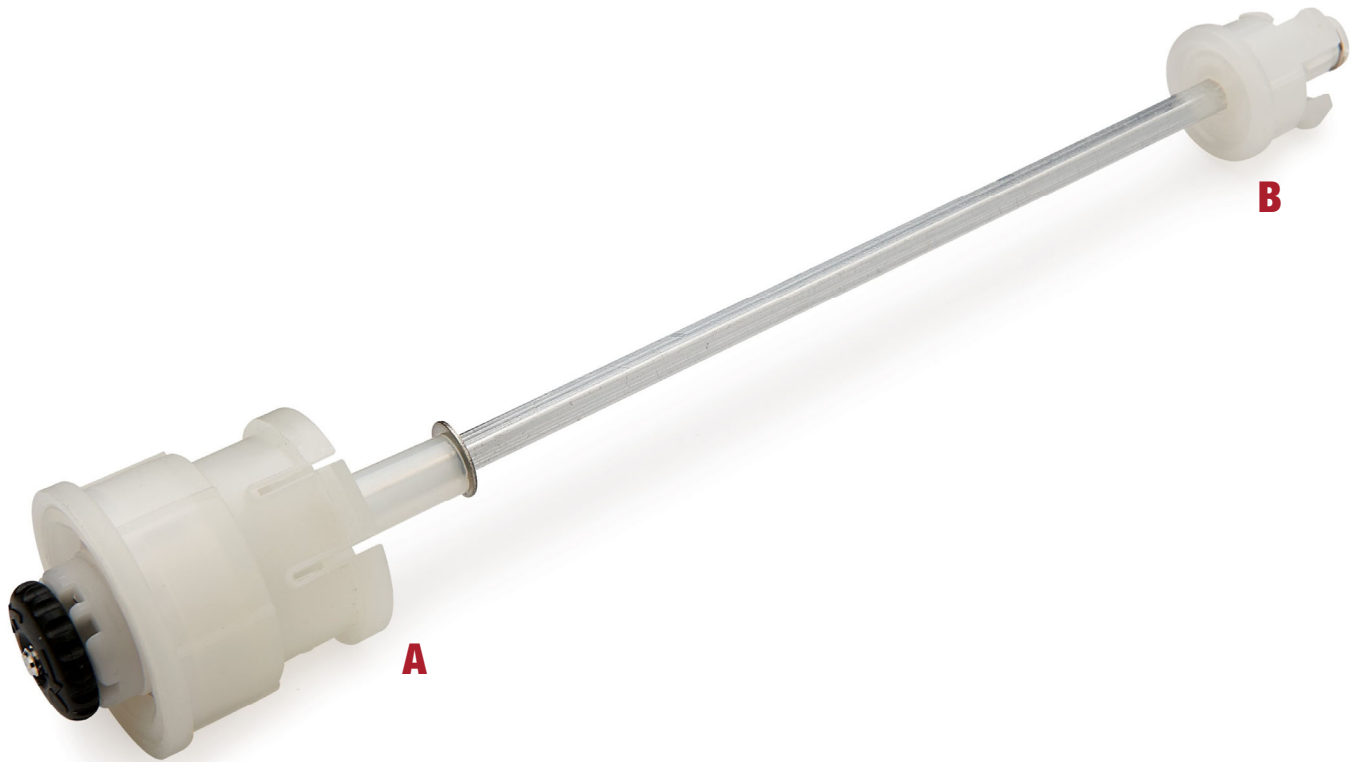
- Note: Mechanism is designed to fit in Metric holes. Modifications will be necessary for Imperial size holes.**



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- With a sharp knife or chisel, remove the six ribs around the base of the mechanism. Removal of the edges of the clips may be necessary.
- Insert Mechanism (A) into Turned Body pushing firmly into place. Measure $1\frac{1}{8}$ " up from the top of the turned body and make a mark. Remove Mechanism (A) and cut the drive shaft to length.
- Apply epoxy to the body of the mechanism, avoiding any moving parts. Insert Mechanism (A) into Turned Body pushing firmly into place till bottoming out.
- Apply epoxy to Knob Mechanism (B) and insert into Turned Cap.
- Once epoxy has cured install Turned Cap onto drive shaft, press firmly into place.
- To adjust coarseness of grind, rotate dial clockwise for a finer grind or counter clockwise for a more coarse grind.