Turning a Deluxe Salt Mill

Supplies Needed

- Blank
- 1-5/8" Forstner Drill Bit
- 1-1/16" Forstner Drill Bit
- 9/32" Drill Bit
- Sandpaper/Finish
- Drill or Drill Press
- Eye and Ear Protection

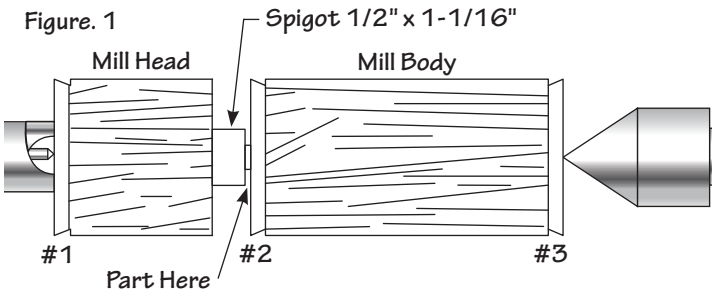
Selecting the Blank

1. Select a 2-3/4" square blank that is 1" longer than the mechanism you have selected.

Mounting the Blank

1. Mount the blank between centers and rough turn the blank to round. Layout the Mill Head and Mill Body on the blank and turn a 1/2" wide spigot 1-1/16" in diameter. (See Figure. 1)
2. Cut tenons #1, #2, and #3 as shown in Figure 1.

Figure. 1



3. Part the Mill Head from the Mill Body.

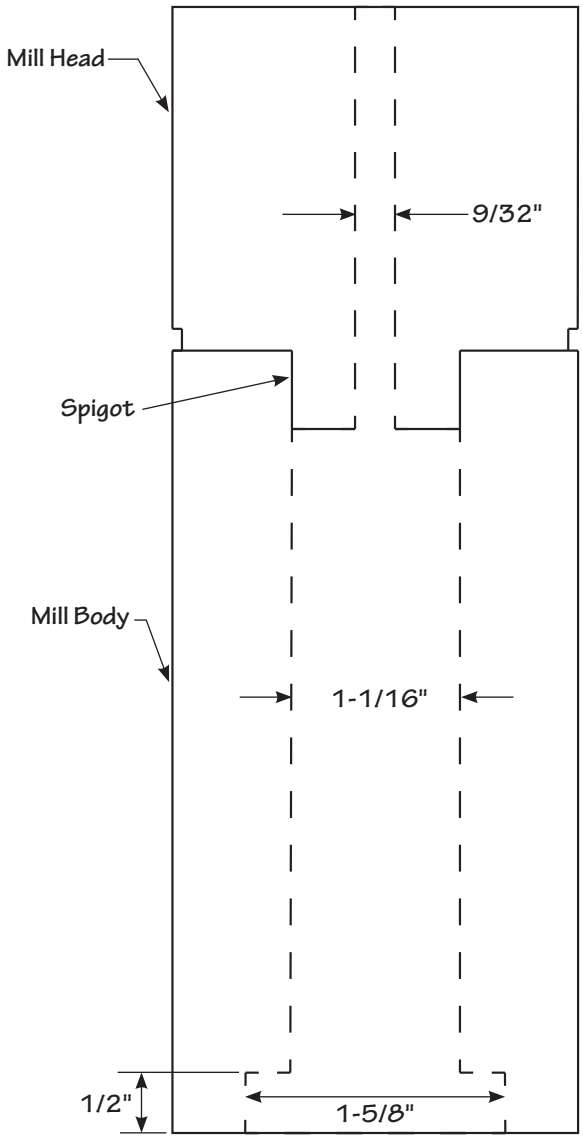
Drilling the Mill Head

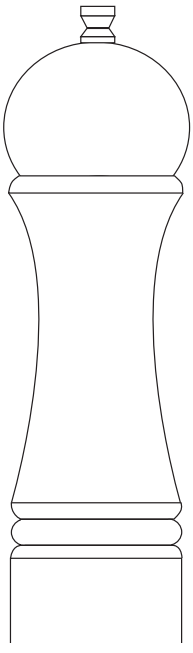
1. Mount the Mill Head in a chuck using Tenon #1 and square the end of the spigot.
2. Drill a 9/32" dia. hole through the Mill Head.
3. Remove the Mill Head from the chuck.

Drilling the Mill Body

1. Mount the Mill Body in a chuck using Tenon #2 and square the end of the blank.
2. Drill a 1-5/8" dia. hole 1/2" deep. (See Figure. 2)
3. Drill a 1-1/16" dia. hole half way through the Mill Body.
4. Remove the Mill Body from the chuck and remount the Mill Body using tenon #3
5. Finish drilling the 1-1/16" dia. hole completely through the rest of the Mill Body.
6. Remove the Mill Body from the lathe.

Figure. 2





Adjustment Knob
Top View

Turning The Mill Head And Mill Body

1. Mount a 2" to 3" diameter by 2" thick waste block on the lathe with a chuck or faceplate.
2. Turn a 3/4" long tenon to fit very snugly into the 1-5/8" dia. hole in the Mill Body. Leave a small shoulder around the tenon. Test the fit of the tenon to the hole until you have the right fit.
3. Put the Mill Head spigot into the Mill Body and mount the Mill onto the drive tenon and bring the revolving center into the 9/32" dia. hole for support. (See Figure 3.)
4. Turn the body to shape making sure not to turn the wall too thin. Sand and finish the blank.
5. Assemble the Salt Mill according to Figure 4.

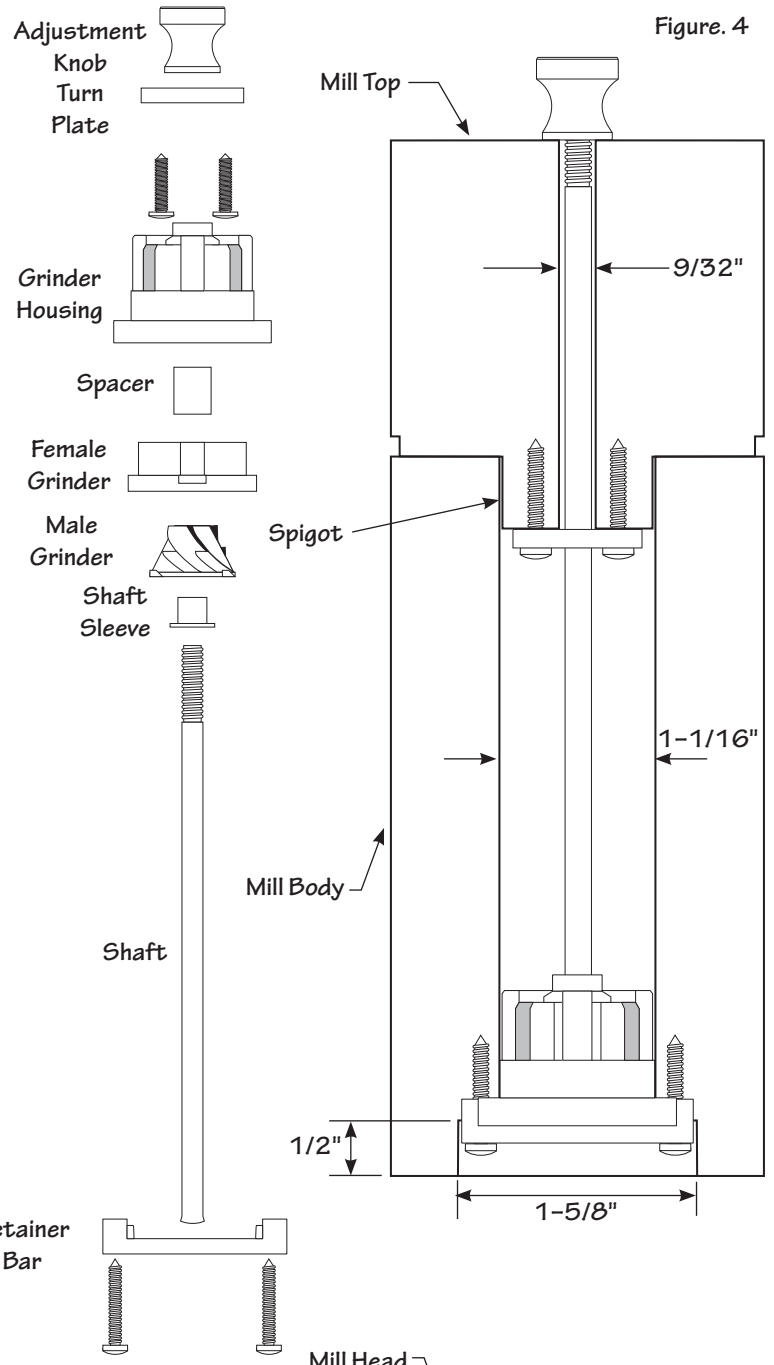


Figure. 4

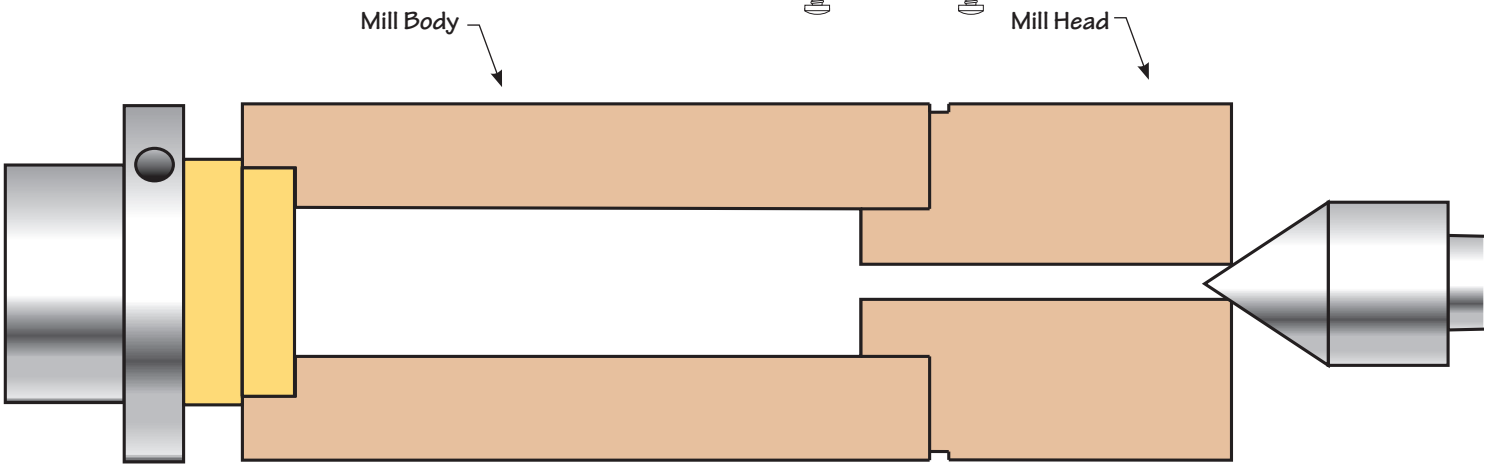


Figure. 3