Turning a Crush Grinder

Supplies Needed

- Blank
- 15/16" Forstner Drill Bit
- 1 1/16" Forstner Drill Bit
- 1 9/16" Forstner Drill Bit
- 1 3/4" Forstner Drill Bit
 Sandpaper/Finish
 Drill or Drill Press
- Bit 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

 Mount the blank between center and rough turn to about 2-1/2" in diameter (see figure 1). Layout the mill top and head on the blank and part them.

Drilling the Blank



- 1. Drill holes for the peppermill (see drawing).
- **2.** Drill a 1-3/4" diameter hole 1" deep into the base of the mill body.
- **3.** Use the center mark from the previous hole and bore a 1-9/16" hole 1-1/2" further into the blank (2-1/2" overall).
- **4.** Drill a 1-1/16" hole using the center mark from the previous hole and drill completely through the mill body.

Drilling the Mill Head

1. Drill a 15/16" hole 1-1/4" deep into the bottom of the mill head.

Finish Turning the Blank

- Mount the body between centers using a drive tenon andcone center as shown in Figure 2 (on back). To make a drive tenon, mount a 2" to 3" diameter by 2" thick waste block on the lathe with a chuck or faceplate. Turn a 1/4" long tenon to fit snugly into the 1-3/4" hole. Leave a small shoulder around the tenon.
- 2. Turn, sand and finish the body according to your sketch. Remember the internal holes in order to maintain sufficient wall thickness.



Sample Shapes



Turning a Crush Grinder

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Turning a Crush Grinder 2