

# **TURNING AN 8" PEPPERMILL**

## **GETTING STARTED:**

1. There are 4 phases to making a Peppermill
  - a. Round the block of wood.
  - b. Drill the holes.
  - c. Profile the Peppermill.
  - d. Finish the Peppermill

## **ROUNDING THE BLOCK OF WOOD:**

1. Select a block of wood that is 3"x3"x8 3/4" in length.
2. Find and mark the centers at both ends.
  - a. Mount the block of wood between centers using an EASYWOOD CHUCK, SPUR or STEBCENTER and a LIVE CENTER.
  - b. Turn the block of wood round using an EASYWOOD ROUGHER and FINISHER.
  - c. Turn a tenon 3/4" in diameter at both ends.
3. From the HEADSTOCK, measure 5 1/2". On the RIGHT SIDE of the mark and using an EASYWOOD PARTING TOOL, part as small as possible without cutting completely off. Using the PARTING TOOL, cut a tenon 3/4" in diameter on the top part of the TOP and BOTTOM of the peppermill.
4. Remove the SPUR or STEBCENTER.

## **DRILLING THE HOLES:**

1. Drill the holes on the BOTTOM of the Peppermill.
  - a. Place the UPPER PART of the Bottom of the Peppermill in the EASYWOOD CHUCK WITH 2-5/8" JAWS.
  - b. Using a DRILL CHUCK and a 1-5/8" FORSTNER BIT, drill a hole 1/2" in depth.
  - c. Next, using a DRILL CHUCK and a 1" CARBIDE FORSTNER BIT, drill a hole 1" in depth. Finish drilling the 1" hole, halfway through the bottom, using a FAMAG #2 taper adapter and 1" FORSTNER BIT.
  - d. Using a FAMAG #2 taper adapter and a 1-1/6" FORSTNER BIT, enlarge the 1" hole, halfway through the bottom of the Peppermill.
  - e. Use a 3/8" FINGERNAIL SPINDLE GOUGE to clean the bottom of the Peppermill, providing a small concave to allow the Peppermill to sit flat on a table.
  - f. Use a 1/2" SKEW to clean the 1-5/8" hole and the bottom of the 1-1/6" hole.
  - g. Using a 1/2" SKEW, make a small taper for the 1-5/8" and 1-1/16" holes.
  - h. Turn the Bottom of the Peppermill around to drill out the top part of the bottom body of the Peppermill.

- i. Using a DRILL CHUCK and a 1" CARBIDE FORSTNER BIT, drill a hole 1" in depth. Finish drilling the 1" hole, halfway through the bottom, using a FAMAG #2 taper adapter and 1" FORSTNER BIT.
  - j. Using a FAMAG #2 taper adapter and a 1-1/6" FORSTNER BIT, enlarge the 1" hole, halfway through the bottom of the Peppermill.
  - k. Use a 1" dowel and 150 grit sandpaper and sand the inside of the 1-1/16" hole making sure that you sand only 2/3 of the length of the 1-1/16" hole.
  - l. Use a 3/8" FINGERNAIL SPINDLE GOUGE to clean the top of the Peppermill, providing a small concave.
2. Drill the holes for the TOP of the Peppermill.
    - a. Using a DRILL CHUCK and a 7/8" FORSTNER BIT, drill a hole 3/16" in depth.
    - b. Using a 1/2" SKEW, slightly, enlarge the hole so the FLAT PLATE fits perfectly in the hole.
    - c. Using a DRILL CHUCK and a 9/32" DRILL BIT, drill a hole halfway through the top.
    - d. Before turning the top around, make a tenon 3/4" in diameter.
    - e. Turn the top around and finish by drilling a 9/32" hole halfway through the top.
  3. Making the spigot on the top of the Peppermill.
    - a. Turn the top of the Peppermill around so you are working on the bottom of the top of the Peppermill.
    - b. Using digital calipers, measure the inside hole for the top of the BOTTOM BODY of the Peppermill.
    - c. Using the digital calipers, turn a spigot 3/8" in length until the tenon is the size of the calipers. This should be a slightly loose fit, so the top does not make a noise when you turn it to grind pepper.

#### PROFILING THE PEPPERMILL:

1. Making a jam chuck.
  - a. Place a SPUR or STEBCENTER in your EASYWOOD CHUCK WITH 50MM JAWS and mount a scrap piece of wood 3"x3"x3".
  - b. Between centers, turn a tenon on the tailstock end 1 3/4" in diameter and 1/4" in length.
  - c. Remove the SPUR or STEBCENTER and place the 3"x3"x3" scrap wood in the chuck.
  - d. Turn a tenon so it fits the bottom of the peppermill (tight 1-5/8" in diameter by 1/2" in length).
2. Place the top of the Peppermill onto the bottom. Place a piece of blue shop towel on the spigot and attach it to the bottom of the Peppermill.
3. Profile the Peppermill using the ROUGHER, FINISHER, DETAILER, MIDI HOLLOWER #1, and MICRO DETAILER.

## FINISHING THE PEPPERMILL:

1. Once the profile is complete, begin sanding at 80 or 120 grit and sand through 600 grit.
2. Use SHELLAC to seal the inside of the Peppermill.
3. Use a WIPEON POLYURETHANE to finish the outside of the Peppermill. I apply 4 coats using 0000 steel wool between each coat.
4. Assemble the Peppermill hardware.

## TOOLS REQUIRED:

Easywood Mid Rougher

Easywood Mid Detailer

Easywood Micro Detailer

Easywood Chuck w/50 mm jaws

Spur or Stebcenter

1" carbide Bormas Forstner Bit

Drill Bit Chuck

Face shield

Ruler

Calipers (outside and digital)

Easywood Mid Finisher

Easywood Mid Hollower #1

Easywood 3/16" Beading (Optional)

Easywood 2-5/8" jaws

1-5/8", 7/8", 1-1/6", 1" Bormax Forstner Bit

FAMAG #2 morse taper adapter- 2

9/32" drill bit

Respirator/Dust mask

Pencil

60-degree cone live center

## MATERIALS REQUIRED"

3"x3"x8 3/4" block of wood

Sandpaper (80-600 grit)

Wipe on polyurethane

Application Pads

3"x3"x3" block of wood (jam chuck)

Peppermill Hardware

Shellac

0000 Steel Wool

# 8" Peppermill

