Turning Instructions for Mason Jar Lid Projects

Required Accessories:
• 71MM Forstner Bit #FB71MM
• Chuck Options
  • Jam chuck #CXC71MM (Dia. A)
  • Lathe chuck with (alligator jaws recommended).
• #CXC4 Jam Chuck (modified per diagram B)
• Mandrel saver or 60 degree live center (to back up the blank)
• Wood blank required: 1” x 3 ½” x 3 ½” min size
  Note: Coffee grinder project requires 1 ¼” thick wood
• 2 part mid-cure Epoxy glue #PKGLUE2

Preparing the wood for turning
• Mark the center over the outer 3 ½” X 3 ½” surface of the blank.
• Drill a 71 MM hole, 5/8” deep trim the corners round.
  (*or drill a 2 ¾” hole = 69.9 mm and “open up” 71mm with a lathe chisel).

Turning the Blank:
• Mount the chuck over the spindle of the lathe.
• Mount the blank, recess end in first over the chuck.
• Slide the tailstock until the mandrel saver pushes against the wood. Lock in place.
• Turn the Blank to a lid cover profile. Turn around the mandrel saver as close as possible. Sand and remove the protrusion on the lid.
• Sand and finish the project. Best is to use utility oil as a finish.
• Drill or countersink a hole as reference for this specific project. (refer to project instructions)
• Remove the lid cover from the jam chuck.
• Use 2-part epoxy glue. Spread internally, affix the metal jar cap inside the turned blank, let dry.
• The cover is ready to use.
#PKMJRXXX   MASON JAR LID PROJECTS

Note: Refer to Mason Lid Jar Turning instructions to make wooden lid.

**Pewter Lid Jar Project**

**#PKPLID**
The lids o.d. vary in size, check each size before turning press.

- Use Item #PKLID (Set of 4)
- Sand and finish the lid cover
- Turn a 2 ½” hole through the top
- Enlarge the hole to accommodate 3 centering pins on the selected lid
- Lid should stay secure in the recess. (Glue if necessary)
- Glue the jar cap into the cover.

**Mason Jar Coffee Grinder Project**

**#PKGRIND3**
Project requires min. wood blank of 1 ¼ thick require ¾” long, wood mounting screws.

- Use item #PKGRIND3.
- Drill with 1½” Forstner bit #FB150.
- Sand and finish the lid cover.
- Drill a 1-½” hole through the top.
- Mark (2) mounting holes over the top.
- Use ¾” long wood screws, mount grinder over the top.
- Glue the cap into the cover.

**LED Light Insert Project**

**#PKMJA03**

- Use item #PKMJA03. Attach smaller 2.7” top
- Turn the wood top with a ½” top thickness to guide plunger.
- Sand and finish the wooden lid.
- Drill a ¾” hole through the top of the wood with #FB34 bit.
- Turn a plunger ¾” x 1” to 1 ½” long
- Glue the cap into the cover.
- Affix the led insert onto the jar, follow with the cover.
- Drop the plunger into the hole, click to light the jar.

**Frog & Coin Slot Insert Projects**

**#PKMJA01/02**

- Use #PKMJA01 Frog Insert or #PKMJA02 Coin Slot.
- For this project drill the 71mm hole ¾” deep to accept both the metal lid and inser.
- Sand and finish the lid cover.
- Drill a 2” hole through the top with #FB2.
- Affix the insert into the large opening.
- Glue the lid jar into the opening.
Soap Pump Mason Jar Lid Project

Turn and finish a wood Mason Jar lid per the instructions “Turning instructions Mason Jar Lid Projects”. For full instructions go to www.pennstateind.com/library/pkmjrp.pdf

- Drill a 1-¼ " hole, through the center of turned wood lid, (drill while on the lathe for an exact center).
- Enlarge the hole to fit the pump body through the wood lid (done easily with a lathe chisel while spinning on the lathe).
- Glue the metal jar cap (included with the kit) into the wood lid
- Insert the pump from the top, through the hole to rest on the metal jar cap.
- Use the white threaded plug, screw from underneath to secure the pump to the metal jar cap
- Attach the plastic tube to the pump body - cut the tube so it rests about 1/8" above the bottom of the jar.
- Fill the jar with soap, pump to dispense.
Alternative Chucking DIAGRAM B

If you own a expanding Colett chuck #CXC4 follow these instructions..

- Select a wooden blank of 5/8" thick, 3 X 3" square.
- Draw a circle of 2 ¾". Divide the circle into 3 equal sections.
- Drill a 1 3/8" hole in center of template.
- Use a bandsaw to cut the template along the lines into 3 sections (See Dia “B”).
- Insert the sections into the 71 mm hole in the lid blank.
- Affix the expanding chuck jaws into the hole, twist and, lock the blank in place.
- Mount the assembly onto the lathe for turning.