



Stainless Steel Beverage Mug



The 16 ounce Stainless Steel Beverage Mug Insert is specifically designed to fit into a lathe turned wooden sleeve. This allows you to create your very own unique Beverage Mug that makes a great gift for almost anyone. The insert can be used with hot or cold liquids, but is especially good for beverages like coffee. The Stainless Steel Beverage Mug includes: 1 ea. 16 oz. Stainless Steel Insert and 1 ea. Spill Proof Lid (Removable for pouring in beverage).



Supplies Needed :

3-3/4" x 3-3/4" x 7-1/2" Blank

1. Drill Chuck For Lathe (or drill press)
2. 2-1/8" Forstner Drill Bit
3. Forstner Bit Extension (optional)
4. Parting Tool
5. Hollowing Tool
6. Scraper
7. Spindle Gouge
8. Outside Calipers
9. Sandpaper (through 320 grit)
10. Lathe Chuck with key
11. Adhesive (epoxy or CA glue)
12. Finish of your choosing

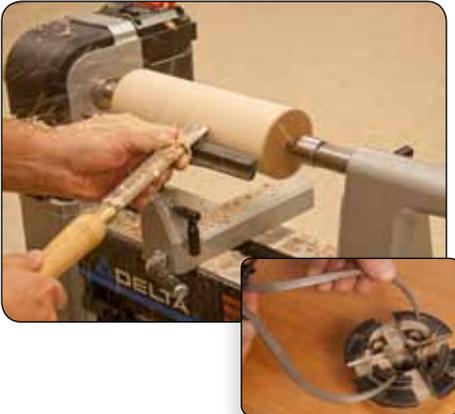
Please read, understand, and follow all manufacturers instructions, guidelines and owners manuals that come with your power tools. Fulton Woodworking Tools and Accessories assume no liability for accidents or injuries caused by improper use of this product.

Stainless Steel Beverage Mug

Instructions



Step 1



Mount your blank to be turned on to your lathe. Turn the blank down until it is round. True the ends of your blank. Set your calipers in relation to your chuck jaws slightly open.

Step 2



Cut a minimum 5/16" long tenon to fit into the lathe chuck jaws. Use your calipers to make sure you have the correct size of the tenon.

Note: Adjust the tenon length based upon depth of your chuck jaws.

Step 3



Mount the blank into your lathe chuck using the tenon cut end. Drill a 5-3/4" deep hole into the blank using the 2-1/8" forstner bit. Be sure to clear the debris and chips as often as possible.

Note: You may prefer to do this step with a drill press and a forstner bit extender.

Step 4



Make sure the depth of your hole is correct and mark a 2-15/16" diameter circle on the open end of the blank. This is your finished inside diameter of your wood sleeve.

(see diagram on page 4)

Step 5



Working from the open end, turn the upper portion of the sleeve flat to the 2-15/16" diameter mark approximately 1-7/8" into the sleeve.

(see diagram on page 4)

Step 6



With a heavy scraper or hollowing tool, turn the remaining portion of the inside of the blank so it matches the taper of the beverage mug.

(see diagram on page 4)

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Shop Tip



To achieve a nice final fit, mark the outside of the mug insert with a dry erase marker. Once marked (with lathe power off), you simply press the mug into the opening while twisting. Missing ink on the mug will show areas that still need to be turned. Repeat this process as needed.

Step 7



For the lip of the mug, turn a 1/4" rabbet on the top of the blank (with lathe power off). Check as often as possible to ensure a proper fit with the stainless steel insert. (see step 13)

Step 8



Measure the depth of your hole in the blank. Add a minimum of 3/8" to the depth and make a mark on the outside of the blank. (This measurement includes the lip of the blank)

Step 9



With the parting tool, start a parting cut on the left side of the mark to about 1/2" deep. This is your reference to the bottom of the mug. (see diagram on page 4)

Step 10



Turn your blank to shape. Make sure you leave a shoulder on the top side for the mug to register. This provides a nice, clean transition from the stainless steel to the wood. Remember, the mug shape can be any shape or design. Add your own finishing touches!

Step 11



Sand the mug through 320 grit. Finish the parting cut at the base to about 1" in dia. The cut is typically made at a slight angle to give you a slightly undercut base. With the lathe turned off, remove the mug with a fret saw - sand off excess.

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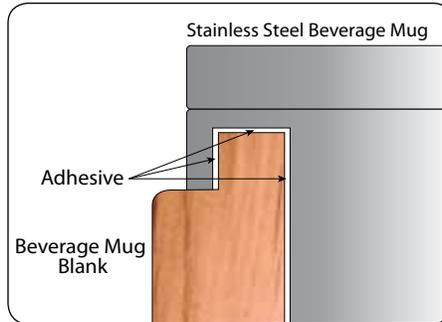


Step 12



Apply the finish of your choice to the mug and allow to dry before moving on to the next step.

Step 13



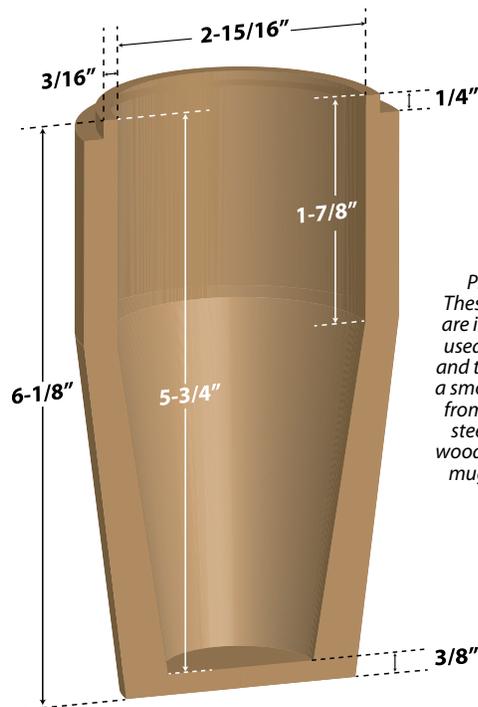
Apply the silicone or epoxy adhesive around the lip (shoulder) and the inside wall of the blank. You do not have to apply adhesive to the entire inside wall, just to the upper part of the inside to about 1-7/8" from the top.

Step 14



Slide the mug into the blank until it sits properly inside and remove any excess glue. Secure the mug while drying and flip upside down - allow to dry.

Beverage Mug Diagram



*Please Note:
These dimensions
are intended to be
used for reference
and to help achieve
a smooth transition
from the stainless
steel mug to the
wood. Your finished
mug results may
vary.*



You now have the perfect gift / keepsake to share or add to your collection.

The Beverage Mug shown in these instructions was made purely as an example for guidance purposes. Make your mug to the design and shape of your own choosing.