

BOTTLE STOPPER

Instructions

Kit Features

- A variety of profiles you can turn in chrome or stainless steel finish
- Silicone rings create an airtight fit

Required Accessories & Materials

- Bottle stopper screw chuck kit (PK-BS1-MJ) for 1"x 8tpi lathe or chuck kit with adapter for (PK-BS1-M) for 3/4"x16tpi lathe
- Optional Tap Set (BSTAPSET)
- Optional Threaded Stopper Insert (BSINSERT5)
- Glue (We recommend the thick "gel" CA glue—GTHICK2)
- Sanding and finishing supplies

Diagram A - Parts and Assembly

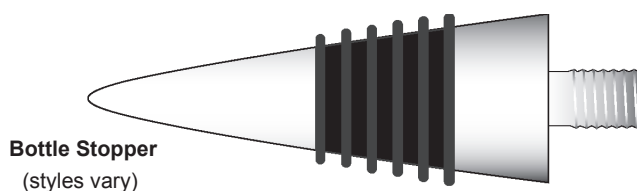
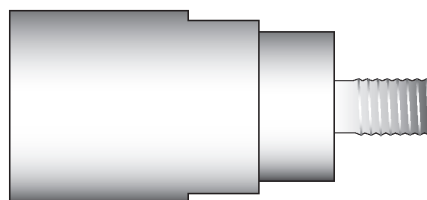


Diagram B - Lathe Chuck



BLANK PREPARATION

The blank size will vary based on your top profile design. Generally, the size of your wood or acrylic blank should be 1-1/2" x 1-1/2" x 2" long. Mark the center of the blank on the end. (See *BSINSERT5* below) Using a medium drill speed, drill a 23/64" diameter hole 3/4" deep. Raise the bit from the wood every 1/4" to 1/2" to allow the chips to clear from the flutes of the drill bit. Don't force the drill bit; use an even pressure and let the bit do the work. If you are working with a soft wood, you may wish to use a slightly smaller drill bit. If using a harder wood, try a slightly larger bit.

OPTIONAL USE OF A TAP SET: Instead of drilling a 23/64" hole, drill a 5/16" hole and tap a 3/8" x 1/16tpi thread.

OPTIONAL: Threaded stopper inserts (BSINSERT5) help to make the process of making a stopper easier than ever. Simply drill a 1/2" hole into the end of your blank, glue in the insert and you're ready to mount your blank to the bottle stopper chuck and turn. These allow you to easily assemble and disassemble your blank from the kit.

TURNING THE BOTTLE STOPPER

Set up the mandrel as shown in Diagram C. Screw the wood or acrylic blank onto the chuck's threaded end into the hole you drilled. You can use a wrench on the flats milled into the chuck to tighten. Mount the screw chuck onto your lathe. Now secure the blank by engaging the tailstock live center for support. Your blank is now ready to turn. Once you have rounded the blank to remove the edges, the tailstock can be removed from the lathe while you continue turning.

Turn the blank to your own profile design. The bottom diameter at the base of the piece may be less than the chuck diameter, so measure the top of the bottle stopper to match the stopper's outside diameter to be turned. Sand with abrasives and finish with your choice of polish.

ASSEMBLY

WoodTurningz recommends using thick CA glue when assembling the bottle stopper. Spread glue over the threads of the stopper. Be sure not to get any glue on the bottle stopper. Screw the piece onto the stopper to secure. When dry, the bottle stopper is ready to use.

Diagram C - Turning the Stopper

