

Purse Box H.O.

*This would
make a good
club demo*

Steps for turning a the box (two tubes, one inside the other) - I refer to the inside tube as the small tube and the outer tube as the large tube. American Woodturner - Wager and Gibson, 30.3:24-26

start with a blank 2x2x8" long --secure between centers and rough to round, put a tenon on one end.

secure tenon in chuck, bring up the tailstock and face off the blank to make it square (perpendicular) to the lathe bed.

remove the live center, replace with drill chuck, drill a hole for the inside tube with 1 1/4" forstner bit about 2.5" deep

remove 1 1/4" forstner bit and replace with 1 1/2" bit, bring it up to the surface and scribe a reference line for the outside of the small tube. This will make the tube thickness to be slightly less than 1/8", if you use a 1 3/8" forstner bit for this step the wall thickness will be slightly less than 1/16th inch.

sand the inside of the tube with a sanding stick

mark on the outside surface the bottom of the tube (depth of the hole) - replace the live center (gently)

turn the outside of the tube from the tailstock to the mark down to the reference line scribed in the end. Make a gauge to measure the thickness of the outside of the smaller tube.

leave about 1/2" to 3/4" for turning the end of the tube - part off the smaller tube.

face off the end of the blank still in the chuck, and drill the inside of the larger tube so that the smaller tube fits into it. get the depth accurate as possible with a caliper depth gauge.

Insert the small tube into the hole and bring up the tail stock and live center - using the larger tube as a jam chuck, finish the end of the smaller tube. Then turn the body of the large tube and end to match the other end.

sand all parts before parting off the large tube.

Part off the large tube and jam chuck to finish the end.

make a tenon on the waste block that will become the closed end of the small tube (1 1/4" dia x 1/4" deep. Glue the open end of the small tube onto the tenon. Recheck the depth of the large tube against the length of the small tube. Make the small tube fit exactly as possible.

Part off the small tube.

drill a 5/16" x 1/8 deep hole for the magnet in the bottom of the large tube. Glue in the magnet so it is flush with the bottom of the large tube. Put a drop of paint on the magnet and insert the small tube so that it touches the paint. Drill a 5/16" hole in the bottom of the small tube and glue in the magnet - check polarity first!

cut the opening in the small tube using a round sanding tube in a drill press, clean up the sides of the opening and you are almost finished. Mark in some way where the opening is in the small tube, so that when someone uses it they don't spill the contents.

Finish with a finish of your choosing



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