ONE GOOD TURN

Meetings: Odd Months Second Tuesday 6:30 pm Dan Hershberger Shop

Beads of Courage

Thanks to all who made boxes for the Beads of Courage program. This will be an ongoing program because it is for such an important cause. Members are encouraged to make a box or boxes to donate

Segmenting Class statement.Continued

The class participants were each tasked with making a "morning star" for the bottom of their bowl and each came up with a unique design. Several of the bowl bottoms are shown bin the following pictures Each will make a beautiful



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The feature ring will be made up of several picture blocks that will be offset by contrasting wood between the blocks.

A Different Take on a Drying Jig for Finishes

Several months ago Sam Sampedro showed the club a drying jig that he made from a barbarque rotisserie motor, a couple of bearings and bolt to fit your four jaw chuck. Dean Yonkovich , a member of the club took Sam's idea and expanded on it to include a sliding tailstock.

From Dean:

Building a powered Rotator for drying hollowforms and bowls after applying a wet finish

Basic idea: A mini lathe made with wood and a BBQ rotisserie motor (FIG 1 AND 1A)





The idea for this project came from Sam's rotating dryer for his bowls which have superb finishes.

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Step one: <u>Rotator bed – 32" long X 6</u> <u> $\frac{1}{2}$ "wide.</u> Minus the head and tailstock this allows for up to a 17" long hollowform. Build with a 1" slot in middle to accommodate for a slide for the tailstock. Secure stabilizers on one end on each side for securing the motorized headstock. The frame for the bed allows for 1 $\frac{1}{2}$ " of clearance under the bed for the tailstock bolt and crosspiece to slide. (FIG 2)



Step two: <u>The rotisserie motor</u> (\$20 on Amazon) was mounted on a two piece headstock. The motor is mounted on one piece. The second piece has two flanged bearings ($\frac{1}{2}$ X 1 3/8" X $\frac{1}{2}$ " - 4/\$10 on Amazon) mounted as shown locating the center of the bearing to the center of the motorhead drive. I used two bearings, only one is required. The two pieces will be screwed together after the drive shaft is made.

Step 3: <u>The drive shaft</u> is a ½ inch X 6 inch carriage bolt. I drilled a hole in

the head (I did this on my lathe to assure exact center) and pressed in a short piece of square stock with epoxy. I could have ground a bolt to fit the 5/16" square hole in the motor head. I happened to have had an old rotisserie shaft. (FIG 3-4-5)







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Step 4: <u>Assemble the headstock.</u> Screw the pieces together with the drive shaft (do not glue, it may have to be taken apart). It should look similar to the picture. (FIG 6)



Step 5: <u>Build the tailstock</u> with a rail on the center bottom to fit the slot on the bed. The tailstock will need a bolt and crosspiece to secure the tailstock to the bed after it is adjusted to the length of the hollowform. The tailstock if built as shown with a hole sized to accommodate the Morse taper of a live center (5/8"). The hole center is located precisely to the same height as the motor shaft of the headstock. (FIG 7-8)





Step 6: <u>Mount the headstock</u> to one side of a stabilizer on the bed with a lag bolt as shown. A friction cone can be made in various sizes to screw onto the threaded bolt shaft. Press in a nut as shown into the bottom of your friction cone (FIG 11). I put a center locator at the base of all my hollowforms, which allows the use of a live center and there are times when a re-do is necessary.



Step 7: <u>The rotator is ready to use</u> <u>for hollowforms.</u> I coated rotator with sealer to preserve and to provide a more frictionless surface for the tailstock to slide (FIG 1).

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Step 8: <u>The rotator for bowls.</u> The motor head can be reversed on the bed as shown. Just remove lag bolt, reverse head. I drilled a second hole to locate and secure the head. The bed will need to be clamped down to avoid tipping. I cut an inch of thread off a 1 X 8 X 2 bolt (\$6.29) and drilled and tapped a thread to accommodate my $\frac{1}{2}$ " bolt shaft end as shown. Now a chuck can be mounted (if you have a 1 X 8 chuck, most are 1 $\frac{1}{4}$ " which will need a larger bolt to accommodate your chuck). (FIG 9-10)





As the hollowform rotates, additional direct heat can be applied with a radient heater nearby. Applying a thicker wet finish and drying on the rotator increases the odds of a high depth finish without potential runs which are extremely difficult to remedy.

Dean Yonkovich, Lincoln, Mt

Editor's Note: I built mine with a 1" bolt and then purchased a 1" to 1 1/4" adapter from Craft Supplies to fit my bowl chucks. Standard 1 1/4" bolts have 7 tpi (threads per inch) and lathes have a 1 1/4" x 8 tpi shaft.

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Dean Yonkovich

Demos Needed

Camille Good has signed on to do the April demo, but after that all meeting date are in need of demonstrators. Please consider signing up to share your knowledge and technique.

Thanks

Thanks to this months contributors Camille Good, Chuck Kuether, Dean Yonkovich, and Paul Snyder for the excellent pictures.

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