

Wood Turning Demo - Smokey Mountain Wood Turners

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Intro

1. Show number of techniques (4 styles)
 - Icicles
 - One piece
 - Two Piece
 - Three Piece (time permitted)
2. Selecting wood
3. Sharp tools
4. Jamb Chucks & Sanding blocks
5. Drilling hole for hanger
6. Decorating with Color & pyrography
7. Have Fun

Icicles



1. Any scrap of wood this is around 1" diameter by 5 - 6 inches long or Tree limb
2. Mount between centers & rough into a cylinder with tenon on one end.
3. Remove and install a scrap block into the chuck and then make a glue block that will fit the tenon.
4. Glue tenon into the waste block. Use tail stock as a clamp and to center the end.
5. Begin turning and true up the cylinder.
6. Work from tail stock end back toward the head stock. This helps reduce the vibration. Generally, the tailstock end is the small end of the icicle.
7. Sand 120, 180, 220 and finally 320 grits.
8. Take both end down to about 1/8 inch.
9. Define the ends with a small light cut.
10. Final sanding to 320 both ends
11. Part / cut off near the head stock.
12. Install sanding block and sand top and bottom end lightly to the small light cut line.
13. Hand sand the two ends.
14. Mark the center of the top end for drill a hole. Use awl to make a small hole for starting the drill bit.
15. Install 1/16" diameter drill in Head stock. Hold the icicle level by hand and push it into the drill to the desired depth for your screw eye.
16. Install screw eye.
17. Apply finish. I like to use semi gloss polyurethane or lacquer. I prefer at least 3 light coats. Use steel wool after the first coat to remove any raised grain.
18. Hang up to dry.



One Piece Ornament



1. Any scrap of wood that is 1.5 - 2.5 inches in diameter by 5 - 6 inches long.
2. Prefer light weight woods to keep the ornament light. Woods like Butternut, Basswood, Poplar and cedar work well. If dense woods are used, then keep the size of the ornament small in diameter and length.
3. Mount between centers & rough into a cylinder with tenon on one end.
4. Remove and install a scrap block into the chuck and then make a glue block that will fit the tenon.
5. Glue tenon into the waste block. Use tail stock as a clamp and to center the end.
6. Begin turning and true up the cylinder.
7. Work from tail stock end back toward the head stock. This helps reduce the vibration. Generally, the tailstock end is the small end of the icicle. The globe portion of the ornament will be near the headstock end of the wood.
8. Rough out the location and shape of the globe.
9. Remove some material for the bottom finale to about 1 inch diameter.
10. Start at the end of the finale (near tailstock). Turn it down to final size and shape. Do this in about 1 inch long sections. Sand each section prior to moving to the next section. You should be able to turn the end off from tailstock and shape the end. Try to do this when turning the first section.
11. Keep working back toward the globe.
12. Shape globe and bottom finale.
13. Sand 120, 180, 220 and finally 320 grits as you work back in sections toward the head stock.
14. Turn top finale and sand as you much as possible as you get smaller.
15. Take end down to about 1/8 inch.
16. Define the end with a small light cut.
17. Part / cut off near the head stock.
18. Install sanding block and sand top and bottom end lightly to the small light cut line.
19. Hand sand the two ends.
20. Mark the center of the top end for drill a hole. Use awl to make a small hole for starting the drill bit.
21. Install 1/16" diameter drill in Head stock. Hold the icicle level by hand and push it into the drill to the desired depth for your screw eye.
22. Install screw eye.
23. Apply finish. I like to use semi gloss polyurethane or lacquer. I prefer at least 3 light coats. Use steel wool after the first coat to remove any raised grain.
24. Hang up to dry.

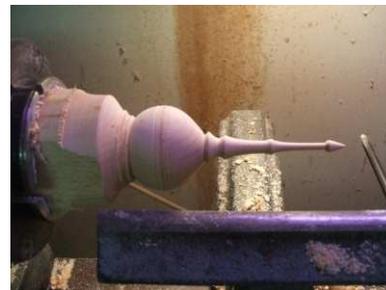


Two Piece Ornament



1. Any scrap of wood that is 1.5 - 2.5 inches in diameter by 5 - 6 inches long.
2. Light weight porous woods are not preferred because you need a good strong glue joint. Woods like maple, cherry and walnut work well.
3. Mount between centers & rough into a cylinder with tenon on both ends to fit your scroll chuck.
4. Rough out the location and rough shape of the globe. Leave about 3/16" flat at the major diameter of the globe.
5. Mark a line across the globe with a pencil. This line will help re-align the globe when you need to glue it back together after hollowing.
6. Now part the globe at the largest diameter into two halves.
7. Hollow out the inside of the halve still in the lathe. A round nose scraper works well. Leave the wall thickness about 1/8" thick. Remove from scroll chuck.
8. Put other halve into scroll chuck and hollow it out the same as the first. And remove it from chuck.
9. Install the halve which will be the top of the ornament into the chuck. Check fit of both halves prior to gluing. Adjust tailstock so it can be used as a clamp. Apply super glue to one half. Fit the two halves together and make sure the pencil lines made earlier come together. Use tailstock to clamp in place.
10. Wait about 5 - 10 minutes before continuing to turn the ornament.
11. Start re-shaping the globe for any out of balance.
12. Remove some material for the bottom finale to about 1 inch diameter.
13. Start at the end of the finale (near tailstock). Turn it down to final size and shape. Do this in about 1 inch long sections. Sand each section prior to moving to the next section. You should be able to turn the end off from tailstock and shape the end. Try to do this when turning the first section.
14. Keep working back toward the globe.
15. Shape globe and bottom finale.
16. Sand 120, 180, 220 and finally 320 grits as you work back in sections toward the head stock.
17. Use point of a skew on its side and put 3 small grooves in the globe. One at the glue joint and one on each side about 3/16" apart.
18. Turn the speed of the lathe up and use a burning wire to put black lines in the three grooves. This is to disguise the glue joint.
19. Turn top finale and sand as you much as possible as you get smaller.
20. Take end down to about 1/8 inch.
21. Define the end with a small light cut.

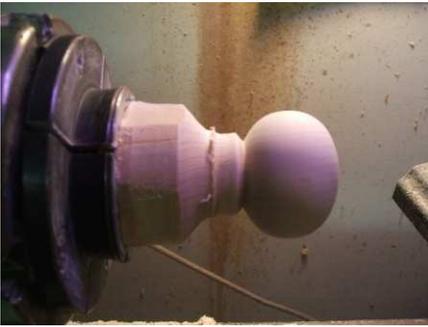
22. Part / cut off near the head stock.
23. Install sanding block and sand top end lightly to the small light cut line.
24. Hand sand the two ends.
25. Mark the center of the top end for drill a hole. Use awl to make a small hole for starting the drill bit.
26. Install 1/16" diameter drill in Head stock. Hold the icicle level by hand and push it into the drill to the desired depth for your screw eye.
27. Install screw eye.
28. Apply finish. I like to use semi gloss polyurethane or lacquer. I prefer at least 3 light coats. Use steel wool after the first coat to remove any raised grain.
29. Hang up to dry.



Three Piece Ornament

1. Any scrap of wood that is 1.5 - 2.5 inches in diameter by 3 - 4" inches long.
2. All woods will work especially ones with unique characteristics.
3. Mount between centers & rough into a cylinder with tenon on one end to fit your scroll chuck or waste block.
4. Mount tenon into the scroll chuck or glue block. NO TAILSTOCK needed.
5. Begin turning and shape the globe on the free end.
6. Sand to 320 grit.
7. Install drill chuck and 1/2" drill bit in tail stock. Drill hole through the globe.

8. For large globes, hollow out the inside of the globe. For small globes or shapes hollowing will not be necessary.
 9. Complete the turning of the globe on the headstock side and turn it off completely.
 10. Sand the back side of the globe to 320 grit.
1. Finale for top and bottom.
 2. Turn finale same as for the iclce ornaments above. Except one end (cup end) to be glued into the ends of the globe.
 3. Cup end shall have a tenon to match the hole size in the globe and a cup which is slightly larger than the hole in the globe.
 4. The backside of the cup will need to be undercut so only the outer edge makes contact with the globe.
 5. Once top and bottom finale is done and sanded, glue them into the globe.
 6. Mark the center of the top end for drill a hole. Use awl to make a small hole for starting the drill bit.
 7. Install 1/16" diameter drill in Head stock. Hold the ornament level by hand and push it into the drill to the desired depth for your screw eye.
 8. Install screw eye.
 9. Apply finish. I like to use semi gloss polyurethane or lacquer. I prefer at least 3 light coats. Use steel wool after the first coat to remove any raised grain.
 10. Hang up to dry.



Drilling

I turned piece of wood that would fit my scroll chuck and drilled and super glued in a 1/16" drill bit. I put a starting hole in the end of the finale with an awl. Hold it by hand parallel to the drill and push it in to the desired depth for the small screw eye.



Sanding

I generally sand through all the grits from 120, 180, 220 and 320. When I need to sand the end of the finale, I make sanding blocks like shown in the picture. Use a left over block that was previously used in my scroll chuck. Remount it into the chuck and clean up the free end. Super glue a piece of sand paper on the end and sand away. I also use these for sanding the nubs off the bottom of a bowl or box as well.



Decoration

Color and pyrography (wood burning) can add a nice touch to your ornaments. Especially if the wood is very plain.

Color

1. Many choices : India inks, Prism markers, Sharpie pens, dyes.
2. Apply when the ornament is still in the lathe at a very slow speed. 500 rpm or less.
3. A spray finish is recommended. A wipe on finish will tend to dissolve the color and make it run or smear. Don't ask how I know this.

Pyrography

1. I tend to keep it simple.
2. Use a small straight tip on the burner. I generally free hand and make a star pattern in about 4 places around the center of the globe.