

## 2 Piece Hollow Forms

Basic Prep Tips that will help on your first attempt: close grain hard wood is best

1. Watch the club's DVD by Brian McEvoy this will definitely help, but is not necessary, you can watch the same info on u-tube with a little search time.
2. Follow the order I have written down and that will help also.
3. Kiln dried boards cut two squares exactly the same size,(11-1/2" x 11-1/2") side by side from the same board.(This will help to line up grain)
4. Choose the best piece for the top piece mark the exact center, then using a compass draw a circle dark enough to be seen on the lathe. Repeat the same procedure on the bottom piece.
5. Cut out both circular blanks on your band saw leaving the dark line you drew on each.

Choose a face plate with a center screw hole if possible. It is not a must just be careful to center the face plate. (Carter sells one) Decide whether you are going to turn thin for piercing or just a regular hollow form.

6. Mount your face plate onto the top piece. Note# Consider the length of screws you plan on using so they don't go too deep
7. Mount face plate with top piece onto your lathe

### Tools you will need

Compass

Straight edge (A good one)

1/2" straight scraper or something close

Bowl gouge

Spear point scraper (optional)

3" center cone bought or home made to go on live center

Wood glue/ wet rag

1. Round off blank (pull up your live center and make sure it leaves a hole)
  2. Mark the dimensions you prefer for your opening hole. Your chuck may determine this. I use my (Vic marc 150) the smallest it will close for expansion is 2-5/8
  3. Shape top rim and cut your expansion joint inside it, depth should not exceed the actual depth of where you will cut out inside waste wood.
  4. Move to the outside and begin removing waste wood on the outer edge.
  5. Square opposite edge where glue joint will be before finishing waste wood removal. Use 1/2" square scraper to finalize glue edge.
  6. Finish waste wood removal, finish your outside saucer shape, Sand
  7. Remove faceplate from lathe. DO NOT REMOVE FACEPLATE from wood yet. Mount your Chuck onto lathe then mount top piece into expansion jaws of your chuck, pull up live center to help hold with even pressure tighten chuck jaws slightly & see if it is running true When it is, finalize tightening of chuck then remove faceplate.
  8. Begin hollowing out top leave, about 1/4" to 3/8" glue edge and hollow out only enough waste material so you can lay your straight edge across the top of the glue edge. Adjust glue edge until it is perfectly flat against straight edge.
  9. Finish hollowing out top. Work from the outer edge toward the center if turning thin otherwise it doesn't matter.
  10. Cut out hole at the bottom of top piece. Sand where other turners will insert their fingers to 320 or whatever grit you desire. Do not remove top from chuck until satisfied with inside sanding.
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Remount face plate onto bottom half of hollow form

1. Again round off blank use live center again make sure you punch a hole into bottom half with it.
2. Turn expansion recess and shape the bottom (remember the rule of thirds for foot. (finish sand inside foot ) Best time to do this before chucking

3. Begin removing waste wood at the edge and shape your saucer bottom. Before getting real thin on the edge stop and square off the glue edge on the other side like you did before.
4. Finish removing all waste wood from the outside of bottom half of saucer. I recommend sanding it somewhat through the rough grits before turning it over and mounting into chuck jaws.
5. When you are satisfied with it (Remember **DO NO REMOVE FACEPLATE** from bottom half before mounting into chuck jaws. Use live center for even pressure then tighten jaws, when it is running true remove face plate.
6. Remove waste wood about 1/4" deep across piece leaving 1/4" to 3/8" glue edge untouched. Use your straight edge across bottom piece adjust glue edges until it fits flat against your straight edge on both sides.
7. Hollow out bottom piece, **Finish sand bottom, spray lacquer on bottom** before gluing the two halves.(Make sure not to get any spray on the glue edge)
8. When you are ready to glue up, match up the two halves and spin top piece until you match the grain on the two halves, then mark a light pencil mark to make it easier for match up when glue is on both halves.
9. Apply glue to both edges, match up and glue. (this is where you need the 3" cone center on live center to put even pressure through top hole for gluing) Use live center to close up both halves, be careful to not apply too much pressure to crack top. Let piece dry

When the glue is dry you will need to back out the live center cone then finish sand out mouth of hollow form to remove expansion joint edges. And to finish sand entire piece to desired grit.

