

Lace Sphere and Egg Guidance Sheet

Part 1

Selection and preparation of material

- Maple, Birch, Boxelder, Walnut - close grain
- Choose item with no imperfections - no cracks - solid
- Sand to 320
- I use a wooden egg or sphere (2 1/2" diameter)



Part 2

Initial layout on surface

- Use 0.8mm bit in micromotor to create spaces 1/16" - 1/8" deep
- Space should be at least 1/8" so bit can carve below surface
- Complete entire surface with shapes, keep 1/8" border between spaces
- It may help to dimple inside the space to allow carving bit to center better



Part 3

Deepen carving and hollowing

- Use straight cylinder bit with cutters on end and sides
- Depending on object, start carving at one end of object and carve down the full length of the bit. Angle bit to the right and left and all around to get out the maximum amount of material. Move to the next space adjacent to the hole you just created and repeat. Connect beneath there surface the two holes. Make sure to leave at least an 1/8" wall thickness deep at this point. Move onto the next hole and repeat, and repeat and...
- Clean one end/side first so that you create a lace type object. You should be able to see inside the object, try to remove the coral framework that is inside into small pieces or dust. You do not want an object inside that you can't grab onto and that will be difficult to grind down.
- If you need to, you can remount your bit in the micromotor handpiece so that it is a bit longer. Do not over extend the bit. I like to draw a line with a black sharpie around the bit so I know if the bit is slipping out of the handpiece.
- Continue to eat away at the mass inside the object. Continue to pierce each space and clean at an angle underneath the lace surface. When there is no more mass inside, it's time to clean up.



Part 4

Clean up inside and outside

- Revisit each space and clean at an angle underneath the surface in every direction. Do this for the spaces adjacent to the one you just did. For this I use the 0.8mm bit that I used to create the initial space. A fine bit is okay to use because we are not cutting a lot of material.
- Clean up the shape of each space so that they are smooth and clean. Be careful not to eat away at the wall thickness between spaces. The wall between spaces should be uniform throughout the object. I usually use a cylinder diamond burr (150 grit)
- A final sand on the outside of the sphere with 320 or 400 grit will give us an object ready for lacquer spraying.
- Several coats of lacquer will complete the project.
- Make a stand of your choosing for display.



Materials and tools needed:

Micromotor or Dremel
Carving/Piercing Bits (See images below)
Wood egg or sphere
Lacquer rattle can spray
Dust mask/dust collection system
Fan



0.8mm burr



Mini Stump Cutter



Coarse Grit Diamond Burr

MDI Woodcarvers - <https://mdiwoodcarvers.com/>
Treeline - <https://treelineusa.com/>