

Kaleidoscope Bowl

Walt Nollan



This tutorial is to show how I make overlapping scrolls as you see in my Kaleidoscope Bowl above.

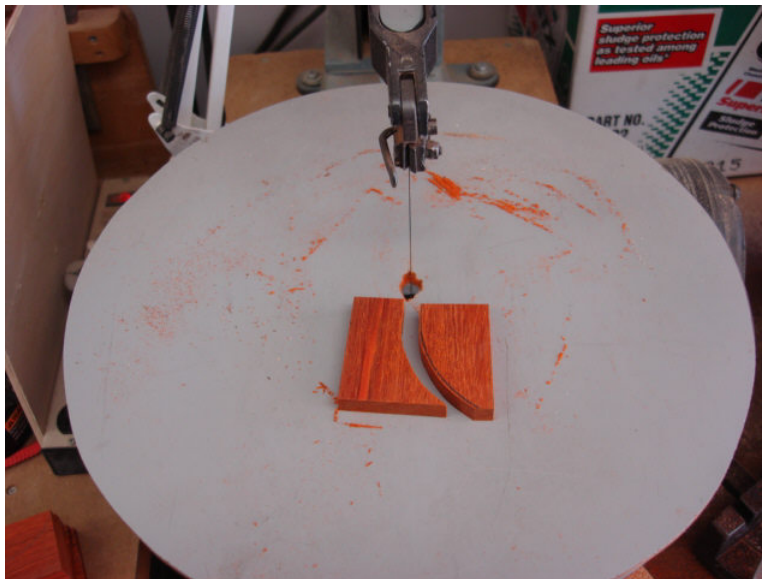
I use $\frac{3}{4}$ " MDF to make four templates that allow me to make the arcs that you see in the design. I need both male and female templates, in two different sizes.

In this bowl, I used 3 different woods, each with a different contrasting color. The woods are:

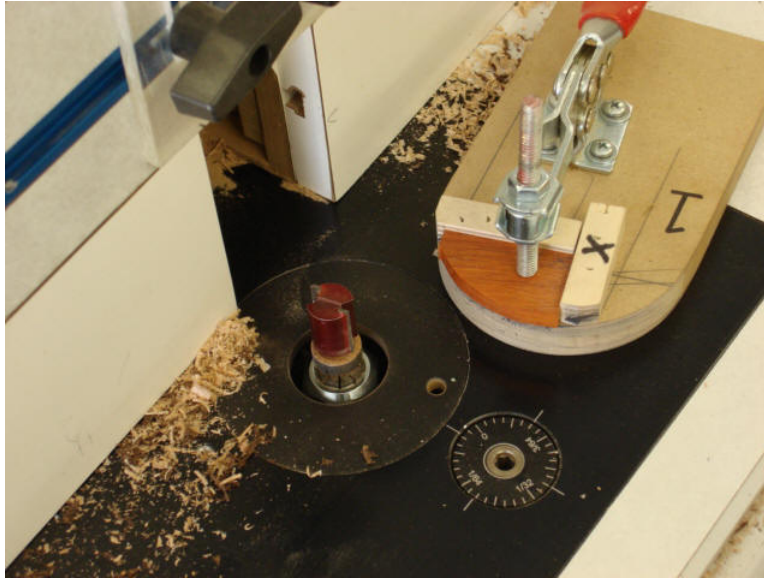
- Lyptus
- Walnut
- Padauk



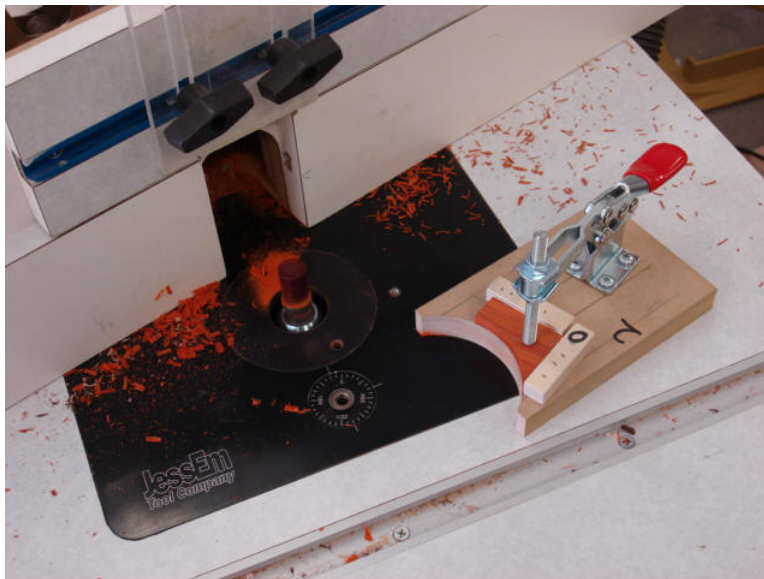
Here are my wood blanks. Each piece has been cut to: 2: x 2: x 3/8". Each stack holds 5 pieces for a total of 30 pieces of each type of wood.



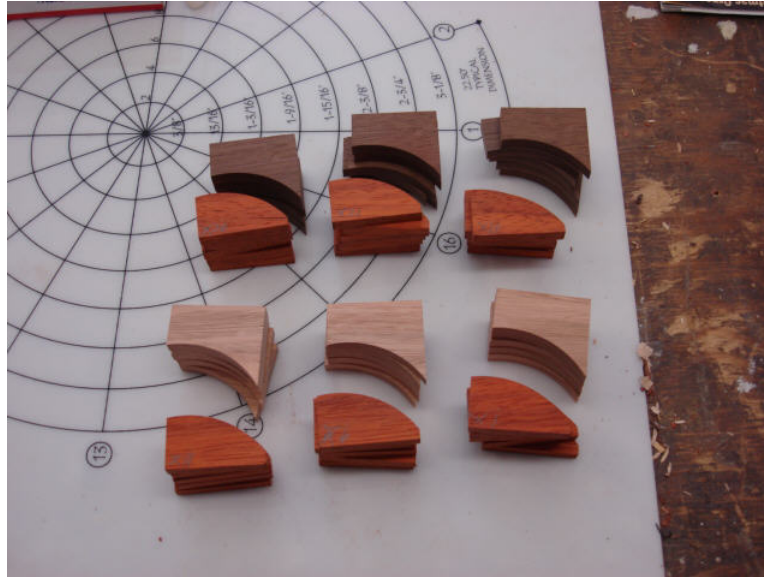
The first step is to draw the first arc's on all the pieces and cut close to them with a scroll saw. Once all the pieces are cut it is time to route the pieces using the template



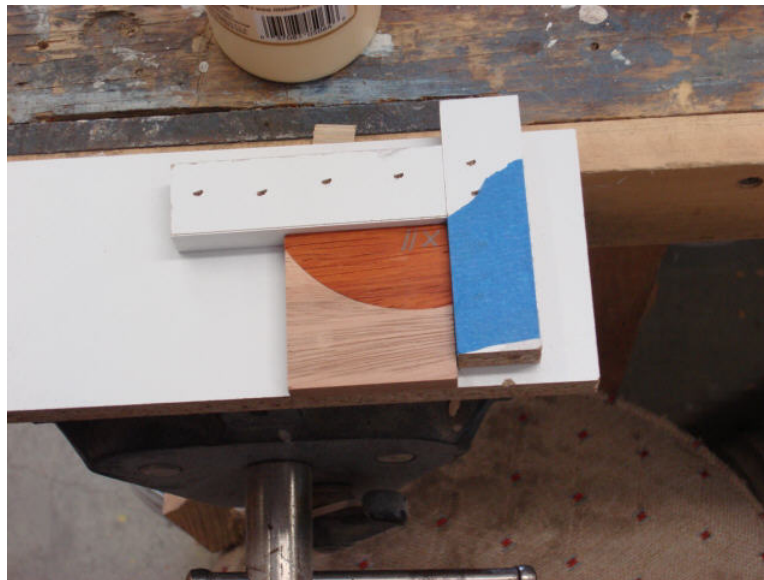
I had created a drawing of my design and it indicated that I needed a 4" diameter arc for the scrolls. This template allows the router to shape the male side of the arc.



This template allows the router to shape the female side of the arc.

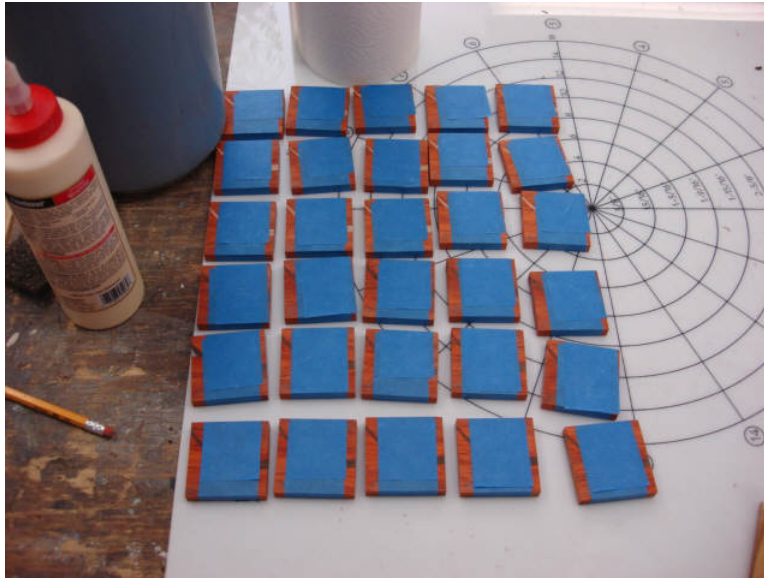


Here are all the pieces after I have lightly sanded all the edges of the arcs to clean up and frayed fibers.

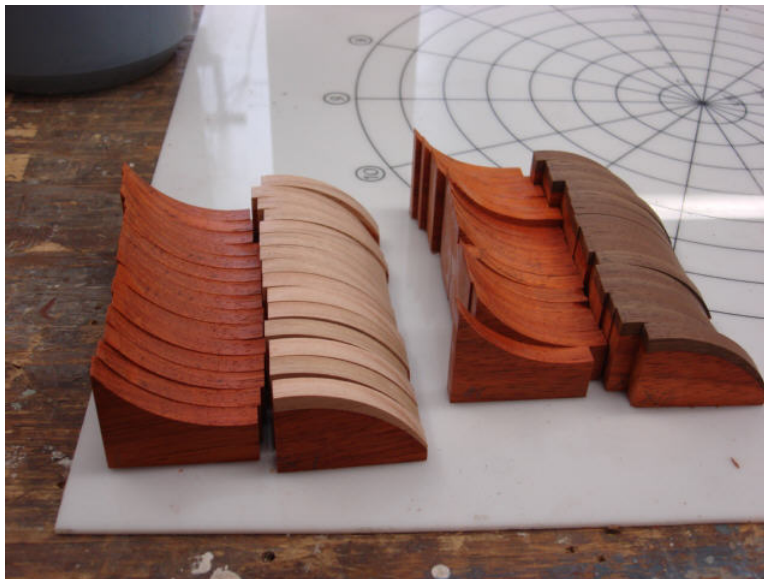


Now I am gluing two pieces together for the first gluing. I will then tape them with blue tape to act as my clamp. The 90-degree form helps me to get a perfect glue job.

I let them sit for about 30 seconds to set before taping them.



All the pieces have now been glued and taped. I allow them to dry before proceeding.



Once the pieces have dried, I cut the pieces on the scroll saw and then shape them using a second set of templates. They are then glued in the same manner as above.

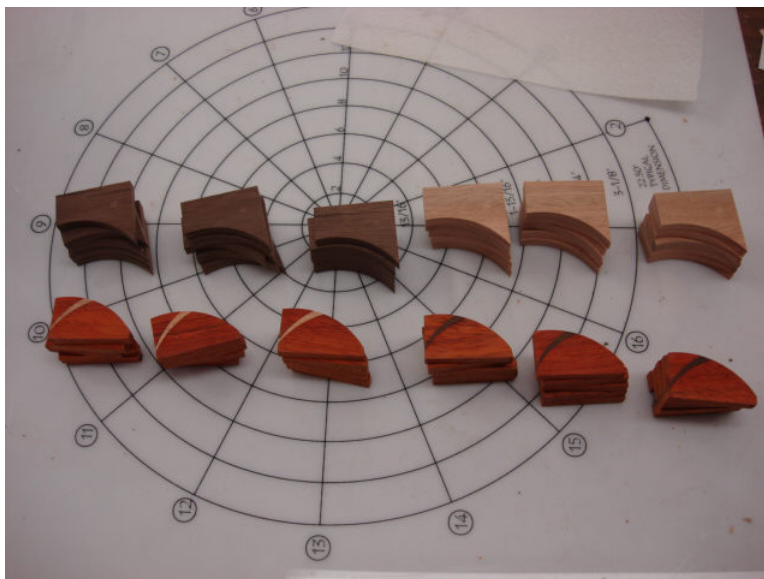
This new set of templates have the supports recessed about $\frac{5}{16}$ " giving a new arc line.

You can see the second and fourth rows now have an extra layer of wood on them.

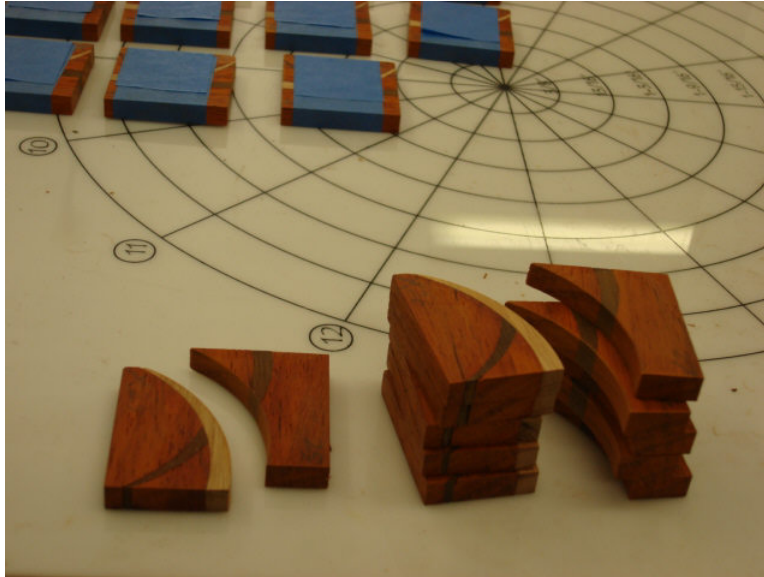


Here are my blanks after the second process.

Now the process starts again but this time, I flip all the pieces over before starting. This way, the arcs now go in the opposite direction.



This photo shows the blanks after the first process.



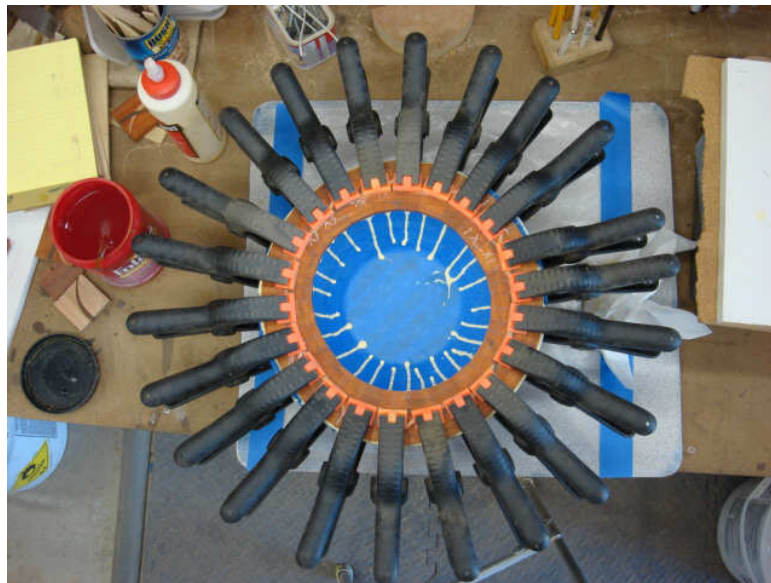
This photo shows the blanks after the second process and ready for the final gluing.



Each blank is now cut with the angles for turning it into the ring for my bowl. Then I glue up pairs, quads and then half rings.



The half rings are assembled, sanded lightly on the ends to adjust for a full ring.



The ring is now being attached to my bowl with clamps.



The final bowl is now finished.