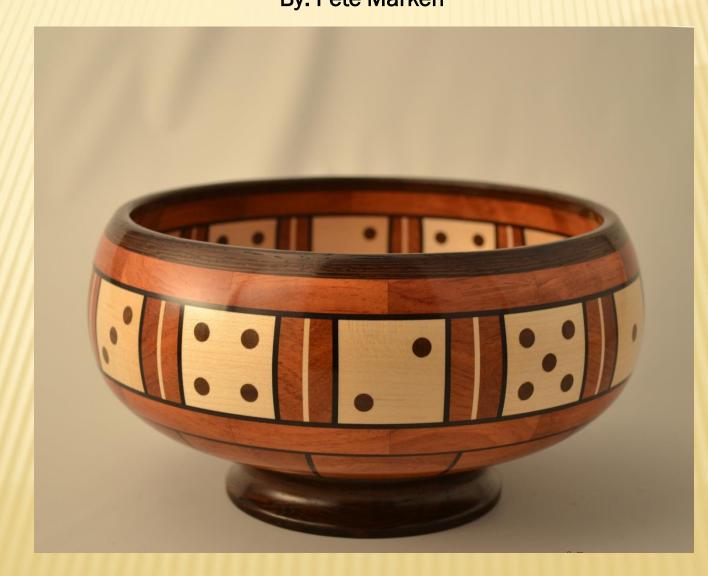
Brief Overview of Segmented Woodturning By: Pete Marken



First Step Board Preparation



- 1. Cut board to desired thickness on the band saw.
- 2. Surface sand board to remove saw marks
- 3. Allow enough thickness for additional sanding later.
- 4. Cut to proper width on the table saw. Width of the board determines wall thickness.

Cutting The Segments



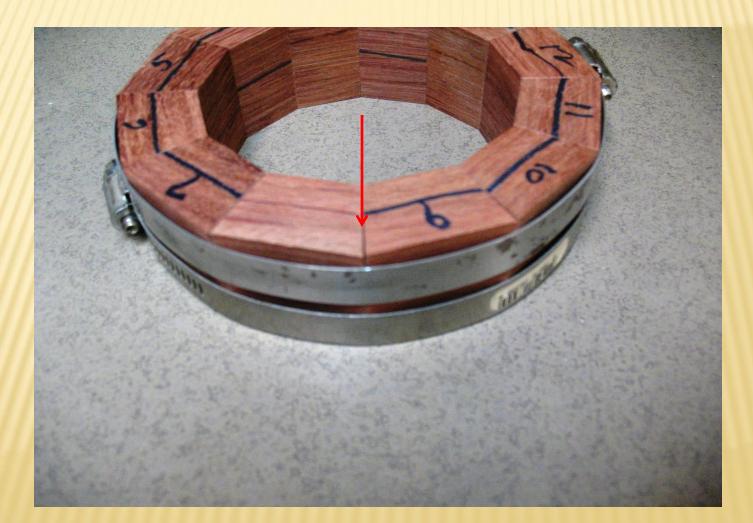


- Segments can be cut on the table saw or miter saw.
- Miter angles must be precise in order for the segments to create an exact polygon.
- Edge length of the segments determines the OD of the ring
- Miter angle is determined by the number of segments.

12 segments = 15 deg.

- 18 segments = 10 deg.
- 24 segments = 7.5 deg.

Miter Angle Off



<u>12 Segments Ready For Gluing</u>



Glue Segments To Form Ring

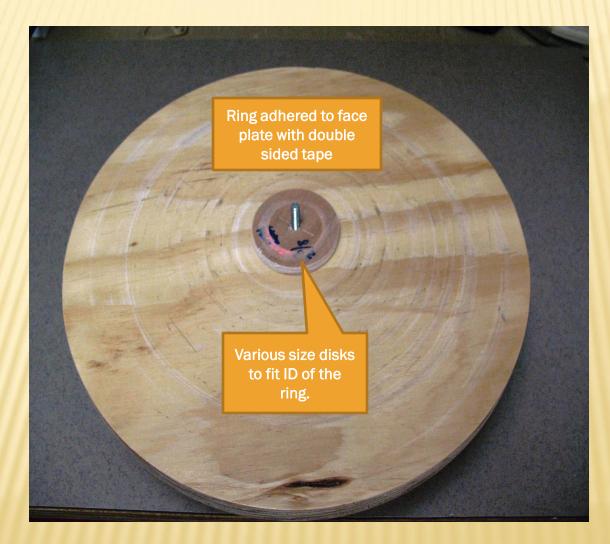


- Lightly sand any fuzz remaining from sawing.
- Thoroughly apply glue to both edges of segment.
- I prefer TiteBond wood glue.
- Use hose clamp to draw all edges together.

Example Of Glued Up Ring



Centering Faceplate To Turn Rings Round



Turn Ring Round



After Turning



Flatten Ring



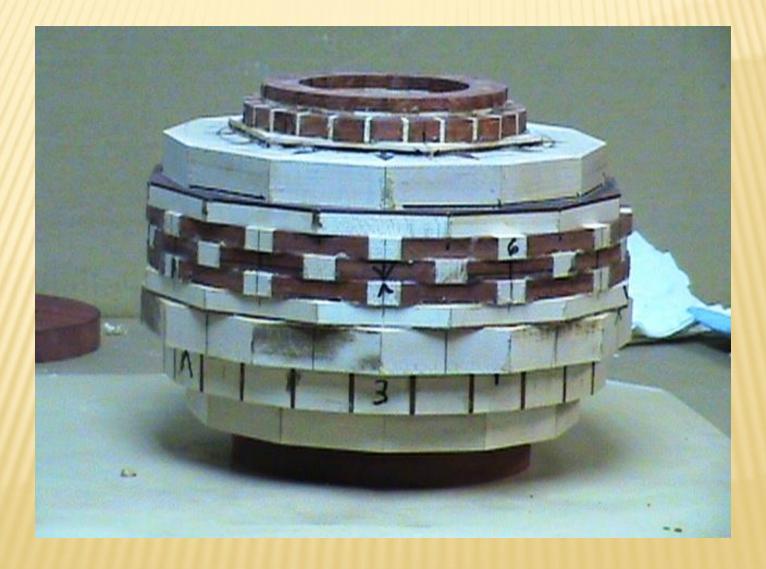
- Flatten ring on the drum sander.
- Take four light passes with the same setting on drum sander.
- Rotate ring 90 deg. After each pass to insure flatness.
- Repeat until final thickness is reached.

Stack And Glue Rings



- Stack and glue rings together
- Rings have to be stacked in proper sequence.
- Glue joint position should alternate to form a brick laying pattern.
- It is much easier to glue one ring at a time.

All Rings Glued Together



Pneumatic Ring Glue Press



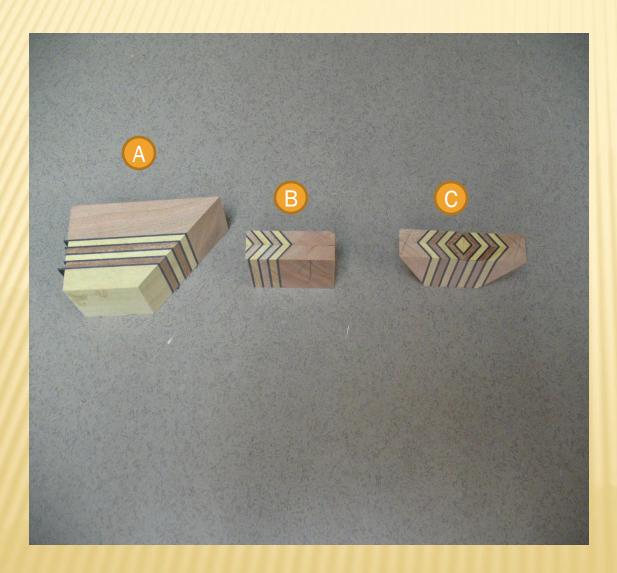
After Turning And Finishing



Example Of Some Basic Designs Segments can be 1 solid piece or made up of many small pieces



Chevron Segments



- This segment design is made up of 44 pieces of wood
- Cut 4 1/4" slices off laminated board A
- Miter angle set at 45 deg.
- Flip and glue 2 pair together as in B
- Then glue the 2 pairs together as in
- Miter cut segment for proper angle determined by number of segments in the ring. This was cut at 30 deg. For 6 segment ring.

Zig Zag Pattern





