

SEGMENTED TURNING BASICS - PART 2

This is an introduction to the basics of ring-segment assemblies – Part two is building and turning your vessel

Click to advance to the next slide

Questions?

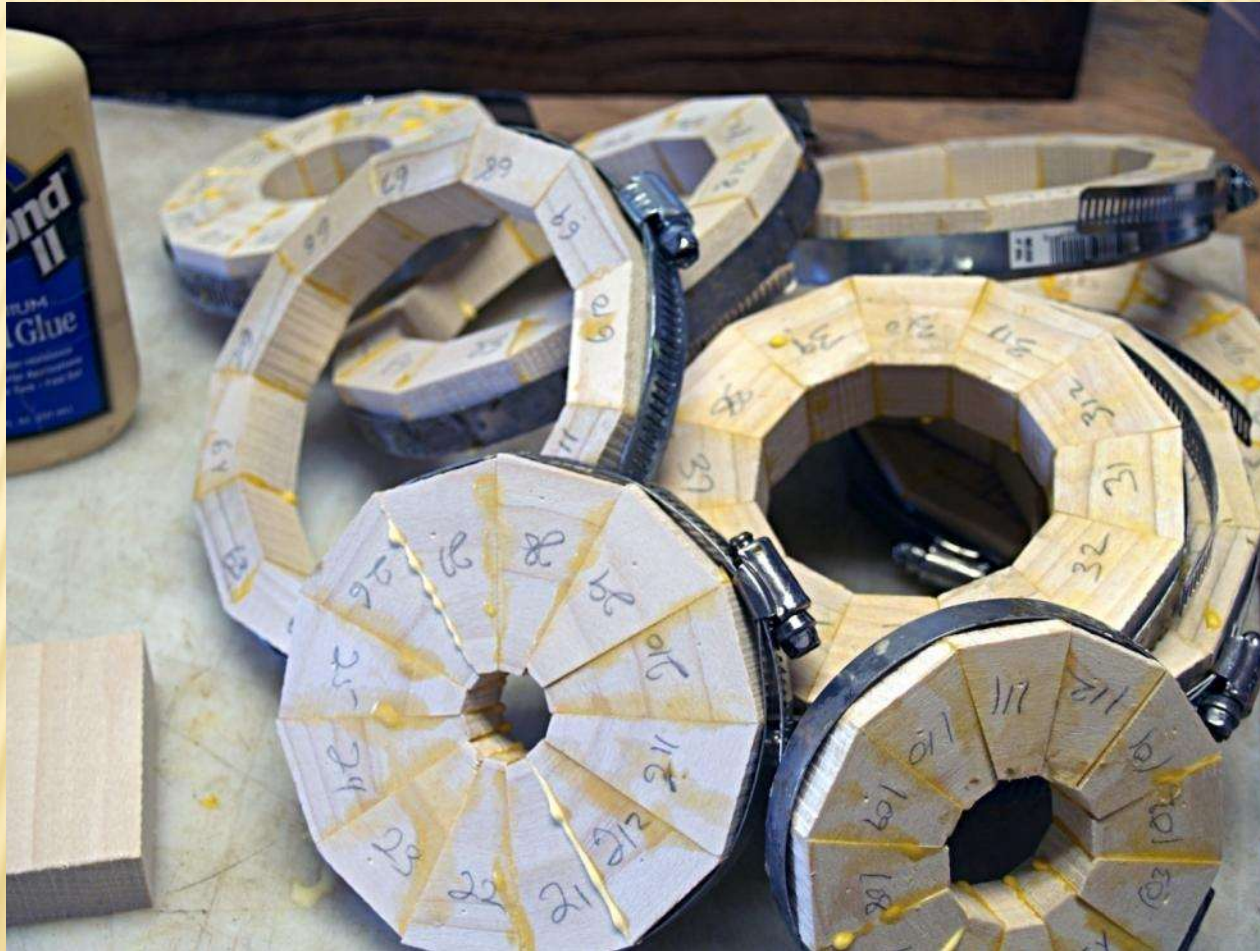
Post them on the forum for the club to answer

E-mail to author for a response:

jlrogers@aol.com



ALL RINGS ARE PREPARED BY YOUR PLAN



NUMBER RING EDGE

We will sand the faces –
so number the edges to
keep all sub assemblies in
order.



BUILD VESSEL ON TWO FACE PLATES

Using faceplates reduces alignment errors and repositioning errors.

Hollow vessels are easily build using two faceplate assemblies.

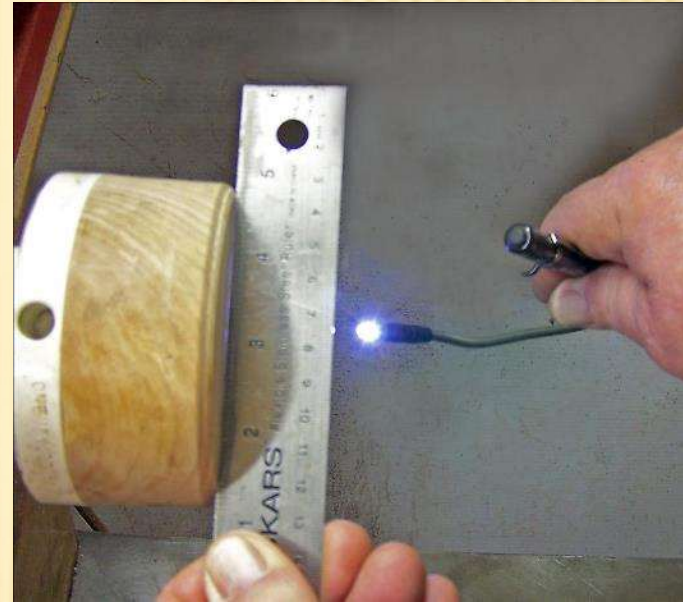


BUILD TWO GLUE BLOCK ASSEMBLIES

Install hardwood, cross grain glue blocks on each faceplate.

Turn each until dead flat.

Check with a straight edge and light.



COMPLETE WITH A SANDING STICK

After flattening, check flatness and sand with a flat 80 grit sanding stick.

You will need to do the same after adding each ring to your assembly.



PREPARE TO INSTALL FIRST RING

Flatten one side on a sanding disc.

Check flatness with a straight edge.



USING A THICKNESS SANDER

If you own a thickness sander, both faces of all rings can be pre-sanded and made flat.

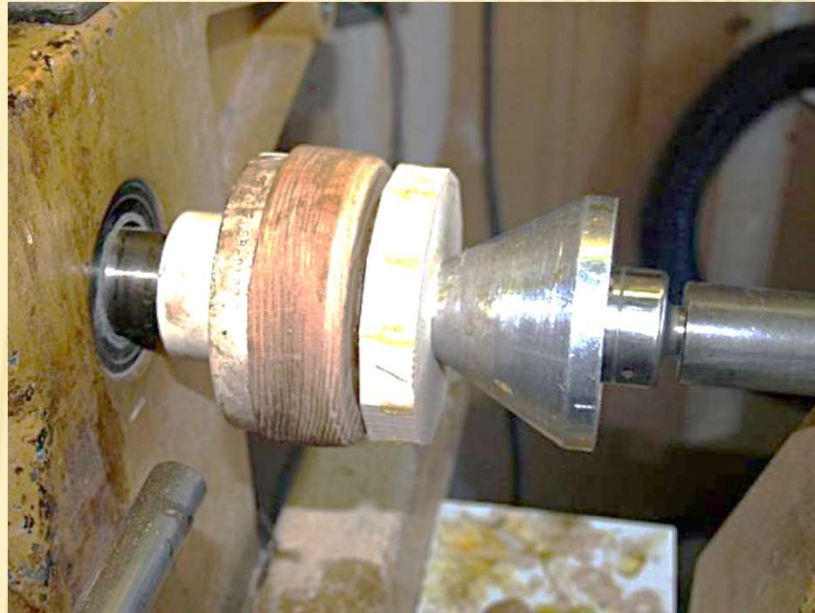
After gluing on a ring they still will need to be checked with a light & straight edge before adding another ring.



GLUE ON FIRST RING

Each ring as added will need to be centered.

A cone in the tailstock is an easy way to start.



ADD SECOND RING

Each ring should be
“brick laid.”

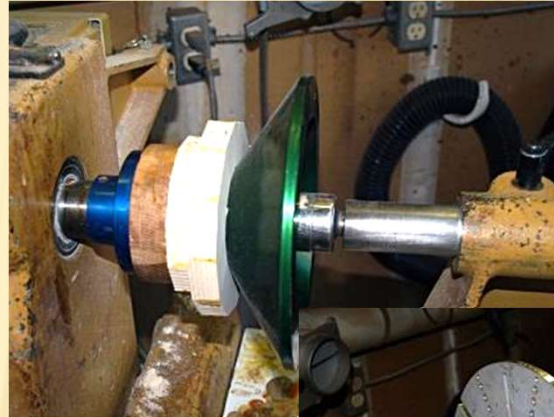
Mark the center of a
segment on the first
layer to use for
alignment of the second
layer.



CENTERING RINGS

As assemblies are built, alignment can be done by many different methods.

Be sure to always center and flatten each ring.



PRESSING GLUE JOINTS

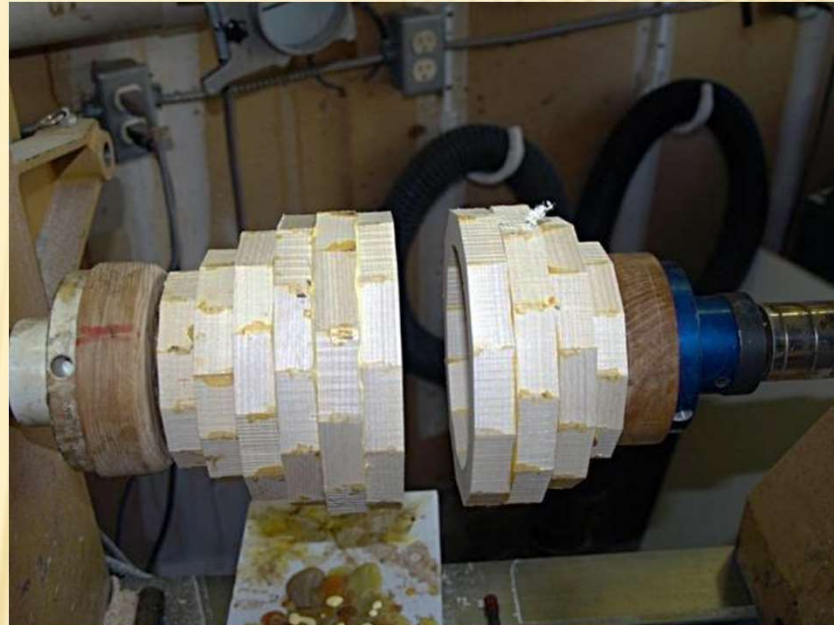
When gluing always allow for squeeze out of some glue.

Hold the assembly square and steady while the glue dries.



BUILD VESSELS IN TWO SECTIONS

Build top & bottom sections to the most vertical section of the shape (easier to glue together later).



TURN THE EXTERIOR FIRST

Flatten each section and clamp together.

Complete the exterior shape to match your drawing.



TURN & SEAL THE INTERIORS

Mount each section on the headstock and complete the interior walls.

Sand and add a seal coat to each section.

Re-flatten the rim preparing to gluing the vessel together.



GLUE TOGETHER

Align the sections carefully.

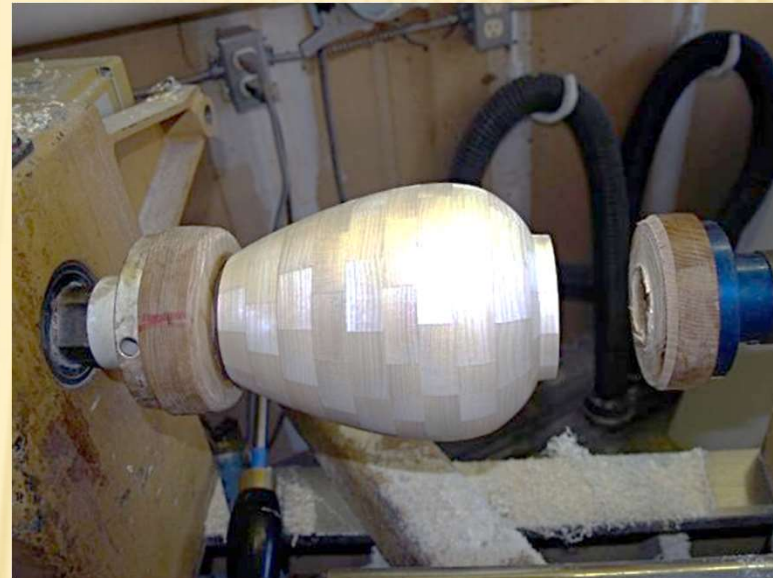
Do NOT wipe away excess glue (it may mar the final finish later).



PART OFF THE TOP FACE PLATE

Re-true the exterior as necessary.

It may be helpful to allow the base to remain a little oversize for additional support.



COMPLETE THE NECK, REDUCE THE BASE

Complete the neck area carefully.

Reduce the base to its final dimension.

Add a parting cut at the bottom of the base.



SEAL EXTERIOR AND BUILD YOUR FINISH



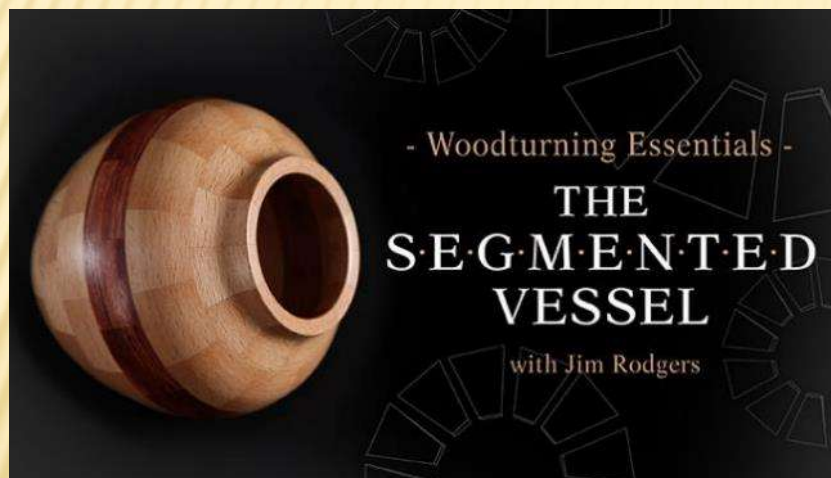
PART OFF



RESOURCES FOR LEARNING

WWW.CRAFTSY.COM

On line video courses on
segmentation with Jim
Rodgers



BOOKS

- ❑ **WOODTURNING WITH RAY ALLEN, RAY ALLEN & DALE NISH, FOX CHAPEL PUBLISHING, 2004**
- ❑ **THE ART OF SEGMENTED WOOD TURNING, MALCOLM TIBBETTS, LINDEN PUBLISHING, 2005**
- ❑ **SEGMENTED TURNING, DENNIS KEELING, THE TAUTON PRESS, 2012**
- ❑ **THE FUNDAMENTALS OF SEGMENTED WOODTURNING, JIM RODGERS, LINDEN PUBLISHING, 2016**

OTHER RESOURCES

- ❑ WWW.JLRODGERS.COM
- ❑ WWW.TURNEDWOOD.COM
- ❑ WWW.SEGMENTEDTURNING.COM
- ❑ WWW.WOODTURNERPRO.COM
- ❑ WWW.SEGEASY.COM