



Tools and Wood for John Beaver's Wave Bowl Demo

Project #1 (Basic Wave Bowl)

5x5x4 Dry Block of Wood - Preferably light in color like Maple, Birch, Ash

5x5x1/8 Thick Veneer - Preferably dark in color like Walnut or Cherry

1/4" Dowel 6" Long

2-4 C-Clamps (4"-5" opening)

Project #2 (Protruding Wave Bowl)

6" roughed and dried face grain bowl with 3/4" thick walls and tenon.

1 6x6x3/4" MDF

1 2"x 6"x 3/4" MDF

1 6x6x1/4" Soft wood (Douglas Fir, Pine, or MDF) Can also be 2 6x6x1/8" Hard Wood

Basic Tool List

Ruler

Egg Beater Hand Drill with 1/8 bit

Electric or Battery Drill

1/4" Drill Bit

Divider / Compass

Awl

Pencils

1" Masking Tape

PVA Glue (Titebond)

Hot Glue Gun & Glue

Sandpaper

1/4" Dowels

Contour Gauge / Profile Gauge

Craftsman Handi-Cut - or similar cutters

Cotton Swabs

Popsicle Sticks

Bowl Cutting Jig Plans can be purchased from my Etsy Shop.

Etsy > johnbeaverdesigns > Instruction

https://www.etsy.com/shop/JohnBeaverDesigns?ref=search_shop_redirect§ion_id=32715463

Non-paperbacked veneer in thicknesses can be purchased at certainlywood.com

STEP-BY-STEP DIRECTIONS FOR DRY WOOD “WAVE” BOWL

Start with square block of wood approximately 5x5x4”

Mark centers top and bottom

Draw bowl shape on end
Align so wave will follow growth rings

Draw Arc
Radius equals diameter of finished bowl
Arc should split a line 1/3 down from top of bowl

Drill Holes for Dowels
Place these so they will be inside the bowl, aligned with the top of Arc

Cut Arc

Prepare veneer

Steam bend veneer and clamp in block

After 2 hours open clamps slightly

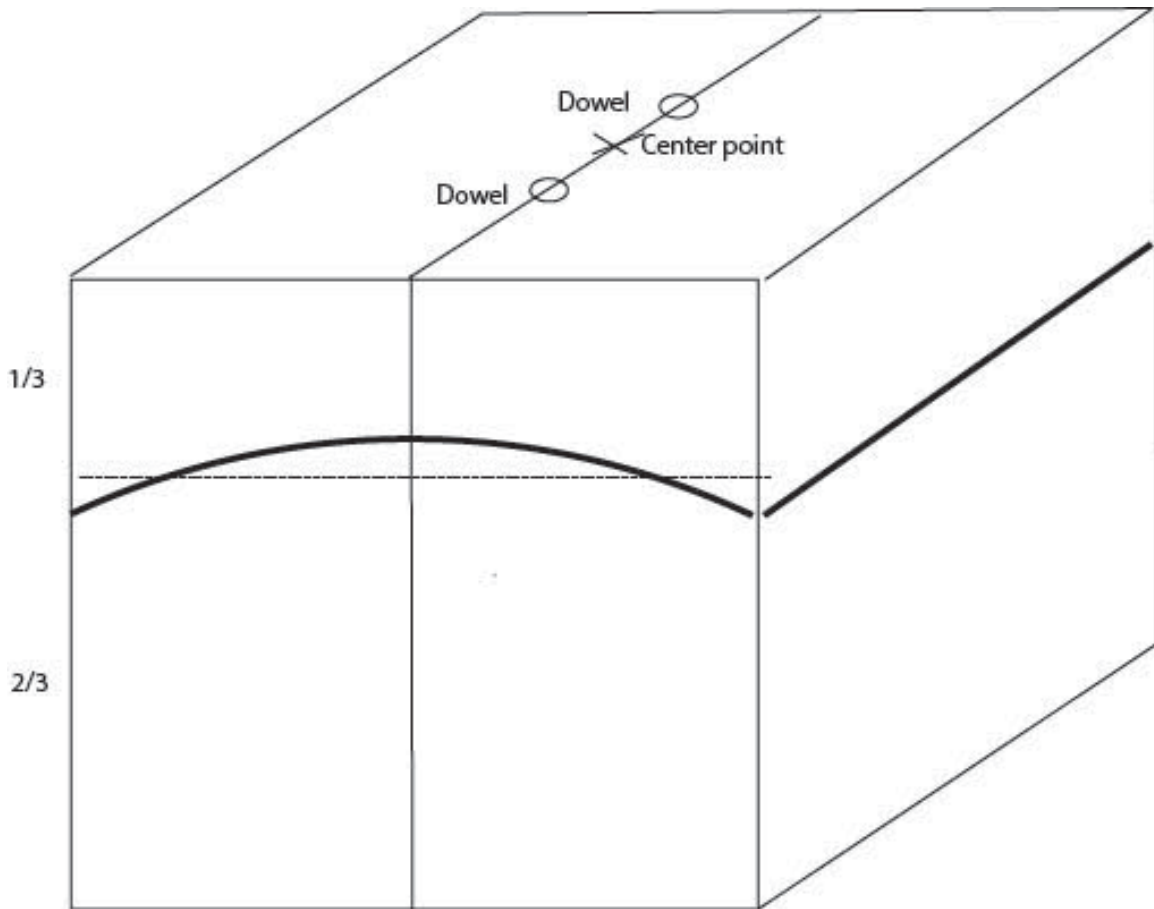
Continue to open clamps until veneer is dry

Drill / Cut holes in veneer

Glue and clamp.

Wait 24 hours

Turn to final shape



Draw arc to split the line 1/3 down from the top of the block
Radius of Arc is equal to the diameter of the vessel.

Place dowels along center line of high point of arc. They should go
about 3/4" past arc line.

The more centered and balanced everything is the better balanced
the final vessel will be.

STEP-BY-STEP DIRECTIONS FOR PROTRUDING “WAVE” BOWL

True-bowl on lathe

- Make sure to square face of bowl

Determine placement of protruding wave

Build and Install Alignment blocks

- Using Profile Gauge measure inside profile of bowl

- Transfer profile to small piece of MDF

- Cut MDF

- Confirm accurate fit of MDF

- Trace second alignment block from first alignment block

- Using Hot Glue, attach alignment blocks aligned with high point of wave

- Drill holes in alignment blocks for dowels.

- Mark one alignment block and dowel.

Mount bowl in Wave Cutting Jig

- Measure placement of first wave cut

- Mark masking tape with edge of bowl

- Mark masking tape with first wave cut position

- Mark masking tape with second wave cut position (thickness of wave)

- Align masking tape with registration mark on Wave Cutting Jig

- Cut wave with Jig

Make spacer equal to thickness of protruding wave (use soft wood for this)

- Plane wood to correct thickness

- Cut circle slightly larger than bowl diameter

- Drill holes for dowels (make these slightly larger than the dowel size for easier fitting)

Make top clamping plate

- 3/4 MDF about same diameter as top of bowl.

Mount bowl on lathe

- Test fit all pieces

- Steam bend spacer

- Mount all pieces on lathe

Drill pilot holes for depth

Turn bowl to bottom of pilot holes

Sand bowl

Hand sand and decorate protruding wave

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Glue Wave to bottom of bowl - let dry
Glue wave to top of bowl - let dry 24 hours
Turn inside of bowl to final thickness.