



QUICK FACTS

Level: Beginner/Intermediate - some basic knowledge of general bowl cutting techniques is preferable.

Lessons Learnt:
Basic Bowl Turning
Dowel and Bead Forming
Intro to Basic Glue Block
Technique.

YOU'LL NEED

1. Chisels Required:
Bowl Gouge
(depth of gouge will determine depth of bowl)

2. Wood: dense, harder woods (must be hard or softer wood will break corners off)

Wood blank must be cut to square (ie use band saw to cut your wood blank)

3. Equipment needed:
NOVA G3 Chuck with 50mm Jaws and Woodworm Screw (inc with standard chuck)

NOVA 10 in 1 Workshop Gauge

Hot Glue Gun

Drill Chuck.

Optional: NOVA Accessory Pin Jaws

SAFETY

Always read & understand the instruction manual for any product or equipment before using.

Always use safe practices & appropriate safety equipment.

Only use genuine Teknatool/NOVA parts and products.

A fun little project that can be easily customised to make a unique and eye catching piece!



This project kindly supplied by Bill Blanken



STAGE 1 - Set Up



1. Using a Woodworm Screw, a blank is attached to a NOVA G3 chuck.



2. The centre of the bowl is found easily using the NOVA 10 in 1 Gauge. The bowl blank is turned completely clean without a spigot.

STAGE 2 - Forming a recess for 50mm Jaw Engagement



3. For quick grooves in the bowl use the Angle Checker function on the gauge and check the angle of the parting blade.



NOVA PROJECT MAKING A 3 LEGGED BOWL



4. Also as a quick check, use the bowl chisel gauge function to check the angle of your chisel.



Turning the holding spigot in the bowl blank



5. There are different ways to turn the bowl. In this project, Bill used the parting blade to form the groove in the bowl. To remove the remaining material a bowl gouge was used to face off the excess wooden stock.



6. Using the Dovetail Function in the gauge, check the recess of the bowl.



Bill using his NOVA 10 in 1 Workshop Gauge



7. The 50mm Jaws will now lock in and secure the wooden work piece.

STAGE 3 - Bowl Turning (Outside)



8. Turn the bowl to your desired shape.



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9. Create a 20mm+/-5mm lip on the bowl. This will serve as the leg supports of the bowl.

STAGE 4 - Bowl Turning (Glue Block Development Skills)



10. Take a small solid block, preferably flat on both sides, and using your lathes tailstock, compress the block up against the workpiece.

(This block will be glued to the workpiece using a glue gun - hence the name glue block)



11. Using a hot glue gun, apply the glue and connect the block to the workpiece. For safety reasons ensure that the circumference of both the glue block and the workpiece have sufficient contact glue.

Time for a quick coffee break while the glue sets (about 15-20mins)



12. Once the glue sets, turn the glue blocks outer edge and create a dovetail for the 50mm jaws internal angle.

STAGE 5 - Bowl Turning (Internal)



13. Take the NOVA 10 in 1 Workshop Gauge and check the external diameter of the workpiece.



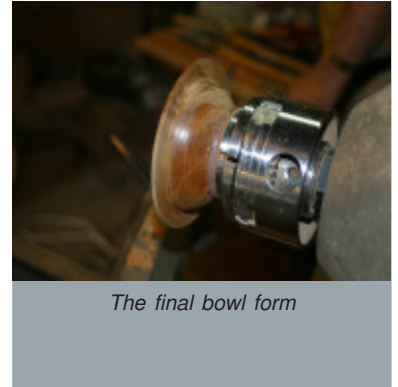
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14. Disengage the workpiece from the 50mm jaws and turn the piece over. Engage the glue block end to the 50mm jaws.



15. Now turn the inner bowl.



STAGE 6 - Dowel Formation



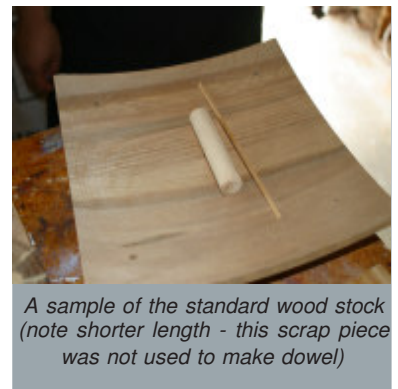
16. Using whatever scrap wood you have to make dowels (a light, clean & hard white wood is good for this) mark the centre on your stock piece for your desired dowel using the centre finder.



17. Using standard wood stock cut to the desired length of your dowel, insert standard wood stock into the NOVA Pin Jaws, and turn the wood to a dowel size of 5mm/.20 inch diameter. Check the diameter of the dowel by inserting into the dowel gauge function in the NOVA workshop gauge.

Turn 4-5 identical pieces of dowel.

This will serve as the internal connection to the legs.





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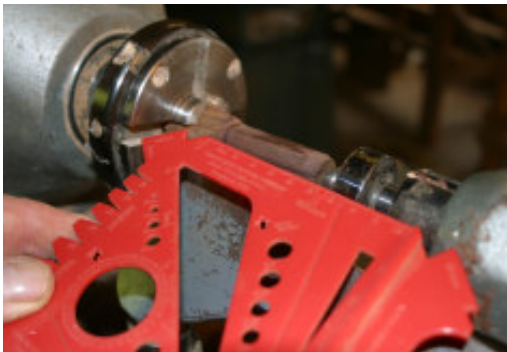


STAGE 7 - Leg Formation



18. Using scrap wood, repeat step 16 and mark the centre of the wood.

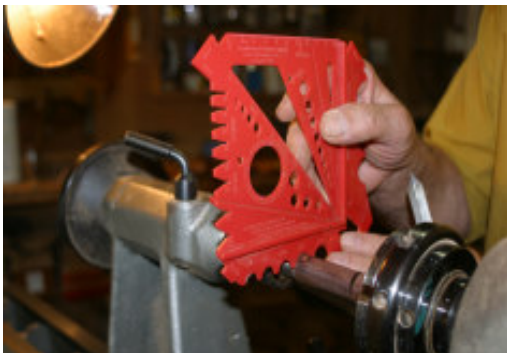
Repeat step 17 and turn the wood into a cylinder.



19. Using the ruler function of the NOVA Workshop Gauge, mark on the wood where you would like to see the graduated diameters. Turn.



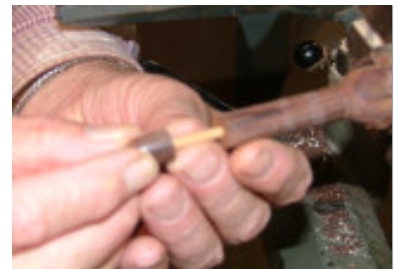
Turning the legs



20. Use the diameter gauge function on your NOVA workshop gauge to check the diameters.



21. Once the legs are turned, drill the legs to your preferred depth, using a drill bit the same size as your dowel.



Parting Off the Leg



22. Part off the legs using a parting tool.

23. Repeat steps 19-22 until you have 6 matching legs.



Parting Off the Leg



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STAGE 8 - Leg Assembly



24. Using one of the dowel pieces and one of the leg pieces, attach the dowel to the leg and adjust the length of the dowels so that all three legs and dowels sets are equal. There is no need to glue the dowel into the leg, it should be snug fit.

STAGE 9 - Final Assembly



25. Using a protractor function on the NOVA workshop gauge, mark the bowls in 3 separate intervals, 120 degrees each.

26. Drill three 5mm/.20" inch holes for the leg attachment.

27. Remove the glue block using Turpentine, sand, varnish and add any necessary finishing touches to the bowl and legs.

28. Assemble the bottom leg pieces, then push the top leg pieces on the piece of dowel sticking out from the bowl.

Note: you may wish to change the design of the top leg to customise the piece.

29. Congratulations! Now you're successfully completed your 3 legged bowl!



This project was made possible by the NOVA 10 in 1 Workshop Gauge. Bill used 7 of the different functions of the gauge in this project. This gauge is available wherever NOVA is sold, or can be purchased online at www.teknatool.com or www.woodcraft.com



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