



QUICK FACTS

Level: Beginner/Intermediate
- some basic knowledge of general spindle turning techniques is preferable.

Time: Around 30 mins

YOU'LL NEED

1. Chisels Required:
Spindle Gouge
Sharp Scaper

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:
Any Nova Chuck with 50mm Jaws
NOVA Soft Jaw
NOVA Live Center System

Drill and drill bit

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.



With NOVA Soft Jaw, even beginners can easily make this Auctioneers Gavel without any marks on the wood.

This project kindly supplied by Dave Harmes

Stage 1 - Making the handle



1. Check headstock to tailstock alignment using 2 Morse Taper AcruLine System. Then mount a NOVA chuck with 50mm jaws.



2. Secure 35mm square stock between the chuck and NOVA Live Centre System using the 60 degree point.



3. Turn to a 35mm diameter cylinder using a 19mm spindle gouge.



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4. Using calipers & a parting tool create a series of grooves at 30mm diameter then proceed to turn a cylinder 30mm diameter.



5. Mark out on the cylinder the locations of spigot, grooves, beads etc. to your design.



6. In this instance the spigot is required to be 16mm diameter, size both end of spigot using calipers & a parting tool, then trim the rest of the spigot using 19mm spindle gouge.



7. Continue to turn your handle to your design



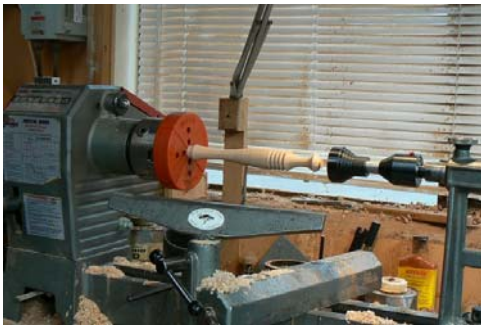
8. Turn the end of the handle, leaving approx. 10mm dia spigot.



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9. Saw through the spigot (whilst the lathe is stationary) leaving 2 to 3mm of waste material on the end of the handle.



10. Remove the 60 degree point from the 2MT center & replace with the stepped cone.

Remove the chuck with the 50mm jaws and replace with a chuck complete with NOVA Soft Jaws.

Locate the spigot of the handle loosely in the soft jaws, bring up the stepped cone to center the handle. Tighten the chuck and move the tailstock away.



11. The handle will be held quite firmly but will still require a little support when being worked. Using your left hand to steady the handle & your right hand using the skew chisel turn off the rest of the spigot.



12. Sand and finish.

Stage 2 - Forming the Soft Jaws for this project

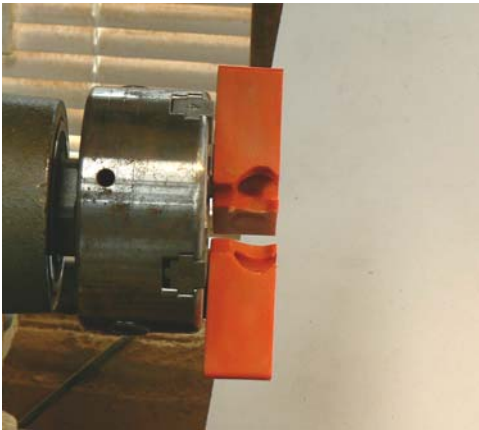


13. Determine the diameter of piece to be held. Allowance must be made to open & close the "Soft Jaws" around the article to be held.

To achieve the correct diameter for this project, we had to insert wooden spacers between jaws and tighten them, whilst turning the contoured opening required, having the spacers stabilizes the jaws & also reduces the chances of having a dig in.



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14. Using scrapers with very keen cutting edges form the contour required to successfully hold the head of the Gavel. See close up of the contoured scraper used to form the internal contour.

See close up with 2 jaws removed to show contour formed to suit this project.

Stage 3 - Making the Head for the Gavel



15. Drill a hole in the center of the blank (16mm diameter to suit spigot on handle)

Mount blank between centers using a spur drive & The Live center System fitted with the cup center



16. Turn to a cylinder 48mm diameter using 19mm spindle gouge



17. Using calipers & parting tool form grooves to 45mm diameter, turn rest of cylinder to 45mm diameter. Mark out locations of coves, landings, beads etc. to your design.



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18. Using calipers & parting tool mark turn land diameter's then proceed to turn the head to your own design.

Sand to required finish



19. Reduce spigots between head & waste material to approx. 8mm diameter then cut off with a saw (whilst the lathe stationary).



20. Mount chuck with custom formed Soft Jaws attached & fit gavel head (if your jaws are formed correctly your gavel head should be a perfectly aligned. You can now clean off the remains of the spigot, sand the end, remove & reverse & repeat the other end.



21. Glue the handle to the head and finish with your favorite brew.

Well done! You now have a nice looking Auctioneers Gavel. You can mark the soft jaws for future re-fitting to the chuck.



The NOVA Soft Jaw set helps you avoid the jaw mark on an elaborate woodturning piece like this. It also gives you the opportunity to make a special jaw set to fit your woodturning needs!

This Soft Jaw set is available wherever NOVA is sold, or can be purchased online at: www.teknatool.com or www.woodcraft.com

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