

Offset Turning

1. Mark center of workpiece
2. Scribe the Quarters
3. Drill recess to fit jaws
4. Turn a tightly fitting disc (plug) to fit recess
5. Push disc into recess
6. Mark offset for second recess
7. Drill second recess, clamping down first plug to prevent it from spinning out
8. Note: It is important the depths of both recesses are the same
9. Mount workpiece in jaws in original recess. Use half moon plug to fill void in second recess
10. Note: Ensure one of the jaws is located evenly across the edge of the plug to force it into the recess
11. True up the blank
12. Turn a recess to fit your jaws
13. Turn blank over and mount on new recess
14. Mark a circular line $3/8$ " outside of offset recess
15. Turn initial bowl or patten shape to line
16. Turn blank over and mount on central recess using plug in offset recess
17. Turn a small diameter bowl
18. Turn a narrow defining bead around the bowl
19. Sand and finish bead and bowl
20. Remove workpiece from chuck and swap position of plug to enable offset mounting
21. Mount workpiece in offset recess
22. Check lathe speed is lower to prevent vibration
23. Manually rotate workpiece and draw circle to represent location of offset bead
24. Turn an offset bead using circle as guide
25. Sand and finish the cut surface
26. Remove workpiece from chuck.
27. Cut plastic washer in half and use as shim for second offset
28. Glue shim in offset recess directly and evenly under area where you wish to cut the grooves
29. Mount the workpiece in the chuck using the offset recess with the shim
30. Adjust the tool rest position to account for irregular rotation
31. Cut a series of grooves on workpiece
32. Sand if needed
33. Remove from chuck
34. Mount on vacuum chuck, Cole jaws, or foam faced jam chuck to hold workpiece to remove two mounting recesses
35. Turn away recesses and reshape bottom of workpiece if you wish
36. Sand and finish bottom