

Lidded Pot in Ash with Aluminium Finial



Cutting List

3" (75mm) square x 6" (150mm) Ash spindle

50mm length of 20mm aluminium bar 6063T6 or 6083T6

https://www.aalco.co.uk/datasheets/Aluminium-Alloy-6063-T6-Extrusions_158.ashx

https://www.aalco.co.uk/datasheets/Aluminium-Alloy-6082-T6-Extrusions_338.ashx

Particular Tools

O'Donnell Jaws for SK114 with narrow inserts or use pin jaws.

Molyslip MCC cutting compound

Solvol chrome polish or similar

3/8" spindle gouge, parting tool, narrow parting tool – dedicated for aluminium turning

Optional collet chuck set – [MT2 ER25 set](#)

Airbrush & dark spirit dye

Acrylic sanding sealer

Liming Wax

Lemon Oil

Woodwax

Process

1. Mark centre points and true to a cylinder
2. Turn tenon on headstock end
3. Mount in chuck
4. Turn top of lid allowing for depth of the finial tenon
5. Drill lid (7.5mm bit) to depth of 7mm for finial
6. Undercut the lid
7. Turn the outer pot profile
8. Reduce the lid diameter to fit within the top of the pot
(65mm)
9. Parting tool cut to denote foot and give run off gap for wire
brushing
10. Sand pot and lid to 320 grit
11. Use brass brush to open grain
12. Sand 400 & 600 grit
13. Colour with spirit dye – airbrush
 - a. Leave to dry
 - b. Apply spray coat of acrylic sanding sealer and dry
 - c. Lime wax pot and lid and allow to dry

(While the liming wax dries you can turn the finial)

14. Mount the O'Donnell chuck and aluminium bar
15. Turn tenon and undercut base of finial. Tenon is 7.5mm diameter, min 6mm in length
16. Mount into collet chuck – use draw bar.
17. Turn finial
18. Refit finial in collet chuck with washer spacer.
19. Sand and polish finial

(Back to the pot)

20. Clean off liming wax with lemon oil
21. Wax polish lid and pot
22. Part off lid
23. Finish underside of lid in jam / grip chuck
24. Depth drill pot with 13mm bit
25. Hollow out with ring tool – allow for lip
26. Sand inside and wax finish
27. Fit lid and shape fall into pot, sand and wax finish
28. Part off the pot from the chuck – use toe of skew
29. Sand or jam chuck to finish base – wax finish
30. Fix finial to lid using medium CA glue