

## Turning a Wig Stand & 3D Printing

Picture #1 shows the Walnut Wig Stand I turned. It is finish with one coat of sealer and one coat of slow turn polyurethane. Picture #2 shows the piece unassembled. Notice the use of 3D printed threaded inserts. The 3D printed female insert in the top was glued with epoxy and left to dry overnight. The thread used was 1" x 8 tpi, so the final turning on the top was done using the threaded insert mounted as show in picture #3. The base could be turned the same way, but I used a reverse tenon on the bottom to hold the base for turning. Picture #4 shows the inserts.



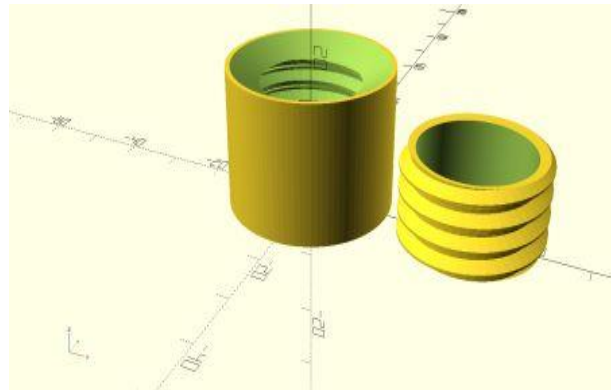
Picture #1 Wig stand.



Picture #2 Wig stand disassembled.



Picture #3 Top of wig stand being turned.



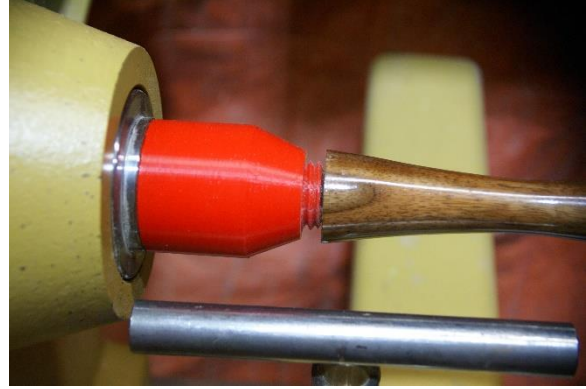
Picture #4 The inserts.

The files used to design and print the inserts can be found on Thingiverse using the URL:  
<https://www.thingiverse.com/thing:4222674>

I 3D printed some additional pieces to assist in the turning and finishing. Pictures #5-7 shows how I held the spindle while adjusting the ends to match the top and base. Picture #8 shows how the spindle was held on my slow turner for finishing.



Picture #5 Adjusting the top of Spindle



Picture #6 Headstock Adapter



Picture #7 Tailstock adapter



Picture #8 Spindle attached to Slow Turner