

MILLING THE CENTER POST

1. To begin, square your stock to make the setup and milling much easier.
2. Next, find the center of your stock by making intersecting lines from corner to corner.
3. Use a circle template or protractor to draw the diameter of the center post if you plan to turn it on a lathe. This will help to ensure the proper bit height adjustment as described in step 10 below.
4. Mark the center of one of the post faces. (This will be used to adjust the router table fence). You should only need to mark one face if you have properly squared your stock.
5. Since the Candle Stand bit removes a large amount of material, it is recommended that you use a 1/2" straight bit or 1/2" spiral upcut bit to clear out some of the material first.
6. Insert the 1/2" bit into your router table and adjust the fence so that the centerline on your stock is set with the centerline on your router bit.
7. Make sure you mount a stop block on your router table or fence to control the length of the cut. Adjust this cut according to the height of your table legs where they meet the center post.
8. Adjust the bit height and make enough passes to remove material up to 3/8" cut height for #7687 or 5/8" for #7688. (Candle Stand bit will cut up a 3/8" high dovetail for #7687 or 5/8" for #7688 and up to 3/8" depth straight cut for #7687 or 1/4" for #7688.)
9. Carefully, rout all four sides of the center post.



10. Switch to the Candle Stand bit, but leave the fence and stop blocks in the same position. Adjust the bit height so that you cut the dovetail and enough of the straight cutter to mortise the leg into the center post by at least 1/16".
11. Once again rout all four sides of your center post.
12. You may choose to use a 3/8" Roundover bit to radius the legs to fit the radius cut by the Candle Stand bit. If you choose not to do so and want to leave a square edge on your legs, you must use a chisel to square the corners in the center post.
13. If you desire a turned center post, you may now turn the center post on a lathe.

MILLING THE LEGS

1. To create a very tight and secure joint, a dovetail must be cut into the legs to mate with the center post.
2. Lower the Candle Stand bit so just the 3/8" dovetail is exposed for #7687 or 5/8" dovetail for #7688.
3. Move your fence forward exposing just the angled portion of the dovetail section of the Candle Stand bit.
4. Run a test piece on both sides and check the fit. Adjust the fence as needed to acquire a proper fit.
5. Run all four legs on both sides.
6. Cut approximately 1/2" of **just the dovetail** off the top and legs.
7. Assemble legs and center post using wood glue. Install the legs into the center post by sliding the dovetails on the legs into the dovetail sockets on the center post.