



# Table Lamp

**Materials:**

- (2) 2" x 4" x 17" - Stand
- (1) 6" x 6" x 1" - Base

**Router Bits:**

- 1" Classic Plunge
- 3/4" Core Box
- 1 1/2" Surface Planning

**Techniques:**

- Indexing

**Preparation:** Use a 3/4" core box bit to mill a groove for the electrical cord into the 2 pieces of 2" x 4" x 17" stock. Leave a 1" space on the bottom and a 2" space on the top. Glue these 2 pieces together to create a 4" x 4" x 17" workpiece. Use your table saw to cut the corners off of the stock. Mount an index hub to a piece of 1" thick stock approximately 4" square. This piece will serve as a waste block. Attach the workpiece to the waste block with double-sided tape and mount into the machine.

**Machine Setup:** Use the 1/2" gear pitch with a surface planning bit.

**STEP ONE:** Use the 1 1/2" surface planning bit to mill the stock to round (see *Owner's Manual: Milling Stock to Round*).

**STEP TWO:** With the 1" classic plunge bit mill the bottom, center, and top beads. Your stops will be set at 3/4" on the right and 1 3/4" on the left for the bottom bead. The middle bead stops are set at 4 3/4" and 5 3/4", and the top bead stops are 17 1/4" and 18 1/4". The top bead should be milled approximately 1/4" smaller than the bottom and middle beads.

**STEP THREE:** Use the 1 1/2" surface planning bit to mill the long (11 1/2") center section down to the diameter approximately 1/16" smaller than the cove section of the classic plunge beads that were milled in step 2. Set the stops at 6 1/2" on the right and 16 1/2" on the left.

**STEP FOUR:** To add a taper on the lamp, drop the rails on the headstock end 5 holes (*Models 1000 and 1500 only*). This will give you a 1/2" diameter difference over a 6" taper. (NOTE: On the Model 600L you can create a taper cutting from the side using the contour follower technique. see *Owners Manual: Using the Contour Follower*).



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**STEP FOUR:** With the 3/4" core box bit and the 24 position index plate, mill 12 flutes onto the center section of the lamp. (Use every other hole on the indexing plate)

**STEP FIVE:** On the 2 1/2" section that is round, use the surface planing bit with 24 positions to mill the facets on the side.