



Queen Anne Hall Table



Materials:

- (1) 18" x 36" x 3/4" - Top
- (4) 3" x 3" x 32" - Legs
- (2) 18" x 36" x 3/4" - Side rails
- (2) 3" x 3" x 36" - End rails

Router Bits:

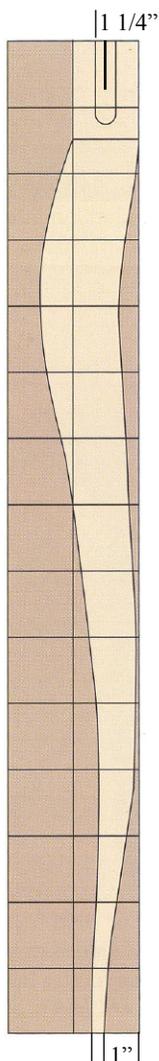
1" 2-flute straight cutter

Techniques:

Flat Stock Milling
Contour Follower

Figure A - Leg Pattern:

2" graph squares



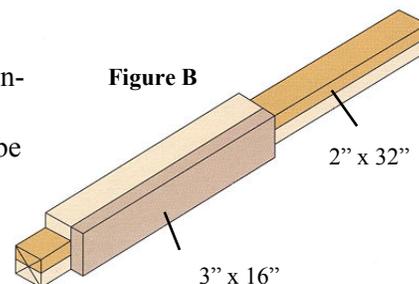
Preparation: Create two templates as shown in figure A. These templates should reflect the interior and exterior shapes of the contoured leg. Glue up the legs using 1" stock per figure B. Because of the curved nature of the legs it is not necessary that the stock be glued up end to end. Use the band saw to rough cut the stock as shown on the template.

Machine Setup: Secure the stylus in the center of the slotted hole on the template follower plate. This will allow room for minor adjustments should it be necessary. You will need the template mounting brackets positioned along the side of the workpiece. Mount the exterior template to the brackets. Before securing the template to the mounting brackets, check to make sure the template is parallel with the outside rail of the machine. You will also want to position the template so that the highest point of the profile against the stylus will allow the router bit to reach the workpiece. Set the plunge of the router so that the bit extends past the workpiece. Position the stops along the x-axis just past the end of the template.

STEP ONE: Use a 2-flute straight cutter to mill several passes over the exterior profile of the legs using the contour follower technique (see *Owners Manual: Use the Contour Follower*). Do not remove large amounts of material when milling to a finished design with deep valleys. Each leg has 2 exterior sides and 2 interior sides. After you have completed milling one of the outside profiles, index the workpiece 90 degrees (6 holes when using the 24 position index plate), and mill the second outside profile.

STEP TWO: Round together the two outside profiles by milling the outside curved corners in 6 passes at 15 degree intervals using the standard 24 position indexing plate. You will be milling the four positions between the two outside edges. (see Fig. C) (NOTE: The 36 position index plate can be used, giving you 10 passes at 9 degree intervals, likewise the 48 position index plate can be used, giving you 12 passes at 7.5 degree intervals). This technique will give you small flat surfaces that will need to be sanded together to form a rounded surface on the outside corner of each leg.

Figure B





Queen Anne Hall Table

STEP THREE: Repeat this procedure on all four table legs.

STEP FOUR: To mill the inside profile of the leg you will switch to the interior template and repeat steps 1 and 2.

STEP FIVE: With the legs still positioned in the mill, cut your dovetail slots for the rails of the table.

STEP SIX: Cut the rails out on a band saw using the pattern provided, and rout a decorative edge around the top and along the bottom edge of the rails.

STEP SEVEN: Mill a decorative edge on the 1" x 15" x 48" tabletop and your ready for final assembly of the Queen Anne hall table.

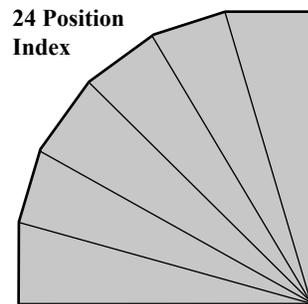


Figure C - Top View, 6 sides
at 15 degree intervals

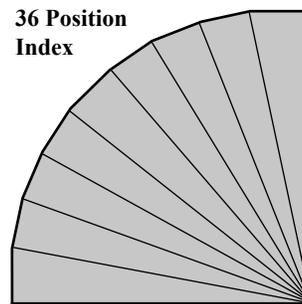


Figure C - Top View, 9 sides
at 10 degree intervals

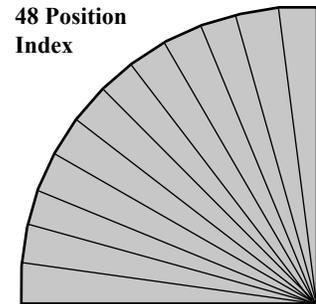


Figure C - Top View, 12 sides
at 7.5 degree intervals

