Cutting Guide for Desk Top and Leg Support

Support for Desk Top and Legs
14” High X 47” Long
½” Plywood

Note! Drawings not to exact scale – follow dimensions provided
Layout for Cutting Desk Top, Desktop Support and Sides from 4’ X 8’ sheet of ½”Plywood

Notes:
1. Your saw blade will have a kurf (width of material removed by the blade while sawing) of about 1/8”. Begin by measuring and then cut, measure and then cut from left to right. Cut along the right side of the line shown above. This will assure a full 10”, 22” and 14” board width.

2. Legs can be between 24 and 30 inches tall. 24” if vacuum table is used or 30” if not used. This means total leg height could be between 45 and 51 inches tall. However, if total height is greater than 49 7/8” there will be insufficient ½’ plywood in a 4X8 sheet for the top of the cabinet! If so a 1’X10” board will need to be used for the top. Or you can reduce the height of the Desktop support from 14” to 12” to make up the difference in height.
Support for Desk Top and Legs
14” High X 47” Long
½” Plywood

2” X 2” X 10” long wood blocks screwed and glued to back of Desk Top Support and legs

2” X 2” X 43” long wood block screwed and glued to back of Desk Top and legs

Note! Drawings not to exact scale – follow dimensions provided.
Back Panel
26” High X 48” Wide
(1/4 inch plywood)

1” X 3” X 24”
Pine Boards

Support for Desk Top and Legs
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½” Plywood

Note! Drawings not to exact scale – follow dimensions provided
Front View With Filter Enclosure

Inside dimensions for opening are 16” x 30”

If vacuum table is used bottom 1” x 4” will need to be vertical. If vacuum table is not used no bottom 1” x 4” is needed

2” hole for Vacuum table

Support for Desk Top and Legs
14” High X 47” Long
½” Plywood

Note! Drawings not to exact scale – follow dimensions provided
Completely assemble pipes to be sure assembly will fit inside 16 x 30 filter box before gluing! You may also use small screws hold joints together vice cement.

2” Drain Flange with reducer to 1½ “ pipe for mounting on fan. Do not glue flange to pipe until entire unit is installed through hole in filter enclosure.

Pipe assembly must fit inside the 1”X4” 16” X 30” (internal dimension) Filter Box

1 ½ “ PVC Tees

¼ “ holes drilled 1 ½ “ apart on the inside of all pipes

¼ “ holes drilled 1 ½ “ apart on both sides of center pipe

Alternate method of securing pipes is to screw in place at top and bottom corners of Filter Box

Joist Hangers were used to secure PVC to the backboard

1 ½ “ 4 Way Side Outlet PVC Furniture Tee If Vacuum table is to be used
Note: Desk Top can be between 24 and 30 inches tall. 24” if vacuum table is used or 30” if not used. This means total height could be between 45 and 51 inches tall. However, if height is greater than 48” there will be insufficient ½’ plywood in a 4X8 sheet for the top of the cabinet. A 1’X10” board will need to be used for the top.

2” X 2” X 10” long wood blocks screwed and glued to inside of desk top at top enclosure support

1”X2” Pine boards to cover all edges of plywood and to add stiffness

Hole for vacuum pipe

Left and right sides are ½” thick plywood

Position of leg and desktop support

Note! Drawings not to exact scale – follow dimensions provided.
Support cut from 14” long 1” X 8” board

35 degree angle

3/8 Plywood screwed & glued directly onto support

Entire Assembly Slides Into Place

6” X 9” 3/8” thick plywood

1” X 4” Pine board with 3/8” deep X 1½ “ cutout to hold spray booth roof

½ “ plywood top

Center spray booth roof and position against the upright for the filter box

Support cut from 14” long 1” X 8” board

35 degree angle

1” X 1” X 3” wood block screwed to Top Shelf on outside edges of 6” X 9” to center the roof when sliding it into place

Note! Drawings not to exact scale – follow dimensions provided

Entire Assembly Slides Into Place
Center 4' LED fixture and screw in place under edge of roof

Front View

1” X 2” pine boards on bottom side of 3/8 plywood roof to prevent plywood from curling

Parallel 1/2” X 1/2” guides for 3/8” plywood side walls

Recommend locating the side wall guides on the desk top first and then marking the position of the top guides with side panels held vertically.

1” X 2” pine board on top side of roof to keep it from curling

End of Side Wall will overhang edge of desk

Note! Drawings not to exact scale – follow dimensions provided
Side Walls

Strongly recommend cutting a piece of cardboard to size and shape to check fit before cutting plywood

Bevel top and inside edges for best fit

1” X 2” Pine on back side of wall to prevent bowing of plywood on both Walls

Note! Drawings not to exact scale – follow dimensions provided
Electrical Layout and Fire Extinguisher Placement

Note! Drawings not to exact scale

- Fan on/off + variable speed control
- Double receptacle: Top - on/off switch to lights
  Bottom - plug for air compressor
- Plugs for LED Lights
- Locate Fire Extinguisher on outside of cabinet away from electrical connections
Exhaust Fan Connection

- 2” PVC pipe cut to fit your space
- 2” PVC Union glued on OUTSIDE to plywood base
- 2 Elbows must be glued at 90 degrees to each other
- These connections are press in place do not glue!
- 2” PVC Drain Flange bolted to fan exhaust flange
- Drill 4 holes and remove grill
- 14” X 14” Table Saw Dust Adapter
- PVC 4” to 2” Hub to Hub Reducer
- 2” Flex Hose
Alternate Venting Option

Mico-Mark sells a spray booth exhaust system that will slide under an open window. I did not select this option because the narrow opening would create increased back pressure thus reducing the amount of air flow.