DO-IT-YOURSELF ROLLING KITCHEN ISLAND

MATERIALS:
(4) 2x2x8 Ft. Boards
(1) 1x4x8 Ft. Board
(1) 18 ½ inches of 1x2 Ft. Board
(1) 4 Ft. x 8 Ft. Sheet of ¾-inch Thick Plywood
(1) 2 Ft. x 4 Ft. Sheet of ¼-inch Thick Plywood
(1) 1 ½-inch Thick Butcher Block
(4) 2-inch Swivel Casters
(4) 5/16-inch Tee Nuts
2 ½-inch Pocket Hole Screws
1 ¼-inch Pocket Hole Screws
Wood Glue, Wood Filler, 150- and 220-Grit Sandpaper

TOOLS:
Tape Measure
Carpenter’s Square
Pencil
Drill with 5/16 Drill Bit
Circular Saw
Table Saw or Router with ¼-inch Channel Bit
Pocket Hole Jig
Mallet
Sander
Clamps
**CUT LIST:**

- (4) 2 x 2 @ 31 inches (legs)
- (2) 1 x 4 @ 20 5/8 inches (side aprons)
- (4) 2 x 2 @ 20 5/8 inches (side rails)
- (2) 2 x 2 @ 22 ½ inches (side stiles)
- (2) 2 x 2 @ 6 5/8 inches (side rail detail)
- (2) ¾-inch plywood @ 22 ½ inches x 12 ½ inches (side panels)
- (1) ¾-inch plywood @ 27 ½ inches x 24 ½ inches (middle wall)
- (1) 2 x 2 @ 24 ½ inches (stretcher)
- (1) ¾-inch plywood @ 24 ½ inches x 12 ½ inches (bottom shelf)
- (1) 2 x 2 @ 24 ½ inches (bottom shelf trim)
- (2) ¾-inch plywood @ 21 ½ inches x 12 ½ inches (sheet pan dividers)
- (2) ¾-inch plywood @ 12 ½ inches x 5 ¼ inches (top/bottom sheet pan grooved pieces)
- (1) ¾-inch plywood @ 23 ½ inches x 12 ½ inches (sheet pan wall)
- (1) ¾-inch plywood @ 18 ½ inches x 11 inches (middle shelf)
- (1) 1 x 2 @ 18 ½ inches (middle shelf trim)
- (1) ¾-inch plywood @ 24 ½ inches x 12 ½ inches (top shelf)
- (1) 2 x 2 @ 24 ½ inches (top shelf trim)
- (1) butcher block @ 29 ½ inches x 25 5/8 inches (top)
**STEP 1**
Cut the legs and side aprons to size. Drill ¾-inch pocket holes into the side aprons as shown. Drill 1 ½-inch pocket holes into legs as shown. Attach side aprons to legs with 1 ¼-inch pocket hole screws. Notice that the aprons are flush to the interior side of the legs.

**FIG. 01**

- Drill two 1 1/2-inch pocket holes on exterior side of front legs.
- 1x4 Side Apron
- Side apron is attached flush to interior side of legs.
- 2x2 Back Leg
- 2x2 Front Leg
- 20 5/8"
STEP 2:
Cut side rails to length, drill 1 ½-inch pocket holes as shown and attach to legs with 2 ½-inch pocket hole screws. Attach side aprons to side rails with 1 ¼-inch pocket hole screws.
**STEP 3:**
Cut plywood side panels to size and drill ¾-inch pocket holes as shown. Attach side panel to legs and side rails with 1 ¼-inch pocket hole screws.

**FIG. 03**
**STEP 4:**
Cut side rail to length and drill 1 ½-inch pocket holes as shown. Attach to legs with 2 ½-inch pocket hole screws. Attach plywood side panel to side rail with 1 ¼-inch pocket hole screws.

**FIG. 04**
**STEP 5:**
Cut side stile to length and drill 1 ½-inch pocket holes as shown. Attach to side rails with 2 ½-inch pocket hole screws. Attach plywood side panel to side stiles with 1 ¾-inch pocket hole screws.

**FIG. 05**

---

**2x2 Side Stile**

22 1/2"
STEP 6:
Cut side rail detail to length and drill 1 ½-inch pocket holes as shown. Attach to side rail and legs with 2 ½-inch pocket hole screws.
**STEP 7:**
Build two of these side panels, making sure to build them as mirror images of each other.

**FIG. 07**

BUILD TWO MIRRORED SIDES
**STEP 8:**
Cut plywood middle wall to size and drill ¾-inch pocket holes as shown. Attach to side panels with 1 ¼-inch pocket hole screws.

**FIG. 08**

3/4-inch Plywood Middle Wall

24 1/2"  27 1/2"

8 7/8"  14"
**STEP 9:**
Cut stretcher to length and drill 1 ½-inch pocket holes as shown. Attach to side rails with 2 ½-inch pocket hole screws.

**FIG. 09**
**STEP 10:**
Cut plywood bottom shelf to size and drill ¾-inch pocket holes as shown. Attach to carcass with 1 ¼-inch pocket hole screws.
**STEP 11:**
Cut bottom shelf trim to length and drill 1 ½-inch pocket holes as shown. Attach to legs with 2 ½-inch pocket hole screws. Attach bottom shelf to bottom shelf trim with 1 ¾-inch pocket hole screws.

**FIG. 11**
**STEP 12:**
Cut top and bottom sheet pan pieces to size. Using a router fitted with a ¼-inch channel bit, route two grooves as shown. The grooves should be ¼-inch wide and ⅛-inch deep. Alternately, you can cut these grooves by doing multiple passes on a table saw. Make two identical pieces.

**FIG. 12**
**STEP 13:**
Attach the bottom sheet pan grooved piece to the cabinet with wood glue and 1 ¼-inch brad nails.

**FIG. 13**
**STEP 14:**
Cut the plywood sheet pan wall to size and drill ¾-inch pocket holes as shown. Attach to carcass with 1 ¼-inch pocket hole screws. Check for level.

**FIG. 14**
STEP 15:
Attach the top sheet pan grooved piece with wood glue and 1 ¼-inch brad nails. Check for level.

FIG. 15
**STEP 16:**
Cut the plywood sheet pan dividers to size, sand, and paint or stain. They should slide easily into the grooves.
**STEP 17:**
Cut middle shelf to size and drill ⅜-inch pocket holes as shown. Attach to carcass with 1 ¼-inch pocket hole screws. Check for level.
**STEP 18:**
Cut middle shelf trim to size and drill ¾-inch pocket holes as shown. Attach to carcass with 1 ¼-inch pocket hole screws. Attach middle shelf to middle shelf trim with 1 ¼-inch pocket hole screws.

---

**FIG. 18**
**STEP 19:**
Cut top shelf to size and drill ¾-inch pocket holes on underside of shelf. Attach to carcass with 1 ¾-inch pocket hole screws. Check for level.

**FIG. 19**
STEP 20:
Cut top shelf trim to length and drill 1 ½-inch pocket holes on each end. Attach to legs with 2 ½-inch pocket hole screws. Attach top shelf to top shelf trim with 1 ¼-inch pocket hole screws.

FIG. 20
**STEP 21:**
Cut butcher block to size. Squeeze glue along the top edges of the carcass and carefully position the butcher block on top. There should be a 1 inch overhang on all sides. On the front of the kitchen island, attach the top with 1 ¼-inch pocket hole screws as shown. Take care not to drive the screws through the top.

**FIG. 21**

Attach top with 1 1/4-inch pocket hole screws on front legs

1 inch overhang on all sides
**STEP 22:**
On the back of the kitchen island, attach the top with 1 ¾-inch pocket hole screws as shown.

**FIG. 22**

- Butcher Block Top
- 1 inch overhang on all sides
- Attach butcher block top with 1 1/4-inch pocket hole screws
STEP 23:
Using a 5/16-inch drill bit, drill a hole into the legs. Tap the tee nuts into place with a mallet and screw the casters in. You may opt to complete this step before you attach the butcher block top, so as not to damage the butcher block.

FIG. 23

2 inch swivel casters