Every home woodworker knows the importance of making efficient use of the available space in his or her shop. This workbench is designed to provide the maximum functionality using the minimum amount of space possible. It provides a work surface of about six feet by two feet and is about 35” in height. It’s just the right size to provide ample work space for most projects.

The features that make this workbench ideal for the home shop are the built-in clamping system, the nine drawers, the center cabinet space, and the mobility. The four inch casters enable you to easily roll it into position when needed and roll it aside when it is not in use.

The top surface is made of two layers of 3/4” MDF. This provides an extremely flat and solid work surface. The T-track inlaid in the top and around the edges provides a versatile clamping system that easily clamps very small or very large work pieces.
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### Materials List - 1

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<th>Item name</th>
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<td>3/4” Oak Plywood</td>
<td>End Panels</td>
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<td>1</td>
<td>72” by 24”</td>
<td>3/4” MDF Board</td>
<td>Top</td>
</tr>
<tr>
<td>1</td>
<td>68” by 19 3/4”</td>
<td>3/4” MDF Board</td>
<td>Sub Top</td>
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<td>1st Front &amp; Back Sub Top Trim</td>
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<td>3/4” Wood or Plywood</td>
<td>1st End Sub Top Trim</td>
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<tr>
<td>2</td>
<td>71” by 1 1/2”</td>
<td>3/4” Wood or Plywood</td>
<td>2nd Front &amp; Back Sub Top Trim</td>
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<td>22 3/4” by 1 1/2”</td>
<td>3/4” Wood or Plywood</td>
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<td>1/2” by 3/4” T-Track</td>
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<td>End &amp; Top T-Track</td>
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<td>1/2” Thick MDF or Wood</td>
<td>End Lower T-Track Trim</td>
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<td>18 1/4” by 3”</td>
<td>3/4” Wood</td>
<td>Lower Drawer Side Guides</td>
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<td>3/4” Wood</td>
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<td>14 1/2” by 2”</td>
<td>3/4” Wood</td>
<td>Lower Back Supports</td>
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<td>3/4” Wood</td>
<td>Center Lower Back Support</td>
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<td>3/4” Wood</td>
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<td>3/4” Wood</td>
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<td>3/4” thick wood or plywood</td>
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<td>3/4” thick wood or plywood</td>
<td>End Trim</td>
</tr>
<tr>
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<td>23 1/4” by 1 1/2”</td>
<td>3/4” thick wood or plywood</td>
<td>Vertical Divider Trim</td>
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<td>65” by 3”</td>
<td>3/4” thick wood or plywood</td>
<td>Upper &amp; Lower Trim</td>
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<td>3 1/2” by 30 1/2”</td>
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<td>Center Drawer Front</td>
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<tr>
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<td>4 1/2” Drawer Front</td>
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<td>3/4” thick wood or plywood</td>
<td>5 1/4” Drawer Front</td>
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<td>Door Lip</td>
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<td>6</td>
<td>19” by 2 7/8”</td>
<td>3/4” thick wood or plywood</td>
<td>Top Drawer Sides</td>
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<tr>
<td>4</td>
<td>19” by 3 7/8”</td>
<td>3/4” thick wood or plywood</td>
<td>3 7/8” Drawer Sides</td>
</tr>
<tr>
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<td>19” by 4 7/8”</td>
<td>3/4” thick wood or plywood</td>
<td>4 7/8” Drawer Sides</td>
</tr>
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<td>3/4” thick wood or plywood</td>
<td>6 5/8” Drawer Sides</td>
</tr>
<tr>
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<td>3/4” thick wood or plywood</td>
<td>Center Drawer Ends</td>
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<td>3/4” thick wood or plywood</td>
<td>Top Drawer Ends</td>
</tr>
<tr>
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<td>3/4” thick wood or plywood</td>
<td>3 7/8” Drawer Ends</td>
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<td>4 7/8” Drawer Ends</td>
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<td>29 1/8” by 18 1/4”</td>
<td>1/4” Hardboard</td>
<td>Center Drawer Bottom</td>
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<tr>
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<td>15 1/8”” by 18 1/4”</td>
<td>1/4” Hardboard</td>
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<tr>
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<td>18 1/4” by 30”</td>
<td>3/4” plywood</td>
<td>Middle Shelf</td>
</tr>
</tbody>
</table>
3/4" MDF or plywood

Base: 66 1/2" x 96" x 48"

Back: 66 1/2" x 96" x 48"
Cutout Drawings - Panels

- Drawer Trim (6)
- Drawer Trim (6)
- Drawer Trim (6)
- Drawer Trim (6)
- Drawer Trim (6)
- Drawer Trim (6)
- Cabinet Doors (2)
- Cabinet Doors (2)
- Cabinet Doors (2)
- Cabinet Doors (2)
- 3/4" by 4' by 8' plywood
- Center Lower Back Supports (1)
- Center Lower Back Supports (1)
- Center Drawer Front (1)
- Center Drawer Front (1)
- Vertical Divider Trim (2)
- Vertical Divider Trim (2)
- Center Drawer Trim (2)
- Center Drawer Trim (2)
- Vertical Divider Trim (2)
- Vertical Divider Trim (2)
- 30" Leveling Blocks (2)
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- 30" Leveling Blocks (2)
- 30" Leveling Blocks (2)
Stiffener (Make the stiffener from 1 1/2" thick material- A 2 BY 4 will work)

3/4" thick material

<table>
<thead>
<tr>
<th>Drawer Side Guides (10)</th>
<th>Drawer Side Guides (10)</th>
<th>Drawer Side Guides (10)</th>
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<td>Drawer Side Guides (10)</td>
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67 1/2"

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<th>Lower Back Supports (2)</th>
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<td>16 3/4&quot; Leveling Blocks (3)</td>
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<tr>
<td>16 3/4&quot; Leveling Blocks (3)</td>
<td>16 3/4&quot; Leveling Blocks (3)</td>
<td></td>
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</tr>
</tbody>
</table>

This board should provide enough extra wood to make the parts for the clamping system.
The two end panels are 1" taller than the center panels. This is because the center panels sit on the top surface of the base and the end panels extend 1/4" below the bottom surface of the base.

The end panels are also 3/4" wider than the center panels. This is so they will be flush with the ends of the back section.
Cut the base from 3/4" material, then drill and countersink holes for #8 screws as shown in the drawing above. All the screws around the edge are 3/8" from the edge.
Cut the back from 3/4" material, then drill and countersink holes for #8 screws as shown in the drawing above.
First, cut the top from a piece of 3/4" MDF. Then cut the T-Track slots according to the drawing to the right.

The T-Track slot dimensions are based on the center of the slots. However, the exact location of these items is strictly a matter of personal choice.

T-Track sizes vary from brand to brand. The most common sizes are 3/4" wide by 1/2" deep or 3/4" wide by 3/8" deep. Cut the slots so the track you're using is flush with the top surface.
Drill and counter screw holes for #8 flathead screws in the locations shown below.

Sub Top Dimensions and Layout

Sub Top

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The Sub Top trim is made of 3/4" thick by 1 1/2" high material. This because the T-Track is 1/2" by 3/4".

If you have a pocket hole jig, I recommend drilling pocket holes in the 2nd Sub Top Trim pieces as shown. These pocket holes will be used to secure the Top to the Sub Top. The exact location of the pocket holes is not critical. The important thing is that they do not line up with the screw holes in your T-Track. If you do not have a pocket hole jig, the Top can be secured with finishing nails or glue.

The T-Track trim is made of 1/2" thick by 3/4" high material. This because the T-Track is 1/2" by 3/4".
Stiffener (Make the stiffener from 1 1/2" thick material)

Drawer Supports (20) 1 1/2" 18 1/4"

Lower Drawer Supports (6) 2" 18 1/4"

Drawer Side Guides (12) 2 1/2" 18 1/4"

Lower Drawer Side Guides (4) 3" 18 1/4"

Lower Back Supports (2) 2" 14 1/2"

Center Lower Back Supports (1) 2" 28 1/2"

17 1/2" Leveling Blocks (4) 1 1/2" 17 1/2"

16 3/4" Leveling Blocks (4) 1 1/2" 16 3/4"

30" Leveling Blocks (2) 1 1/2" 30"

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Drawer Fronts, Front Trim, and Doors

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Drawer Trim (6)

Vertical End Trim (2)

Middle Trim (1)

Vertical Divider Trim (2)

Upper & Lower Trim (2)

Middle Door Trim (1)

Drawer Fronts Dimensions

Center Drawer Front (1)

Top Drawer Fronts (2)

4 1/2" Drawer Fronts (2)

5 1/4" Drawer Fronts (2)

Cabinet Doors (2)

7" Drawer Fronts (2)

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Middle Shelf Dimensions

Middle Shelf

18 1/4"
30"

Lower Track Support (2)
2 3/4"
18"
(Lower Track Support is made of 1 1/2" thick material.)

Lower Track Trim (2)
1"
18"
(Lower Track Trim is made of 1/2" thick material.)

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Attach Drawer Slides Left Section - Right Panel

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Attach Drawer Slides Center Section - Right Panel

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Right Inside Panel

Leveling Block

Drawer Support

Drawer Support

Lower Drawer Support

6"

13 3/4"

26 1/4"

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Attach the casters to the base as shown. Then position the stiffener as close to the front as possible while still allowing clearance for the swivel casters to rotate. Mark the position of the stiffener, then drill about six holes for #8 wood screws through the base. Apply some glue and secure the stiffener to the base with 2" #8 screws.

The screw heads will be inside cabinet below the drawers so it doesn't matter if you use flathead or pan head screws.
Attach the back to the vertical panels and base with 1 1/2" #8 flathead screws as shown.
Attach the middle shelf to the supports.
Assemble the front trim pieces (face frame) as shown. The dimensions for the drawer trim spacing are shown in the drawing above. The important thing is that the drawer trim pieces line up with the drawer slides.

If the drawer slides are off a little, position the drawer trim pieces so they are flush with the top of the drawer slides.

Pocket holes are the easiest way to join trim or face frames as they are often called. If you don't have a pocket hole jig, you can use dowel joints.

Don't forget! The pocket holes go on the back side of the face frame.
Attach the assembled face frame to the cabinet with finishing nails. Then, countersink and fill the nail holes with wood putty.
Now, you are ready to attach the leveling blocks. This is the way you ensure that the top is perfectly flat when the workbench is completed. First, drill three 1/4” diameter holes completely through each leveling block, (the two shortest ones only need two holes). The exact location of the holes is not critical. Drill a hole about 2” from each end and one in the middle of each leveling block. To keep the glue from setting before you're finished, it's best to attach the end and center panel leveling blocks first and ensure they are level with each other before attaching the front and rear ones.

Apply some glue to the mating faces and attach the end and center panel leveling blocks using 1 1/2” #8 pan head screws with flat washers as shown. Do not tighten the screws yet as the blocks must be leveled first.

After all the blocks are in place, use a straight edge to ensure the top surfaces of all the leveling blocks are level with each other. If you have a four foot level, that would work great.

The important thing is that the top surfaces of the leveling blocks be level with each other. This will provide a flat surface to mount the sub top to.

When all the blocks are level, tighten the screws and recheck that they did not move.
Attach the Front & Rear Leveling Blocks

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Apply glue to the mating surfaces and attach the front and rear leveling blocks as shown in the diagram. Use your straight edge to ensure the tops are even with the tops of the end and center leveling blocks. Then tighten the screws.
Attach the Sub Top with 1 1/2" #8 flathead screws. The Sub Top should be flush to the edges of the cabinet on all four sides.
Attach the Inner Sub Top Trim to the Sub Top with 1 1/2" #8 flathead screws. Be sure the top of the trim is flush with the top surface of the Sub Top.
Attach the Middle Sub Top Trim to the Inner Sub Top Trim with 1 1/2" #8 flathead screws. Be sure to space these screws so they don't interfere with the screws in the inner trim or the T-Track which will be attached to the Middle Sub Top trim. The pocket holes will be used to attach the edges of the top to the trim.
Attach the Top to the Sub Top with 1" #8 flathead screws through the cutouts for the T-Track. Secure the edges of the top with pocket hole screws through the holes you drilled through the Inner Sub Top Trim. You can secure the right side with screws from the underside of the sub top. If you prefer, you can glue the Top to the Sub Top. However, gluing it will make it much more difficult to replace the top in the future if you need to.

Note: The dimensions given in these plans are based using T-Track that is 3/4" wide and 1/2" thick. If your T-Track is a different size, you will need to modify the thickness of the inner trim accordingly.
Attach the T-Track & Miter track to the Top

Attach the T-Track to the top as shown with 1" #6 screws. Some manufacturers countersink the holes for mounting the track and others do not. From my experience, I prefer flathead screws with countersunk holes. This keeps the screw heads from interfering with the bolts sliding through the track. The track I used for the prototype was designed for pan head screws, so I countersunk them on my drill press.

Attach the Lower Track Support to the left side of the cabinet with six 2" #8 flathead screws. Position this piece so it is 1" below the Sub Top Trim and centered front to back.
Attach the edge T-Track on each end and along the front to the middle Sub Top Trim with 1" #6 screws. Position this T-Track under the bottom surface of the Top as shown in the detail drawing.

T-Track joins at the corners like this so you can slide the bolts in and out.

Attach the Lower T-Track to the Lower T-Track Support. The T-Track should be centered top to bottom.
Attach the Lower Front Trim to the Front and Ends

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Attach the Lower Top Trim on each end and along the front to the middle Sub Top Trim with 1 1/2" finishing nails.

If you cut the top a little larger than the dimensions called for, you can trim it with your router and a flush trimming bit. Use the Lower Top Trim for the bit bearing to follow.

The Lower Top Trim joins at the corners like this.

Attach the Lower Track Trim with finishing nails.
Apply a little glue to the mating surfaces and assemble the drawer boxes.

Assemble the front, back, and right side with finishing nails as shown in Step 1. Insert the bottom as shown in Step 2. Attach the left side as shown in Step 3.

Support the drawer boxes with 1/4" thick strips of wood and attach the drawer fronts with 1 1/8" screws as shown. This is necessary because the bottom of the front must be 1/4" below the bottom of the box so it will overlap the rear cabinet trim when installed.
Attach the cabinet doors so the tops align with the tops of the drawers and the sides align with the ends of the middle drawer as shown above.
Attach the Middle Door Lip to the back of either of the cabinet doors so half of it is visible as shown. Attach it to the back of the door with a couple of 1" wood screws. The left door is not pictured in the drawing for clarity.

This piece serves as a door lip so there is no visible gap between the doors.

Now, you're ready to attach the Drawer and Door handles and your work bench is finished.
Drill two pocket holes in each Post as shown below. Next, drill two 1/4" diameter holes in the end of each Post as shown. (The 1/4" holes should only be 1/2" deep.)

Drill a 5/16" bolt through each jaw as shown. Next, drill two 5/16" holes for the dowel pins in each Jaw as shown. (The dowel pin holes are 5/16" diameter so the Jaws can pivot over the pins. These holes should be 1/2" deep.)
Attach the Posts to the ends of the Stop Bar with pocket hole screws as shown below. Next, cut four 7/8" long dowel pins from 1/4" dowel rod. Apply some glue and insert a 1/4" dowel pin into each hole in the ends of the Posts. (The dowel pins should protrude about 3/8" from the ends of the Posts.)

Place the Jaws over the protruding dowel pins as shown above. (Do not glue the dowel pins to the Jaws as the Jaws must be allowed to pivot in order to work as clamps.) Insert a 5/16 carriage bolt through the holes as shown. (The carriage bolt should be 5" long. Secure the pieces with a flat washer and knob.
The T-Track clamping system provides a flexible way of clamping both large and small work pieces. Most work pieces can be clamped using the two Clamp Jaws and the Rear Stop. The Clamp Jaws are used with the T-Track that runs along the front edge of the workbench. The Rear Stop is used with the T-Track that is embedded in the top surface of the workbench.

For longer workpieces, you can use the Clamp Jaws with the T-Track on the ends of the workbench. The EZ Mount Stop may be secured anywhere along the workbench top. The simple clamps on each end of the EZ Mount Stop grip the edge of the workbench top as well as C-Clamps. This feature enables you to use the workbench as a large bar clamp for gluing up boards.

You can make the clamping system grip the work piece even tighter by gluing strips of 100 grit sandpaper along the edges that contact the workpiece. The sandpaper requires much less force than the surface of bare wood.

The button arrangement on the Clamp Jaws allows you to flip the Clamp Jaws over for thicker work pieces. The drawings on the next two pages illustrates how the clamps work.

To clamp a work piece, position the workpiece so the edge protrudes slightly over the edge of the workbench top as shown. Then, position the Rear Stop against the workpiece and tighten it to T-Track using the knobs. Next, tighten the Clamp Jaws against the workpiece with the knobs and your work piece will be clamped just like with a vice.

For thinner workpieces, position the Clamp Jaws and Rear Stop as shown. If your workpiece is thinner than 3/4", you can place strips of wood under the work piece so it is slightly higher than the top edges of the Clamp Jaws.

For thicker workpieces, flip the Clamp Jaws so the second button is against the Lower T-Track Trim and reverse the Rear Stop so the thicker edge is against the workpiece.
For thinner workpieces, position the Clamp Jaws and Rear Stop as shown.

For thicker workpieces, flip the Clamp Jaw so the second button is against the Lower T-Track Trim and reverse the Rear Stop so the thicker edge is against the workpiece.
To clamp long work pieces, use the Clamping Jaws and EZ Mount Stop as shown.
Clamping a large Work Piece Vertically

Clamping a Small Work Piece

Clamping a Large Work Piece

Clamping a Work Light

Clamping a Thick Work Piece
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