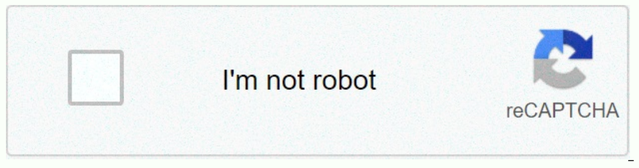

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Diy drill press table plans

Show plans for this $5 project I made this drill press desk about nine years ago: And I'm rewriting this article to replace the original I wrote back then because I also remade the table as well. This new one is not much different - a little bigger and the fence is improved: New with a new fence design: I got rid of the interchangeable insert in the middle: During nine years of using the table, I never once replaced the liner. Instead, I use a sacrificial supporter, usually a piece of plywood: It gets replaced quite often - two or three times a year. You may want to watch the build video before you get into the details of the project: The first step was to remove the old table and check the accuracy of the metal table. I used a piece of 1/2 rod dejected in a drilled and precise square: When I made the original, I also scratched the vertical line on the column and used a small piece of self-adhesive measuring tape to indicate the supporting position of the table: It tells me at first glance whether the table is centered in relation to the head. Getting a table perfectly is not necessary, it just has to be close enough. I drew the center line on the new vertex and used the brad point bit to place it: I want it as close to the column as possible without actually touching it. I saw down to the base to line up the table parallel to that: Again, it may not be accurate. When he was lined up, I reached under him and drew a line around the metal table to mark his position. I cut a block of hardwood to clamp the new top to the metal table and cut the notches in them to fit around the screws: These blocks also hold the top in place laterally, while a couple of shorter ones hold it in place from front to back. Two counterlayers for trolley screws that hold the top and 3/4 hole in the center: Lining the locator blocks with a mark on the bottom and gluing them in place: I used a trolley screw, washer and nut to clamp the block while the glue set. Not sure how often I'll use these, but I found when using the original that it was often difficult to clamp parts far enough away to hold them safely. So this one has a couple of 2 holes for clamps: After the glue dried, I tried it on the metal table, but I found it a little tight. I slightly shaved one of the locator blocks with a sharp chisel: And then it fit: Fence Fence is a little more complicated. I started with under the fence - a piece of spruce cut to size and made sure it sat square on a new top: Using one of my homemade squares for that. This part can also be made of two layers of 1/ 2 plywood glued together. The facial parts for the fence are 1/2 plywood and the tall one needs a notch cut at both ends. I did this on the saw table, cutting in part way: And then finishing the cut using my mini table saw saline: The biggest change to The new fence is a stop block arrangement. The front parts form a T track for a regular toilet bolt to fit in: The bottoms also have a notch along the bottom for chip clearance: These are optional, though. Mounting the fence with glue and pins to keep the parts in line: It's important to check whether the toilet screw slides loosely in the slots before clamping it: All four of my power wedge clamps in action, along with four of my (now) backup metal clamps. The parts that fasten the fence to the top are quite small, so I like to cut them off from the longer warehouse after drilling the counterlayers and holes: Much safer. Clamps assembled: A fence installed at the top with a stop block in place: And here's the application of these terminals: Again, I'm not sure how often I'll use them, but they're there when I need them. This is very much the case for the fence because I don't use it often, either. I didn't put any surface on the original and it held just fine. It's a bit dirty and that's what I'm mainly trying to prevent by getting a bright coating new: It's worth pointing out that a table like this can be difficult to use the elevator/lower handle. I extended mine for the original, but another option is to pad the top up with layers of plywood on the metal table: In the upcoming project I will change the crank arrangement again, extending the past side of the table. There are easy to follow step by step plans available for this project: Drill Press Table Plans When I think of woodworking products, my mind usually goes straight to the preparations used for the table saw. But what about the drill press? The drill press has a lot to offer but always seems to be neglected in my shop due to the complex and lengthy setup. All that changed when I made the table for the drill press. The drill press table only makes it easy to use the drill press. Faster setup, consistent production of repeated holes, increased safety, better stability and better accuracy. There are many DIY drill pressing table designs out there, so what's different about mine? I'm glad you asked. When designing this drill print table, I had 3 things in mind: Minimal hardware investment ($) Easy connection/disassembly in seconds Extra T-tracks for more flexibility Click here to subscribe to my YouTube channel for more DIY videos! For this project, I used baltic birch, which provides a smooth flat surface. You will only need part of the panel 24 x 48, there is no need to buy the whole sheet. Materials Used Tools Start by cutting down pieces of plywood according to the cut list below. I used a combination of my circular saw to break a large panel, then moved on to my sheath saw and table saw for smaller cuts. The dimensions of the drill table are 12 x 24 with a 2 inch high fence. Cut List 3/4 Baltic Birch Plywood (1) 12 x 24 - Table Base (2) 12 x 3 5/8 - Top End (2) 12 x 4 - Upper middle pieces (1) 12 x 7 1/2 - Upper center piece (2) 2 x 24 - Fence (4) 2 x 2 - Stop blocks (2) 2 x 8 - Switch under mount 1/4 Baltic birch plywood Making the Table Top You can buy factory T-tracks and T-slots but I wanted this drilling pressing table to be as costly as possible, with readily available materials. So instead, I decided to make my own T-tracks. Here's how. Use the router table (or handheld router) and the straight bit to cut the rabbet to each of the edges highlighted in the following diagram. Rabbets should be 1/4 wide and about 1/8 deep. Once the rabbets are cut, you can now cut 7 1/2 center piece to make a removable sacrificial insert. Cut the piece to 2 5 / 8 from one side, then repeat the cut on the other side. You will have 2 insert (no rabbets). Before pulling out the glue, you will need 3/8 of the spacer surfaces. Spacers create T-tracks and allow toilet screws to slide freely between the plates. I made my own spacer cutting 3/8 strip on the saw table, then cutting them into small 2 pieces with my crosscut s toss. Apply glue on the back of the upper pieces, be careful not to get into the rabbetes. Add spacer and continue moving from left to right according to the layout in the diagram above. Do not forget not to add any glue to 2 pieces in the middle! This is a removable insert. Add a few weights all over the surface and let the glue dry. Making a fence glue and clamp together two 2 x 24 pieces into a sandwich. Once dry, put dado down the middle about 3/4 wide and 1/8 deep. Glue 1/4 of the plywood on top, be careful not to get glue into the dado. Clamp and leave to dry. Using a table saw, cut a shallow groove (blade high enough to cut through 1/4 of the plywood). The groove should be approximately 3/8 wide, just wide enough to make the toilet screw slide smoothly in the track. Place the assembled fence on the drill press table and indicate where the outer t-tracks of the table meet the fence. Drill a hole through the center of the fence using a 3/8 drill. You can buy extra long toilet screws, or simply use the Forstner bit to stop the handle just a little bit so they can reach the threads. Mounting the stem of the drill machine Insert the toilet screw up the holes that you have created in the fence. Add a pad on the top, then a star knob (do not tighten). Slide the bolt heads into the T-stop and slide the fence into place, and then tighten the star buttons. I wanted a quick and easy way to quickly attach a drilling press table or take it off when I don't need it. Many creators used screws to mount the table on the drill press, but this seemed too impractical for quick removal. Instead, I decided to use switch clamps. You can buy a 4-pack for less than $15, so it's really affordable. I've centered the table on the drill press, simply marked the underside on each side of the table. I screwed on a piece of plywood on each side, then mounted the switching clamps on these plates. Now the table can be mounted and removed in seconds by moving your hand. Stoppers and hold clamps With left plywood, you can cut out some of the other 2 x 12 inserts that you have at hand once yours wears out. You will also want to cut some 2 x 2 stop blocks and drill a hole in the middle with a 3/8 drill. You can mount them to the fence as a stop block so that you can make repeated cuts in the same place, or mount them on the t-tracks in the table to keep your workpiece in place. Something I forgot that would be really useful here are to hold down the clamps. They're basically T-slot clamps that do just that: hold the workpiece. These can be especially useful when drilling into small pieces that you can't put your hand to hold them down to the table and prevent them from descending from the table as you raise your drill. You can get them for a few dollars, so I ordered some online to complete this drill press table build. Skip to the main contentHome Family Handyman Build this deluxe drilling table to simplify clamping wood processing projects and keep them stable when drilling. Or create a simplified version of the same thing. Either way, you will improve the results of printing drills. According to DIY experts from the Handyman Magazine familyYou may also like: TBDDrill printing table benefitsDilka presses are designed to work with metal, not wood. That's why, 10 years ago, I screwed an old piece of 3/4-inch. treated plywood on a metal table so I could screw down or clamp stops and fences. Frankly, I was embarrassed, and finally built this dedicated woodworking drilling table. Mine is a little over the top, with dadoes, plastic laminate and T-tracks. Deal with it if you want. The truth is that you could make a quick and easy top by screwing two glued layers of chipboard onto the cast iron table from the underside. You can screw or clamp temporary stops and fences on it and have a serviceable desk. But your table won't be as glamorous or easy to use as mine. Fence: The semicircle chuck hole allows drilling holes that are close to the fence. Neck plate: Insert 1/2-inch. Removable throat plate has abuse, so the top will not have to. T-Tracks: T-Tracks are universally useful trimmers that allow you to endlessly edit fixtures, fences and hold-downs. On this table they are used for sliding fence and hold. Laminate: Plastic laminate on the top and bottom prevents deformation of the upper part with changes in humidity. Edging: Hardwood tape protects the relatively fine core from taking a nap - plus it's nice. Building instructionsDe overview of the construction process for this home drilling pressing table. Glue 1-inch. Oversized the panels together then cut them to size on a table saw. Edge-band on both sides of the table, then strip-sand the top, so that the hardwood is in one plane with the surfaces. Cut off the laminate squares 1 in. oversize and apply them with contact cement. Then rinse the laminate squares with a aligned flushing bit and bone them with a 45-degree bit. Extend 1/2-inch.-deep recess for the neck plate. Cut 3/4-in.-wide dadoes on the saw table. Cut the hole on the fence with a saw with a hole of 2-1/2 on the drill press. Screw the fence together before using laminate, then rout that as you did with the table top. Lag screws (1-1/2 x 5/16 in.) and washers work great to secure a new top to the existing table for the drill press. Instructions with T-Track will tell you the rest. This DIY drilling table has sliding clamps, a sliding fence and a durable laminate plate. You can download and enlarge Image A in the More Information section below. You can also find a complete list of materials in the More Information section below. Additional informationThe required tools for this DIY drilling press table ProjectThey have the necessary tools for this project for the DIY printing table lined up before the start – you will save time and frustration. Belt grinderClampsDrill bit setDrill/driver - cordlessHole saw kitMiter sawŘeterTable saw You will also need three bits of router: straight cut, recessed-trim bit, and 45-degree beheading bit. Required materials for this DIY drilling pressing table ProjectAvoid last-minute shopping trips by put all your materials ready in advance. Here's the list. Contact cementSee Materials List in More informationWood adhesive adhesive