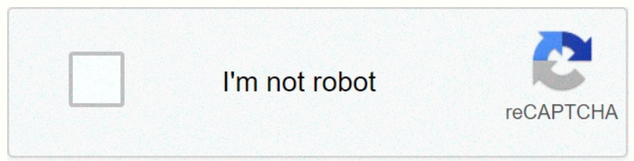

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Diy drill press table and fence

View the plans for this $5 project I did this press table drill about nine years ago: And I'm rewriting this article to replace the original one I wrote then because I also redo the table as well. This new one is not much different – a little more and the fence is improving: New with a new fence design: I got rid of variable insertion in the middle: In nine years with the help of a table, I have never replaced the insertion. Instead, I use a sacrificious back, usually a scrap of plywood: It's replaced quite often - two to three times a year. You might want to watch the video build before you get into the project details: 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 clamped into a drilled and precise square: When I did the original, I also scratched the vertical line on the column and used a small piece of self-adhesive measuring tape to denote the table support position: It tells me at a glance whether the table is centered toward the head. Getting a lined table is perfectly not worth it, it just has to be pretty close. I drew the center line on the new top and used a bit of Brad Point to position it: I want it to come as close as possible to the column without actually touching it. I'm snapped to the base to line up a table parallel to this: Again, it doesn't have to be accurate. As he lined up, I reached the bottom 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 V notch in them to fit around the bolts: These blocks also hold the top in place later, and a pair of shorter ones keeps it in place from front to back. Two counter-fences for carriage bolts that hold the top and 3/4 work in the middle: The locator pad blocks with a mark at the bottom and gluing them into place: I used a bolt carriage, a washer and a nut to clamp the block while installing glue. The room was quite big and comfortable. So this one has a couple of 2 holes for clamps: Once the glue has dried I tried it on the metal table, but found it was a little tight. I shaved a little off one of the locator blocks with a sharp stamé: And then it fits: Fence Fence is a little harder. I started with a sub fence - a piece of spruce cut to size and made sure it sat square to a new top: Using one of my homemade squares for this. This part can also be made of two layers of 1/2fanery glued together. Face parts for fencing 1/2 plywood and high needs a notch cut at both ends. I made it to the table sawing, cutting part of the way: And then finishing the cut using my mini-table saw the sanoi: The biggest change on new fence - a stop-block arrangement. Parts of the face form a T-track for a regular toilet bolt to fit in: The lower parts also have a notnation along the bottom for chip clearance: They are optional, however. Assembling a fence with glue and pins to keep the details in line: It's important to check to make sure the toilet bolt slides freely in the slots before clamping it: All four of my power clamps are wedged into action, as well as four of my (now) back-up metal clamps. The parts that clamp the fence to the top are quite small, so I like to cut them off from a longer margin after drilling counterbors and holes: Much safer in this way. Clamps assembled: And a fence mounted on top with a stop block in place: And here's the application of these clamping holes: Again, I'm not sure how often I'll use them, but they're there if I need them. That's a lot for fencing, since I don't use that often, either. I didn't put any trim on the original and it held up just fine. It's become a bit messy, and that's what I'm basically looking for to prevent a clear coating of the new one: It's worth noting that such a table can make it difficult to use a lift/bottom crayon. I expanded the mine for the original, but another option is to plant the top with layers of plywood on a metal table: In the upcoming project, I'll be changing the arrangement of the crayon again to stretch past the side of the table. There are easy-to-follow step plans available for this project: Drill Press Tables Plans Go to basic content Family Handyman Build this deluxe press table drill to simplify clamping woodworking projects and keep them steady while drilling. Or build a simplified version of the same thing. Either way you will improve the results of the press drill. According to DIY experts Family Handyman MagazineYou can also like: TBDDrill press table preferencesDrill presses are designed to work with metal, not wood. That's why, 10 years ago, I screwed an old scrap of 3/4-in. trimmed plywood to a metal table so I could screw or pinch stops and fences. Honestly, I was confused by it and finally built this dedicated woodworking drill press table. Mine just over the top, with dadoes, plastic laminate and T-Tracks. Solve it if you like. The truth is that you can make a quick and light top, bolted two glued layers of chipboard to the cast iron table from the retracting part. You can screw or pinch temporary stops and fences before that and have a serviceable table. But your desk won't be like pulling out or as easy to use as mine. Fence: The semicirver opening for the cartridge allows you to drill holes that are close to the fence. Throat plate: Inset 1/2-in. Variable throat plate takes abuse so the top does not have to. T-Tracks: are universally useful gizmos that allow you to endlessly customize jigs, fences and retention. Content. this table, they are used for sliding fence and maintenance. Laminate: Plastic laminate both on top and bottom will keep the top from deformed with changes in humidity. Sagging: Strapping the edge of the wood protects a rather delicate core from sufficience - plus, that's enough. Building recommendationsHere's review of the construction process for this homemade press table drill. Glue the 1-v. oversized chipboard panels together and then cut them to a size on a table saw. Edge-stripe on both sides of the table, then belt-sand on top so that solid wood was flush with surfaces. Cut the squares of laminate 1 v. oversize and apply them with contact cement. Then unwrumble the squares of laminate flush with flushing and chamfering them with a 45-degree bit. Strike out the 1/2-in.-deep recess for the throat plate. Cut out 3/4-in.-wide dadoes on a table saw. Cut out the gap hole on the fence with a 2-1/2-in hole. The lag screws (1-1/2 x 5/16 inch) and washers are perfectly fit to secure the new top to the existing drill press table. T-Track instructions will tell you the rest. This DIY press table drill has sliding clamps, a sliding fence and a sturdy laminate top. You can download and enlarge Figure A in the Additional Information below. You will also find a complete list of materials in the Additional Information below. Additional informationContracting tools for this DIY drill press table ProjectYou do not have the necessary tools for this DIY drill press table project lined up before you start - you will save time and frustration. Tape grinding verdleClampsDrill bit setDrill/driver - wireless saw kitMiter sawRouterTable saw you will also need three bits of router: straight cut-out bit, rinsing bit and 45-degree slime. The necessary materials for this DIY drill press table ProjectAvoid last minute shopping trip, having all your materials ready in advance. Here's the list. Cement contactsPremises the list of materials in additional informationDere-glue Built-in tables that come on most drilling presses, a little underestimated for woodworking and they do not have enough fencing to help with drilling repeated holes down a piece of wood. So since I had a few pieces of MDF scrap and a bit of T-Molding stayed from my previous workbench build, I thought now would be a good time to make a nicer table and fence for my press drill. The top started similar to the top of the work unit, using a 3/4 MDF piece for the bottom. But to avoid having to route grooves for T track and insertion, I instead cut out individual 1/2 MDF pieces to build the top around the track and insert. After I had all the parts for the top cut to size, I went ahead and cut out three variable inserts as well. It's 5 x pieces and shift 1 to the left of the Bit. They can be sliding, rotating and flipping to get as much benefit out of them as possible before they need to be replaced. Before 1/2 piece could be glued, I needed to cut a notn in one of the pieces to take a short piece of T-track to be used with hold. I started by cutting a piece of aluminum T track to the length of a hacksaw and used it as a guide to mark where to cut the noting. Then I headed to the group saw to make the cut. Next, I started gluing and clamping individual 1/2 thick top pieces. I used a T-track and inserts as spacers and help align all the pieces. Once everything was glued, I made sure to remove the track and inserts to prevent any squeeze-out from gluing them into place as well. Then added a little more weight to the top and waited for the glue to dry. One thing I would recall was the diversity in height between different T-track brands. A gold colored T-track that I used INCRA and just under 1/2 high, making it work well with 1/2 MSF. The blue composition is from Rockler and is about 3/8 tall, as is the grey track from Taylor Toolworks. It's just something to keep in mind if you're making a top using thinner plywood that's not exactly 1/2 thick. Also note that the interval of holes varies between brands. The INCRA track has holes scattered every 3, while Rocker has holes every 4 and Taylor Toolworks holes scatter every 6. After the glue dries on the top pieces, I used a quart to trace the curve on the front two corners. I then used a jigsaw to cut off the corners and polished them smoothly, making sure they were still square to the top surface. To install the 1.25 T-formation, I started into the back left corner and worked my way around the top using a little wooden glue. To make it easier to bend stucco in the corners, cut three or four small notchs in the tongue of modeling. I then used small strips of ribbon artists as clamps to keep the stucco tight to the edge until the glue dried. To make the stucco as dense as possible in the center, I pressed one of the inserts into place and then used the tape to pull the stucco tightly against it. The next day I turned around and cut off the extra T-modeling with a sharp knife. Once T-Molding is complete, I apply a quick layer of boiled flaxseed oil to the entire table (top and bottom). One coat won't do very much to protect it, but it's a bit darkened, making it a little nicer to watch. Next, it is time to consolidate the new table to the press table drill. I started by making two 1/2 thick glues with 1/2 thick MSF. Then I stuck and screwed one of the cleats along the back of the bottom of the new table. After centering the table on the drilling press, I marked the location of the left cleat and then glued and it as well. For the front and right sides, I cut the cut high culling with 3/4 MDF and anti-borated and drilled hole for T-nut in the center of each. Then I marked the location of each cleat on the bottom of the table and the foreway holes in both the cleat and bottom of the table. Since the screws will go to the edge of the MSF, I attached each glue using two long cabinet screws (flat head screws) to keep the MSF from splitting. I also made sure the T-nut collided inside so it wouldn't be pushed out later with my thumbs. After that, the new table can be pinned to the drilling press with a pair of thumbs. It also makes it very easy to delete a table later if necessary. Please note that the original press drilling tables will vary by manufacturer, so in some cases a pair of switch clips may work better. Then there was the fence. I started by cutting a piece of 1/2 and 3/4 MDF length on a washing saw, then ripped 1/2 OF MDF into two pieces and 3/4 into one piece at the saw table. To have the press cartridge drill bump on the fence, then I cut the groove in the top center of the front of the 1/2 and 3/4 on the closer saw. The idea for assembling a fence was to use a 1/2 piece for the bottom, followed by a shorter 3/4 piece on top of what would hold a piece of T-Track. The 2nd piece of 1/2 MSF will then be glued to the front only to create a smooth surface. After I had all the parts cut to size I just stuck and stymed a 3/4 piece in place. Note that it is important that the surface of the bottom of the fence is clamped flat, so that it does not bow in front of the fence. While the glue was drying, I measured and cut out bits of T-track for the fence. Then I re-vibrated and screwed them into place. After this was done, I stuck the front piece of 1/2 MSF into place, making sure the top was flush with the top of the T-track.After the glue dried on the fence, I then clasped its square across the table to find holes to be used to attach the fence to the bolts in the T-track. Finding in a good place where the handles would be easy to turn, I drilled a hole on either side of the bottom of the fence. Because the star handles I used had plastic lock washers, I needed to move the puck using a flat-head screwdriver to make the bolt easily carved. Before installing the last T-track, I went ahead and put several layers of polished wiping and fencing on the table with a little light grinding between the layers. Finally, it's time to set the remaining T-track. First I used a little super glue and then knocked the track into place. Then I found out and screwed the track down. Since I had a few small scraps left, I went ahead and made a moving stop for the fence using a saw group. To do this, I just cut a piece of MDF 3/4 and 1/2, pressed two in the shape of L and screwed two parts Then I drilled the hole hole Another bolt and a stellar handle to finish everything up. After using it several times already, I think the table and fence will be very convenient. And the presence of a vertical line marked in the center of the fence, definitely helps when making repeated holes down the edge of the workpiece. I've also ordered the hold of the clamp for use in the T-track, and it seems to be working really well so far to secure pieces of wood to the table. As far as dust collection goes, I decided to keep things simple for now. The hold can be used to easily secure a vac hose store in place, so I'll probably buy or build a special hold for this soon. Well, it wraps up this collection! Don't forget to check out our other Instructive and our AroundhomeDIY.com as well. If you have any questions, comments or suggestions, please leave them below! Free SketchUp and PDF plans for this project can be found on our website: AroundHomeDIY.com AroundHomeDIY.com

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