



Swing-Out Screwdriver Arm for 1/4" Pegboard - No Headroom Needed



Simmer65

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Summary

A screwdriver rack with holes needs empty board above it so you can lift the drivers out. This one swings out instead, s

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Hole-style racks waste pegboard space

A screwdriver rack with holes holds drivers better than one with slots, because they can't slide out the front. But you have to lift each driver straight up to get it out of its hole. That means leaving an empty strip of board above the rack, about as tall as your longest screwdriver. That's wasted pegboard.

This rack is on a hinge. Swing it out from the board and the drivers lift out with nothing above them in the way. Swing it back flat against the board, to either side, and you can hang other tools right above it, so you can pack the board tighter.

Each hole has a counterbore that the end of the handle sits in, so the drivers stand straight and don't tip over. The hinge mount screws to the

pegboard with two 3D printed 1/4"-20 screws, so the arm doesn't wobble or lift off when you grab a driver.

How it goes together

- **Hinge mount:** a plate with two countersunk holes that screws to the pegboard, plus two knuckles that hold the arm.
- **Arm:** fits between the knuckles and has 5 holes in a single row for screwdriver shafts, 0.625" (15.9 mm) across.
- **Counterbores:** each hole has a 1.144" (29.1 mm) counterbore, 0.250" (6.4 mm) deep, on top. The end of the handle sits down in it, so the screwdriver stays upright instead of leaning or tipping over.
- **Hinge pin:** a 1/4"-20 × 2-3/4" hex head bolt runs through the knuckles and the arm, with a flat washer at each end and a hex nut. The arm is 0.750" (19 mm) thick in a 0.770" (19.6 mm) gap, so it swings freely. It swings 90° either way from straight out, so it folds flat against the board to the left or the right.
- **Two printed screws:** they hold the mount to the board. No hooks are needed.

The knuckles have diamond-shaped pin holes, so they print standing up without supports.

How the screws work

This is the same printed screw I use on my [Screw-in Pegboard Holder for 1/4" Driver Set Case](#).

- **Grips the hole:** the 1/4"-20 UNC thread is made oversize, 0.265" (6.7 mm) across in a 0.250" (6.35 mm) pegboard hole. It bites into the edge of the hole and holds tight.
- **Self-centering:** a tapered tip, 0.125" (3.2 mm) long and narrowing from 0.240" to 0.218" (6.1 to 5.5 mm), drops into the hole and centers the screw as you start it.
- **Flat-blade drive:** the screws have a 0.080" (2 mm) slot and are driven with an ordinary flat-head screwdriver.
- **Seated heads:** the 0.726" (18.4 mm) 90° countersunk head sits down in a 0.924" (23.5 mm) 90° countersink in the hinge mount, so the head ends up just below the surface.
- **Size:** each screw is 0.611" (15.5 mm) long overall.

Pegboard compatibility

- Standard pegboard with 1/4" (6.35 mm) holes on 1" (25.4 mm) spacing

- The two mounting holes are 4.000" (101.6 mm) apart, so they line up with pegboard holes four apart, one above the other
- Tested on 3/16" (4.8 mm) thick pegboard
- Not for IKEA Skådis or other slotted boards

Dimensions

- Arm: 7.625" (194 mm) from the hinge pin to the tip, 1.750" (44 mm) wide, 0.750" (19 mm) thick
- Screwdriver holes: 5 in a row, 0.625" (15.9 mm) across with a 10° taper. They fit shafts up to 5/8".
- Counterbores: 1.144" (29.1 mm) across and 0.250" (6.4 mm) deep, with a 10° taper and chamfered edges. They fit handle ends up to about 1-1/8" (29 mm).
- Hinge mount: 5.400" (137 mm) tall; knuckle stack 2.750" (70 mm) tall
- Folded: 8.575" (218 mm) long and sticks out 2.625" (67 mm) from the board
- Swung out: the tip reaches about 9-3/8" (238 mm) from the board

The STEP files are included if you want to change the hole or counterbore size, or the number of holes.

Print settings

All the parts print together on one plate. I printed them on a Prusa CORE One with the stock PrusaSlicer profile.

- Printer: Prusa CORE One, 0.4 mm HF nozzle
- Slicer profile: 0.25mm STRUCTURAL @COREONE HF0.4 (PrusaSlicer 2.9.6)
- Material: Generic PETG, 250 °C nozzle, 85 °C bed
- Layer height: 0.25 mm (first layer 0.2 mm)
- Perimeters: 2
- Infill: 15% grid
- Top / bottom solid layers: 4 / 3
- Supports: none
- Brim: none
- Orientation: arm flat with the counterbores facing up; hinge mount on its back with the knuckles standing up; screws standing on their heads

Plate estimate (arm, hinge mount and 2 screws): about 119 g of filament (39.1 m), 3 h 35 min in normal mode, 3 h 58 min in stealth mode.

You'll need

- 1 × 1/4"-20 × 2-3/4" hex head cap screw for the hinge pin ([McMaster-Carr 91257A553](#); the CAD model is available there)
- 1 × 1/4"-20 hex nut
- 2 × 1/4" plain steel flat washers, one under the bolt head and one under the nut
- A flat-head screwdriver to drive the printed screws

Assembly and installing

1. Put a washer on the bolt. Set the arm between the two knuckles and push the bolt down through the top knuckle, the arm and the bottom knuckle. Add the second washer and the nut, and tighten it until the arm swings with a little drag. If it's too loose, the arm will flop.
2. Hold the hinge mount against the pegboard and line up its two holes with pegboard holes four apart, one above the other.
3. Start each printed screw in its hole. The tapered tip centers it.
4. Turn the screws in with a flat-head screwdriver until the mount is snug against the board. Stop there, because plastic threads strip if you overtighten them.
5. Drop your screwdrivers into the arm. The handles settle into the counterbores.

To move the arm, unscrew it and screw it in somewhere else.

Contest

Entered in the Printables Designer Challenge: Pegboard Wall Organizers.

If you print one, please post a Make and show what drivers you put in it.

Model files



pegboardscrewdriverrackarm1.3mf



pegboardscrewdriverrackarm1.step



pegboardscrewdriverrackhinge1.step



pegboardscrewdriverrackscrew1.step

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