

Modular Tape Storage



RyukyuD

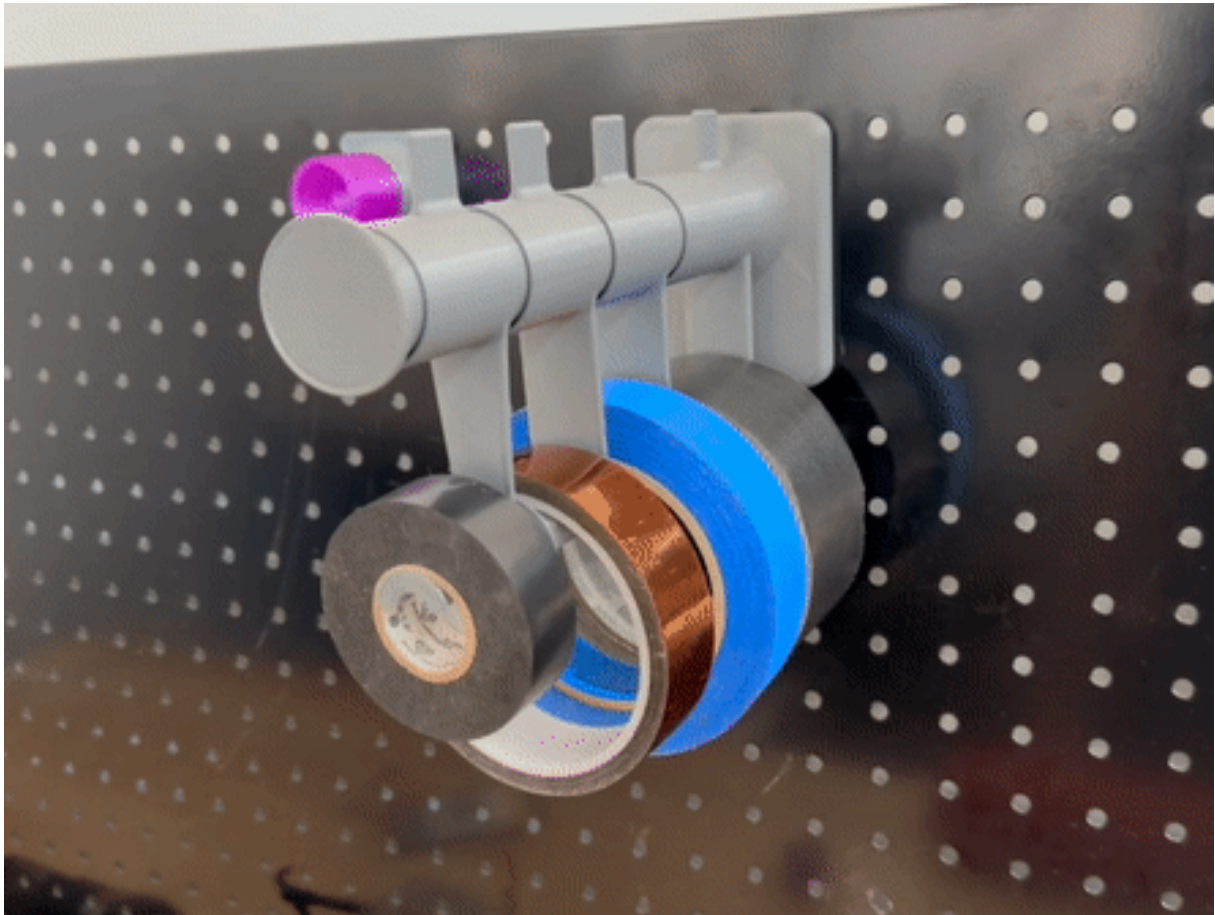
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Summary

A storage solution to hang multiple rolls of tape and keep individual access to each roll

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I used to store my tape on a dowel, but I had to remove all of the rolls if I wanted to use one on the back of the dowel. This model stores tape rolls on hanging arms that can swing out for easy (one handed) access.

You'll need to print a few parts:

Dowels and hangers: Select the right size dowel and hangers, along with the end cap. The dowel is modular, so you can always add on more pieces to extend it. If you need other size dowels or hangers, please let me know.

Base plate and pegs: There are currently files for Ikea Skadis pegboards, 1in x 1in pegboards, as well as the '**Honeycomb storage wall**' by @RostaP. The pegs are printed separately, then clipped onto the base plate. There are arrows to help orient the pegs in the correct direction. The honeycomb base plate has the legs already integrated into the base plate (no separate pegs).

There's also a non-pegboard base that can be attached to a wall with screws.

Tolerances are .2mm, so I recommend calibrating your E-steps and flow rate before printing these parts.

How to calibrate E-steps: <https://all3dp.com/2/extruder-calibration-6-easy-steps-2/>

How to calibrate flow rate: <https://www.printables.com/model/81314-flow-calibration-cube>

Print settings

All parts print with no supports. Connectors have only been tested with PLA. Softer, more compliant filaments may not snap together securely. There are test connectors in files if you want to see what works.

Pegs: .12mm layer height, .44mm layer width, and 10 walls (so they print solid). No supports required.

All other files: No special settings required. Recommend at least 3 walls. No supports required.

Assembly

When clipping in the pegs, make sure the arrows/triangles on the pegs point in the same direction as the arrows on the base plate. You may need to get them in 70% of the way, then press the plate flat on a table to get them to 'pop' in. Also, the clips tend to develop blobs/zits all around. Be sure to clean those up with a razor blade: If you don't, the clips won't fit properly.

Updates

- 10/3/2022 - Added base plate for the 'Honeycomb Storage Wall' by @RostaP
- 9/30/2022 - Added 5mm spacers for the dowel hangers.
- 9/29/2022 - Added 4.5mm, 5mm, and 6mm straight pegs
- 9/28/2022 - Added 3.9mm peg for 3.2mm thick (1" x 1") pegboards
- 9/27/2022 - Added 1/4" pegs for 3/16" thick (1" x 1") pegboards

This remix is based on



Honeycomb storage wall

by RostaP

Model files



Dowel segments & hangers

9 files



dowel_end_cap.stl

☐ The end cap to prevent the hangers/sleeves from sliding off the dowel



5mm_hanger_spacer.stl

☐ Used to space the hangers apart on the dowel. Slides over the dowel.



dowel_seg_35mm.stl

☐ 35mm useable length dowel segment. 55mm long overall (+20mm for connector interface)



dowel_seg_55mm.stl

☐ 55mm useable length dowel segment. 75mm long overall (+20mm for connector interface)



dowel_seg_105mm.stl

☐ 105mm useable length dowel segment. 125mm long overall (+20mm for connector interface)



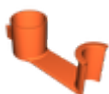
dowel_seg_180mm.stl

☐ 180mm useable length dowel segment. 200mm long overall (+20mm for connector interface)



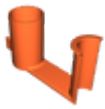
25id_90od_35mm_width_hanger.stl

☐ Hanger for small tape rolls, such as electrical tape. holds tape up to 30mm wide



sleeve_31id_39mm_drop_35mm_hanger.stl

☐ Hanger for larger tape rolls up to 30mm in width (e.g., 1" painters tape)



sleeve_31id_39mm_drop_55mm_hanger.stl

☐ Hanger for larger tape rolls up to 50mm in width (e.g., 1.88" masking tape)



Ikea Skadis base plate & pegs

3 files



base_plate_skadis.stl

☐ Can use up to 5 pegs



skadis_3mm_peg.stl

☐ Peg for 3mm thick Skadis boards



skadis_5mm_peg.stl

☐ Peg for 5mm thick Skadis boards.



1in x 1in peg board base plate & pegs

9 files



base_plate_2x3.stl

☐ A base plate that spans across 6 peg squares/zones (2 wide, 3 tall). Can use up to 11 pegs



base_plate_1x2.stl

☐ A compact base plate that spans across 2 peg squares/zones (1 wide, 2 tall).



peg_clip_25in_for_sheet_metal_board.stl

☐ 1/4in diameter for (14ga+<2mm) thick sheet metal peg boards. Use for any/all peg positions



peg_clip_25in_for_1875in_thick_board_straight.stl

☐ 1/4in diameter for 3/16in (4.7mm) thick peg boards. Use for every position below the top row



peg_clip_25in_for_1875in_thick_board_hooked.stl

☐ 1/4in diameter for 3/16in (4.7mm) thick peg boards. Use for the top row only



peg_clip_39mm_for_32mm_thick_board_straight.stl

☐ 3.9mm diameter for 3.2mm thick peg boards. Use for any/all peg positions



peg_45mm_straight.stl

☐ 4.5mm diameter peg. 11mm long. Use for any/all peg positions



peg_5mm_straight.stl

☐ 5mm diameter peg. 11mm long. Use for any/all peg positions



peg_6mm_straight.stl

☐ 6mm diameter peg. 11mm long. Use for any/all peg positions



Honeycomb base plate

1 file



base_plate_honeycomb.stl

☐ A base plate for @RostaP's 'Honeycomb Storage Wall'. Use with his 'insert-empty.stl'.



Pegless base plates

1 file



base_plate_screw_fastened.stl

☐ A base plate that uses counter-sunk screws instead of a pegboard



Test connectors

3 files



female_peg_clip_test.stl

☐ For use with skadis and 1in x 1 in clip-in pegs



male_annular_connector_test.stl

☐ Male connector test piece for the dowel connection



female_annular_connector_test.stl

☐ Female connector test piece for the dowel connection. Grooved side towards the male end

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