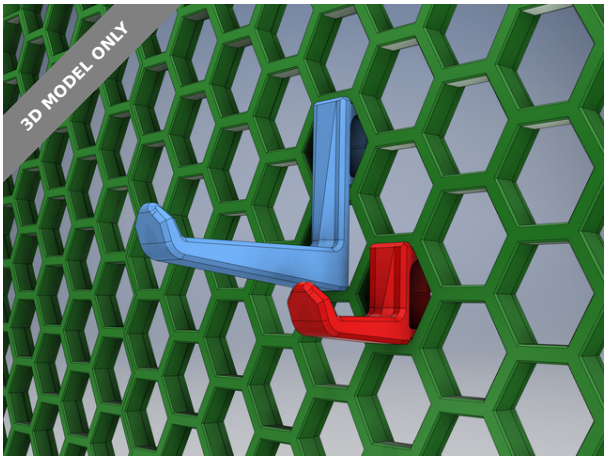
Printables by JOSEF PRUSA



Easy Print Super Strong Hook - Single Piece - No Screws - No Supports - HSW Honeycomb Storage Wall

KYZ Design

VIEW IN BROWSER

updated 22. 6. 2024 | published 22. 6. 2024

Summary

Think outside the... hexagon. Designed for 3D optimal layer direction, single piece, works like a peg-board hook.

Hobby & Makers > Organizers

Tags: hexagon wall hook board storage honeycomb peg organisation

Update 17/09/2023

- Added “HSW Ez-V1 Round Object Holder - 65mm Left”

Update 29/04/2023

- Added “Ez-V1” and “Ez-V2" hooks (14 files) which supersedes all other versions. These have been completely remodeled for improved strength, easier bed adhesion for ABS/ASA, more secure fit with

easier clipping, less side-to-side movement when installed and a cleaner look.
- Added 2 base clips for remixing.

Update 24/04/2023

- HSW Simple Hook 50mm Type 1 v1.1 added - stronger vertical section
- 3 “Ez” hooks added for easier install - these work better for PLA wall pieces, and the firm ones work better for PETG wall pieces.

I wasn't happy with the current hook designs as the layer direction was always sub-optimal, seemed wasteful and they do not hook on securely. Here are some easy print strong designs. No screws or supports needed and no need to print separate pieces to be able to mount them.

You will need good first layer adhesion - clean your build plate and get your first layer squish right or use a brim if you are using a warp-y material.

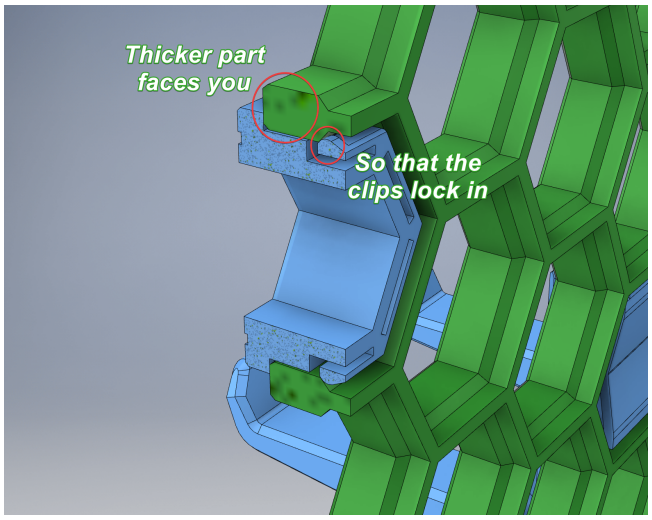
Print setting recommendations:

Material: PLA, PETG, ABS, ASA (PETG hooks will be a little less secure due to the reduced stiffness) Temperature: print on the hotter end of your material's temp range, the overhangs are 45 deg at most so it should print fine 0.4mm nozzle, 0.25mm all layer heights 2 walls, 30% grid infill If you have issues with fitment, you can try scaling it in only the "vertical" direction by adding or removing 1% or 2% (vertical direction when installed, not when lying flat) to give the detents more or less bite. Alternatively, try printing outer walls first for better dimensional accuracy.

Installation and removal:

Install like a pegboard hook - get the top in first, then the bottom. Remove by pushing up on the hook.

Make sure you install your Honeycomb the right way around! It seems to be a very common mistake. The thicker part of the honeycomb faces YOU. These hooks will not fit properly if you have your honeycomb the wrong way around. I made a diagram to clarify:



Enjoy!

If you would like to say thanks, you could buy me a few metres of plastic on Ko-Fi otherwise, please post a make and check out my other HSW models in this collection.

This remix is based on

Honeycomb storage wall

by RostaP

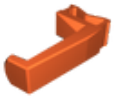
Model files

Ez-V1 Series Hooks - Single Cell 5 files

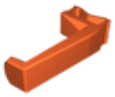
hsw-ez-v1-hook-10mm-v22.stl

hsw-ez-v1-hook-15mm-v22.stl

hsw-ez-v1-hook-20mm-v22.stl



hsw-ez-v1-hook-25mm-v22.stl



hsw-ez-v1-hook-30mm-v22.stl

Ez-V2 Series Hooks - Double Cell 9 files

hsw-ez-v2-hook-20mm-v22.stl

hsw-ez-v2-hook-25mm-v22.stl

hsw-ez-v2-hook-30mm-v22.stl

hsw-ez-v2-hook-35mm-v22.stl

hsw-ez-v2-hook-40mm-v22.stl

hsw-ez-v2-hook-45mm-v22.stl

hsw-ez-v2-hook-50mm-v22.stl

hsw-ez-v2-hook-55mm-v22.stl

hsw-ez-v2-hook-60mm-v22.stl

Round Object Holders (mirror in slicer for right side)

2 files

hsw-ez-v1-round-object-holder-65mm-left.stl

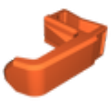
Designed for baby bottle tops

hsw-ez-v2-round-object-holder-58mm-left.stl

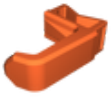
Designed for coffee tampers

Old Versions

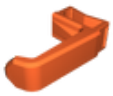
9 files



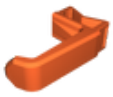
hsw-simple-hook-25mm-secure-v10.stl



hsw-simple-hook-25mm-ez-v10.stl



hsw-simple-hook-30mm-secure-v10.stl



hsw-simple-hook-30mm-ez-v10.stl

hsw-simple-hook-50mm-type-1-v10.stl

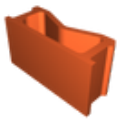
hsw-simple-hook-50mm-type-1-secure-v11.stl

hsw-simple-hook-50mm-type-1-ez-v11.stl

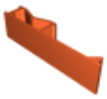
hsw-simple-hook-50mm-type-2-secure-v10.stl

hsw-simple-hook-bestagon-filler-v09.stl

Base Ez-V clips for remixing 4 files



hsw-ez-v1-hook-base-v22.stl



hsw-ez-v2-hook-base-v22.stl

hsw-ez-v1-hook-base-v22.step

hsw-ez-v2-hook-base-v22.step

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