



## Stacky - Modular and Magnetic Hexagonal Screw Tray



**tzachmost**

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### Summary

Magnetic screw tray that can expand to your needs.

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**\*\*\* UPDATE \*\*\* (04.05.2023)**

Small QOL improvements:

- stacky now fits better with itself (bottom hexagon is smaller, rounder fillet)
- embedded version has additional 0.2mm bottom layer to better secure bottom magnets on printers with meh leveled bed



## Endless possibilities

If you're looking for a better way to keep track of your small parts, Stacky is the answer you've been looking for. Stacky is a modular and magnetic hexagonal screw tray that can be easily snapped together with another identical Stacky for endless possibilities of customization and convenience.

## Two magnet mounting options

The two versions of Stacky available offer different benefits depending on your needs. The first version features embedded magnets, which require two pauses at the layers 14 and 45 during the 3D printing process (**at the end of printing those layers**, I use Cura so it might be different in other slicers). This creates a strong and secure hold that ensures your Stacky stays together and does not lose your magnets.

The second version uses friction-fit magnets, providing a simple and easy way to connect and disconnect your Stacky. It is a bit prone to losing magnets - drop of some glue will fix magnets in place, but I'd recommend messing with embedded version as it's the best one!

Both are of the same size and are compatible with each other.

## What do I need?

- some time
- 10 \* **4x2mm** neodymium magnets
- that's it :)

## What do I need to know?

You need to make sure your printer is dialed in, there are tight tolerances in this project. The diameter of the holes for the magnets in the friction-fitted version is 4.2mm (which is hard to press but stays in place!) and 4.3mm in the embedded version (to fit better on the printer bed during the pause) and 2.4mm depth. You can print a test from the “test” folder to check tolerances with your magnets. Be careful when inserting embedded magnets! In my case I ruined one print, because i moved the bed :P (I got Ender 3 Pro).

**Watch out for the polarity of the magnets!!**

## Printin' settings

- 0.2mm layer height
- infill: whatever works for you, even 10% is fine, i printed at 20%.
- supports (touching the buildplate)
- pause at layer **14** and **45** to insert magnets
- **side magnets have to have alternating polarity** (so each other magnet is reversed)
- bottom magnets should face the same direction, but if two Stacky's have bottom-oppisite magnets, they stick albo with their bottoms :)

## Download and a like is appreciated!

If you like the project, support me by using it! Or [support me on Ko-fi!](#)

Huge thanks to [@DrFeelgood](#), I got inspired by his **Interlockable Sorting Cups**.

This project is not a remix though, as it was designed from the ground up.

Hit me up if you would want to fit different magnet in the base! 1-2mm thickness magnets are best for this design.

# Model files

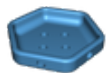


**Stacky 43mm 4x2mm**

2 files



**stacky-43mm-embedded-4x2mm.3mf**

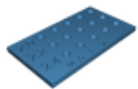


**stacky-43mm-friction-fit-4x2mm.3mf**



**Tests**

1 file



**4x2mm-magnet-fit-test.3mf**

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