Modular shelving system - Hobby & Workshop - Small parts storage

layerguru.com

VIEW IN BROWSER

updated 27. 2. 2023 | published 27. 2. 2023

Summary

Modular drawer/sortainer system for every hobby workshop and parts/ tools type - Endless number of combinations!

Hobby & Makers > Organizers

Tags: organizer modular hobby smallpartsstorage organizers smallpartscabinet smallpartsorganizer smallpartsdrawer

This collection will be updated with new models from time to time! Ideas and suggestions on sizes and features are welcome!

Support my work by purchasing printed parts from layer.guru - premium quality custom printing services.

Modular shelving system - Hobby & Workshop - Small parts and tools sorting and storage!

With stop-lip to prevent drawer falling out, endless number of combinations.

Wire Spool used in photos is here: LINK

Main Features:

- Modular - combine elements in any way for any type of storage purpose.
- Stop-lip prevents drawers from falling out - lift to pull the drawer out
- Removable nameplates for quick and easy exchange of labels
- Various sizes and compartment number/type
- Removable separators
- Designed for 3d print - excellent printability
- Peg system for connecting the elements

IMPORTANT:

All elements have tight tolerances by design and on purpose! I needed something that would be sturdy and without any rattling or elements/ drawers falling out. My printers are finely tuned and produce dimensionally very accurate parts so i do not have any issues with parts fitting as they should, tight but very smooth. Please keep this in mind if your printer is not well tuned or at least make sure it's not over-extruding by a lot. NO PARTS need sanding or any post processing to fit nicely, at all! With elements tilted, drawers should slide out smoothly without jamming or binding on any side. DO NOT re-orient parts on slicer import, all STL's already have correct print orientation! All parts have 0.4mm chamfer applied on the surfaces in contact with print bed, to offset for elephants foot, however, if you squish your first layer too much, there may be a “rim” around the first layer that would prevent the drawers from smoothly sliding into the elements.

Updates:

Date	Details
06.07.2022.	• Added STEP files for easier remixing. • Added new open element with 2 removable separators - 007
07.07.2022.	• Added new element - 008 - Double wide with 3 deep drawers with removable compartment separators
08.07.2022.	• Added screw adjustable peg for super easy assembly.

Print:

Can be printed in any material, my favorite for this kind of things is PLA and PETG.

3 perimeters, 5 solid layers for top/bottom, 0.4mm nozzle

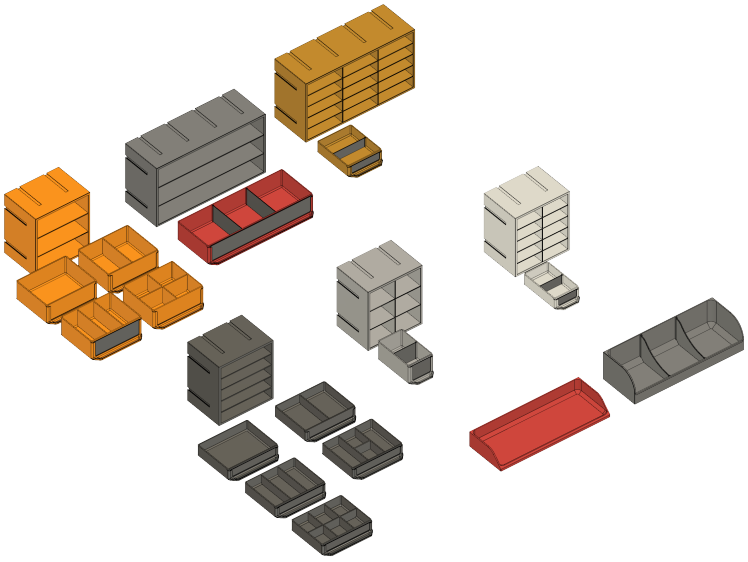
All my models print without any supports!

Filaments used in photos:

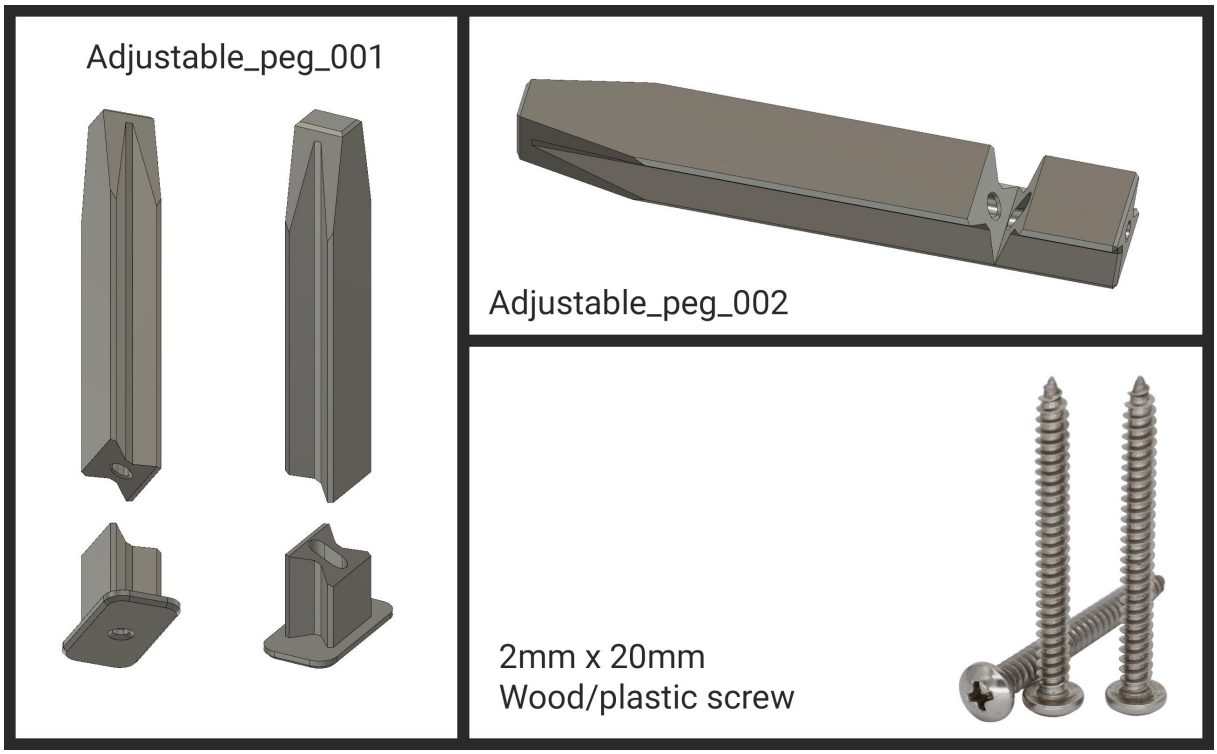
- 3DJake - ecoPLA Dunkelgrau
- Fillamentum - PLA Extrafill Melon Yellow
- Extrudr - PETG neon orange

Files:

- STL's have a correct orientation - just import and print
- STL's are named “Modular___001__...” where 001 marks the sortainer type/group

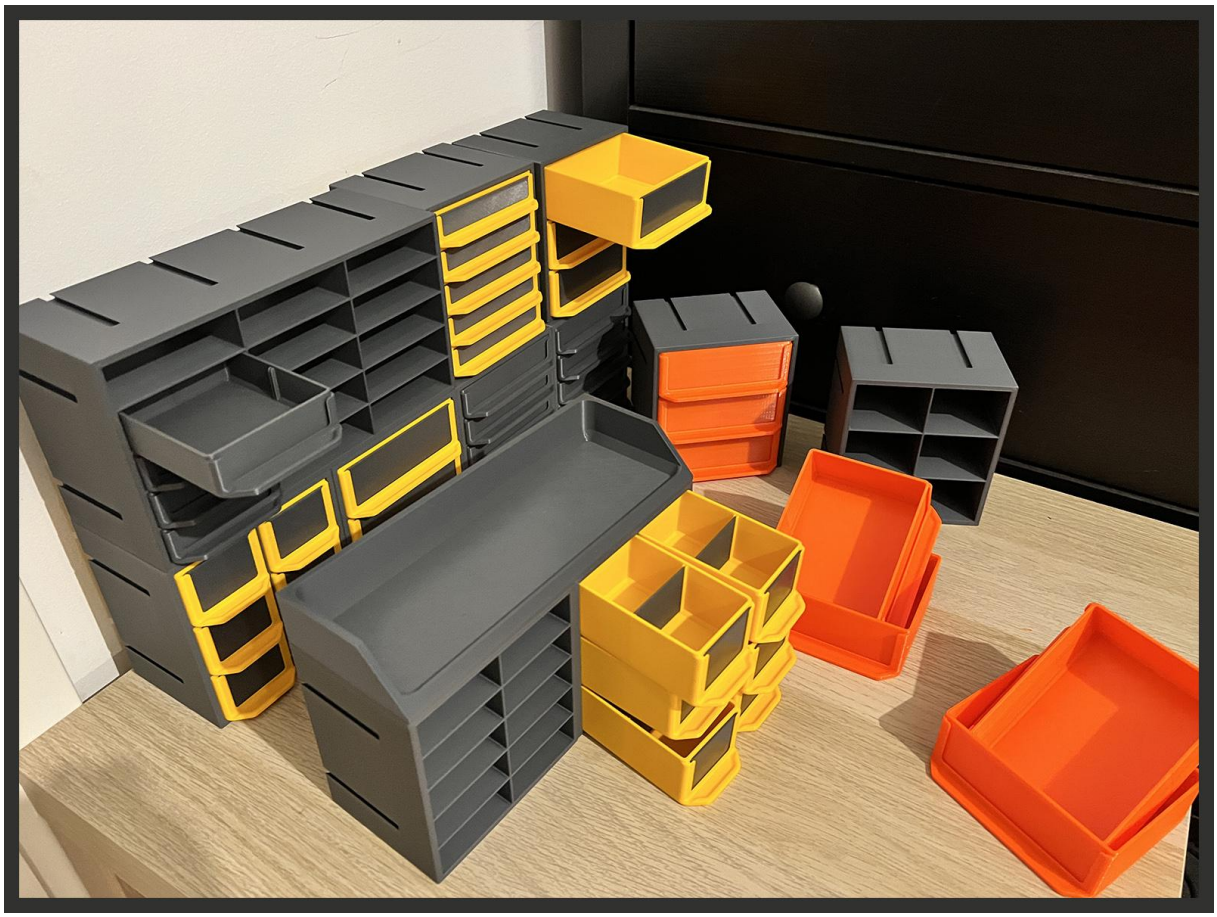


Sortainer type/size grouping



Screw adjustable peg for super easy assembly. Simply use one of 2 designs and 2mm x 20mm wood screw, or screw for plastic.

Stop-lip prevents the drawers from falling out but still allows for very easy insert/remove



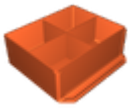
Nameplate/label plate is easy to insert and remove.

Happy sorting!

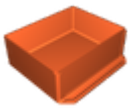
Model files

modular__001___main.stl

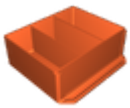
modular__001___nameplate.stl



modular__001___x4.stl



modular__001___x1.stl

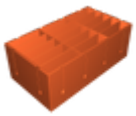


modular__001___x3.stl

modular__001___x2.stl

modular__004___main.stl

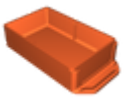
modular__003___main.stl



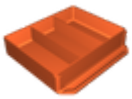
modular__005___main.stl

modular__003___nameplate.stl

modular__004___nameplate.stl



modular__004___x1x2.stl

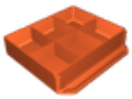


modular__003___x3.stl

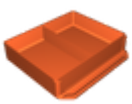
modular__002___separator.stl

modular__002___nameplate.stl

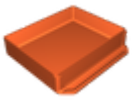
modular__004___separator.stl



modular__003___x6.stl

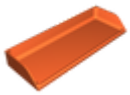


modular__003___x2.stl



modular__003___x1.stl

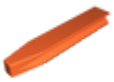
modular__005___nameplate.stl



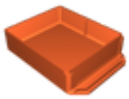
modular__006___main.stl

modular__002___main.stl

modular__005___separator.stl

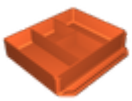


modular__peg.stl



modular__005___x1x2.stl

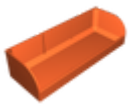
modular__002___x1x2.stl



modular__003___x4.stl

modular__003___main.stl

modular__007___separator.stl



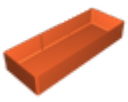
modular__007.stl

drawer_003.step

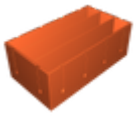
element_003.step

modular__008___separator.stl

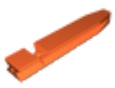
modular__008___nameplate.stl



modular__008___x1.stl

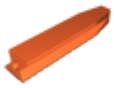


modular__008___main.stl



adjustable_peg_002.stl

adjustable_peg_001__b.stl



adjustable_peg_001__a.stl

License