

Gridfinity Box For Stuff (BFS) - 20 BIN Version 2.1



MyStoopidStuff

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Summary

A box to put your 20 Gridfinity bins full of stuff in. Updated to version 2.1 (2/10/2024)

[Hobby & Makers](#) > [Organizers](#)

Tags: [box](#) [organizer](#) [storage](#) [gridfinity](#) [boxforstuff](#) [bfs](#)

6/29/2024: There is a new version 2.3 of this case with the following improvements:

- Thicker and wider gasket
- New mounting cleat system (which can be previewed on [this](#) design)
- No changes to the overall dimensions of the case
- Available in 6U, 9U and 12U deep sizes

You can find the new version here:

<https://www.printables.com/model/927798-gridfinity-box-for-stuff-bfs-20-bin-version-23-lat>

Ever needed to get your stuff together, y'know, get it all together and put it in a box, all your stuff, so it's all together? Well I did, so I made this thing. It's a Box For Stuff, which will hold twenty 1x1x6u [Gridfinity](#) bins (all together).

The files here have been updated to Version 2.0 with the following improvements:

- 1. Improved label design with more robust pins. (v2.0)**
- 2. Improved handle design (which should be easier to install) (v2.0)**
- 3. Increased the hole diameter where the M3 SHCS install into the hinges (increase to 5.8mm) (v2.1)**

The old V1.0 files have been moved to a folder named "OLD VERSION 1.0 FILES - 20BIN", for folks that need them.

It requires the following hardware:

(2) M3 x 12mm SHCS (these hold the latch "cleats" to the top of the case)

(4) M3 x 20mm SHCS

(4) M3 x 25mm SHCS

(2) M3 x 30mm SHCS

(80) 6x2mm Cylinder Magnets - OPTIONAL (I used 6x3mm, which seem to work OK too)

(SHCS = Socket Head Cap Screws)

There are two versions of the base included, one is "plain" and the other has a groove for a TPU gasket. I printed the TPU gasket version and with A98 shore TPU (what I had around), and it will not be water tight. So I think the gasket is only going to be helpful with a much softer TPU (or possibly by filling the groove with soft silicone). I'm open to suggestions on improving the gasket design, but I prefer it, and it does not cause any functional issues to use it (or not).

If printing the gasket version of the base, I recommend that you test that your printer can run TPU without issues first. The cap of a sharpie is the tool I use to press the TPU gasket into place. The gasket is not symmetrical so make sure to verify the position before installing it. Start by pressing in the middle of the gasket along all 4 sides, then once it's set in position, press in the corners.

There are also two versions of the top, one is designed for an MMU/AMS and features the "**Unofficial Gridfinity Logo**" (or at least the best copy of it I could make of it, since the .svg's did not load correctly from github). The other version is, you guessed it, plain with no logo, for single color printers.

Finally, there are three versions of the labels for the front of the case. The first is designed to be used with 12mm Brother P-Touch (or similar) labels. The second is a multi-color label using the "**Unofficial Gridfinity Logo**". And

finally, there is a plain label included, in case you want to use the slicer tools to add embossed text to it.

I have a [build guide on my blog](#) with some tips on assembly. The instructions are for a case with more features, but it shows how to assemble the latches and hinges. The parts will need to be oriented in the slicer, and are designed to print without supports. I recommend using gyroid infill, and [arachne](#) for the “wall generator”. Arachne is needed at least for the multicolor parts, which have some thinner lines that may not resolve well using the “classic” wall generator. Adaptive layer height may also help cut down on print time on the larger parts. The print settings I used are the OrcaSlicer defaults, with the following changes:

Strength > Infill > Sparse Infill Pattern > Gyroid

Quality > Wall Generator > Arachne

Others > Bed Adhesion > Brim Type > Mouse Ear

If using the top with the logo, I recommend disabling the prime tower, unless your bed has room for it:

Others > Prime Tower > Disable

Other stuff:

If you need some **bins for small parts**, the following bins with covers are a good option to use with the Box For Stuff [20 bin](#) and [25 bin](#) cases (or other 6U tall cases):

1. [1x1, 1x2 \(3 Compartment\) and 1x4 \(6Compartment\) bins with lids \(3U, 6U and 9U\) - version 2.1](#)
2. [1 compartment 2x1 \(6U\) bin with a magnet pickup tool](#)
3. [1x2, 1x3, 1x4 \(6U, 9U and 12U\) Lidded Bin for Stuff with Latch Version 2.0](#)
4. [2x2, 2x3, 2x4 \(6U, 9U and 12U\) Lidded Bin for Stuff with Latch Version 2.0](#)
5. [3x3, 3x4 \(6U, 9U and 12U\) Lidded Bin for Stuff with Latch Version 2.0](#)
6. [4x4, 4x5 \(6U, 9U and 12U\) Lidded Bin for Stuff with Latch Version 2.0](#)

If you want to check out my other **Gridfinity cases**, you can find them at the links below:

1. **Gridfinity Box For Stuff [20 bin \(6U\)](#)**
2. **Gridfinity Box For Stuff [25 bin \(6U\)](#) (max size for a Bambu X1C/P1S)**

3. **Gridfinity Box For Stuff 16 bin (6U) (Ender 3 size)**
4. **Gridfinity Box For Stuff 16 bin - 12U deep version (Ender 3 size)**
5. **Gridfinity Box For Stuff 2 bin (6U) mini version (can be used to test)**

Additionally, there are some **alternate latch parts** which may help if you do not have the M3x30mm screws or have difficulty installing the latch "cleat".

If you want to store some small hardware and need some good labeled bins, **Ch3vr0n** posted some segmented bins for the Gridfinity system here:

<https://www.printables.com/model/732655-gridfinity-boxes-for-gridfinity-box-for-stuff-20-b>



If you find these models useful, please post a like or a comment with some pics of your prints.

You can find the other things I'm working on at my blog [here](#). You can also follow me here on Printables to see what new stuff I post. If you would like to support my work, you can Buy Me A Coffee using this link:

<https://www.buymeacoffee.com/mystoopidstuff>

Thanks for looking!

Thanks and Acknowledgements:

The models here could not have been made without the work of **Zach Freedman**, who introduced the world to Gridfinity, and then set it free for everyone to use. These models are not based on direct remixing of Zach's original models, but they are fully compatible, and use the same, or a

similar specification for the bin bases, bin lips and base grids, which Zach Freedman developed. Zach Freedman's work is available on [Thangs](#), and you can find examples of his Gridfinity designs [here](#) and [here](#), which are available under his MIT license. If you like this model, or want to learn more about Gridfinity, you can check out Zach Freedman's [YouTube](#), or **you can support Zach Freedman's work on Patreon ([patreon.com/zackfreedman](#)).**

Changelog:

Update 1/20/2024: Thanks to some helpful feedback, the files here have been updated to the version 2.0 design, which will help with assembly. The images included here are of the V1.0 design (which is cosmetically very similar to the V2.0 design).

Update 2/10/2024: I had two reports that installing the M3 SHCS would crack the hinge on the V2 models. The problem seemed to be related to slightly different size screw head diameters between M3 screws (I have measured between 4.9-5.6mm diameters). To address that problem, I've updated the files here to Version 2.1, which has a bit more clearance for larger M3 SHCS heads (the pockets are 5.8mm diameter).

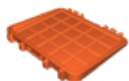
Update 6/10/2024: Although the V2.3 is on the way (hopefully this week), I added a couple of molds which are intended for casting a silicone gasket. My thought was to use RTV for this casting, but other silicones should work with it as well. The molds have zero shrink factored in, and are 1:1. I have not tested them, so I placed them in the folder named "Experimental - TPU Gasket Molds". I think PETG would be a good material to use for the molds, but it may be worth testing first, since this is a one part mold and getting the gasket out may be difficult. I could probably modify it to be a 2 part mold, but it seems shallow enough that I think this one part mold may be OK. Feedback is welcome, and I will update here when I have a chance to try it out.

Model files

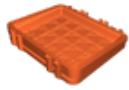


PLAIN AND SHARED CASE DESIGN FILES

9 files



gridfinity_20b_v2-1_top.stl



gridfinity_20b_v2-1_base.stl



gridfinity_v3c_latch_top_cleat.stl

☐ PRINT 2 OF THESE



gridfinity_v2-1_latch_tab_left.stl



gridfinity_v2-1_latch_tab_right.stl



gridfinity_v2-1_latch_clasp_left.stl



gridfinity_v2-1_latch_clasp_right.stl



gridfinity_20b_v2_handle.stl

☐ Updated Version 2.0 Handle (not compatible with V1.0 models)



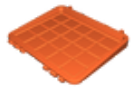
gridfinity_20b_v2_label_blank.stl

☐ Updated Version 2.0 Label (not compatible with V1.0 models)



TOP WITH LOGO

4 files



ridfinity_20b_v2-1_top_w_logo.stl

☐ Load all files in this folder together into the slicer



gridfinity_20b_v2-1_top_w_logo_insert_a.stl

☐ Load all files in this folder together into the slicer



gridfinity_20b_v2-1_top_w_logo_insert_b.stl

☐ Load all files in this folder together into the slicer



gridfinity_20b_v2-1_top_w_logo_insert_c.stl

☐ Load all files in this folder together into the slicer



CASE LABEL FOR P-TOUCH 12mm LABELS

2 files



gridfinity_20b_v2_label_p-touch_a.stl

☐ Use with P-touch 12mm labels



gridfinity_20b_v2_label_p-touch_b.stl

☐ Use with P-touch 12mm labels



CASE LABEL WITH LOGO

5 files



gridfinity_20b_v2_label_logo_a.stl

☐ Load all files in this folder together into the slicer



gridfinity_20b_v2_label_logo_b.stl

☐ Load all files in this folder together into the slicer



gridfinity_20b_v2_label_logo_c.stl

☐ Load all files in this folder together into the slicer



gridfinity_20b_v2_label_logo_d.stl

☐ Load all files in this folder together into the slicer



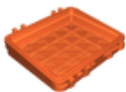
gridfinity_20b_v2_label_logo_e.stl

☐ Load all files in this folder together into the slicer



BASE WITH GASKET

2 files



gridfinity_20b_v2-1_base_w_gasket.stl



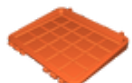
gridfinity_v3c_base_tpu_gasket.stl

☐ PRINT WITH TPU



OLD VERSION 1.0 FILES - 20BIN

19 files



gridfinity_v3c_top.stl

☐ Version 1.0 PLAIN BASE WITHOUT A LOGO



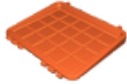
gridfinity_v3c_base.stl

☐ Version 1.0 PLAIN BASE WITHOUT A GASKET



gridfinity_v3c_latch_handle.stl

☐ Version 1.0



gridfinity_v3c_top_w_logo.stl

☐ Version 1.0



gridfinity_v3c_top_w_logo_inlay_a.stl

☐ Version 1.0



gridfinity_v3c_top_w_logo_inlay_b.stl

☐ Version 1.0



gridfinity_v3c_top_w_logo_inlay_c.stl

☐ Version 1.0



gridfinity_v3c_top_w_logo_inlay_d.stl

☐ Version 1.0



gridfinity_v3c_base_w_gasket.stl

☐ Version 1.0



gridfinity_v3c_base_label_plain.stl

☐ Version 1.0 PLAIN LABEL FOR ADDING YOUR OWN EMBOSSED TEXT IN SLICER



gridfinity_v3c_base_label_logo_a.stl

☐ Version 1.0



gridfinity_v3c_base_label_logo_b.stl

☐ Version 1.0



gridfinity_v3c_base_label_logo_c.stl

☐ Version 1.0



gridfinity_v3c_base_label_logo_d.stl

☐ Version 1.0



gridfinity_v3c_base_label_logo_e.stl

☐ Version 1.0



gridfinity_v3c_base_label_p-touch_a.stl

☐ Version 1.0 USE WITH 12mm BROTHER P-TOUCH OR SIMILAR LABELS



gridfinity_v3c_base_label_p-touch_b.stl

☐ Version 1.0 USE WITH 12mm BROTHER P-TOUCH OR SIMILAR LABELS

gridfinity_v3c_top_w_logo_inlay.3mf

☐ Version 1.0 ORCASLICER 3MF FOR THE TOP WITH LOGO - MULTICOLOR

gridfinity_v3c_base_label_logo.3mf

☐ Version 1.0 ORCASLICER 3MF FOR THE BASE LABEL WITH LOGO - MULTICOLOR



Experimental - TPU Gasket Molds

2 files



gridfinity_20b_v2-1_base_gasket_mold_screws.stl

☐ Mold to make a Silicone Gasket - with holes to install screws



gridfinity_20b_v2-1_base_gasket_mold_6mm_magnets.stl

☐ Mold to make a Silicone Gasket - with holes to install 6x3mm magnets

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