



Rugged Box with Modular Slots (Parametric) - Normal height



Whity

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Summary

Parametric rugged box with customizable inserts.

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Tags: [parametric](#) [gopro](#) [box](#) [organizer](#) [aa](#) [sd](#) [case](#) [modular](#) [nozzle](#) [e3d](#) [fusion360](#) [aaa](#) [storage](#) [battery](#) [storagebox](#) [toolbox](#) [lab](#) [seal](#) [microsd](#) [nozzles](#) [inserts](#) [insert](#) [ruggedcase](#) [rugged](#) [revo](#) [a1](#) [parameterized](#) [f360](#) [parameter](#) [bambu](#) [organizecables](#) [bambulab](#)

The rugged box and inserts are based on my parametric “[Rugged Box](#)”.

The size of the inserts (and the box itself) can be modified in Fusion 360 (f3d file available in the files section).

There's also a [version which has more shallow slots](#) and provides different container inserts.

Support my work

For non-Prusa parts and filaments, check out 3DJake ([International](#), [UK](#), [Germany](#), [France](#)).

I'll get a small cut of any order you fulfil using these links (at **no** additional cost for you 😊).

If you want to support my work directly, you can [buy me a coffee](#).

If you want to order a Prusa printer and earn some Prusameters (I will also get some), you can use my referral code "**@Whity**" at checkout or click one of the following links

(the code only works for the first order of each printer model):

| [CORE One](#) | [CORE One Kit](#) | [MK4](#) | [MK4 Kit](#) | [MINI+](#) | [MINI+ Kit](#) | [XL](#) | [SL1S](#) | [SL1S+CW1S](#) |

Also check out [my other models](#).

Updates

02.01.2024:

- Added new inserts (Revo/Bambu Nozzles)
- Updated 3MF & Fusion 360 files

Inserts

In Fusion 360 you can increase the "InsertDummies" parameter to add additional blank inserts to design your own ones very easily.

Various inserts are included already:

- Simple container (1-4 slots wide)
- AA/AAA batteries
- SD/microSD cards
- GoPro 8 / GoPro 8 batteries
- E3D Revo Nozzles
- Bambu Lab A1 Nozzles

Assembly

You will need six M3 screws to assemble it:

- 3 Slots => 20mm
- 5 Slots => 25mm
- 10 Slots => 30mm

Cut a piece a foam (~10 mm thick) for the lid to hold down the inserts when closed.

Screws

I like these screws which have a nice round head:

[Allen hex socket button head screw](#)

Or, if you want no screw head at all, which I personally like even more:

[Hex socket set screws](#)

Note: I recommend the stainless steel ones. The blackened ones are oily and have to be cleaned.

This remix is based on



Rugged Box (Parametric)

by Whity



Rugged Box with Modular Slots (Parametric) - Shallow height

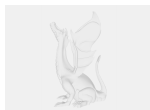
by Whity

Model files



Fusion 360 Files

1 file



modular-slots-rugged-box.f3d

☐ Go to "MODIFY" => "Change Parameters" to customize it



3MF Files

2 files



modular-slots-rugged-box.3mf



modular-slots-rb-inserts.3mf



3 Slots

4 files



modular-slots-rb-3-slots-bottom.stl



modular-slots-rb-3-slots-top.stl



modular-slots-rb-3-slots-latch.stl



modular-slots-rb-3-slots-seal.stl

☐ OPTIONAL



6 Slots

4 files



modular-slots-rb-6-slots-bottom.stl



modular-slots-rb-6-slots-lid.stl



modular-slots-rb-6-slots-latch.stl



modular-slots-rb-6-slots-seal.stl

☐ OPTIONAL



10 Slots

4 files



modular-slots-rb-10-slots-bottom.stl



modular-slots-rb-10-slots-lid.stl



modular-slots-rb-10-slots-latch.stl



modular-slots-rb-10-slots-seal.stl

☐ OPTIONAL

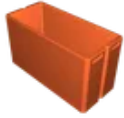


Inserts

12 files



modular-slots-rb-insert-container-1x.stl



modular-slots-rb-insert-container-2x.stl



modular-slots-rb-insert-container-3x.stl



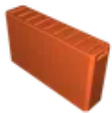
modular-slots-rb-insert-container-4x.stl



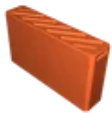
modular-slots-rb-insert-aaa.stl



modular-slots-rb-insert-aa.stl



modular-slots-rb-insert-microsd.stl



modular-slots-rb-insert-sd.stl



modular-slots-rb-insert-gopro-8.stl



modular-slots-rb-insert-gopro-8-batteries.stl



modular-slots-rb-insert-revo-nozzles.stl



modular-slots-rb-insert-bambu-a1-nozzles.stl

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