



## Cosmic Symmetric Stashbox

 **SMACKMAX\_**

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### Summary

Storage box inspired by scifi and gaming. I challenged myself to make a symmetric box this is what i came up with!

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### Update 03-01-2023

The project got quite a bit of attention please read some of my additional notes below. And thank you all for the feedback!

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Here, I present yet another storage contraption, this one sporting a fully symmetrical design which was the challenge I had in mind. Please read the text below before printing.

Consider following me on Instagram (@SMACKMAX\_). I try to post all of my prints, renders, and animations to build a portfolio of my projects, often in advance of publishing the models. This way, you can get a sneak peek of what's coming next!

My name is Christiaan, working in the urban wastewater field by day, and by night, design items inspired by sci-fi, space-age, and gaming aesthetics. My design philosophy revolves around FORM>FUNCTION. some of the projects can be quite complex to print and assemble so keep that in mind and read the notes.

If you enjoy my style and would like to support the creative process, consider making a donation through PayPal. Your contribution will go directly towards more filament, funding printer upgrades, and more engineering time that goes into bringing new projects to life.

[https://www.paypal.com/donate/?hosted\\_button\\_id=XTLND2YQYQFFU](https://www.paypal.com/donate/?hosted_button_id=XTLND2YQYQFFU)

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### **Requirements:**

4 x Rods with a diameter of 8 mm and a length of 195 mm (i used aluminium 8mm about 2 euros per meter at the local hardwarestore)

Filament of your choice for 3D printing (i used fiberlogy copper,gray and graphite PLA)

8 x Allen bolts (4x15 mm) (used for attaching the Handle/Grill File to the side plates)

12 x Allen bolts (4x10 mm) (used for securing the rods in a fixed position, used in side plate and the locking Wing file)

4 x Allen bolts (5x20 mm) (used for attaching clips)

4 x Hex nuts (M5) (used for attaching clips)

superglue (used for attaching the option tray butt file, but this makes it no longer truly symmetric, and if needed to secure the Clam to the side plate but should pressure fit)

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### **Things to note:**

-The rods can be any material but I found the aluminium can be a bit oval, the sliding action needs perfect 8mm rods to slide nice and free.

-Sanding the contacting surfaces might be needed for smooth operation

-Heat can be used to press in place bolts and nuts if they don't cooperate

-Handle and Grill file can be switched for a fully symmetric look

-print orientation(all need support): Shells should be printed with the lips pointing upwards, sides can be printed on their back, handle and grill on their back as well (handle needs support under the bridge), wing lock should be printed like an arrow pointing upwards, the clips go on their side.

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### **(03-01-2023) additional notes:**

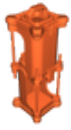
- I have added a video showing how the mechanism works;
- I have added superglue to the list of needed materials and made small notes where what hardware goes)
- Added additional note and picture about my suggested print orientation;
- The tray butt is an optional file that needs to be glued in place, due to it not making the thing symmetric;
- The Shell needs to be glued to side plate if your friction fit is not enough (mine does not use glue);
- The design is zero-tolerance, so drilling out some of the holes might be needed;

Video:

### **Keys, Tags SEO BS:**

3D enthusiast, Civil engineer, Fusion 360 designer, Creality Ender 6 user, Sci-fi aesthetics, Gaming-inspired designs, @SMACKMAX on Instagram, Printables.com contributor, Thingiverse.com contributor, Technical precision, Over-engineered flair, 3D printing artist, Unique 3D-printable designs, Creative engineering, Fusion of art and technology, Functional 3D prints, Innovative 3D projects, DIY 3D printing, Maker community, Fusion 360 proficiency, Creality Ender 6 capabilities, Instagram showcase, Printables.com portfolio, Thingiverse.com creations, "Cosmic Symmetric Stashbox", Stylish storage solution, Fusion of functionality and style, Artistic 3D prints, Imaginative creations, Sci-fi-inspired, Futuristic designs, Galactic elements, Space-age aesthetics, Cosmic vibes, Storage innovation, Secure valuables, Organizer creation, DIY storage, Innovative containers, 3D-printed organizers, Futuristic storage solutions, Modern home storage, High-tech compartments, Space-efficient design

# Model files



**t1-full-model-dont-print.stl**

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**c1-locking-wing.stl**

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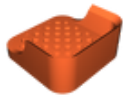
**c1-clipppy.stl**

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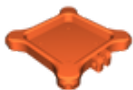
**c1-grill-cover.stl**

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**c1tray-butt.stl**

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**c1-side-plate-print-twice.stl**

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**c2-clam-shell-print-twice.stl**

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**c1-handle-orna.stl**

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**c1-printable-rod-not-recommended.stl**

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