



PRUSA CORE one - COREBOXX



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Summary

Filament storage system for Prusa CORE one

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After the success of my [enXLosure](#) for Prusa XL, I am excited to announce my latest Project;

COREBOXX → The Filament Storage System for Prusa CORE one!

COREBOXX is an all-in-one platform for neatly storing, organising, and managing filament. It is fully printable on the CORE one itself and is extremely easy to build and assemble, with very few required parts.

It is designed to fit neatly into the Prusa CORE design language while retaining all the printer's functionality.

This is the Standard version which;

- Mounts on top of the CORE one machine, or sits aside the machine on the desk
- Supports 5 spools of 1kg filament (up to 72mm in width)
- Keeps all functionality of CORE one (including front access to chamber vents)
- Is fully 3D printable on CORE one itself.
- Is designed to feel and look in-line with the design language of CORE ONE.
- Has a full-access door that closes magnetically
- Has a strong frame design, which mounts with sturdy heat set inserts

There is also a **premium version available (paid model) which adds;**

- Magnetic mounting to the CORE one frame
 - Full support for in-built MMU3 with built-in passive buffer system
 - A service hatch to easily maintain the MMU when necessary, without removing a bolt.
 - Extra mounting points for future accessories
 - Short MMU to nextruder bowden tube of 52,5cm
 - Passive, rewinding spoolholders for neat MMU buffering
 - STEP files for easy modding
 - Pre-sliced gcodes
 - Fully prepared Prusaslicer project files
-

Printing instructions;

All 3D printed parts are pre-oriented to print most optimally. To make sure the parts are strong, please use the uploaded prusaslicer project files or gcodes.

If you slice the files yourself, please make sure to have at least 3 perimeters and 25% homogeneous infill (cubic or gyroid). Also, make sure that all wall thicknesses are a minimum of 0.7mm thick, and that the “ensure vertical wall thickness” option is enabled.

If you print this on a machine with a 300mm or larger bed, you can re-orient the frame parts to print without supports.

Total printing time;

- Main color → 4days, 12hrs - Split over 5 gcodes
- Secondary color → 7hrs, 16min - Split over 2 gcodes

Total printing material;

- Main color → 2.6 Kgs
- Secondary color → 160 grams

Building instructions;

I made a detailed, 57-page build-/ user manual that can be found here;
<https://drive.google.com/file/coreboxx> manual

Hardware list;

- All panels (3mm acrylic, bottom_panel 5mm)
- All frame parts, 3D printed in PETG (please adjust scale for shrinkage)
- All accessory parts (3D printed in PETG, accent color)
- All panels (3mm acrylic, bottom_panel 5mm)
- 90x M3x8 bolt (SBHC most visually appealing)
- 88x M3 heat-set insert (M3 x 5d x 4h)
- 4x M3 locknut
- 20x 686 ZZ bearings (6 x 13 x 5)
- 10x shaft of 6mm diameter, 80mm length
- 11x PC4-M6 PTFE tube coupler. (thru feed)
- 3m PTFE tubing (2,5mm ID, 4mm OD)
- 4x 6x3mm neodymium magnet

Tools;

- Screwdriver (Same type as your bolts)
- Superglue
- Soldering iron, ([Heatset tool](#) recommended)

Hardware kit

If you do not want to deal with the hassle of self-sourcing all parts, or do not have access to a lasercutter, we made kits available for purchase (\$99) via;

- Aliexpress; [COREBOXX kit - via Aliexpress](#)
- Blurolls direct store (5% savings); [COREBOXX kit - via Blurolls](#)

We will have kits available from warehouses in the EU and USA soon. Kits are checked and use high-quality polycarbonate, fasteners, and lead-free inserts.

I do get some compensation from all sales made, so buying the kits supports me as a creator

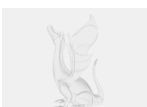
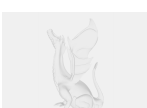
Get involved!

Stay updated on the latest developments and join in on future development choices& more by joining our discord server here;
<https://discord.gg/Am5hsrCZjn>

Support & Funding;

Running a project like this costs me hundreds of hours & euros of engineering, building, testing, and scrapping parts/ electronics. If you think the project is worth more than the list price, or want to donate to help and support it, you can always consider buying me a beer via www.buymeacoffee.com/voxel3d. It supports me a great deal, and I appreciate every donation a lot.

Model files

 Panels - Standard		6 files
	panel_top.dxf ☐ Polycarbonate 3mm, clear/ smoked	
	panel_side-2x.dxf ☐ Polycarbonate 3mm, clear/ smoked	
	panel_back_standard.dxf ☐ Polycarbonate 3mm, black	
	panel_door.dxf ☐ Polycarbonate 3mm, clear/ smoked	
	panel_bottom-gen2.dxf ☐ Polycarbonate 5mm, black	



coreone_replacement_toppanel-gen2.dxf

☐ Polycarbonate 2mm, clear/ smoked



Frame

8 files



frame_rightfronttop.stl

☐ Print 1x, Main color, Support needed



frame_leftfrontbottom.stl

☐ Print 1x, Main color, Support needed



frame_leftfronttop.stl

☐ Print 1x, Main color, Support needed



frame_leftreartop.stl

☐ Print 1x, Main color, Support needed



frame_rightreartop.stl

☐ Print 1x, Main color, Support needed



frame_rightfrontbottom.stl

☐ Print 1x, Main color, Support needed



frame_leftrearbottom.stl

☐ Print 1x, Main color, Support needed



frame_rightrearbottom.stl

☐ Print 1x, Main color, Support needed



Adapted frame parts for MK-series

3 files



frame_leftrearbottom_mk.stl

☐ print instead of normal LRB



frame_leftfrontbottom_mk.stl

☐ print instead of normal LFB



frame_leftfronttop_mk.stl

☐ print instead of normal LFT



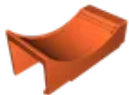
Spoolholder - Unbuffered

4 files



5-way_ptfe_splitter.stl

☐ Print 1x, Secondary color



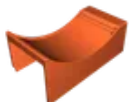
spoolholder_unbuffered_l.stl

☐ Print 1x, Main color, Support needed



spoolholder_unbuffered.stl

☐ Print 1x, Main color, Support needed



spoolholder_unbuffered_r.stl

☐ Print 1x, Main color, Support needed



Accessories - Standard

3 files



part_ventswitch.stl

☐ Print 1x, Secondary color



part_handle.stl

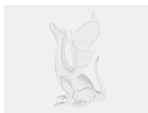
☐ Print 1x, Secondary color



part_hinge-2.stl

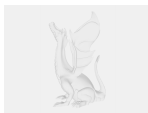
☐ Print 2x, Secondary color

Other files



coreboxx_building-manual.pdf

☐ Extensive manual for kit users before 07/04/2025



coreboxx_building-manual-gen2.pdf

☐ Extensive manual for kit users after 07/04/2025

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