



Prusament Masterspool Adapter with integrated Silica Container

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Summary

This is a Prusament to Masterspool adapter with an integrated silica container.

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This is yet another Prusament to Masterspool adapter, however this one has an integrated silica container (for about 35g).

Design goals:

- Integrate a silica container
- Keep the sides flat
- No glue
- Tool-free filament change (initial assembly requires a screwdriver)

Assembly:

You need a screwdriver and 4x M3 screws for initial assembly. It should be pretty self explanatory after looking at the pictures for a while.

There are two screw caps for the silica container, a wider one with vents and a narrower one without. The wider one is used to connect the flange to the container and therefore is used most of the time. When it's time to change the filament you can exchange the wider with the narrower one before you remove the flange. This prevents accidentally spilling the silica gel all over the place. This second screw cap is completely optional.

Optional Assembly:

If you take a closer look on the flanges you will find that I cut out 3 slots on each side for the zip ties (using a rotary tool). You will also find that I used one slot to fix the start of the filament. Of course you could use them as end slots too. A template for where to cut out the slots is attached.

Funnels:

I added a normal and an inverted funnel for spill-free filling and emptying of the the container.

Printing:

Use your slicer to split into individual parts. No supports needed. To get nice threads without overhang perimeters use 0.15mm layer height. Use variable layer height to reduce print time.

Inspiration taken from (in no particular order):

[Your last spool - Prusament Spool to Refill Adaptor \(Masterspool\)](#) by Michael

[Prusament Masterspool with real screws](#) by Chrismettal

[Malolo's Silica Gel / Desiccant Containers](#) by Malolo

[Prusament spool to master spool adapter](#) by zoltanf

Please leave a comment or a photo if you print it!

Model files

prusament-masterspool.stl





funnel.stl



prusament-flange-slots-template.stl

untested-prusament-masterspool-no-silica.stl

❏ !!! UNTESTED !!!

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