

Prusa MK4 Enclosure DIY

 **Daperrys32**

[VIEW IN BROWSER](#)

updated 8. 10. 2023 | published 8. 10. 2023

Summary

This is an enclosure for the MK4, and I believe the MK3.9 and other printers as well.

[3D Printers](#) > [Prusa Parts & Upgrades](#)

Tags: [diy](#) [modular](#) [enclosure](#) [mk4](#)

I just got my Prusa MK4 kit in the mail, and when I ordered it I wanted the enclosure, but could not afford it, so here we are. I made an enclosure that is completely printable, minus the glass used for all 6 sides.

All pieces are made with light friction fit tolerances in mind. I am using a scrap piece of glass from an old table and cut the glass to fit within the slots, the glass being just under a 1/4 inch thick. With a solid bead of silicone around all edges of the glass, it will be air tight enough for me besides the hinge for the door, but I just cut out foam for the glass and it does a decent job. The front glass is one big door to make it easier to load prints and spools in and out of. The door uses the 2.5 mm allen key that came with the assembly kit as a sliding latch to keep it shut.

For the printer fit inside, I included a big ol square that has the max outer dimensions of the printer on it, and as you can somewhat see in the second picture, it fits easily with one small modification. Instead of the two vertical spool holders that came with the kit, I did make my own spool

mount that holds only one spool, but sideways, and it fits just fine. Depending on the spools you have though, the regular holder may work fine. I do believe the MK3.9 shares the same dimensions, and I am sure plenty of printers have smaller dimensions, so plenty of printers should be able to make use of this. It is also modular as well, so there should not be any problem making it bigger or smaller.

This is my first printer and I have not done too many prints, so I am not going to post my print settings because I have no clue how it is going to hold up with how clueless I am. There is clearly a bunch more pieces (over 40 total parts once printed), and I have no clue if I uploaded it all correctly, but here is the Onshape Link. If anyone wants to give a step by step of how to upload this in a decent way if its wrong, let me know and I will give it a shot.

I am also unsure as to if the names carried over when I exported, but I had each piece labeled on Onshape ("Corner FBR" being the front, bottom right corner)

<https://cad.onshape.com/documents/1792eca2ea7fa79ebe052cb2/w/623aaff5296f596f8dea560d/e/a5b2b53a38982f04da59c4fe>

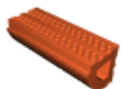
Model files



assembly-1.stl



assembly-1-part-1-3.stl



assembly-1-part-1-7.stl



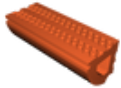
assembly-1-part-1-11.stl



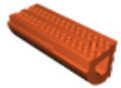
assembly-1-part-1-12.stl



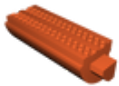
assembly-1-part-1-10.stl



assembly-1-part-1-4.stl



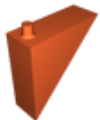
assembly-1-part-1-14.stl



assembly-1-part-1.stl



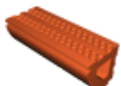
assembly-1-part-1-9.stl



assembly-1-part-1-13.stl



assembly-1-part-1-5.stl



assembly-1-part-1-6.stl



assembly-1-part-1-8.stl



assembly-1-part-1-1.stl



assembly-1-part-1-2.stl

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](#)



Attribution

-
- ✗ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✓ | Commercial Use
 - ✓ | Free Cultural Works
 - ✓ | Meets Open Definition