



MMU Under Shelf Auto Rewind Spool Holders



INeedOneDesigns

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Summary

Inspired by Vincent Groenhuis Auto Rewind Spool <https://www.thingiverse.com/thing:3200204> I decided I needed to make...

[3D Printers](#) > [Accessories](#)

Tags: [spool](#) [mmu](#) [mk3](#) [hanger](#) [rewinder](#) [filament](#)
[filamentspoolholder](#) [mk3s](#) [mmu2](#) [spoolmount](#)
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Inspired by Vincent Groenhuis Auto Rewind Spool <https://www.thingiverse.com/thing:3200204> I decided I needed to make under the shelf / Hanging Spool Holders for these.

This uses the metal rods and 608 bearings from the Prusa MMU spool holders.

I added a square end stop to the spring design from Vincent Groenhuis and then made some Hangers for them.

The Hangers print flat so easy to print and I printed mine in PLA. You need 1x Base and 2x Side Brackets for each set. The side brackets press firmly in to the base and you can then screw them up as one piece. Liking to make things easy for myself I made the base units slot together with tabs,

so once you have your first holder in place the others just push up and slot in to the existing one and you can then screw that in to place as well. Less measuring :)

Print the Spring at least in PETG I found PLA lost a bit of its springiness over time (PETG still going well). I also printed the

To assemble the Spool push one metal rod in to the square end stop through the spring, these are a tight fit so make sure you push it to the end.

Push a 608 bearing in to each side of the Wide Hub.

The spool hub and Spring push in to each other instead of just having to glue two flat pieces together. For mine they were a tight fit and I did not need glue on these new ones. If still a bit loose for you just use a bit of glue on the rim.

Once together you can push on the round Spool End Cap to the other side to keep it all together, again this is a snug fit so push it on all the way. To be sure you have this pushed all the way on the final length of the whole shaft including end stops should be 22mm - 23mm long.

I have included pictures so this should help.

I also made a through the shelf PTFE tube holder / feeder which takes the M10 PTFE tube connectors. see M10 Feeder Mount in the files section. You will need to purchase an M10 connector for each one.

Most of my Filament Spools work fine with this setup and stay centred on the spool, but I did find the odd spool would wonder slowly to the side of the spool. So I also made a clip on guide "Spool Holder Bracket Spacer Guide" in the files section. This pushes on to the Side Brackets (See photos its the black part on the side brackets) and it stops a Spool reel from wondering to far to the edge.

I found the Prusa Spool holders to be very fiddly to use, feeding the filament through holes and elbows etc. then only having a few inches to be able to feed the filament all the way to the MMU. With my new setup changing spools is very quick with load of space to feed / push filament down the tubes.

I hope you find this useful and please post a make to Thingiverse if you do make one.

FYI The Green Spool Holder in the pictures was PLA and you can see the spring lost a little springiness. The Black ones are PETG :)

Print instructions

I printed mine at 0.3 and I needed to select detect thin walls for these to print well.

Model files



spool_end_cap.stl



spool_holder_bracket_base.stl



spool_holder_bracket_side.stl



spool_v3.stl



spool_holder_bracket_spacer_guide.stl



m10_feeder_mount.stl



spring_v3.stl

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