

Hanging filament roller

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Summary

A simple hanging filament spool roller with two versions of the support frame.

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Tags: [spoolholder](#) [filamentspoolholder](#)

This is a simple hanging filament spool roller with two versions of the support frame. One version (`hanging_filament_roller1.stl`) hangs on a vertically mounted bracket (like the one provided with some Creality printers). The other version (`hanging_filament_roller4.stl`) uses a 4 or 5mm T nut to attach to a 20x20 frame.

The roller that fits in the frames is formed from two copies of the part “`hanging_filament_roller2`” joined by the part “`hanging_filament_roller3`”, a short rectangular bar in a press fit. A 608 style bearing fits on the nubs on either end of the roller.

9/5/2021 update

I also have included an offset, 20X20 mounted, reverse bowden mount (`ext rev bowden mount.stl`) I use with the hanging roller used on my Creativity ELF. It uses two PC4-M6 pneumatic fittings. You probably want to drill/ream the 2mm bore to ensure easy filament movement. It is offset to avoid filament rubbing on the spool edge.

I later replaced it with a version that has the bowden passthrough at a 22.5 degree angle for better function (rev bowden mount-22-5).

Print Settings

Printer Brand:

Creality

Printer:

Ender 3

Rafts:

No

Supports:

No

Resolution:

200

Infill:

20

Filament:

PolyMaker PETG

Notes:

No supports are needed. Print two copies of the roller half (hanging_filament_roller2.stl) standing upright. Join the two halves with the small bar (hanging_filament_roller3.stl).

The nubs at either end of the roller are axles for 608 bearings.

The bearings can rest in the depressions on the frame without attachment, or you can add a dab of CA glue to help keep them anchored.

Category: 3D Printer Accessories

Model files



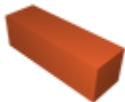
hanging_filament_roller2.stl



hanging_filament_roller1.stl



hanging_filament_roller4.stl



hanging_filament_roller3.stl



rev-bowden-mount-22-5.stl



ext_rev_bowden_mount.stl

[Find source .stl files on Thingiverse.com](#)

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