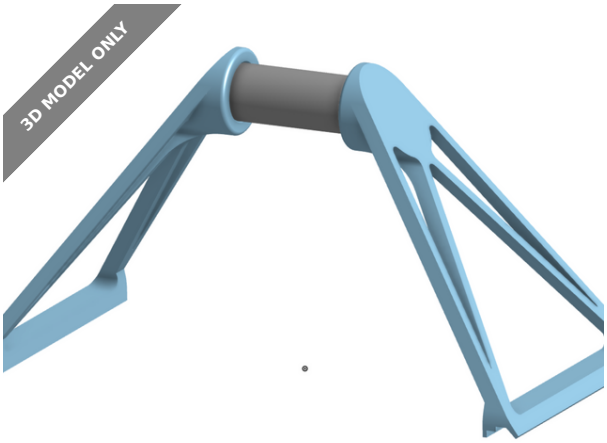
Printables by JOSEF PRUSA



Creality K1 Max top mounted filament spool holder for TPU, etc.

Mr TVR

VIEW IN BROWSER

updated 17. 1. 2024 | published 17. 1. 2024

Summary

This filament spool holder is designed to fit on top of the Creality K1 Max once the glass lid is removed.

3D Printers > Creality Parts & Upgrades

Tags: spool spoolholder filamentspoolholder tpu creality spoolmount filamentholder k1max

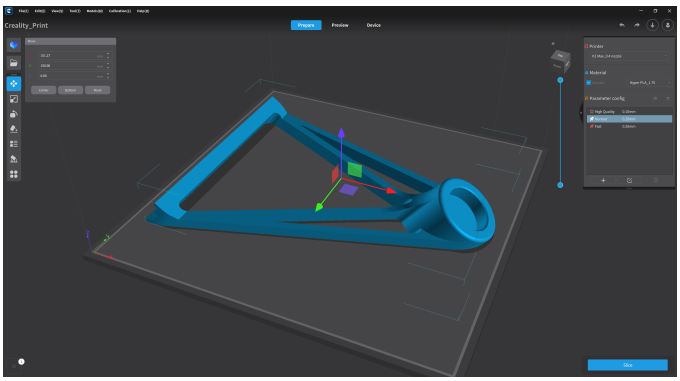
Why might you need this?

I designed this top-mounted spool holder to allow my Creality K1 Max to print TPU more reliably. This allows the filament to be fed directly to the extruder, thus removing the friction that occurs when feeding via the Bowden tube.

Whilst it could be used to feed any type of filament that does not require the top glass cover to be in place it might not be suitable for high-speed prints (possible vibration issues) or large-sized prints where inertia might cause the filament spool to release excess filament!

Print guide

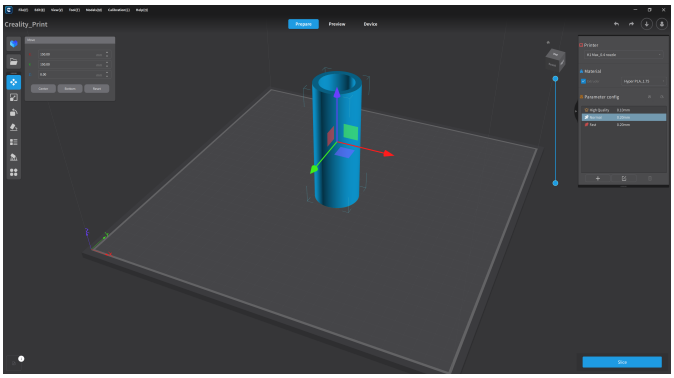
The side parts (2 off required) should be placed on the print bed with the large flat surface of the part on the print bed.



The roll should be placed on the print bed in an upright position.

Recommended print settings

Nozzle: 0.4
Layer height: 0.2
Perimeters: 3
Top/Bottom layers: 4
Infill: 15%
No Supports



I printed using Hyper PLA on a textured build plate without any build plate adhesion but with a bed temperature of 55 Deg C to make sure it remained in place.

Assembly is obvious, although you might have to use a bit of force the first time you fit the spool roll as I have deliberately made it a tight interference fit.

Note

You will either need to leave some filament in the filament runout sensor or alternatively unplug the runout sensor while using this stand to feed the filament.

Since my original publication, Micheal England mentioned that the careful arrangement of the three parts on the print bed allows the whole frame to be printed in one go. I have included some images of this to help if you feel adventurous!

If you like this then please remember to hit the like button.

Revision notes

V1 - Original release

V2 - Slightly tweaked to improve aesthetics, reduce print time & save filament.

Model files

k1-max-top-spool-holder-part-1-side-supports-v2.stl

k1-max-top-spool-holder-part-2-spool-roll-v2.stl

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