



Prusa MK4/MK3.9 y-rod-holder with thicker/stronger top



Chris Hill

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Summary

This is a remix of the original Prusa y-rod-holder, with a thicker top to make it stronger. Includes OpenSCAD script.

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Prusa's original y-rod-holder has a very thin section above the y-rod, which is prone to breaking if over-tightened. Furthermore, if printed in ABS, the top may show unsightly stress marks after tightening, even if it is not over-tightened.

This model increases the thickness over the top of the y-rod to increase its strength, such that it doesn't show stress marks even when tightened more than necessary. Space between the y-rod-holder and the underside of the y-carriage is limited, but this thickened part still leaves a gap of ~1mm.

Nothing else has been changed with respect to the original part.

For completeness I've included the OpenSCAD script that I used to generate this part, as well as Prusa's original part that is required by the script. There's probably scope to thicken the part by another 0.5mm without interfering with the underside of the y-carriage, so if you feel the need, the OpenSCAD script should be self-explanatory.

Print Settings

I printed all my MK4 parts for strength, so starting with the 0.2mm STRUCTURAL preset, then adding 4 perimeters, 5 top and bottom layers, and 40% cubic infill.

This remix is based on



MK4/MK3.9 printable parts

by Prusa Research

Model files



y-rod-holder-thicker.stl



y-rod-holder-r2.stl

y-rod-holder-thicker.scad

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