



Rod holder for 30mm rod (with Fusion360 file)

 **strugo**

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Summary

Holder for a 30mm diameter rod, to be screwed onto the top of a flat surface. Middle screw to fix rod from below.

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This is a simple but sturdy holder for a 30 mm diameter rod, to be screwed onto a flat surface from the top, with countersunk screws (head diameter 9mm, stem 4.1mm).

The rod is assumed to be wood, the fit with the holder is intended to be snug. The middle screw is intended to fix the rod against movement, but the main stress is intended to be taken by the holder.

You can change the prepared user parameters in Fusion 360, but the model is not fully parametrized in the sense that it won't break if you go too big or small. I guess rod diameters between 25 mm and perhaps 40 mm should work, screws a little bigger or smaller will work, too. Thickness of the baseplate can be easily adjusted (should work between 20 mm and 50 mm), height of the baseplate as well.

I used this to lift higher my self-built pull-up bar, which is hardwood with a diameter of 34 mm and itself rests on rectangular beams; printed in

extruder XPETG with a 0.8 nozzle and >10 layers; the printed model then weighs around 100 g.

While this should go without saying, this design has not been tested under any safety regulations and if you use it for your own purposes, you do so at your own risk.

Model files



holder-for-30mm-rod.stl



holder-for-30mm-rod.step



rod-holder-for-30mm-rod.f3d

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