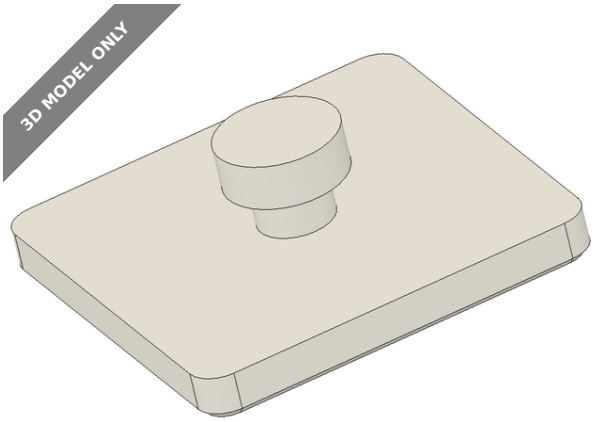

Parametric Keyhole Pin

NJJerrySmith

VIEW IN BROWSER

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Summary

A fully parametric drawing for a keyhole pin.

Hobby & Makers > Organizers

A fully parametric pin designed to mount items with a keyhole. Designed to top mount a power strip next to a 3D printer. Haven't tested for wall hanging, use at your own risk.

Because of the minimal clearance between the top of the base and the bottom of the pin, I didn't design in any chamfer or fillet to self support the pin, so best results achieved by printing with supports “everywhere”.

A few parameters drive the design.

1. Base: the side length of the base, always square and always 3mm tall
2. Shaft
    1. Diameter: shaftDia - the diameter of the column between the base and the pin
    2. Height: shaftHeight - distance between the top of the base and the bottom of the pin
3. Pin
    1. Diameter: pinDia - diameter of the top section
    2. Height: pinHeight - height of the top section

The pictured print 3mf is included (a 2mm x 2mm shaft, and a 3mm x 3mm pin). I've also included the fusion archive, so do with the model as you want! I'd like to see your remixes, link them to this model.

Model files

keyhole-pin-2x3.3mf

Base of 27mm, post diameter of 5mm and height of 2mm, pin diameter of 8mm and height of 3mm

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keyhole-pin-v1.f3d

Full parametric Fusion360 file

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