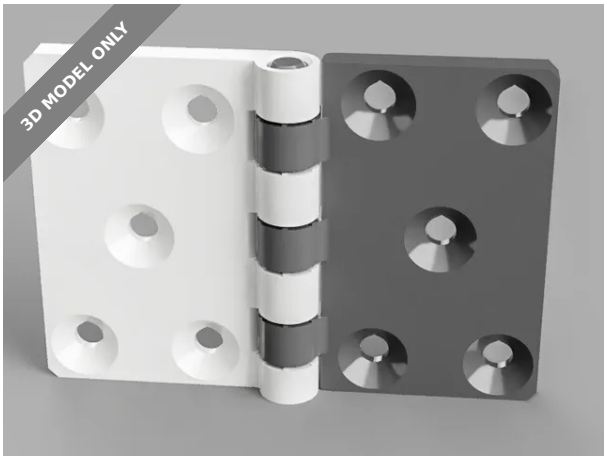


Stable Hinge ! upright printable!

Meister Edel

VIEW IN BROWSER

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Summary

Prototype of a stable and easy to print hinge.

Hobby & Makers > Mechanical Parts

Tags: printed fast hinge thingiverse strong stable durable scharnier upright tough stehend many

Some time ago I was looking for a nice hinge to finish the encasing of my printer.

Thanks to J-Max I found a nice hinge. It was easy to print and a lot stronger than the versions lying down. (https://www.thingiverse.com/thing:1396038)

But I have to admit that I was a little disappointed by the huge tolerances. As a result, the door hangs down badly.

So I tried to create a better hinge and soon found out about the problem. The layers were sticking together without mercy.

But after some time I came up with a solution which should be easy to reproduce and may be good for other projects too. I used this technique already in my holder for (Japanese) knifes.

Pro:

You can print more than 70 of them at the same time if you are crazy :D (Prusa MK3s)

They are very stable. even with tolerances of about 0,2 mm

You can fix it in many positions with 10 possible 3 mm wood screws (or others)

They have a great turn radius

One hinge prints under one hour (Prusa Slic3r: 0,2 mm Quality standard settings)

No supports or special tricks needed to print the hinge.

(Contra:)

Not as strong as the Perfect Hinge by J-MAX. But they are much thinner!

However, since you would use metal hinges for heavy-duty use anyway, this is not particularly bad.

I first designed this hinge to wait for your feedback. If it goes down well, I can construct more. Or you do that, -)

Looking forward to your reactions!

Have fun and keep printin!

//Small update: New Hinge J-Strong. Not as fast, versatile and small.. but STRONG :P

This remix is based on



Stable Hinge !upright printable!

by MeisterEdel

Model files



hinge-35x50x3.stl



hinge-40-mm-j-strong.stl



hinge-40x40-j-strong-straight-screw-heads.stl

Find source .stl files on Thingiverse.com

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