Tableflip

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VIEW IN BROWSER

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Summary

Something depleted the last drop of your patience? Flip this table to let the rage out while saving the real furniture!

5.13 hrs	4 pcs	0.20 mm	0.40 mm	PLA	58 g	Prusa MK3/S/S+

Toys & Games > Other Toys & Games

Tags: table rage tableflip

Did your print just failed in a spectacular way after hours of printing? Or the stupid 3D modelling software does not want to obey you? Or something else depleted the last drop of your patience?

Let your rage out by flipping this table and save the real furniture and your expensive possession on it!

I designed the table desk to have slots where you can insert the legs. It creates pleasantly compact package for taking the tableflip with you or to easily wrap it if you want to give it as a gift.

That design decision also implied that the desk is has some mass which increases the satisfaction of flipping it, relieving more stress.

Durability

This thing can take some beating!

The desk is basically indestructible. Legs are a bit thin (to be able to insert them into the desk for transport/gifting) and I was able to break them during testing by throwing the table directly to a single leg with quite a big force several times. By that I simulated the worst case scenario and it felt like it performed well. I pre-sliced the legs to be strong (see print settings).

But anyway the legs can be broken if you really want (failed print after 10h of printing? :D) so I included a feature for easy removal of the broken leg part from inside of the desk (read bellow).

Leg broke?

If you manage to break the leg, you don't need to throw the whole thing to trash. I included hole in the leg, where you can screw either M2 or M3 screw (choose leg variant) into the broken part inside of the desk, pull it out with pliers and insert new leg. See pictures for better idea about how the repair process looks.

Needed parts

- 1x desk
- 4x leg (choose M2 or M3 variant)

Print settings

No supports needed for any part.

Leg

To make it as strong as possible, I sliced it with full perimeters and extrusion width 150% (which should also help based on CNC Kitchen research). I had some adhesion problem with the bigger force generated by larger extrusion width so I used 4mm brim (you may or may not need it).

M2 leg variant seems stronger then M3.

Desk

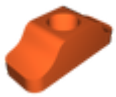
The desk itself survives the rage without much effort.

Slice it to be nice - 2 perimeters (I tried 4 and the did not look good at all around the unicode text).

I recommend to use some cylindrical modifiers inside the holes to raise the number of there perimeters (but keep only 2 visible perimeters to look consistent), because I was able to damage the hole with 2 perimeters. See pre-sliced file.

Model files

Prototypes 2 files



holetester.3mf

Tester piece with the same hole like in the table, try to insert the leg.

desknotext.3mf

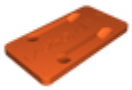
Desk without any texts, just in case you want to decorate it yourself ;)

legm3.3mf

Leg with M3 hole (print 4x).

legm2.3mf

Leg with M2 hole (print 4x).



desk.3mf

The desk.

Print files

Prototypes

1 file

holetester_02mm_pla_mk3s_17m.gcode

PLA | 0.40 mm | 0.20 mm | 0.28 hrs | 2 g | Prusa MK3/S/S+

Tester piece with the same hole like in the table, try to insert the leg.

legm2_02mm_pla_mk3s_36m.gcode

PLA | 0.40 mm | 0.20 mm | 0.60 hrs | 3 g | Prusa MK3/S/S+

Leg with M2 hole.

legm3_02mm_pla_mk3s_33m.gcode

PLA | 0.40 mm | 0.20 mm | 0.55 hrs | 3 g | Prusa MK3/S/S+

Leg with M3 hole

desk_02mm_pla_mk3s_4h32m.gcode

PLA | 0.40 mm | 0.20 mm | 4.53 hrs | 55 g | Prusa MK3/S/S+

The desk with unicode tableflip text and reinforced holes for legs.

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