



Filament spool holder with integrated load cell

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VIEW IN BROWSER

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Summary

Compatible with Filler style mounts (<https://www.thingiverse.com/thing:3020026>) and includes a small box to mount the...

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Compatible with Filler style mounts (<https://www.thingiverse.com/thing:3020026>) and includes a small box to mount the amplifier board on the Creality filament bracket. Fits spools with an inner diameter of 56mm and up to 70mm wide. Roller length can be customized in the scad files.

Required hardware:

- 5kg load cell
- hx711 amplifier board
- 2x 608 bearing
- 2x M4 x 16 flanged hex socket bolt
- 2x M5 x 16 flanged hex socket bolt
- M2.5 threaded insert and bolt for the amplifier case

Compatible with these Octoprint plugin:

<https://github.com/dieki-n/Octoprint-Filament-Scale> (seemingly abandoned)

<https://github.com/techman83/Filament-Scale-Enhanced> (newer fork)

Print Settings

Printer Brand:

Creality

Printer:

Ender 3

Rafts:

No

Supports:

Yes

Resolution:

0.12mm

Infill:

50%

Filament: eSun PLA+

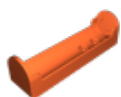
Peak Green

Notes:

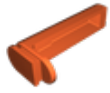
STLs are oriented for maximum strength. Print the bottom part with 1.6mm shell and 50% infill.

Category: 3D Printer Accessories

Model files



holder_loadcell_top.stl



holder_loadcell_bottom.stl



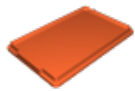
peg.stl



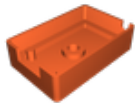
roller.stl



roller_pin.stl



ampcase_lid.stl



ampcase.stl

main.scad

loadcell.scad

spooler.scad

bearing.scad

ampcase.scad

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com)

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