



Flange rollers for Repbox 2.3.1+



aard

[VIEW IN BROWSER](#)

updated 20. 2. 2023 | published 20. 2. 2023

Summary

Alternative flange roller design to deal with the silly slip rod in newer repboxes.



2.47 hrs



2 pcs



0.20 mm



0.40 mm



PET



35 g



Prusa
MK3/S/S+

[3D Printers](#) > [Accessories](#)

Tags: [spoolholder](#) [filamentspoolholder](#) [roller](#) [spoolroller](#)
[flange](#)

Newer repboxes don't come with spool holders, but use a slip rod - which has way too much friction.

Repkord has a spool roller model to fix that - but it takes way too many screws to assemble, is still rather wobbly without adding even more screws to fix it to the rail, and takes too long to print.

This design works by just friction fit - requiring good calibration of the printer to put it together, but it's unlikely you'll be able to separate it

without breaking it afterwards. For the paranoid it can also additionally be secured with two M3-12 screws, one from each side.

Each roller also requires two 608 bearings (so 4 in total for one set).

This design also scales to take 4 bearings in one roller assembly with an additional spacer - further optimizing space in the box. The double wide version is available here: <https://www.prusaprinters.org/prints/136341-double-flange-rollers-for-repbox-231>

Assembly requires a bit of force - it is easiest to align and connect the sides first, followed by the bottom, and finally the bearing axles. At least that last step probably requires pushing onto it on a hard surface. Don't forget to put the bearings in before connecting - you're unlikely to get it separated without breaking off some of the connections.

Note that it sits rather tight on the slip rollers - a requirement to having it more stable. You might need to use some tool for leverage to remove it. If tolerances are too tight you can adjust them in the OpenSCAD source files here: https://github.com/bwachter/repbox_roller

Model files



repbox_roller.stl

Print files



repbox_roller_02mm_petg_mk3s_2h28m.gcode

⊗ PET ⊗ 0.40 mm ≡ 0.20 mm ⌚ 2.47 hrs ⚖ 35 g 🖨 Prusa MK3/S/S+



repbox_roller_02mm_petg_mk3smmu2s_2h29m.gcode

⊗ PET ⊗ 0.40 mm ≡ 0.20 mm ⌚ 2.49 hrs ⚖ 35 g

🖨 Prusa MK3S/S+ & MMU2S

License

This work is licensed under a
Creative Commons (4.0 International License)



Attribution-NonCommercial

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition