



Swivel wheel 5cm



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VIEW IN BROWSER

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Summary

5cm x2cm swivel wheel to attach with bolts (needs 608 bearing)



2.89 hrs



2 pcs



0.20 mm



0.60 mm



PLA



51 g



Prusa MINI /
MINI+

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Tags: [wheel](#) [accessibility](#) [wheelchair](#) [swivel](#)

Swivel wheel. Diameter 5cm, 2cm depth, to use with bolts to fasten.

Required hardware (per wheel):

- 608 bearing 1x (can also use 2x) metal or <https://www.printables.com/model/541192-print-in-place-bearings>
- M5x30mm + 2x nuts + 1 washer, flat head/sunk and M6x50mm bolt + 1 nut

Assembly instructions:

1. Place bearing into wheel holder from the bottom (it's a tight fit, ensure it is tapped in equally on all sides until flush with the print.

2. Place M5x30 bolt with flat head from the bottom and fasten with washer, then 2 nuts on the top (optionally: place predrilled plank in between to fasten against). The double nuts should stop it undoing itself during the spinning.
3. (optional: place bearing into wheel parts) click wheel halves together (only one orientation works for this)
4. Place wheel inside holder and fasten with M6x50 bolt
5. Ready to roll!

Printing instructions:

0.2mm layer height. Printed in PLA, 15% infill, 4 perimeters, 5mm solid top and bottom shell. I printed it with 0.6mm nozzle. Print with the rounded part facing down. No supports needed.

This model has not been tested towards its carrying weight limit. I am happy to hear your results!

I designed this for our miniature dachshund suffering from arthritis, who I am building a wheelchair for. It will act as the front wheel and therefore will not need to carry more than 2.5kg, although I am sure it can carry much more than that.

Model files



wheelholder-v7biggerhole.stl



swivelwheel_7mm_hole_608bearing_5x2cm-wheel.stl

Print files



wheelholder-v4_06n_02mm_pla_mini_1h30m.gcode

PLA 0.60 mm 0.20 mm 1.50 hrs 24 g Prusa MINI / MINI+



608_bearing_wheel_5cm_click-v3_06n_02mm_pla_mini_1h... .gcode

PLA 0.60 mm 0.20 mm 1.39 hrs 26 g Prusa MINI / MINI+

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