



Toilet paper holder (full enclosure) [2022 updated]



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Summary

A fully enclosed toilet paper holder with easy access to the last piece. A simple 2-part print. Mount to wall with tape

[Household](#) > [Bathroom](#)

Tags: [toiletpaper](#) [toiletpaperholder](#)

Many smaller apartments and hotel rooms have the toilet and bathroom as the same room. So most if not all existing holder on Thingiverse are useless as they do not have full shield against splash. Some have hex or square designs which, increase friction when pulling the roll out and therefore increase chance that the roll break inside the enclosure... or just plain annoying to use.

Therefore this is designed to be:

- Easy to print, assemble and modify
- Minimal contact area between roll and enclosure
- Fully shielded
- Easily take the LAST piece of paper from the roll
- [NEW] You can turn the axle instead of pulling the roll (so it won't break inside the enclosure)

Minimal footprint and material consumption

Mounting

Tape the triangular side to the wall with **3M VHB** or **Command Waterproof tape**. The corner with gap adjacent to it should point downward, leave a flat horizontal surface on top.

Assembly

[Edited 29Jan2022]

1. Jam the **axle clip** into a new roll of toilet paper
2. Slide the handle through the **cover panel opening**
3. Slide the whole **toilet paper roll+cover assembly** into the main body

Modification

You might want to fasten the lid a bit better to the main body

Usage tip

Turn the axle clip to rotate the paper roll when the roll is new. When it gets light enough, you can just pull the paper out directly.

Compatible Rolls

Any cylindrical rolls with
Diameter < 12cm
Height < 12cm

Axle diameter ~5cm

Print Settings

Printer Brand:

Prusa

Printer:

I3 MK3S

Rafts:

No

Supports:

No

Resolution:

0.2

Infill:

20

Filament:

Prusa PLA Galaxy Silver

Notes:

0.2mm SPEED profile in PrusaSlicer took around 14 hours for the main body, 3 hours for the lid. Not picky for material but choose a ductile one if your printer has poor dimension accuracy.

Re-orient the lid prior slicing.

Print Area: 21cm (X) x 21cm (Y) x 12cm (Z)

Category: Bathroom

Model files

**mytoiletpaperholder-coverpanel.stl**

☐ No margin is reserved to give more friction (your mileage may vary)

**mytoiletpaperholder-body.stl**

☐ Main body which is just a circumscribed triangle around a 12cm diameter circle

**axle-clip.3mf**

☐ for rolls with axle diameter around 5cm or less. Print with 50%+ infill

[Find source .stl files on Thingiverse.com](#)

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