

Printables logo

Improved Bambu Lab Reusable Spool Holder

3D MODEL
ONLY

[Blizzard Blizzard](#)

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Summary

An improved version of the reusable spool holder model provided by Bambu Lab without compromising on strength.

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Tags: [hexagon spool holder filament spoolholder masterspool refill reusable holes cardboard angled passthrough refillable arrows filamentpassthrough reusablespool bambu respool cardboardspool bambulab cardboardfilamentspool ams x1c respooling](#)

This design improves the original Bambu Lab reusable spool holder in the following ways:

- Allows you to see **how much filament is left** on the spool and **uses less filament** to print the spool due to the hexagon pattern the sides. Also, the pattern does **not** compromise the strength of the model.
- Has **6 pairs of holes** all around the rim to give you **more places to stick the loose end of the filament into** (compared to 1 pair on the original).
- **Passthrough holes to secure the end of the filament** when **respooling**.
- Has **arrows** on the **inside of both parts** in order to **quickly find out how to orient both parts** to be able to twist them together. Simply align the arrows from each part and they snap together.
- **New in v2**: the holes around the rim are **angled at 45°** to **bend** the loose end of the filament **less**.
- Allows you to put cardboard spools with torn-off sides on the spool, even with core diameters smaller than Bambu Lab's spool (see the **Versions** section for details)

Print **each “narrow” and “wide”** model **once** for **one** complete spool.

If you like what I'm doing, please give it a like and consider buying me a coffee! ☺

Versions

- If you want to use Bambu Lab filament refills:
 - use the version in the folder Print Files (STL) **for Bambu** Filament Refills.
- If you want to **only** use this for respooling, with other filament brands' refills or with cardboard spools with torn-off sides where the inner core diameter is **around 81mm or above** (standard Bambu Lab spool size):
 - use the version in the folder Print Files (STL) for **non-Bambu** Filament Refills, which does **NOT** have the notch that is needed for Bambu Lab filament refills.
- If you want to **only** use this to put cardboard spools with torn-off sides on, where the inner core diameter is **between 69 and 80 mm**:
 - use the version in the folder Files for smaller cardboard spools, which includes an STL for cardboard spools with an inner core diameter of 74 mm, which fits newer **Inland cardboard spools**
 - If you need a different diameter, open the two Fusion 360 files in the folder mentioned in the previous bullet point, change the value of the parameter named center_core_outer_diameter to your desired diameter and mention in the comments which diameter and spool brand you used so I can add it.

Printing Instructions

Prints without supports, I'd recommend printing it in a material which is heat resistant enough to withstand a filament dryer, like PETG, ABS, ASA, PC, PA-CF etc. Be careful when using PETG spools in a dryer, only use low temperatures as the glass transition temperature of PETG is still quite low at around 85°C and the spools could melt. To be on the safe side, stick with PC and PA-CF.

If you're printing in a very strong material like PC or PA-CF 15% infill are enough, otherwise I recommend using 6 wall loops and 25% infill for more sturdiness.

This remix is based on

Bambu Lab Reusable Spool Holder Hex Remix

[**Bambu Lab Reusable Spool Holder Hex Remix**](#)

[by Joshua Smith](#)

Model files



v2 Print Files (STL) for Bambu Filament Refills

2 files

bambulab_spool_wide_modded_v2.stl

☐ Print this once per spool you need

bambulab_spool_narrow_modded_v2.stl

☐ Print this once per spool you need



v2 Print Files (STL) for non-Bambu Filament Refills

2 files

bambulab_spool_wide_modded_v2_for_non_bambu_refill.stl

☐ Print this once per spool you need, without the notch that is needed for Bambu filament refills

bambulab_spool_narrow_modded_v2.stl

☐ Print this once per spool you need



v2 Files for smaller cardboard spools

8 files

bambulab_spool_wide_modded_v2_core_diameter_74.stl

☐ Wide part, with core diameter of 74 mm for Inland cardboard spools

bambulab_spool_narrow_modded_v2_core_diameter_74.stl

☐ Narrow part, with core diameter of 74 mm for Inland cardboard spools

bambulab_spool_wide_modded_v2_core_diameter_75_75.stl

❏ Wide part, with core diameter of 75.75 mm for slightly Inland cardboard spools

bambulab_spool_narrow_modded_v2_core_diameter_75_75.stl

❏ Narrow part, with core diameter of 75.75 mm for slightly larger Inland cardboard spools

bambulab_spool_narrow_modded_v2_different_core_diam... .f3d

❏ Fusion 360 Design file with parameter center_core_outer_diameter for adjustments

bambulab_spool_wide_modded_v2_different_core_diamet... .f3d

❏ Fusion 360 Design file with parameter center_core_outer_diameter for adjustments

bambulab_spool_wide_modded_v2_different_core_diamet... .step

❏ STEP file for modeling software other than Fusion 360

bambulab_spool_narrow_modded_v2_different_core_diam... .step

❏ STEP file for modeling software other than Fusion 360



v2 Design Files

6 files

bambulab_spool_wide_modded_v2.f3d

❏ Fusion 360 File of the wide part

bambulab_spool_wide_modded_v2_for_non_bambu_refills.f3d

 Fusion 360 File of the wide part without the notch for Bambu refills

bambulab_spool_wide_modded_v2.step

 STEP File of the wide part

bambulab_spool_narrow_modded_v2.f3d

 Fusion 360 File of the narrow part

bambulab_spool_wide_modded_v2_for_non_bambu_refills.step

 STEP File of the wide part without the notch for Bambu refills

bambulab_spool_narrow_modded_v2.step

 STEP File of the narrow part



v1 Print Files (STL) for Bambu Filament Refills

2 files

bambulab_spool_wide_modded.stl

 Print this once per spool you need

bambulab_spool_narrow_modded.stl

 Print this once per spool you need



v1 Print Files (STL) for non-Bambu Filament Refills

2 files

bambulab_spool_wide_modded_for_non_bambu_refill.stl

 Print this once per spool you need, without the notch that is needed for Bambu filament refills

bambulab_spool_narrow_modded.stl

☐ Print this once per spool you need



v1 Design Files

4 files

bambulab_spool_wide_modded.f3d

☐ Fusion 360 File of the wide part

bambulab_spool_narrow_modded.f3d

☐ Fusion 360 File of the narrow part

bambulab_spool_wide_modded.step

☐ STEP File of the wide part

bambulab_spool_narrow_modded.step

☐ STEP File of the narrow part

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