



Improved Bambu Lab Reusable Spool Holder



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 on 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** (compared to 1 pair on the original).

- **Passthrough holes** to **secure the end of the filament** when **re-spooling**.
- Has **arrows** on the **inside of both parts** 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 consider **joining my club** or buying me a coffee! 😊



Buy 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 re-spooling, 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

For prints without supports, I'd recommend printing it in a material that 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 is 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

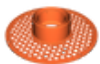
by Joshua Smith

Model files



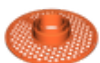
v2 Print Files (STL) for Bambu Filament Refills

2 files



bambulab_spool_wide_modded_v2.stl

☐ Print this once per spool you need



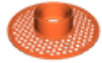
bambulab_spool_narrow_modded_v2.stl

☐ Print this once per spool you need



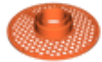
v2 Print Files (STL) for non-Bambu Filament Refills

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



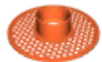
bambulab_spool_narrow_modded_v2.stl

☐ Print this once per spool you need



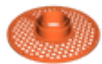
v2 Files for smaller cardboard spools

8 files



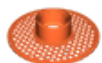
bambulab_spool_wide_modded_v2_core_diameter_74.stl

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



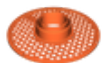
bambulab_spool_narrow_modded_v2_core_diameter_74.stl

☐ 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

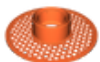
bambulab_spool_narrow_modded_v2.step

☐ STEP File of the narrow part



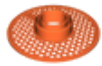
v1 Print Files (STL) for Bambu Filament Refills

2 files



bambulab_spool_wide_modded.stl

☐ Print this once per spool you need



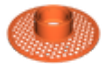
bambulab_spool_narrow_modded.stl

☐ Print this once per spool you need



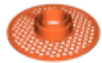
v1 Print Files (STL) for non-Bambu Filament Refills

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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