



75mm ID Reusable Filament Spool

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Summary

Reusable spool for spools with 75mm inner diameter openings Compatible with Bambu Lab AMS

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A reusable spool for filaments that come with inner diameters that are smaller than usual (75mm). Compatible with Bambu Lab AMS!

Background

I recently discovered [Kinluot filament](#) (thanks [All3DP!](#)) and I've been shocked at how great my prints have come out considering the price per kg. I tried a few different solutions for my Bambu Lab AMS since Kinluot spools are cardboard, but I kept having issues with them one way or another.

I found [@chiz](#)'s excellent models for [Customizable AMS Spool](#) and [Parametric Bambu Lab Spool Adapter & Spacer](#) and thought those would do the job, but I didn't realize until after I had ripped one side off a spool just how small the opening's diameter was by comparison (standard Bambu Lab reusable spools have an inner diameter of ~80mm).

If the threads look familiar, it might be because I drew inspiration from [@humebeam's Silica Gel Holder](#).

Recommended Print Settings

- Supports: None. If your threads turn out poorly or need a lot of post-processing, you could try changing your order to infill/inner/outer
- Material: My first print is in Inland PLA+ and it seems plenty strong. Once it has had some mileage, if I notice some strength issues, I'll update here. PETG is always a safe bet
- Layer height: 0.2mm with 0.4mm nozzle
- Wall loops: 4
- Top/bottom layers: 4
- Infill: I set mine to 15% with the Gyroid pattern

When installing, make sure you do the following:

1. Before beginning, secure the end of the filament somehow
2. Only remove one side of the spool at a time
 - If you can see the notch(es) of the innermost cardboard piece, try to start with the side that has a notch that isn't being used by the spool to hold the end of the filament.
3. Make sure to insert the outer side printed part first (the shorter of the two halves) and align the tab with the notch in the cardboard
4. Carefully turn the spool over, remove the second cardboard side, and screw in the inner side printed part until it is giving the cardboard piece a nice, secure squeeze

Model files

75mm-filament-spool-both-halves.3mf



75mm-filament-spool-outer.stl



75mm-filament-spool-inner.stl



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