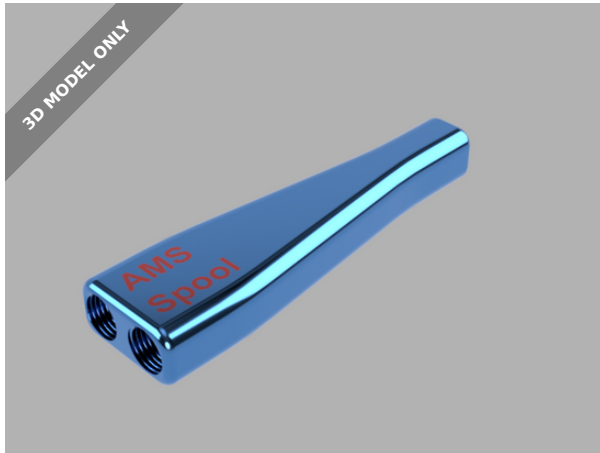




Bowden Tube Y Splitter



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[VIEW IN BROWSER](#)

updated 25. 7. 2023 | published 25. 7. 2023

Summary

A Y splitter for bowden tubes.

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I created this splitter for my Bambulab X1 printer so that I could use the AMS and single spools without disconnecting the AMS. The splitter seems to print best when printed flat. The holes seem to be too small when printed in a standing position.

I printed this with no support and 0.16mm layer height using a 0.4mm nozzle.

You will need three PC4-M10 connectors. Make sure you get ones where the PTFE tube goes all the way through the connector. These are the ones I used: <https://www.amazon.com/gp/product/B07P2XRCC1>

There are three files, one with normal clearance on the filament path, and two with 0.05 and 0.1mm extra clearance. If your printer prints the base model too tight for the filament to pass through easily, try one of the other models with extra clearance.

Update: I added new models that have cutouts on the back for 6x2mm magnets, and text on the front to show where the tube comes from.

Update 2: It was pointed out that the text would be upside down as seen from the back so I uploaded new models with the text in the opposite orientation.

Update 3: I have uploaded versions with mounting holes, you can use an M3x16mm screw to attach it to the back of the Bambu printer by removing the existing screw at the upper corner.

Note: One thought on what filament to use. I used Bambulab Basic PLA without any issues. I tried with a generic matte PLA and had issues. I think the matte PLA is less consistent when extruding and small variations matter quite a bit with this model.

Model files

 **With Mounting Hole** 7 files

**y-splitter-mounting-hole-no-text-005mm-extrastep.step**

**y-splitter-mounting-hole-no-text-01mm-extrastep.step**

**y-splitter-mounting-hole-no-text.step**

**y-splitter-mounting-hole-alternate-text-01mm-extra.step**

**y-splitter-mounting-hole-01mm-extra.step**

**y-splitter-mounting-hole-005mm-extra.step**

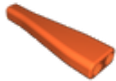


y-splitter-mounting-hole-alternate-text-005mm-extra.step



Standard Clearance

6 files



y-splitter-original-no-text-or-magnets.stl



y-splitter-original-no-text-or-magnets.step



y-splitter-with-text.step

☐ Text is right side up as seed from the front



y-splitter-with-text-flipped.step

☐ Text is right side up as seed from the front



y-splitter-with-text-flipped-alternate-orientation.step

☐ Text is right side up as seed from the back



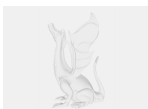
y-splitter-with-text-alternate-orientation.step

☐ Text is right side up as seed from the back

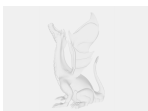


0.05mm Extra Clearance

5 files



y-splitter-005mm-extra-clearance-original-no-text-o... .step



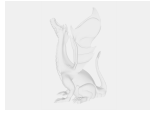
y-splitter-with-text-extra-005-extra-clearance.step

☐ Text is right side up as seed from the front



y-splitter-with-text-flipped-005-extra-clearance.step

☐ Text is right side up as seed from the front



y-splitter-with-text-alternate-orientation-005-extr... .step

☐ Text is right side up as seed from the back



y-splitter-with-text-flipped-alternate-orientation-... .step

☐ Text is right side up as seed from the back

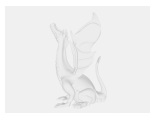


0.1mm Extra Clearance

5 files



y-splitter-01mm-extra-clearance-original-no-text-or... .step



y-splitter-with-text-01-extra-clearance.step

☐ Text is right side up as seed from the front



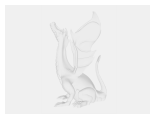
y-splitter-with-text-flipped-extra-01-extra-clearan... .step

☐ Text is right side up as seed from the front



y-splitter-with-text-flipped-alternate-orientation-... .step

☐ Text is right side up as seed from the back



y-splitter-with-text-alternate-orientation-01-extra... .step

☐ Text is right side up as seed from the back

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