



Folding Tripod (two sizes)



linus3d

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Summary

Portable and versatile 3d printed tripod

[Gadgets](#) > [Photo & Video](#)

Tags: [camera](#) [phone](#) [tripod](#) [foldable](#)

Introduction

I often look at certain objects and think to myself, “I could 3D print that.”

However, after starting the design, I quickly realize that it might be more challenging than expected.

This is one of those projects. To ensure these tripods don’t fall apart, I decided to combine traditional hardware with 3D printing.

You have two leg options to choose from: **70mm** and **110mm**.

In my opinion, the **70mm** option is **superior** in almost every aspect. It easily supports a load of **1 kg**.

The legs are shorter, making them more **compact** and aesthetically pleasing in my view.

The **110mm** is better suited for larger and lighter items due to its **wider stance**.

Instructions and features are provided in the video, as well as in the written instructions below (the video is more thorough).

My print profile uses two colors and 0.16mm layers for added detail.

I offer a **fantastic kit** on my website that includes all the hardware needed for this build, making your life super easy. It also greatly supports my work. Thank you! 🙏

Happy printing and **great success!** Message me with any questions!

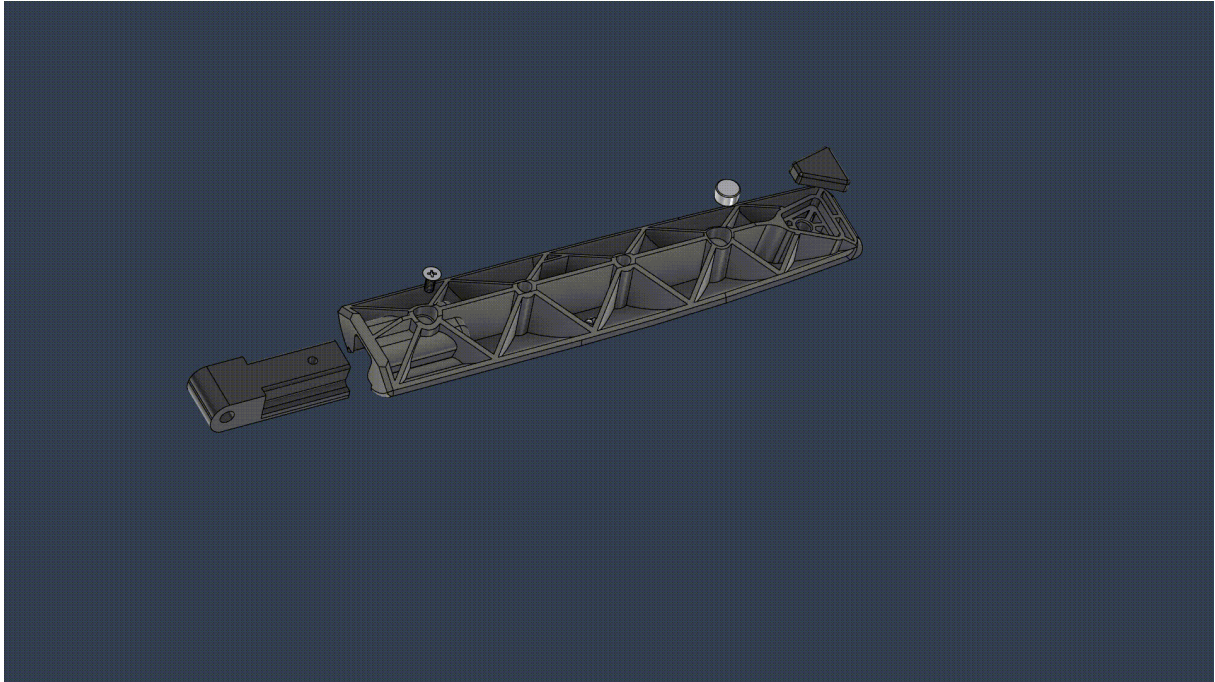
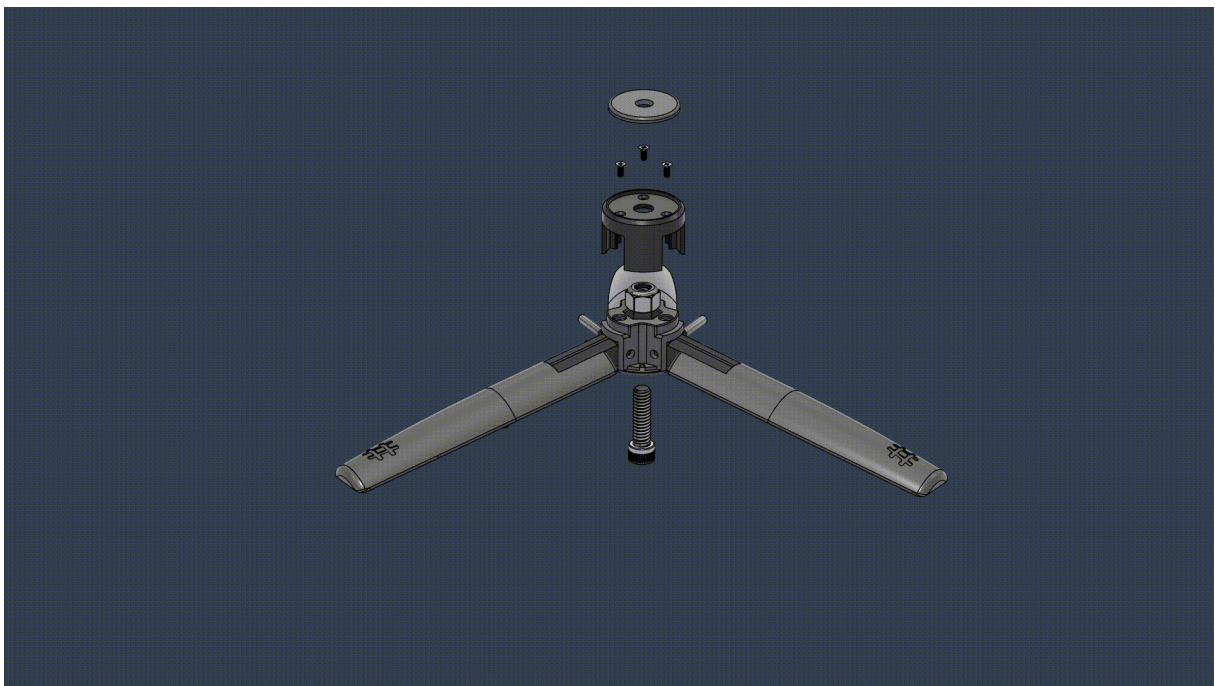
Required Components

- M2x5mm Flat Head Screw **6 PCS**
- M3x5mm Flat Head Screw **1 PCS**
- M3 17mm Dowel Pin **3 PCS**
- 1/4 20, 7/8 Bolt 1 **PCS**
- 1/4 20, Nyloc Nut **1 PCS**

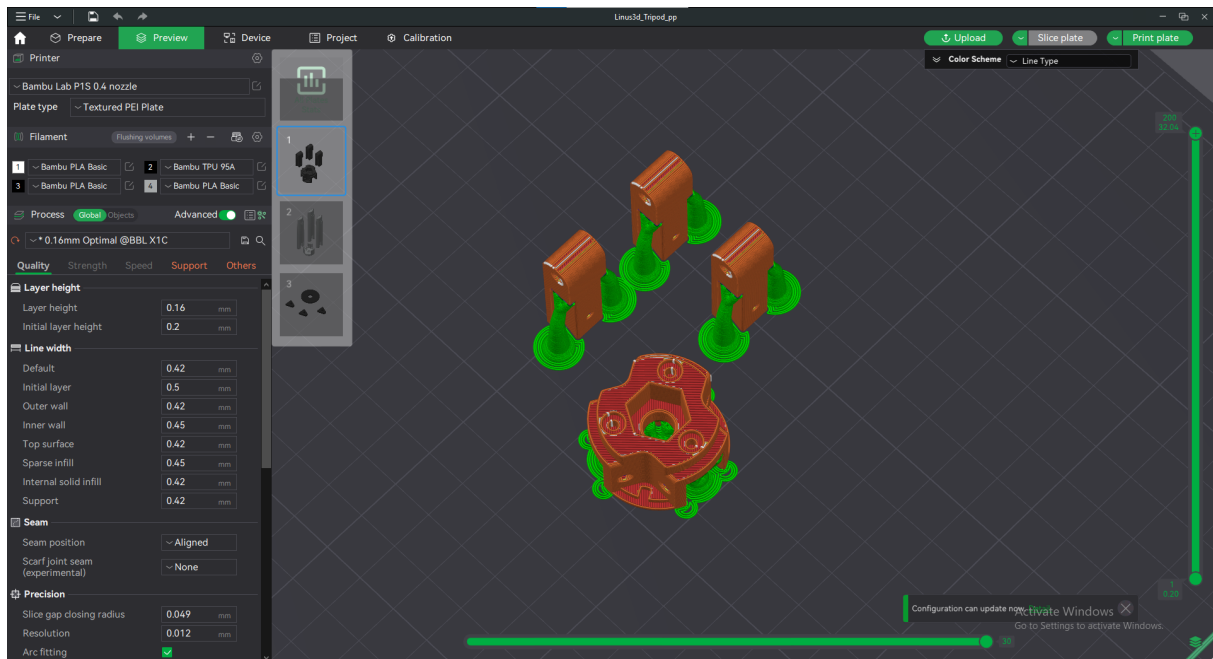
Tools used for assembly:

- 3/16 hex Screwdriver (I just used a metric one)
- Phillips screwdriver
- Plastic Glue

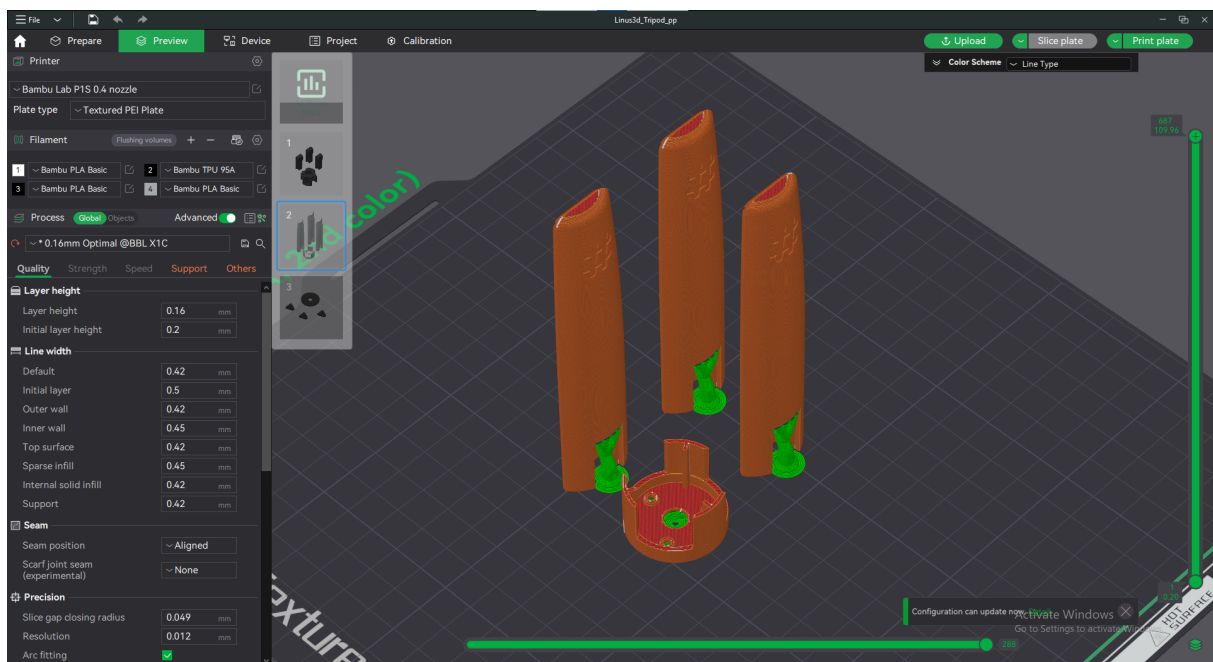
Assembly



Support placement for Center & Hinge Studs (PLA, 1st color).



Support placement for Cover & Legs (PLA, 2nd color)



1. Install 1/4 in bolt and nut into the center piece
2. Attach the legs to the studs using an M2 screw
3. Push the legs into the center and slide in the dowel pins (make sure they are centered)
4. Add cover using three M2 screws
5. Add glue into the holes for the magnets and push them into the legs (check the polarity)
6. The other leg receives the M3 screw. Adjust its depth to get good magnetization and alignment
7. Glue in the TPU foot pads
8. Glue in the TPU foot pads

Designed by linus3d
My website: <https://linus3d.de/>

Model files



Standard Tripod STL's (110mm)

7 files



tpu_pad.stl

☐ Print 1x



cover.stl

☐ Print 1x



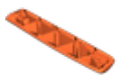
center.stl

☐ Print 1x



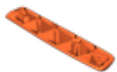
stud.stl

☐ Print 3x



leg.stl

☐ Print 2x



leg_bolt.stl

☐ Print 1x



pad.stl

☐ Print 3x



Mini Tripod STL's (70mm)

7 files



tpu_pad.stl

☐ Print 1x



cover.stl

☐ Print 1x



center.stl

☐ Print 1x



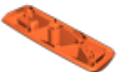
stud.stl

☐ Print 3x



leg_small.stl

☐ Print 2x



leg_small_bolt.stl

☐ Print 1x



pad.stl

☐ Print 3x



Bambu Studio Files

2 files

linus3d_mini_tripod_pp.3mf

☐ Bambulab Print Profile for 70mm tripod

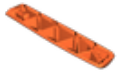
linus3d_tripod_pp.3mf

☐ Bambulab Print Profile for 110mm tripod



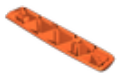
High tolerance Legs (For when they don't fit)

4 files



leg_high_tolerance.stl

☐ 110mm Leg (high tolerance) print 2x



leg_bolt_high_tolerance.stl

☐ 110mm Leg (high tolerance) print 1x



leg_small_high_tolerance.stl

☐ 70mm Leg (high tolerance) print 2x



leg_small_bolt_high_tolerance.stl

☐ 70mm Leg (high tolerance) print 1x

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