

## BambuMute - The ultimate overengineered muffler for your BambuLab



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### Summary

The ultimate overengineered muffler for your BambuLab to reduce the excessive chamber fan noise.

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[bambulabx1carbon](#) [bambulabp1p](#) [sounddampener](#)  
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### WHY?

I love my BambuLab X1 Carbon, yet it makes a hell of a noise. I do not have a basement or garage to put it in, so it needs to quiet down. Slowing down the chamber fan in the print profile has a huge effect, but I needed more. So, I overengineered a little :-). With a smartphone app and 1 minute measurements on the same model, I measure **noise reductions of 5-7dB**.

## Update

v2 was enhanced to fit larger 10mm diameter magnets. Thanks for the feedback!

## DESIGN

Based on the great design by **eds\_3d\_shop**, I went crazy and designed this muffler to reduce the noise of the chamber fan. Here's what I changed and how it is designed:

- **Inspired by the design of sound studios**, I added a ton of **sound isolation pyramids**. They are long on the outside and shorter on the inside to **guide the air out of the bottom**.
- The sides are covered in **orthogonal spikes to further block noise** from exiting the muffler.
- The **BambuMute is magnetic**, I moved the magnet holding brackets from the outside to within the walls to save space.
- There is now **room for two stacked 10x3mm magnets** (or one 10x6mm) in each socket (four sockets) to increase grip. **Important: Use high quality N52 magnets**. The muffler is heavy as pointed out in the comments. Strong magnets will hold it securely in place.
- A **TPU rubber seal** can be printed to reduce vibration, increase grip and prevent noise from getting out.
- Still **AMS compatible**.

## SETTINGS

- Print the BambuMute in **PLA or PETG**. Layer height should be <0.2mm to make the spikes look nice. I used 0.16mm, 0.08mm will look amazing.
- The rubber seal, I printed in 82A Filaflex TPU. A small layer height did not work for me in TPU. I used 0.2mm.

## ADDITIONAL MATERIAL

- **Magnets**: The BambuMute has four holes for magnets. Each hole fits a) two 10x3mm magnets OR b) one 10x6mm magnet. As said, **use high quality N52 magnets**, since the muffler is heavy. Just glue them in place. I have [these ones](#) for example (affiliate link). **MTS Magnete** (not affiliated) in Germany also has a really high quality, but is a bit more expensive.
- **Glue**: For the magnets and to fix the rubber seal in place.

Happy silent printing!

Peter

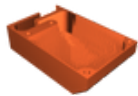
# This remix is based on



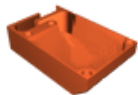
**Eds powerfull magnetic Bambu Lab X1 / P1S (full AMS Hub compatible!) Exhaust Fan Muffler / Fan Silencer without Supports/Bridges!**

by eds\_3d\_shop

## Model files



**bambumute.stl**



**bambumute-v2.stl**



**bambumute-rubber-seal.stl**

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