



HULA v1.0 Anti Vibration feet for Prusa Mk3/4, Core One (beta) & Prusa Bear



thrutheframe

[VIEW IN BROWSER](#)

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Summary

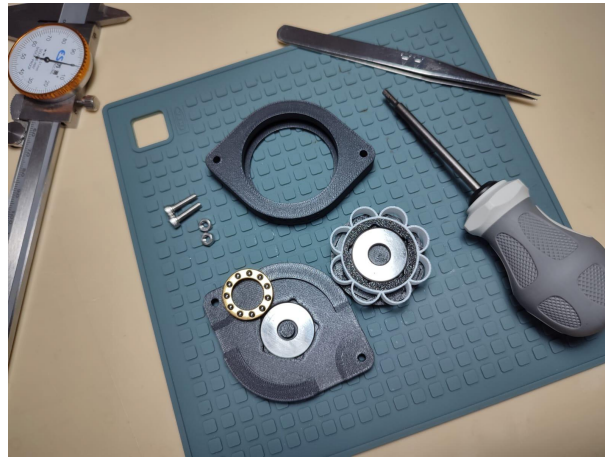
HULA is a Self-Aligning Anti Vibration Foot. This project will include Prusa Mk3/4, Core One (beta) & Prusa Bear

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Tags: [mk3](#) [mk3s](#) [tpu](#) [feet](#) [petg](#) [antivibration](#) [v1](#)
[mk4](#) [c1](#) [antivibrationmount](#) [95a](#) [antivibrationfoot](#) [hula](#)
[coreone](#) [coreonebeta](#)

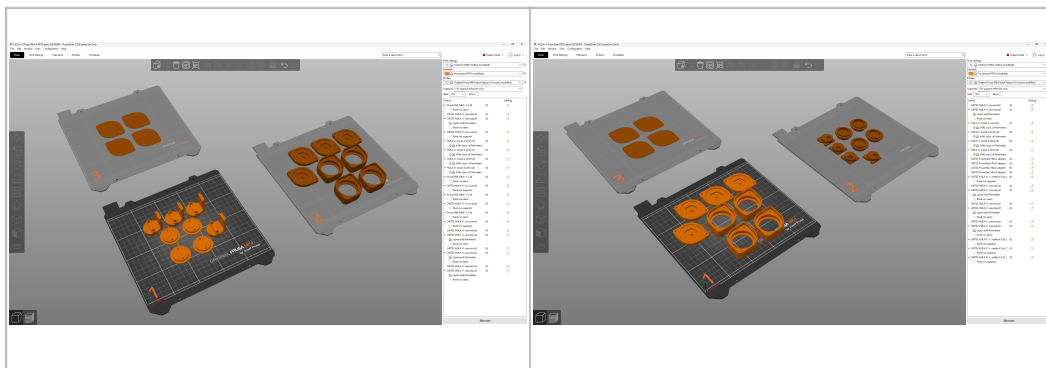
(IMPORTANT)

- **Please download the User Guide for HULA v1.0.**
- I do my best to double-check and test the print profile I created. They are up to date with the latest changes made to the designs.
- If you wish to purchase ready-to-use HULA feet instead of printing them, please check the **Vendor in Your Regional** listing.
- Bearing washers should be installed with the smooth side facing the bearings.

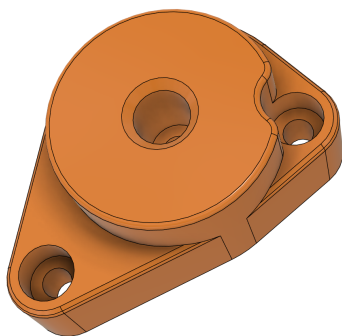
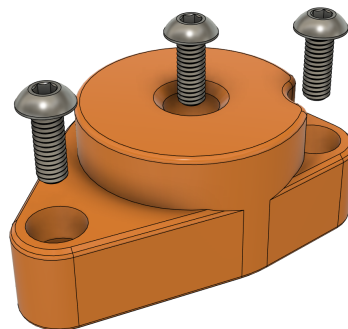


UPDATE: 04 Feb 2025

With the update of PrusaSlicer to version 2.9.0 which supports multi-build plates, I decided to update the 3mf files making the project easier to print.



I have also added HULA for Core One (beta). At present, it is in beta stage as I need testers to try it out. You will require M3x8mm -12pcs (3 each) to secure the bracket to each corner of the Core One enclosure.



UPDATE: 10 Aug 2024

I have been gathering valuable feedback from users since the launch of HULA RC2. HULA v1.0 is the result of incorporating some of these suggestions to improve the design.

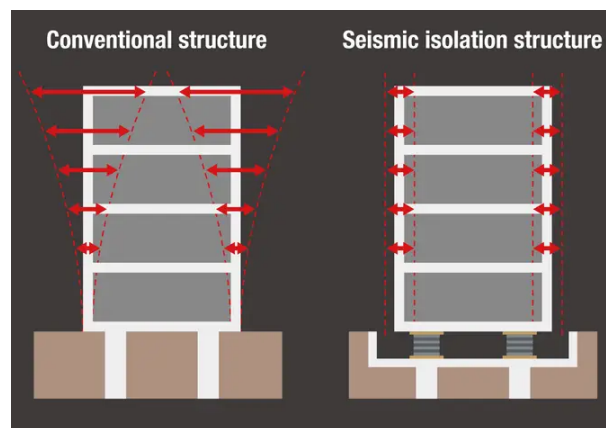
1. HULA petg parts are now easier to print and assemble.
2. The TPU dampener design is improved for more linear dampening and is easier to print with less stringing.
3. Cleaned up 3mf project files and updated the user guide.

I hope this will improve the user's experience of making HULA.

If you wish to buy Ready-to-Use HULA feet or HULA Hardware Kit, I have partnered with regional vendors to offer them at an affordable price. I believe in buying locally and supporting local businesses. See below for the list of authorized vendors.

INTRODUCTION

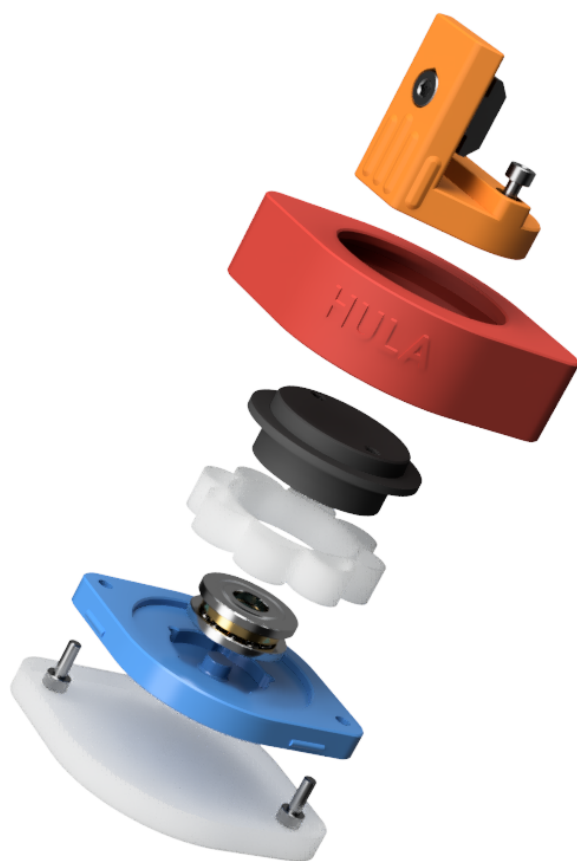
Most 3D printers use rubber feet designed to absorb motors and engine vibrations. It does not do a good job of absorbing the force caused by the directional changes of the toolhead. I drew inspiration from seismic base isolators used to earthquake-proof building structures and designed **HULA**.



What is HULA?

HULA is an Omnidirectional Self-Aligning Anti-Vibration Foot specifically designed to dampen movement vibration generated by fast 3D printers. It decouples the printer from the table and dampens the horizontal XY forces of corexy & cartesian printers, preventing the printer from swaying/wobbling. This reduces the stress on the printer frame, improves print quality (dependent on setup) and reduces the shake translated to the table and other printers.

HULA for Prusa is designed with the same principles in mind.





HULA for Prusa Mk3 / Mk4



Prusa for Prusa Bear

BOM

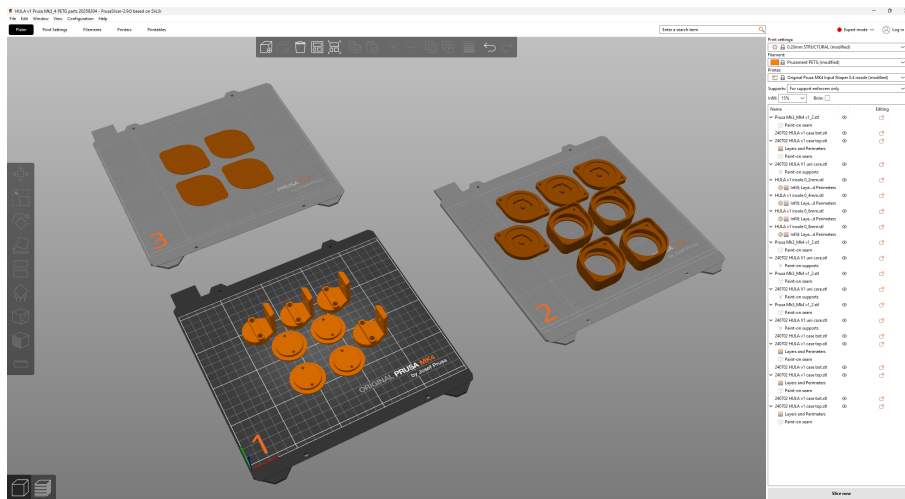
- F8-22M Thrust Bearings - 4 sets
- M3x8mm SHCS - 8pcs
- M3x8mm SHCS - 8pcs (Mk3/Mk4)
- M4x10mm SHCS + 3030 profile M4 slot nut - 4 sets

Printed Parts

Files for HULA for Prusa have been prepared on PrusaSlicer. If you want HULA for other 3D printers (eg Bambu Lab, Creality, Voron) or to use OrcaSlicer/BambuSlicer 3mf multi-plate project files, you may download them from my [MakerWorld](#) page.

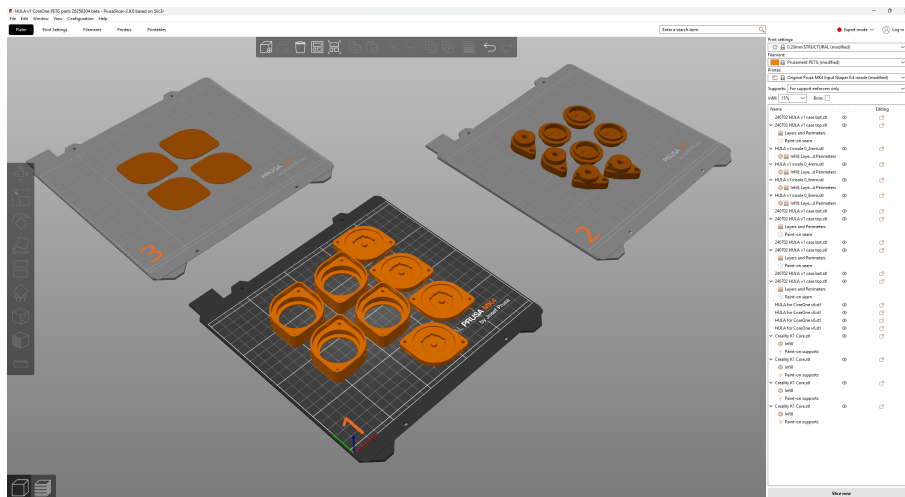
HULA v1 Prusa Mk3_4 PETG parts.3mf

- Print build-plates 1 & 2. If you need spacers to level the feet print build-plate 3.



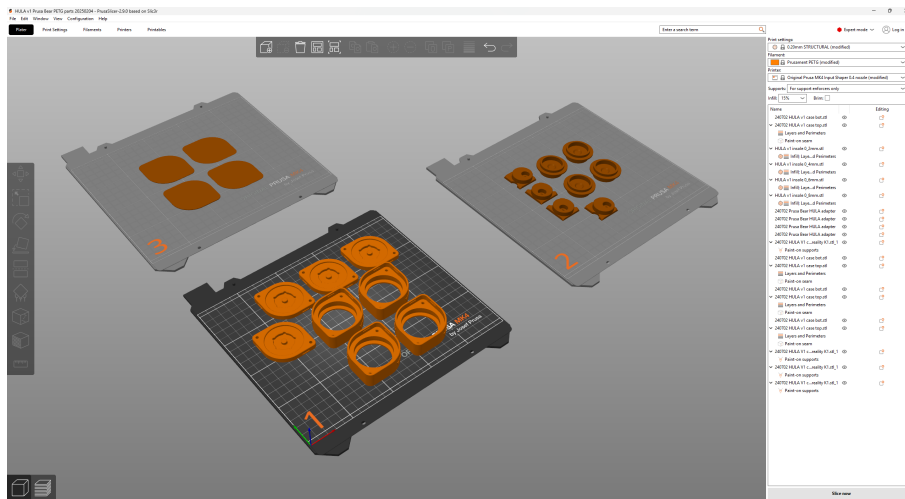
HULA v1 Prusa CoreOne(beta) PETG parts.3mf

- Print build-plates 1 & 2. If you need spacers to level the feet print build-plate 3.



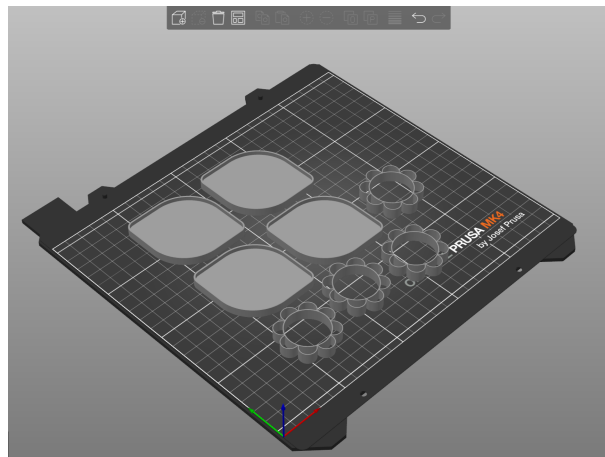
HULA v1 Prusa Bear PETG parts.3mf

- Print build-plates 1 & 2. If you need spacers to level the feet print build-plate 3.



HULA v1 Prusa TPU parts.3mf

- Please use 95A TPU filament (or close)
- This uses a 0.4mm nozzle but prints a line of 0.6mm for the dampeners. I have adjusted it in the slicer settings.



Assembly Instruction

Please refer to the pdf user guide.

Vendors in Your Region

If you wish to buy Ready-to-Use HULA feet or HULA Hardware Kit, I have partnered with regional vendors to offer them at an affordable price. I believe in buying locally and supporting local businesses.

US & CA Vendor	VOXELPLA Store . A collaboration between ThrutheFrame and Voxelpa to offer pre-assembled and hardware kits (printed in Voxelpetg+ and 95A TPU filaments). In addition, Voxelpa offers free shipping when you purchase HULA preassembled/hardware kit along with 3 spools of Voxel filaments . For shipping to Canada, please contact Voxelpa.
EU Vendor	A partnership between ThrutheFrame and Veetec3D to offer pre-assembled and hardware kits. For more information please visit VTC3D Store
AUS & NZ Vendor	i3dprint now offer pre-assembled HULA for Bambu Lab X1 and P1 series printer. This 3D printing store located in NSW is a father and son team. Buy local, support local. JC-3D offer pre-assembled HULA for Bambu Lab X1 series, P1 series and A1 mini printer for AUS and NZ. NOTE: Please check with the seller regarding available stock and fulfilment time before ordering.
SINGAPORE	I am now offering pre-assembled HULA and hardware kit for Prusa CoreOne(beta), Bambu Lab X1 & P1 series printer in Singapore. HULA for other printers will be made per order. Please DM me to purchase.

VIDEOS

Comparison Test between Bambu Lab Anti-Vibration feet (left) vs HULA anti-Vibration feet (right) - In this video, you will see that Bambu Lab anti-v feet cause the printer to wobble/oscillate. The HULA works to decouple the printer from the table and dampen the movement on the horizontal plane, thus greatly reducing the wobbling.

Hula is meant to be a fun and functional project for the community, and the way it moves reminded me of **Crayon Shin Chan** (), one of my favourite manga during my school days.



CONCLUSION

To date, my designs are free to download for personal use. There is No Patreon, No Membership, No Clubs, No Subs and No OnlyFan (hahaha). If you like my designs and wish to contribute to my coffee addiction and help fund the filaments/materials needed for prototyping, doing any one of the below will be greatly appreciated:

1. Post your make in the comments section and other 3D printing social media sites
2. Purchase HULA kits from listed vendors
3. Buy me a coffee at [Ko-fi](#) or [paypal.me](#)

CAVEAT

As with all my designs, Prototyping and testing were conducted to ensure printability and meet my expectations. However, I understand it may and may not work for you. I would request that you read all instructions before printing and installing them at your own discretion.

Model files

hula-v1-prusa-tpu-parts.3mf



hula-v1-coreone-petg-parts-20250706.3mf



hula-v1-prusa-mk3_4-petg-parts-20250204.3mf



hula-v1-prusa-bear-petg-parts-20250204.3mf



240702-prusa-bear-hula-adapter.step

Other files



hula-v1-user-guide-240714.pdf

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