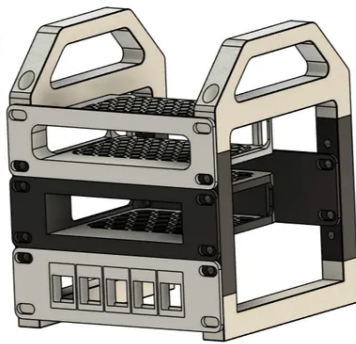


3D printable
Rack Mount
System



10-inch
6-inch

3D printable rack | 10-inch and 6-inch



Maurício Pessoa

[VIEW IN BROWSER](#)

updated 1. 2. 2025 | published 1. 2. 2025

Summary

A fully 3D printable rack for your home lab! Can be configured in 10-inch and 6-inch.

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[6inchrack](#) [3dprintablerack](#) [tinylab](#)

A fully 3D printable rack for your home lab! Can be configured in 10-inch and 6-inch.

To use this system, you need to print at least 4 rails in a chosen size between 2U and 7U, and 4 joints, with a chosen depth between 150mm and 200mm.

This system will accept any 10-inch or 60inch rack mount. And you can see some options in the collections below:

- [6-inch Rack Mounts](#).
- [10-inch Rack Mounts](#).
- [6-inch Rack Accessories](#).
- [10-inch Rack Accessories](#).

3mf and step files included!

Do you like my projects? Then please consider donating a coffee ;)



Required parts

To assemble this system, some hardware is required.

- 8x **M5 thread inserts**.
- For the joints: 8x M5x20mm screws.
- For the mounts: M5 screws. Min length: 20mm.
- M5 Hex nuts for the mounts. At least 2 per mount.

Rack assembly

After you have printed your rack parts, you must use the thread inserts and screws to assemble it.

OBS.: The rail and joint sizes used in this tutorial are only for illustration purposes, you may choose a size to your liking.

Please, follow the steps below:

- Insert the 8x M5 thread inserts into your rails.



- Attach one of the joints to your rail. The hex nut part of the rail must be facing back, as in the pictures below.



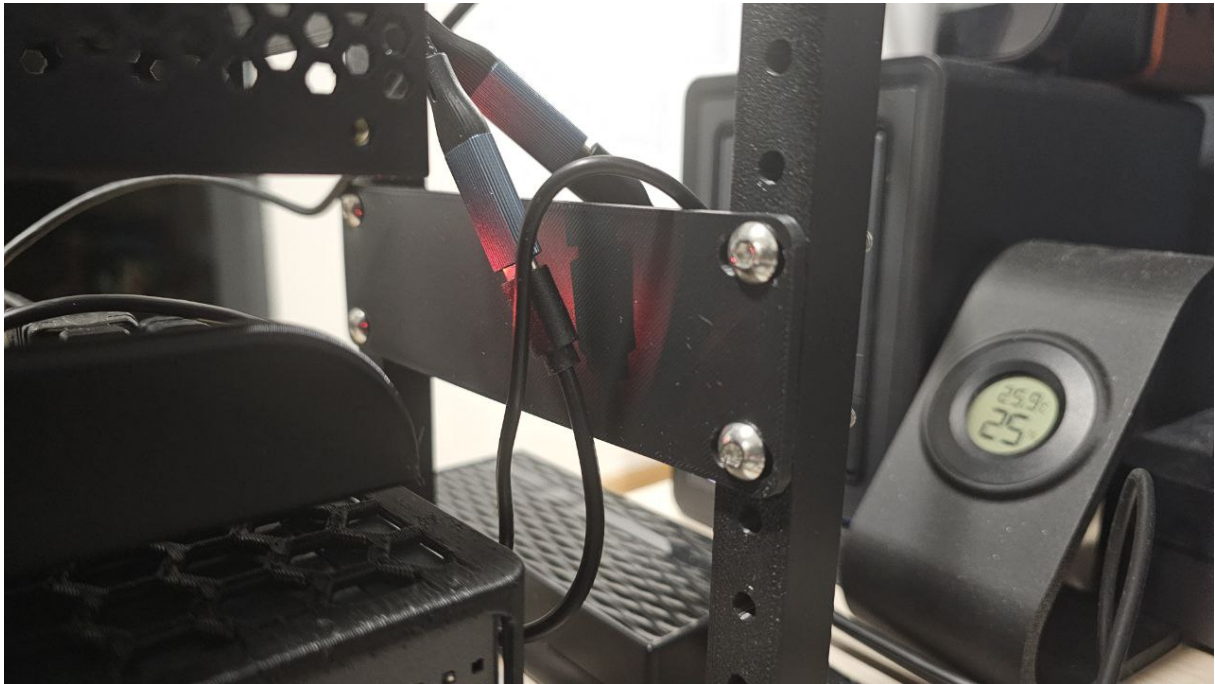
- Attach the second rail on the other side of the joint.



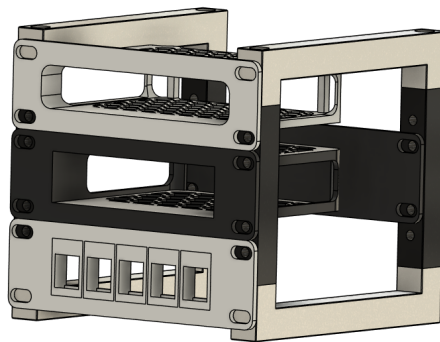
- Attach the second joint to both rails.



- Tighten all 4 screws. But do not over tighten them.
- Repeat the steps above to make the other side of the rack.
- Now, I recommend printing one of the blanks, either 10-inch or 6-inch, to use as a guide in the back of the rack. This will help you to get the correct size.



- Now you're done! Your rack is ready to install other mounts.



Print Settings

Supports:

No.

Resolution:

0.2 or 0.24

Walls/Perimeters:

At least 3.

Infill:

25% or more.

Filament:

PLA+/PETG/ABS/ASA/PC/Nylon

Model files



Step

1 file



3d-printable-rack-system.step



Joints

4 files



leg_roof-200mm.stl



leg_roof_x2-200mm.stl



leg_roof-150mm.stl



leg_roof_x2-150mm.stl



Rails x2

6 files



rail_2u_x2.stl



rail_5u_x2.stl



rail_6u_x2.stl



rail_3u_x2.stl



rail_4u_x2.stl



rail_7u_x2.stl



Rails x1

6 files



rail_4u.stl



rail_5u.stl



rail_6u.stl



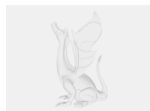
rail_2u.stl



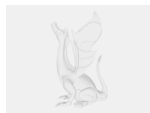
rail_3u.stl



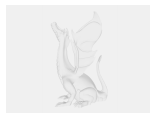
rail_7u.stl



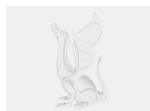
rails.3mf



rails_x2.3mf



leg_roof-200mm.3mf



leg_roof.3mf

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