



## Large filament spool holder (Modular)

T T3TR4

[VIEW IN BROWSER](#)

updated 8. 2. 2022 | published 8. 2. 2022

### Summary

A holder for large filament spools (Up to ~40cm diameter but can also be scaled up)

[3D Printers](#) > [Accessories](#)

Tags: [spoolholder](#) [filamentspoolholder](#) [filamentspool](#) [filamentholder](#)

Hey there,

this is a holder that is designed to hold large filament spools. In the base version it can hold spools with a diameter of about 40cm but you can also scale it up.

It is designed to work with or without 608z bearings. If you want to use bearings you have to use metal ones. 3D-printed bearings deform in the holder.

I've printed the holder with PETG and 15% infill which worked quite well.

I haven't tried PLA or ABS but I expect that they will work as well.

## **You need to print the following parts for the base version:**

6x long\_bar

2x short\_bar

2x edge\_connector\_l

2x edge\_connector\_r

2x top\_connector

1x roller / 1x roller\_wo\_bearings (The latter is a roller that fits the holder without bearings)

## **Building the holder:**

The parts are connected by placing one of them on a flat surface and pushing the other one into the connection from the top (see photo for reference). They fit together quite tightly so be careful to not pinch your skin. Wear gloves or use a board when you push them together. A pipe wrench can also be used alternatively.

If you can't fit certain parts together you can also sand them a bit for a better fit.

Take an edge\_connector and connect it with a short\_bar part on its long end and a long\_bar part on the other. Be careful to place the edge\_connector so that the part with the 30° angle is pointing up.

Connect the mirror reflected version of the edge connector the long\_bar part, connect the other short\_bar part to the long end of the edge\_connector. Proceed until you have a rectangle.

Then connect the remaining long parts to the angled parts of the edge connectors.

After that you connect the top connectors to the remaining connections.

## **If you use the version with bearings:**

There are two grooves in each of the top connectors. Slide the bearings onto the ends until they fit the inner one of the two grooves. You can now push the roller into the connector until both bearings rest in the grooves.

## **If you use the version without bearings:**

Just push the roller into the top connectors.

## Scaling the model up/splitting the parts

If you want to increase the height of the holder just scale up the length of the long\_bar parts in your slicer.

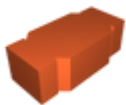
If the long\_bar part is too long print two shorter versions and connect them with a mid\_connector part. The mid connector part adds 3cm of length to the total.

You could also scale up the width by scaling up the short\_bar part and the roller but you may run into issues with the end of the roller not fitting as well any more.

## Model files



**edge\_connector\_r.stl**



**mid\_connector.stl**



**roller.stl**



**roller\_wo\_bearings.stl**



**long\_bar.stl**



**edge\_connector\_l.stl**



**top\_connector.stl**



**short\_bar.stl**

## License ©

This work is licensed under a  
**Creative Commons (4.0 International License)**



**Attribution-ShareAlike**

- ✘ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition