



Spool holder (horizontal)



bOesu

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Summary

Horizontal spool holder for any filament spool with an inner diameter between 50 and 55 mm.

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General

This is a horizontal spool holder for any filament spool with an inner diameter between 50 and 55 mm. It was tested with spools up to 2kg. The horizontal, lying position of the filament spool on the holder means that the filament can be fed to the printer with particular process reliability. It is almost impossible for the spool to tip or fall over. For the best results, the spool holder can be fixed to its foundation with three countersunk screws. The screws are accessible when mounted and can be added or removed at any time.

Printing

Printing is simple and requires no special knowledge. Support material is not necessary. A layer height of 0.3mm should not be exceeded for the rotor. PLA worked perfectly for me.

BOM

Printed parts

1 x Cover

1 x Rotor

1 x Base

1 x Bushing

Standard parts

2 x Flange bearing F688ZZ

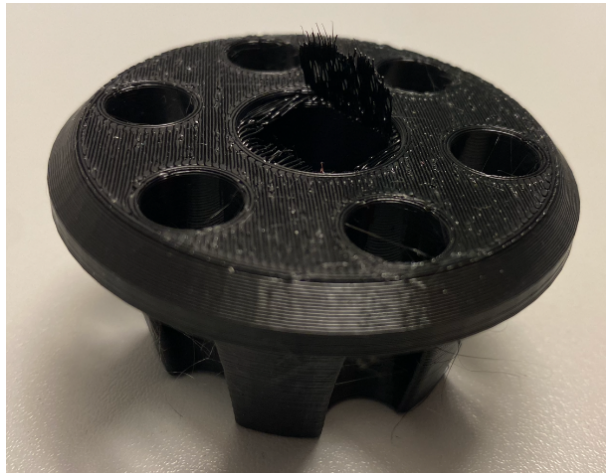
- [Digitec](#)
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2 x Countersunk metric screw M4x16

2 x Heat set inserts M4

Assembly

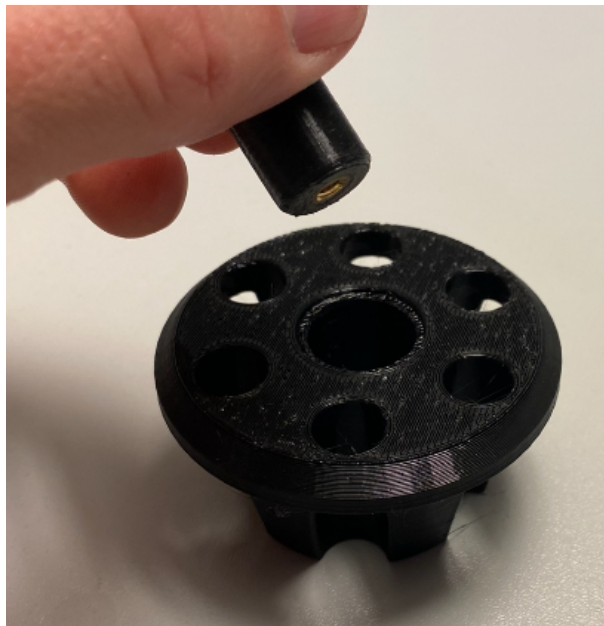
The rotor contains a printed area inside the center hole that must be removed. A deburring tool is well suited to remove the excess material after printing. Then assemble one of the flange bearings, it does not matter which one at this point.



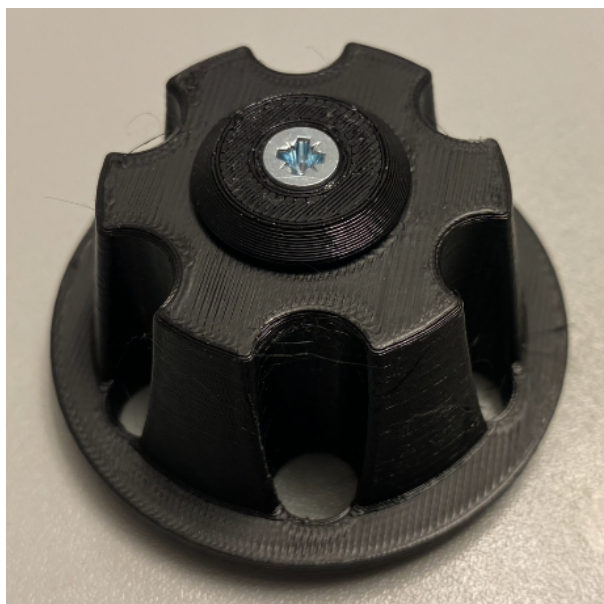
Both threaded inserts must now be inserted into the Bushing, one from each side.



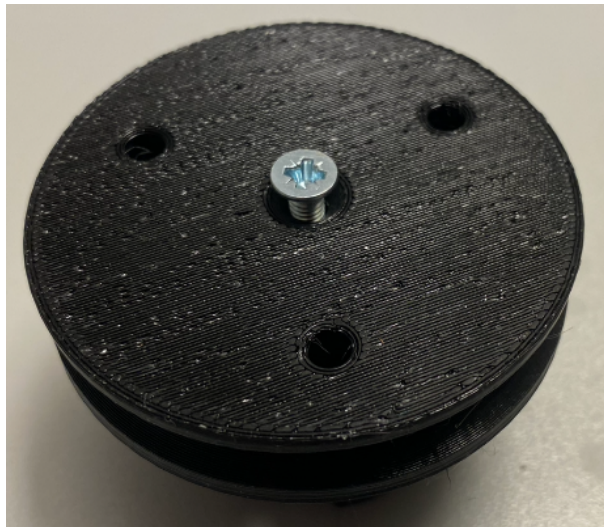
Afterwards place the Bushing inside the Rotor and add the second flange bearing.



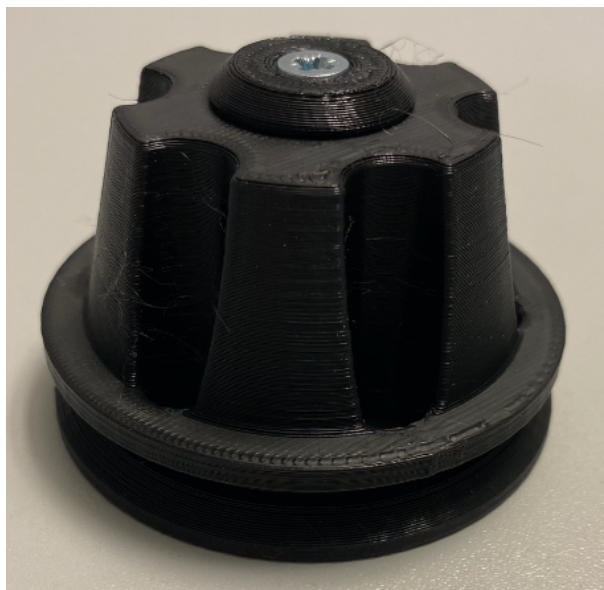
Place the cover on top of the Rotor and secure it with one M4x16 countersunk screw. Tighten the screw carefully but firmly.



Turn the assembly around and add the Base part. In the same matter as before, fix the base to the Rotor using the second M4x16 countersunk screw.



Turn the assembly around and voilà, there is your new spool holder! Now the only things missing are a filament spool and a cool project to print.



Model files



bushing.stl



cover.stl



rotor.stl

☐ Max. layer height of 0.3mm!



base.stl

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