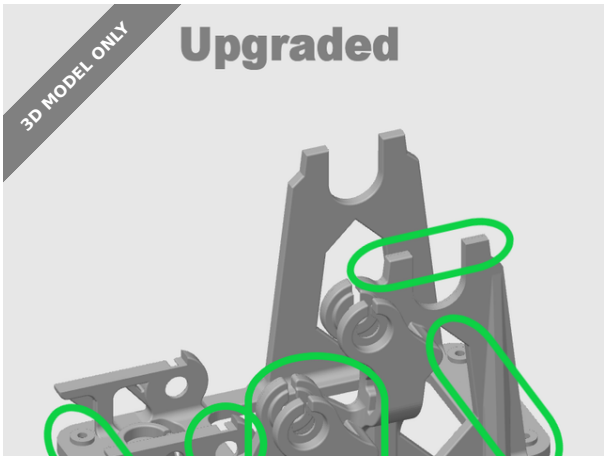


Bambu Lab Filament Spool Winder - Upgraded

STORM DESIGN

VIEW IN BROWSER

updated 1. 7. 2024 | published 1. 7. 2024

Summary

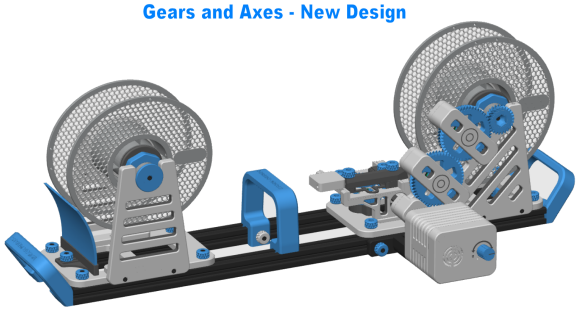
Upgraded - Bambu Lab Filament Spool Winder

3D Printers > Bambu Lab Parts & Upgrades

STORM DESIGN

AVAILABLE NOW

Winder Spool Frame 2 - Modular Design
Donor Spool Frame 2 - Modular Design
Winder Spool Holder with Bearings - Modular Design
Donor Spool Holder with Bearings - Modular Design
Motor Drive 2 - Modular Design for Stand
Gears and Axes - New Design

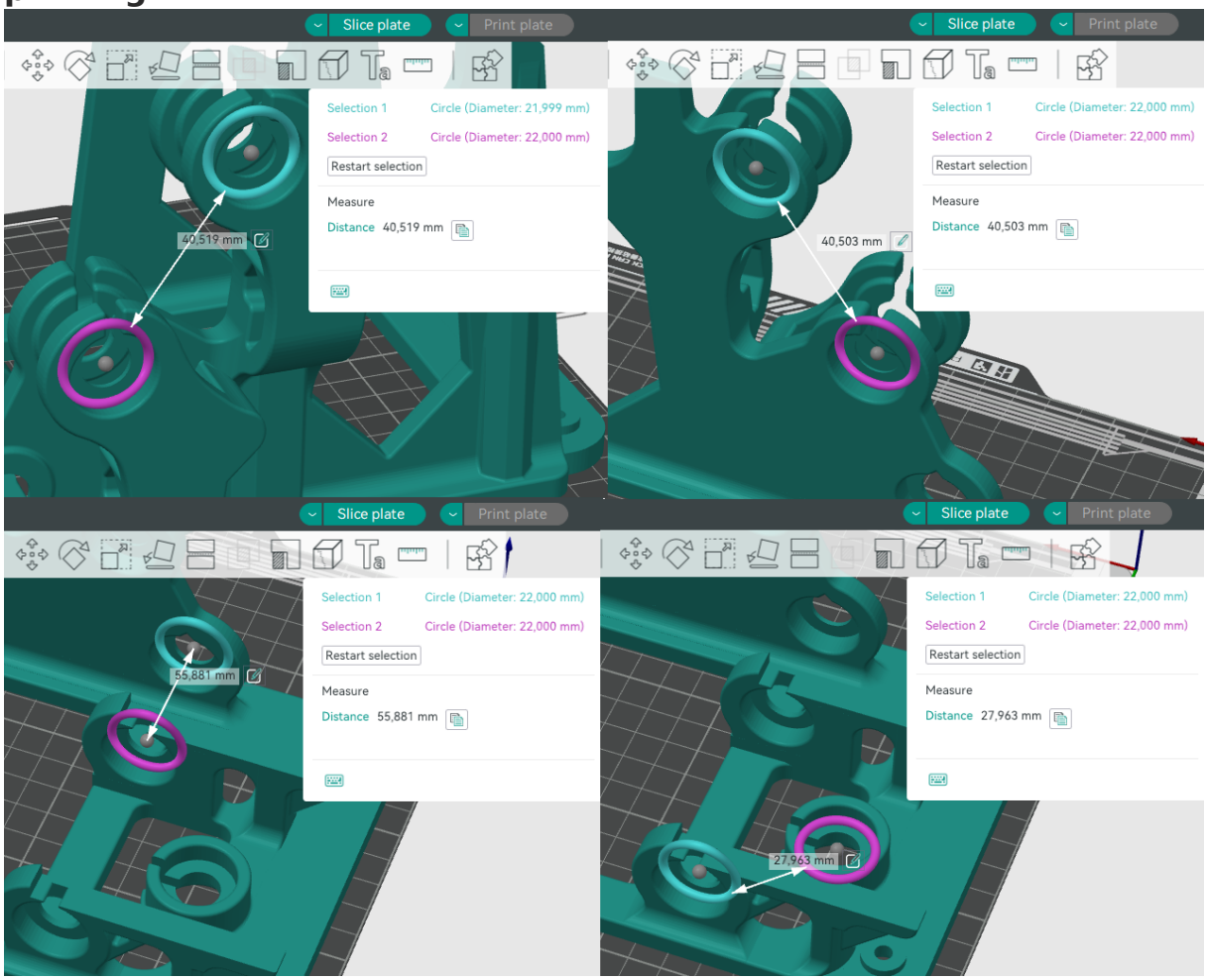


Filament Spool Switcher & Winder 2 - Modular Design
Motor Drive 2 - Modular Design for Stand
Auto Stop Function

Filament Spool Switcher & Winder 2 - Modular Design
Motor Drive 2 - Modular Design for Stand
Powered by Magnetic Power Bank
Auto Stop Function

BEFORE STARTING THE IMPLEMENTATION OF THE PROJECT, READ CAREFULLY THE ENTIRE DESCRIPTION AND VIEW THE PHOTO GALLERY !!!

READ THIS MESSAGE BEFORE IMPLEMENTING THE PROJECT : I am writing this message because , one of the people is causing trouble in my projects by leaving negative comments because, according to this person, the bearings do not fit the frame and the axle. The project includes information that Type 608 bearings should be purchased. Type 608 bearings have an external dimension of 22 mm. This person writes that his bearings are 20mm. So how can the bearings fit into this project if they are too small? His bearings are Type 619. He can't even admit his mistake. It's best to blame the other person. The model was designed in a CAD program, so there is no possibility of error. The photos below the description show all dimensions of the bearing seats. So don't write in the comments that something doesn't fit, just calibrate your printer and filament properly before printing. If the bearings don't fit into the sockets, blame yourself and your equipment, not the design and me. Greetings to 99.9% of normal people and I wish you all a nice day and successful printing. If you don't want to waste filament, I specially prepared the file for a test print. Based on it, you will determine whether the dimensions of the bearing seats are correct. After measuring the holes, you will know how much to enlarge or reduce the model before the actual printing.



This is a Remix **"Filament Spool Winder"** for an amazing project "**Filament Spool Switcher & Winder**" Design by @MiklosKiszely_486882

TO FULLY COMPLETE THE PROJECT, DOWNLOAD THE REMAINING ITEMS FROM THE LINK BELOW
https://www.printables.com/pl/@Damian27/collections/1304611
Hello Everyone
I decided to improve a few things in this fantastic project that are a constant problem for many people. I am sharing one of them here. Below are links to further improvements that I also recommend to get rid of all problems.

When you complete the project, please share a photo and a comment. Thank you and have a nice day.

In short, what have I changed compared to the original design?

1. The most important change was the addition of a bearing arm to the lower gear with 50 teeth as it is in the upper gear. I don't know why it wasn't designed that way from the beginning. The gear with 50 teeth and one bearing was notoriously problematic. The gears wobbled, which made all the gears wear out faster and the force needed to rewind the filament was definitely greater.
2. I thickened the frame a bit on the gear side to make it even more rigid and the bearings from the inside were completely covered. It happened that the bearings were able to slip out because they protruded significantly beyond the frame in the original design.
3. I Added a third bearing holder for a 25 tooth gear on a 128mm axle. One more support on such a long axis was definitely missing. Below is a link to the modified gears and axles where they now have a hexagonal shape and the 128mm axle is in one piece and the worm does not wobble. It works perfectly centric in its axis. The hex-shaped axis is also easy to print compared to the round one, which was not round when printed horizontally.
4. The last change I made that users missed are the Filament Spool Winder mounting holes. I centered them perfectly in relation to the Spool Holder Frame in terms of mounting holes and frames of both stands.

How to print ? :

- Material : Each Rigid Filament **(I do not recommend PETG - It is too flexible)**
- Layer Height : 0.2mm
- Infill : 30 - 35%
- Wall Loops : 4

- Bottom Layers : 4
- Top Layers : 4
- Speed : - **Adjust the speed to your 3D printer and the filament from which you will print the model. However, do not exceed a speed greater than 100-120mm/s. Remember that even if you use premium filament, the faster you print, the worse the bonding of the layers. As a result, the structure is weaker and susceptible to cracks.**
- Support : Yes - Necessarily under the lower horizontal bearing (Photo in Gallery)
- Brim : No

I receive a lot of messages asking what to print for a complete project. It is complicated for many people. I had a problem with that myself. So I decided to prepare a short instruction.
If you take advantage of all my improvements :

All Projects :
https://www.printables.com/pl/@Damian27/collections/1304611

1. Bambu Lab - Winder Spool Frame 2 - Modular Design
https://www.printables.com/pl/model/769319-bambu-lab-winder-spool-frame-2-modular-design

2. Bambu Lab - Donor Spool Frame 2 - Modular Design
https://www.printables.com/pl/model/766774-bambu-lab-donor-spool-frame-2-modular-design-for-s

3. Bambu Lab - Upgraded All Gears and Axes
https://www.printables.com/pl/model/478967-bambu-lab-filament-spool-winder-upgraded-all-gears

4. Bambu Lab - Upgraded Filament Guide, Filament Guide Sled, Filament Guide Carriage and Knob
https://www.printables.com/pl/model/478923-bambu-lab-filament-spool-winder-upgraded-filament-

5. Bambu Lab - Winder Spool Holder with Bearings - Modular Design
https://www.printables.com/pl/model/740644-winder-spool-holder-with-bearings-for-bambu-lab-fi

6. Bambu Lab - Donor Spool Holder with Bearings - Modular Design
https://www.printables.com/pl/model/750033-donor-spool-holder-with-bearings-for-bambu-lab-fil

7. Universal Spool Centering Cone for Bambu Lab Filament Spool Switcher & Winder https://www.printables.com/pl/model/752030-universal-spool-centering-cone-for-bambu-lab-filam

8. Spool Brake for Bambu Lab Filament Spool Switcher & Winder
https://www.printables.com/pl/model/748642-spool-brake-for-bambu-lab-filament-spool-switcher-

9. Handle for Manual Rewind and Adapter for Electric Screwdriver
https://www.printables.com/pl/model/805532-handle-for-manual-rewind-and-hexagonal-adapter-for

10. Stand for Bambu Lab Filament Spool Switcher & Winder
https://www.printables.com/pl/model/479022-stand-for-bambu-lab-filament-spool-switcher-winder

11. Motor Drive 2 - Modular Design for Stand - Auto-Stop Function for Bambu Lab Filament Spool Switcher & Winder
https://www.printables.com/pl/model/485389-motor-drive-for-stand-auto-stop-function-for-bambu

This remix is based on

Bambu Lab - Winder Spool Frame 2 - Modular Design

by STORM DESIGN

Bambu Lab Filament Spool Winder - Filament Guide, Filament Guide Sled, Filament Guide Carriage and Knob M3 Heat Threaded Insert

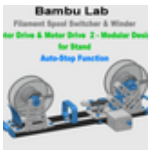
by STORM DESIGN

Bambu Lab Filament Spool Winder - Upgraded All Gears and Axes

by STORM DESIGN

Stand for Bambu Lab Filament Spool Switcher & Winder

by STORM DESIGN



Motor Drive 2 - Modular Design for Stand - Auto-Stop Function for Bambu Lab Filament Spool Switcher & Winder

by STORM DESIGN

Winder Spool Holder with Bearings - Modular Design for Bambu Lab Filament Spool Switcher & Winder

by STORM DESIGN

Spool Brake for Bambu Lab Filament Spool Switcher & Donor Spool Frame 2 - Modular Design

by STORM DESIGN

Donor Spool Holder with Bearings - Modular Design for Bambu Lab Filament Spool Switcher & Winder

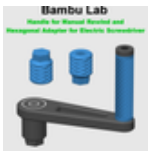
by STORM DESIGN

Universal Spool Centering Cone for Bambu Lab Filament Spool Switcher & Winder

by STORM DESIGN

Bambu Lab - Donor Spool Frame 2 - Modular Design - For Spools from 0.5kg to 3kg

by STORM DESIGN



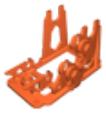
Handle for Manual Rewind and Hexagonal Adapter for Electric Screwdriver for Winder Spool Frame 2 - Modular Design and Winder Spool Holder with Bearings - Modular Design

by STORM DESIGN

Bambu Lab P1 / X1 / X1C / X1CC Filament Spool Switcher & Winder if you use AMS

by Miklos Kiszely

Model files



filament-spool-winder-upgraded.stl

filament-spool-winder-test-size.stl

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