



Elegoo Neptune 4 (MAX) top filament pulley guide



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Summary

I wanted to make the enclosure of my N4M a little lower by removing the stock filament spool holder.

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Updated version is available:

- [Elegoo Neptune 4 \(MAX\) top filament pulley guide v2](#) with [Elegoo Neptune 4 \(MAX\) top filament pulley guide v2.1](#) (re-aligned horizontal pulley).

I wanted to make the enclosure of my N4M a little lower by removing the stock filament spool holder. My filament dryer is located at the rear of the printer, so I was in need of a guide to let the filament route from the rear into the enclosure through the runout sensor to the extruder.

The model includes “Parametric pulley” [Shurub](https://www.thingiverse.com/thing:5732337) (<https://www.thingiverse.com/thing:5732337>).

What you need:

- 4 (Four) 608 bearings.

- Superglue.
- 3mm diameter screws (self-tapping/for plastic).
- 11mm washer with approx. 3mm inner diameter.

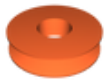
How to print:

- Slice the pulleys in half.

How to assemble:

- Use super glue to join the pulley halves together.
- Push the bearings into the pulleys (2 (two) for each pulley).
- Use super glue to join the bearing studs to the square slots.
- Use the washer and 3mm screw to fasten the bearing onto the studs.
- Slide the filament runout sensor into the hole.
- Use the supplied smaller screw from the filament runout sensor to fasten it.
- Slide the clamps onto the top frame.
- Adjust until the filament runs down the middle of the top frame to make sure that the filament does not make too steep angles for when the extruder is at its extreme positions (X and Z).

Model files



pulley.stl

☐ Parametric pulley from Shurub (<https://www.thingiverse.com/thing:5732337>)



n4m-filament-guide-runout-sensor-holder.stl



n4m-filament-guide-horizontal-pulley.stl



n4m-filament-guide-vertical-pulley.stl

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