



## Ender 3 Narrow Filament Spindle

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### Summary

Default Ender 3 spindle extension for narrower filament spools



3.30 hrs



1 pcs



0.20 mm



0.40 mm



PLA



21 g



Creality  
Ender 3

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The default Ender 3 filament spool spindle (30mm dia shaft, 36mm end flange) is too large for some of the filaments I buy locally, which has a 21mm dia. I decided to create this extension to the default one, replacing the original “nut” end, so that I can just flip it around depending on which filament spool is being used at the time.

My first model from scratch, created in OnShape. Hugely satisfying. See link below. Any feedback appreciated.

Photos show the final spindle in place, the original spindle and nut, and the spool with narrower opening.

gcode below for my Ender 3 with BLTouch, created in SuperSlicer, 0.2mm layers, very minor support recommended per the gcode.

## Model files



**e3-narrow-filament-spindle.stl**

## Print files



**e3-narrow-filament-spindle\_3h22m\_02mm\_205c\_pla\_ende... .gcode**

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 3.30 hrs ⚖️ 21 g

📄 ABL with BLTouch. Might need to edit gcode to remove if manual bed levelling.

[Find source .stl files on Thingiverse.com](#)

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