



## Ender 3 v3 KE Filament Spool Side Mount (Toolless)



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### Summary

Printer goes brrr, a kilogram of filament likes to dance, I brought it a bit closer to the floor.

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Since the KE can move quite aggressively and the gantry can be quite wobbly or even **tilted**. I decided to design a spool holder that attaches straight to the base making the printer a lot more stable and coincidentally quite a bit lower.

I used the space right behind the Nebula Pad as not to lose too much space in terms of overall footprint of the printer.

It is easily installed without any tools using the same mechanism as the Nebula Pad mount, the connection between the part and the stock bracket is designed to be quite snug so it doesn't come loose when removing or re-attaching the Nebula Pad. The tube of the stock mount should slot right in (I'll release a model of an extra tube, including a shorter version, shortly).

It fits one 20cm spool (although I have some thoughts for a designs that would fit either two spools or one 25cm spool, let me know whether you'd be interested!). I haven't found weight to be an issue.

The mount just fits onto the build plate allowing it to be printed without supports. I've used the following settings within Creality Print for the model to fit and have sufficient strength:

- PLA
- No supports
- 40° rotation around the Z-axis
- Top/Bottom Direction [5,95]
- 0.20mm layer height
- Wall count of 3
- Top layers 5
- Infill Gyroid
- First layer speeds 40/200 (this might not be necessary but since it's a 21/2 print I like to make sure the first layer is sound)
- No brim or any other form of build plate adhesion

### **Shorter Spool Holder Tubes**

I've added some shorter length tubes that allow for a minimal footprint and less sagging. I printed the tube I'm using with supports, 0.32 layer height, wall count of 3 and gyroid infill.

Coming soon/planned:

- Filament guide/runout sensor mount (so far I've been running the printer without any further filament guide and the stock runout sensor mount, however since I'd like to lose the top mount I plan on designing a replacement, although I think there might be some available already)

Thinking about/upon request:

- Integrated (screw mounted) Nebula Pad/spool stand for 25cm spool, I've had some ideas but it's quite tight in terms of build volume and tricky to minimize the support needed
- Two (20cm) spool version, these would most likely be mounted perpendicular to the printer, so far the build volume is the biggest issue with this one.
- Nebula Pad landscape mounted version/adaptor, with the open source firmware [around the corner](#) as well as some work being to by other community members we will soon be able to run [Guppyscreen](#) so when I get round to it I might make a version with a landscape mount for the Nebula Pad.

## Model files



### Mount

1 file



**creality-ender-3-v3-ke-toolless-filament-spool-side... .stl**



### Spool Tubes

5 files



**spool-tube-60mm.stl**



**spool-tube-625mm.stl**



**spool-tube-65mm.stl**



**spool-tube-675mm.stl**



**spool-tube-70mm.stl**

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