



# Articulated Filament Guide 2020 for Openbeam



Kiolia

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## Summary

Snap-on arm designed to hold a 6.9-7mm dia x 6 mm long nylon spacer/bushing at just about any angle to provide a very...

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Snap-on arm designed to hold a 6.9-7mm dia x 6 mm long nylon spacer/bushing at just about any angle to provide a very low-friction filament guide. Your choice of ~3cm or ~7cm offset. Fits 2020 Openbeam (not planning to add instances for other openbeam sizes, sorry).

This is my first posted original design! I refined it to print nicely on my AnyCubic Kossel XL, which needs about .30 of spacing between moving parts (right now) for the edges to not fuse together. This makes for some play in the joints, and might make for more play on a better-tuned printer, but I figure play is okay, and it works very well for running filament down from my top-mounted spool through 3 long-arms and one short-arm\*.

\*5.17.17 update: I ended up printing one more long and one more short over what's shown in the pictures to create a more evenly constrained arc through the 180 degrees down-to-up.

## Print Settings

### Printer:

AnyCubic Linear Kossel XL

### Rafts:

No

### Supports:

No

### Resolution:

.2mm

### Infill:

20%

### Notes:

Intended for PLA printing due to the bridges required by the joints.

Post-Printing =====

### Pop in a 6.9mm nylon spacer!

I chamfered the inside lips on both ends with a few twists on the end of a large, sharp drill bit.

For reference, I'm\*pretty\* sure these are the type of nylon spacers that I used (I got mine 4 years ago and can't recall from whence), although maybe you'd want to find them in a smaller quantity: [[https://www.amazon.com/3mmx6mm-Spacer-Support-Holder-Standoff/dp/B00R1LKDIU/ref=sr\\_1\\_29?srs=3049510011&ie=UTF8&qid=1493553752&sr=8-29&keywords=uxcell+nylon+7mm](https://www.amazon.com/3mmx6mm-Spacer-Support-Holder-Standoff/dp/B00R1LKDIU/ref=sr_1_29?srs=3049510011&ie=UTF8&qid=1493553752&sr=8-29&keywords=uxcell+nylon+7mm)] ([https://www.amazon.com/3mmx6mm-Spacer-Support-Holder-Standoff/dp/B00R1LKDIU/ref=sr\\_1\\_29?srs=3049510011&ie=UTF8&qid=1493553752&sr=8-29&keywords=uxcell+nylon+7mm](https://www.amazon.com/3mmx6mm-Spacer-Support-Holder-Standoff/dp/B00R1LKDIU/ref=sr_1_29?srs=3049510011&ie=UTF8&qid=1493553752&sr=8-29&keywords=uxcell+nylon+7mm))  
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# Model files



filament\_guide\_shortarm\_v3.stl



filament\_guide\_v3.stl

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