



FlexiBuffer - an easy loading, simple filament buffer

7 78zeros

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Summary

A simple to use, easy to load buffer design - still a work in progress, not really ready for use yet.

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A simple to use, easy to load buffer design - still a work in progress, not really ready for use yet. I need to redesign this and iron out some problems.

Uses 70cm per filament slot of expanding mesh cable sleeve as the buffer, look for something fairly densely woven - example: <https://au.rs-online.com/web/p/cable-sleeves/0408277/> - I'm using sleeve I purchased from a local electronics supplier, approx AUD\$10 for 5 metres. 1 or 2 cable ties are sufficient to hold the sleeve onto the input and output "nozzles".

You'll want to use 2x PC4-M10 passthrough PTFE connectors - the output "nozzle" has fillets on each end, chamfer the inside of the PTFE leading to your MMU for ease of loading.

I printed this in PETG at 0.3mm layer height.

Sometimes when loading the end of the filament needs a little guidance to make sure it hits the output "nozzle" instead of being driven out through the mesh.

There's a (slightly too long) video of it in action at https://www.dropbox.com/s/z39o11ic7fkbpl0/20191205_202132.mp4?dl=0

My own spool holder setup involves a wire rack, two of the files have a slot to clip onto this rack.

Feel free to remix the files to suit yourself, or execute the idea a different way - I'm hopeless with Fusion3D and I'm sure there's a better design for this out there - ideas are meant to be shared.

Model files



flexibuffer_single.stl



flexibuffer_five.stl



flexibuffer_single_noclip.stl



flexibuffer.f3d

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