



Spool Core to SNAP into Cardboard spools



AlwaysTinkering

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Summary

Reduce the resistance of the cardboard spool on the trapeze. Easy click in and out.



N/A



3 pcs



0.20 mm



0.40 mm



PLA



N/A



Prusa
MK3/S/S+

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Tags: [filamentspool](#) [spooladapter](#) [overture](#) [cardboardspool](#)
[duramic](#) [overturefilament](#)

Easy click in and out spool core. This one fits Overture and Duramic spools or any at the 54.5-56mm dia core and spool width up to 70 mm.

I had once upon a time printed a core someone else had made for a different spool that fit, but all the clips broke off within a month and it had some ridges designed for whatever system they had made it for.

This one has 6 clips designed to flex on install and removal. Prints with no supports. I also raised the center of gravity on spool to reduce resistance.

PLA is just fine as there is lots distribution of stresses allowed in the print design.

I have been printing in a lot of flex. When the spools started showing up in cardboard there was a noticeable amount of resistance on full spools when on the printer trapeze. This returns the ease of motion.

If someone needs different dimensions for something you have let me know... spool core dia and spool width at the core.

The initial use I have is for Overture and Duramic. It is a snug 54.5mm diameter and will slide into a spool up to 70mm wide. Due to the clip design, spool core would need to be within 1mm or two from the actual spool diameter to get a good snap.

Updates 8/2023:

Note the new snap in cores are best released by reaching in and pushing on the back of the clip.

I added individual snap in hubs. Increased the diameter to make them snug and added a lock that prevent the core from shifting.

Full edge 200mm cover with the snap in core. Seams to fit the thinner duramic and larger Overture spool wall. Not I did add 5 small clips to the 200mm ring to prevent it from coming off. The cardboard is very soft and I don't see this as something you would pop off and on frequently. Installed gives a nice feel.

Update 12/2023

V2 increased the space between the tabs and the outside ring of the core so there is more room to push the tabs back.

Add a 199 ID which is very snug. I reduced the holding tab overhang, maybe it could be a little less.. but if you are using just the edge with no core it won't go anywhere. Not something to take on and off. The paper core layers separate easily.

Model files



200mm dia edge and core edge

3 files



spool-core_rumble_edge_v2_single_54-8dia_36id_12mm... .stl

📄 200mm diameter edge and V2 core with RUMBLE outside wheel



spool-core_smooth_edge_v2_single_54-8dia_36id_12mm... .stl

📄 200mm diameter edge and V2 core with SMOOTH outside wheel



spool_edge_single_200mm-id_3mm-thick_rumble-edge_v2.stl

📄 200mm Rumble edge ring only. I recommend the 199mm be tried first.



199mm dia edge and core edge

3 files



spool-core_rumble_edge_v2_single_54-8dia_36id_12mm... .stl

📄 199 mm diameter edge and V2 core with RUMBLE outside wheel



spool-core_smooth_edge_v2_single_54-8dia_36id_12mm... .stl

📄 199 mm diameter edge and V2 core with SMOOTH outside wheel



spool_edge_single_199mm-id_3mm-thick_rumble-edge_v2.stl

📄 199mm Rumble edge ring only.



spool-side_snap-in-core_v2_single_54-8dia_36id_12mm... .stl

☐ Low profile snap in core V2 with lock pin



spool-side_snap-in-core_v2_single_54-8dia_36id_12mm... .stl

☐ Low profile snap in core V2. No lock pin so may spin.... if that mattered.



spool-core_54-5dia_36id_75l_upto-70mm_wide_spool.stl

☐ 54.5mm diameter with a 36mm core for up to 70mm wide spool. Easy slide in.

Print files



spool-core_54-5dia_36id_75l_upto-70mm_wide_spool_02... .gcode

🌀 PLA 🌀 0.40 mm ⇌ 0.20 mm ⌚ 3.31 hrs ⚖️ 36 g 🖨️ Prusa MK3/S/S+

☐ 54.5mm diameter with a 36mm core for up to 70mm wide spool _3h19m



spool-core_rumble_edge_v2_single_54-8dia_36id__12mm... .gcode

🌀 PLA 🌀 0.40 mm ⇌ 0.20 mm ⌚ 1.94 hrs ⚖️ 22 g 🖨️ Prusa MK3/S/S+

☐ 199mm Spool-Core V2 with full edge wrap. RUMBLE edges



spool-side_snap-in-core_v2_qty2_54-8dia_36id_12mm-c... .gcode

🌀 PLA 🌀 0.40 mm ⇌ 0.20 mm ⌚ 1.71 hrs ⚖️ 17 g 🖨️ Prusa MK3/S/S+

☐ Qty 2 PLA Low profile snap in core V2 with lock pin 48m

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