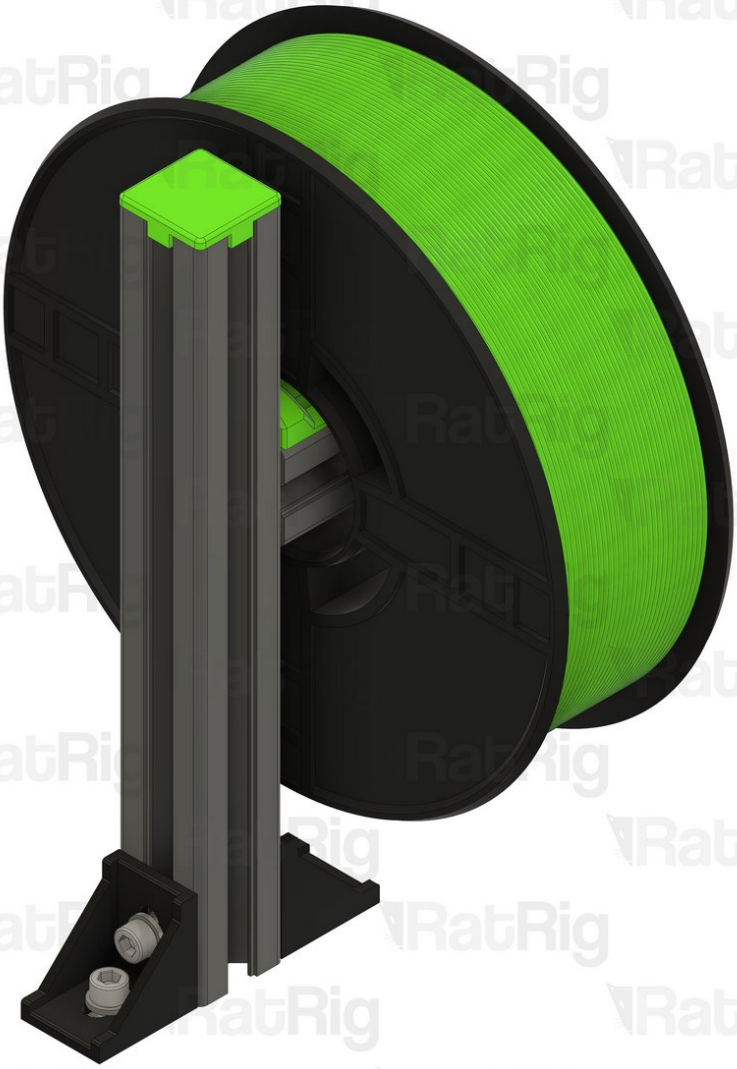
Rat Rig

03. Spool Holder v2.0

Written By: Simon Davie



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INTRODUCTION

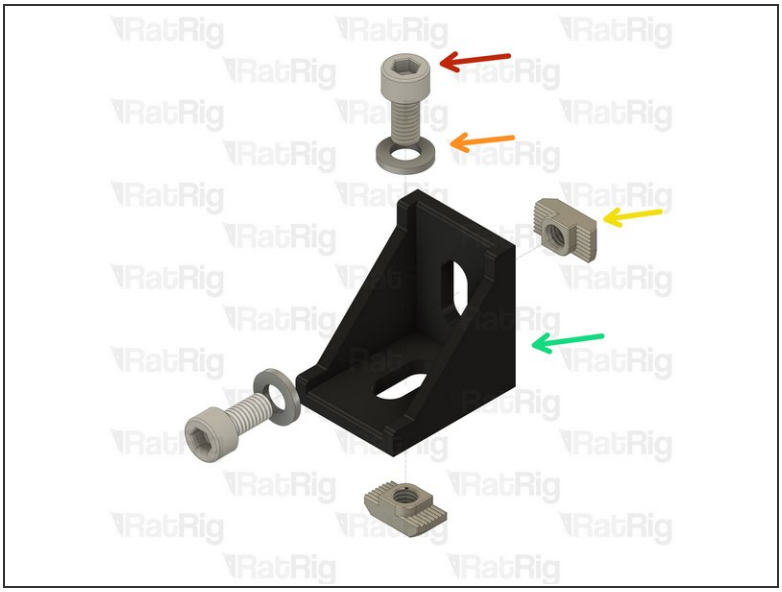
[video: https://www.youtube.com/watch?v=uezm-eB-LLA]

TOOLS:

- 1x 3.0mm Hex Key (1)
- 1x 4.0mm Hex Key (1)
- 1x 5.0mm Hex Key (1)

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Step 1 — Assemble the 90 Degree Corners (x2)

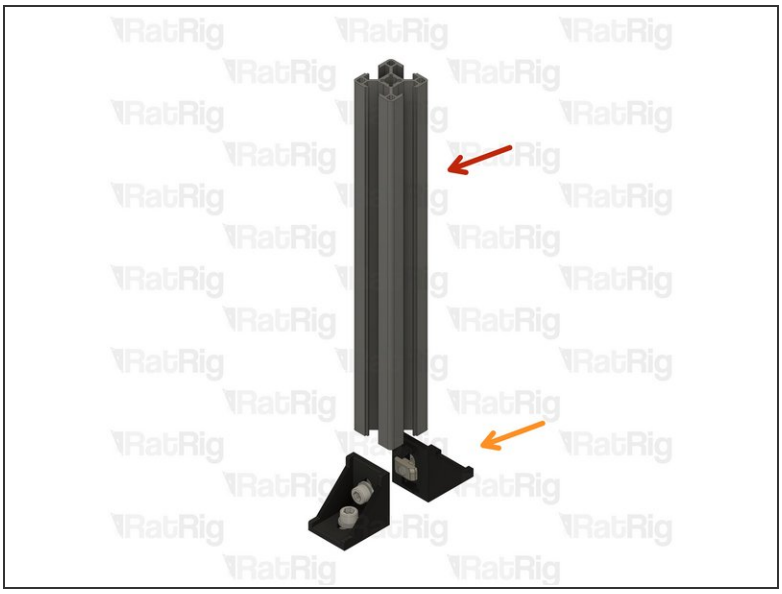


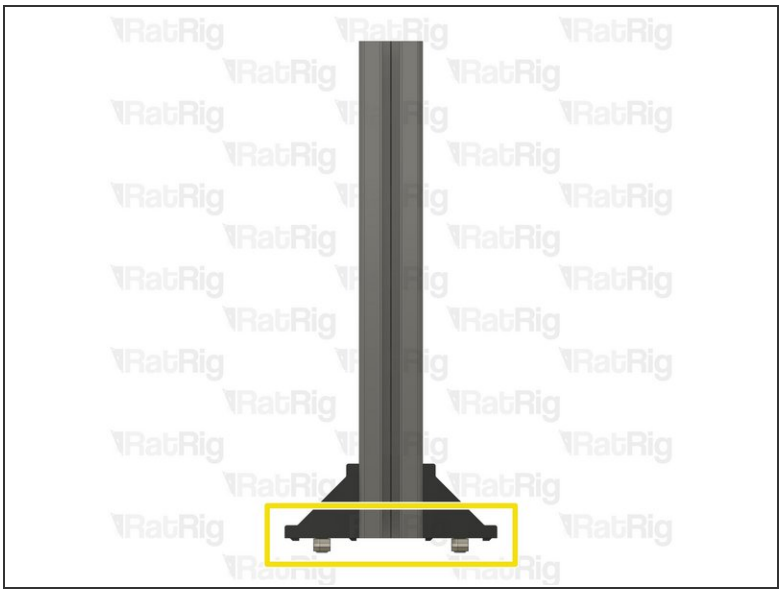


- M6x12 Cap Head Screw
- M6 Washer
- 3030 Drop-in T-Nut M6
- Cast 90 Degree Corner Bracket for 3030

Loosely thread the 3030 T-Nuts onto the M6x12 screws. Do not tighten them at this point.

Step 2 — Assemble the Main Body

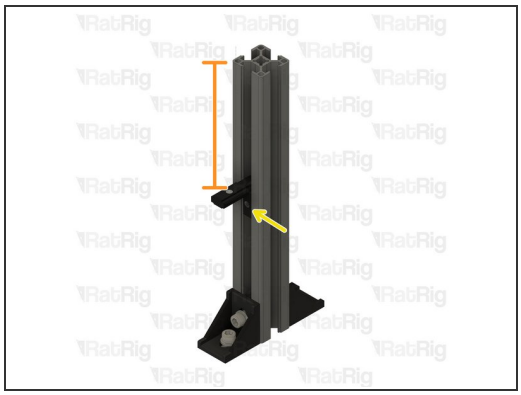
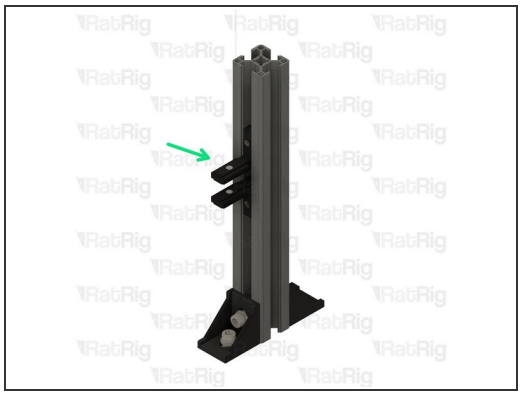




- 3030 Extrusion - 234mm
- Install the two 90 degree corners on to one end of the 3030 extrusion.
- Tighten the M6x12 cap head screws connecting to the 3030 extrusion using a 5mm hex key.

  Make sure the 90 degree corners are both flush, and square, with the end of the extrusion. before tightening

Step 3 — Assemble the arm supports

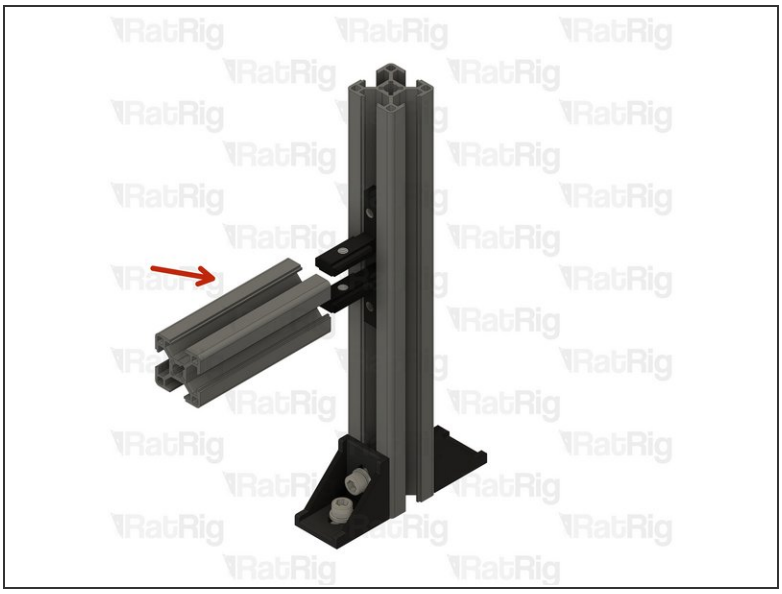
- 3030 Inside Hidden Corner Bracket

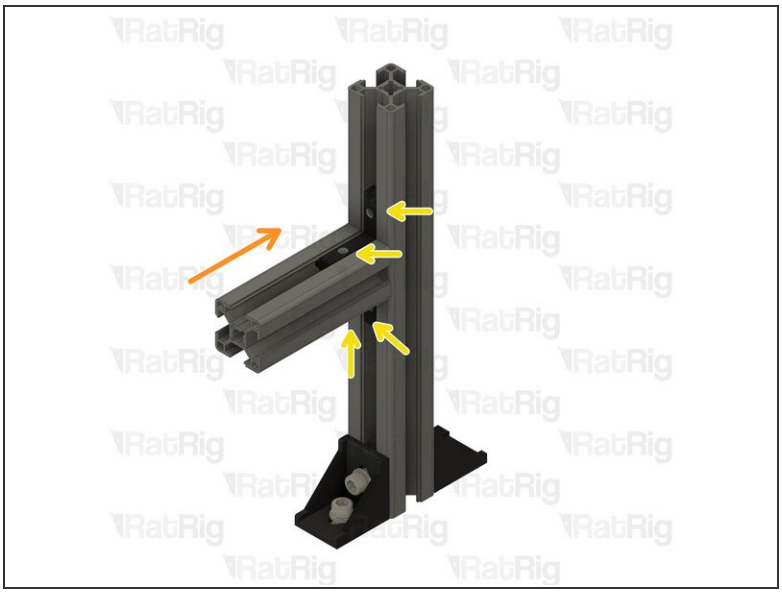
Check that the grub screws on the inside corners are retracted to allow installation into the 3030 extrusion.

- Slide one inside corner into the 3030 extrusion. Position it so that there is a measurement of 100mm from the top of the inside corner, to the top of the extrusion.
- Tighten the indicated grub screw with a 3.0mm hex key, securing the corner into place.
- Slide the remaining inside corner into the 3030 extrusion. Make sure the orientation mirrors that of the previously installed lower corner.

Do not fasten the grub screw on the second inside corner just yet.

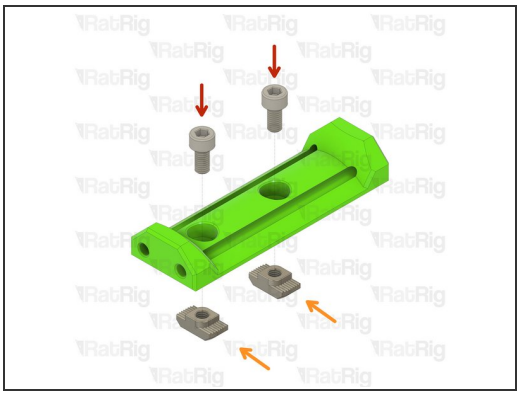
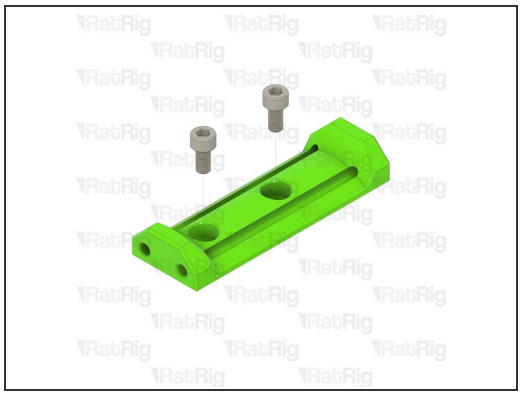
Step 4 — Install the arm





- 3030 Extrusion - 87mm
- Slide the 87mm length of 3030 extrusion onto the inside corners.
- Tighten all four grub screws on the inside corners to secure the arm in place.

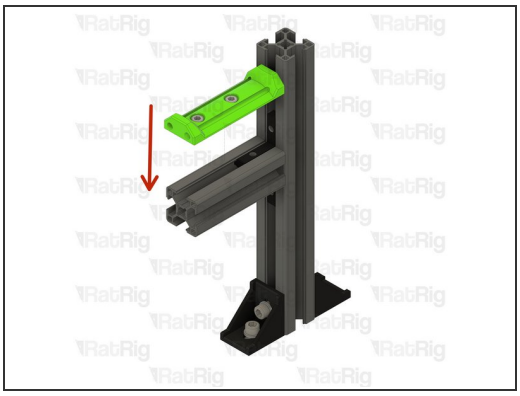
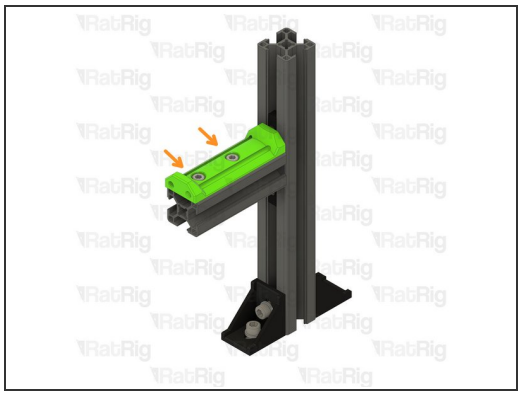
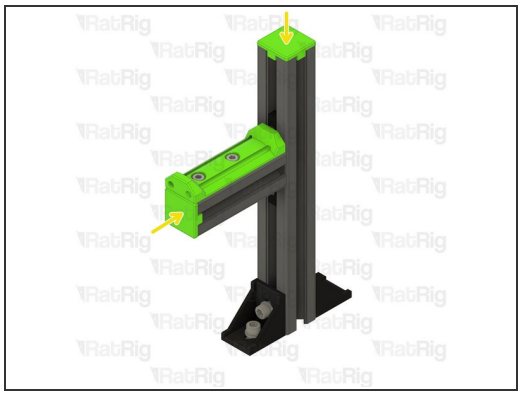
Step 5 — Assemble the printed spool holder


- M5x10 Cap Head Screw
- 3030 Drop-in T-Nut M5
- Insert the M5x10 cap head screws into the printed part.

ⓘ Loosely thread the 3030 T-Nuts onto the M5x10 screws. Do not tighten them at this point.

Step 6 — Final Assembly

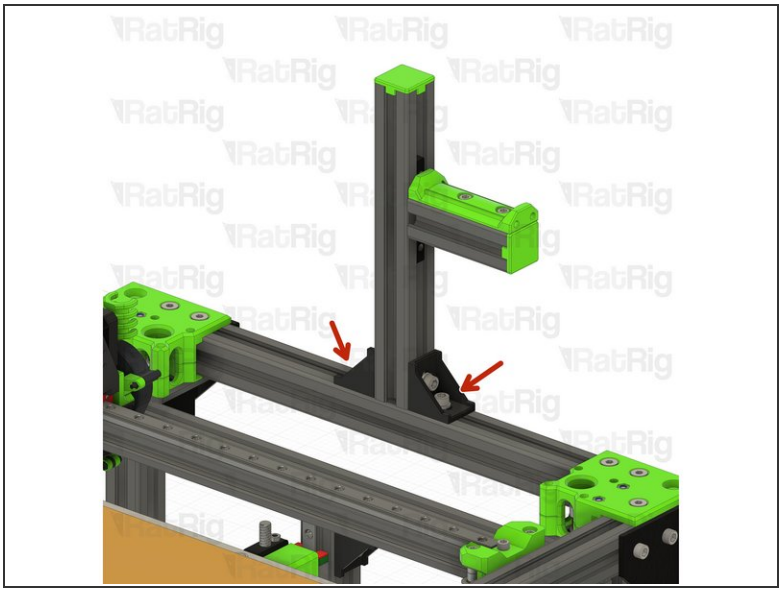




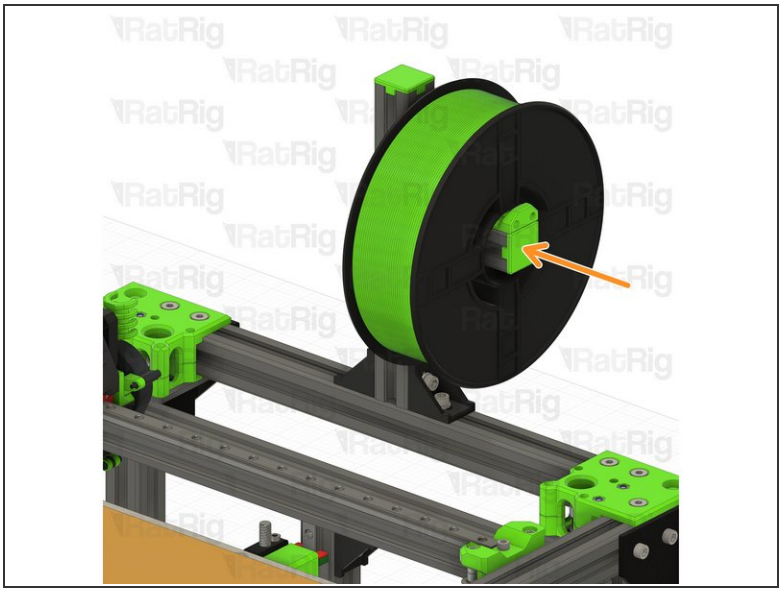
- Install the printed assembly onto the arm of the spool holder, making sure that the M5 T-Nuts drop into the 3030 extrusion slot.
- Gently tighten the two M5x10 cap head screws using a 4mm hex key.

⚠ Do not over tighten these screws as doing so could cause damage to the printed part.

- Install the 3030 extrusion end caps by carefully pushing them into place.

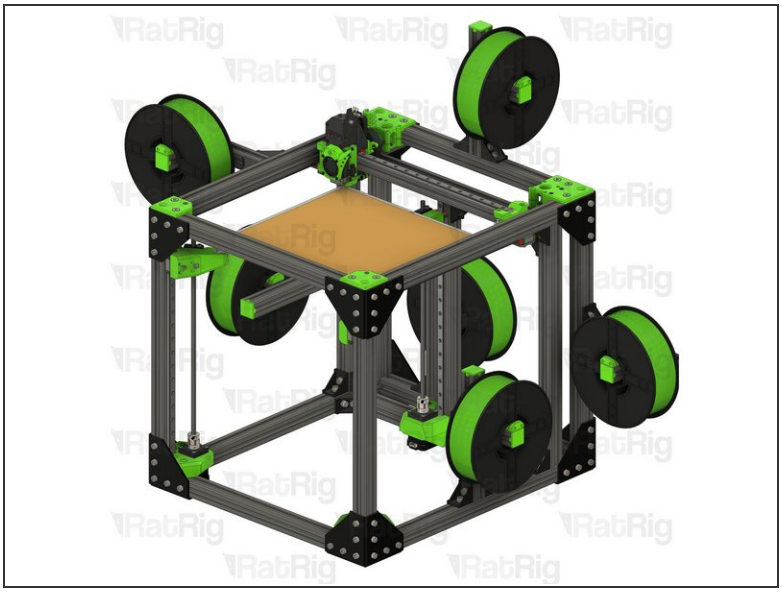
Step 7 — Installation

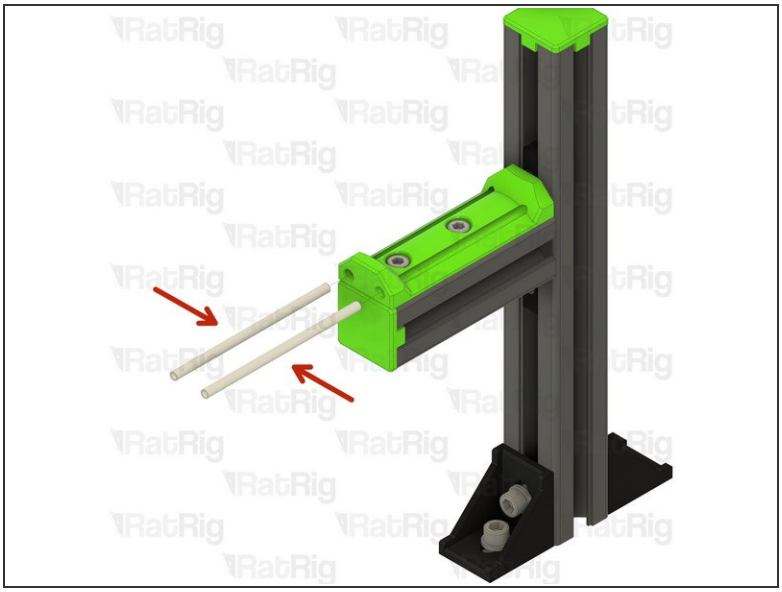




- Install the spool holder to the frame where desired. Simply put the spool holder where desired and then fasten the two M6x12 cap head screws.
- Slip your filament spool into place and you are ready to begin using the holder. The printed part keeps the spool secured when it spins.

Step 8 — Finished!





- The Rat Rig Spool Holder v2 is designed to be versatile and customisable to your needs. Here are a few examples of different mounting positions on the Rat Rig V-Core 3.
- Two optional 84mm lengths of PTFE / bowden tube can be installed into the spool holder to allow for even smoother movement of the spool.