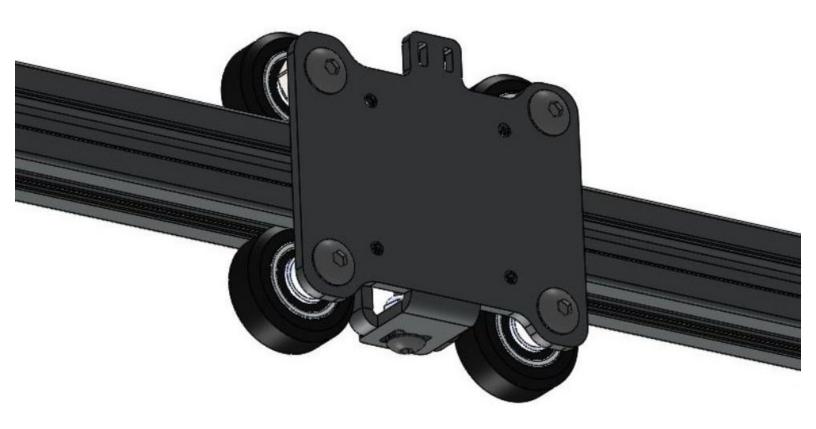
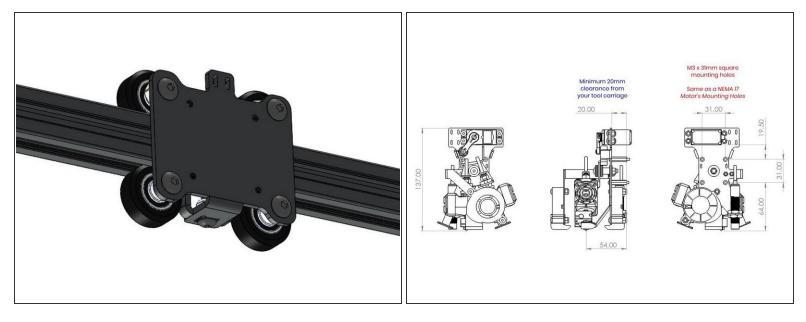
# Makertech

# DSE Only - Stage 04: Tool Carriage

Written By: Makertech

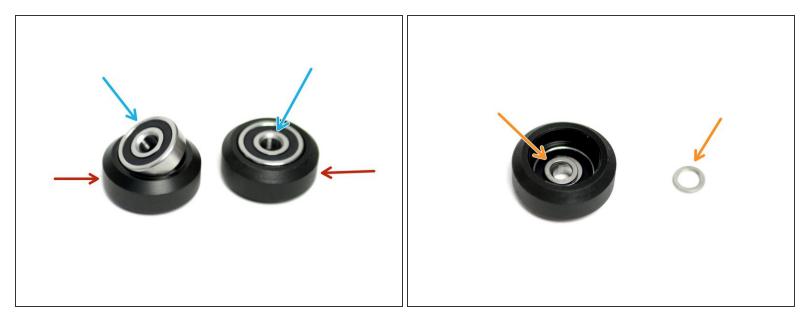


# Step 1 — Preparing the Tool Carriage



- (i) The DSE requires four M3 mounting holes, 31mm apart form each other.
- If your printers gantry is a piece of 2020 aluminium extrusion you may be able to use the Proforge 2S tool carriage, available for separate purchase <u>here</u>.

# Step 2 — Installing the Proforge 2S Tool Carriage

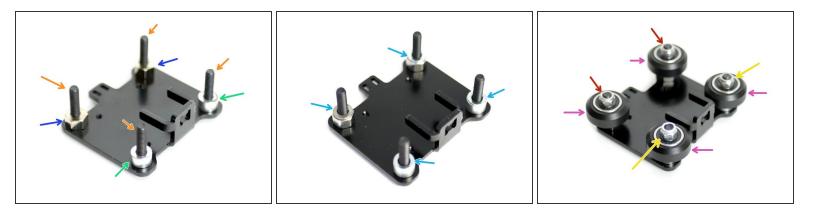


#### (i) Roller Assembly x4:

- Create a roller assembly by pressing two 625zz bearings into a delrin roller wheel with a 1mm shim between them.
  - Delrin Roller Wheel
  - 625zz Bearing
  - Precision Shim

You may need to use a pair of pliers to force the bearings into the delrin wheel.

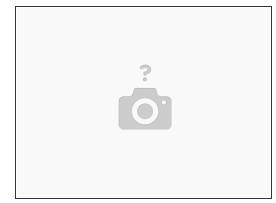
# Step 3 — Tool Carriage Assembly



(i) Assemble the tool carriage rollers as shown in the images:

- 4x M5 x 25mm bolts
- 2x M5 spacers
- 2x Eccentric spacers
- 4x M5 washers
- x4 Roller assemblies
- x2 M5 Nylocs Tighten Firmly
- x2 M5 Nylocs Tighten Loosely (eccentric spacer should still be able to turn)

### Step 4 — Tool Carriage Install



See <u>Stage 6</u> of the Proforge 2S build manual for instructions on installing the tool carriage to your gantry.