5 AXIS PRINTER

How to guied

BOM

Bom is here: https://1drv.ms/x/c/a3f42e945c9caa44/EbQFKpQWxlxJoD3NqtjWvSIBQ96Bu_KVVyi092GPrF79ng?e=d1bzi9

fram

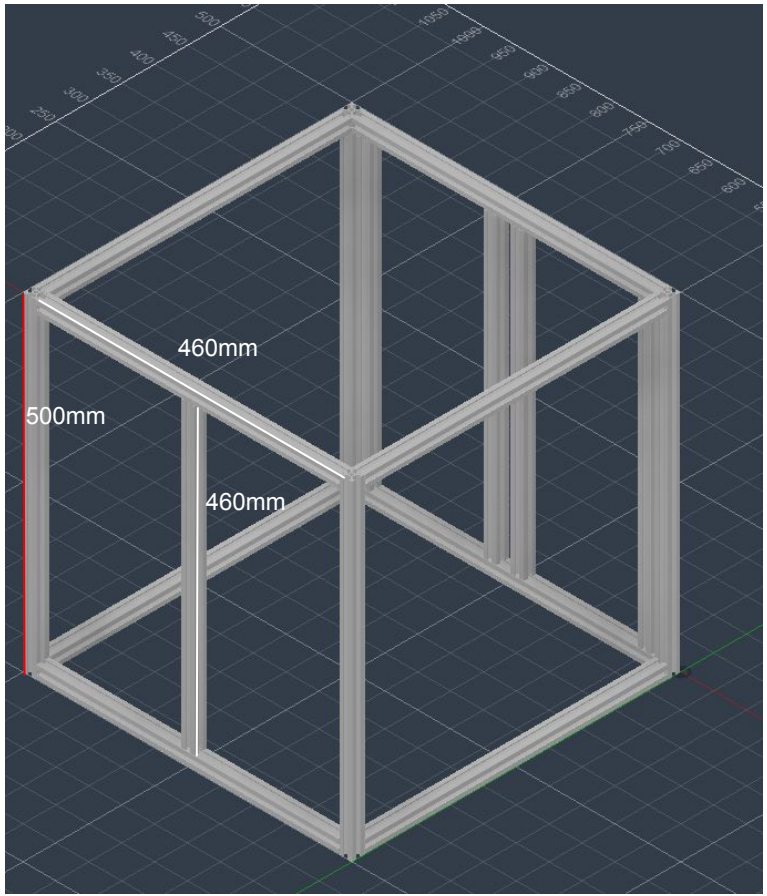
The frame is made of 2020 aluminium extrusion. Use t slot nuts + corner joining plate and 90 deg joining thing

U need the following pieces-

-500x4

-460x14

Total - 8.5m



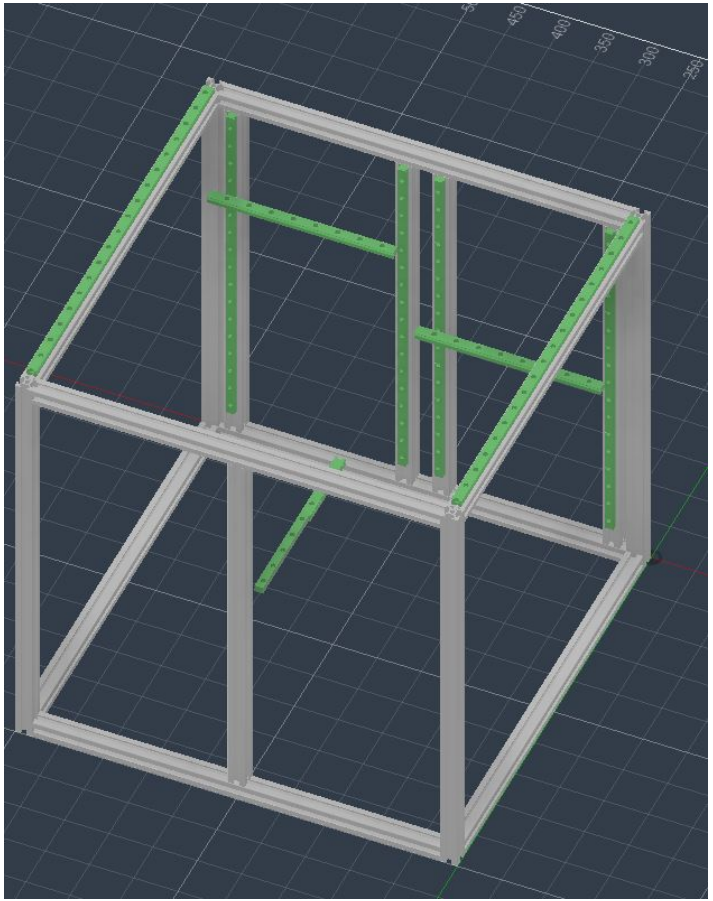
linear

U need about 4.5 m of linear rail. And 11 mgn12c blocks. Linear rail dimensions are-

-460x3 mm

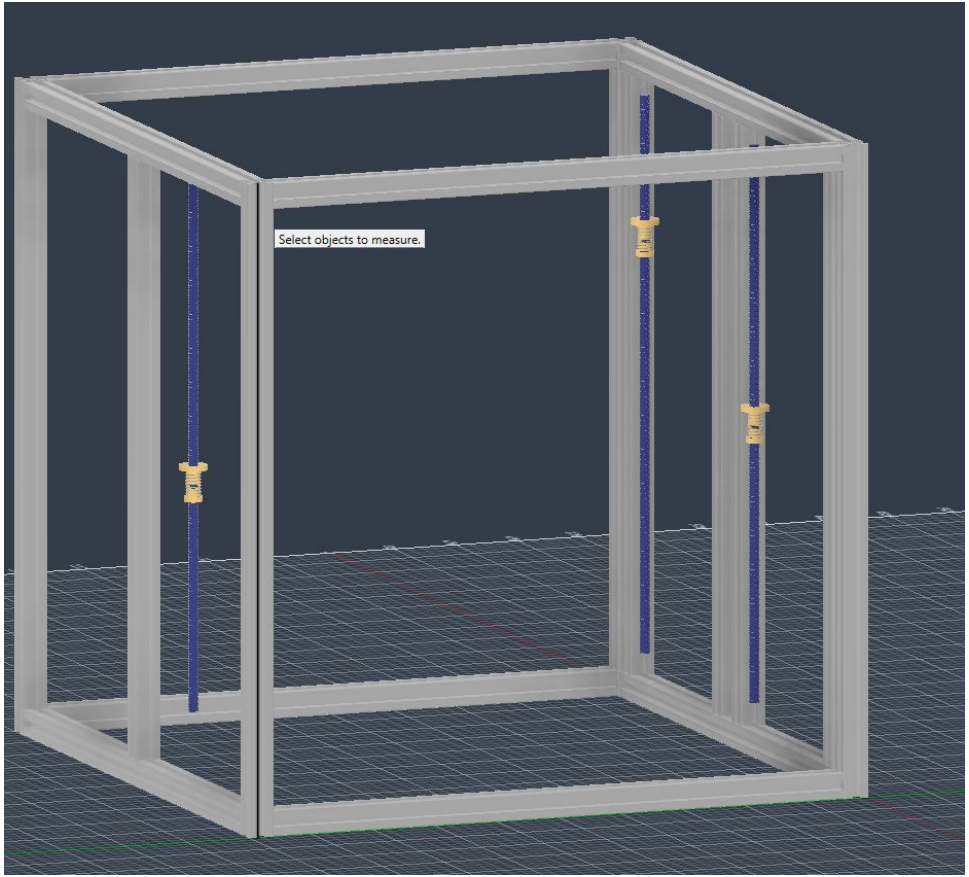
-210x3 mm

-420x5 mm



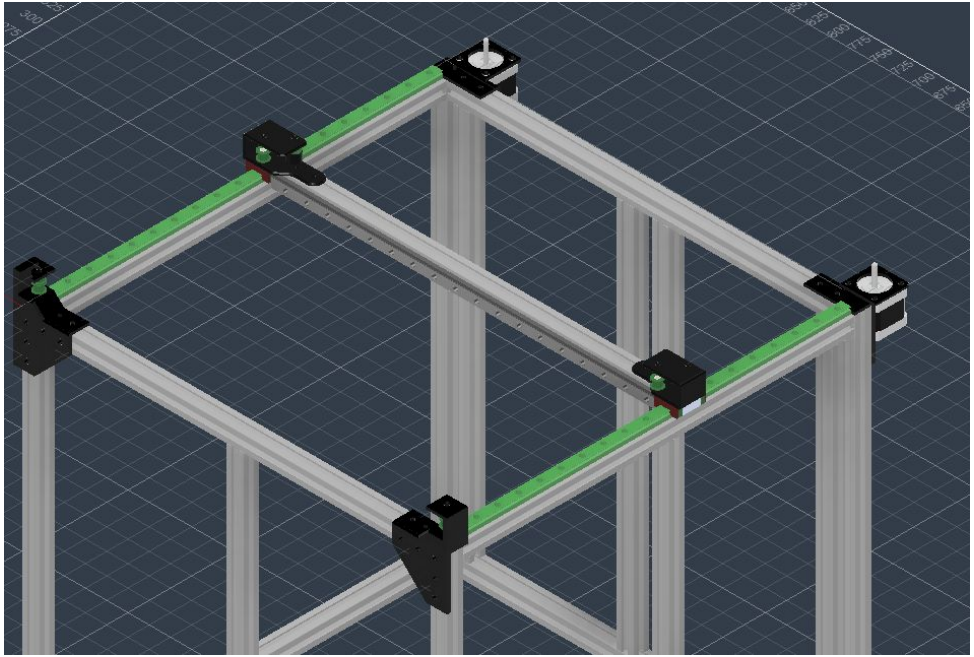
Lead screw

U need 3 lead screws, 425 each. U also need 3 anti backlash nuts



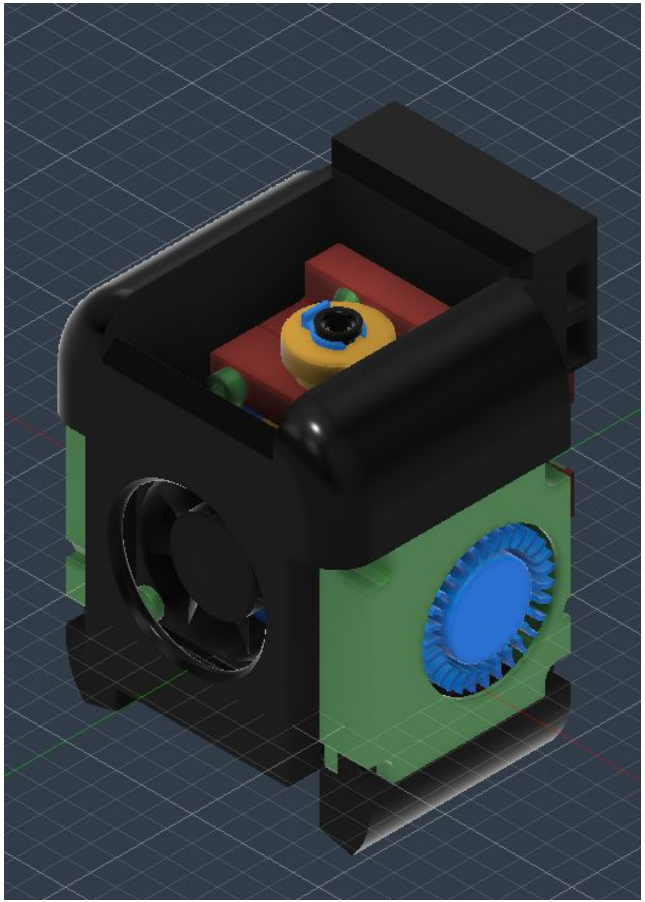
XY

Corexy xy, driven by belts and pulleys. U need 2 16t smooth idler pulleys, and 6 16t idler pulleys. U also need 2 20t pulleys for the motor



toolhead

For the toolhead i will use a E3D revo, along with 2 4010 radial fans and a 3010 axial fan

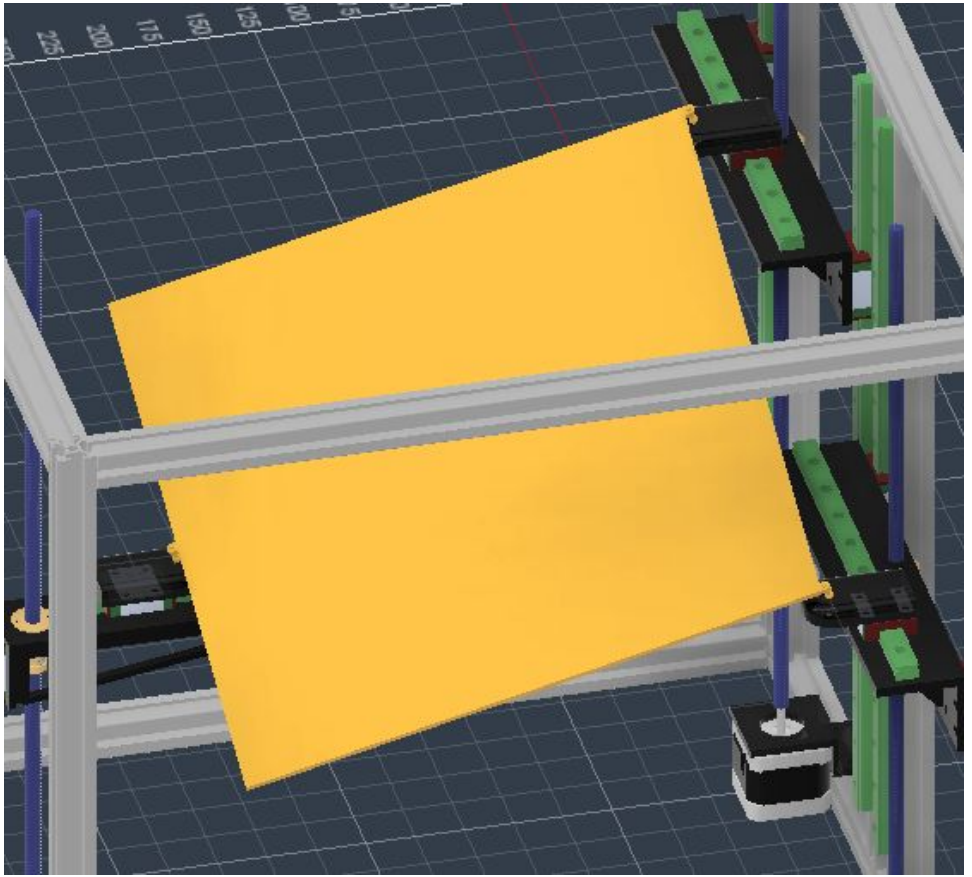


motor

You will need 2 motors for xy, and 3 motors for z, a and b. And 1 for extruder.

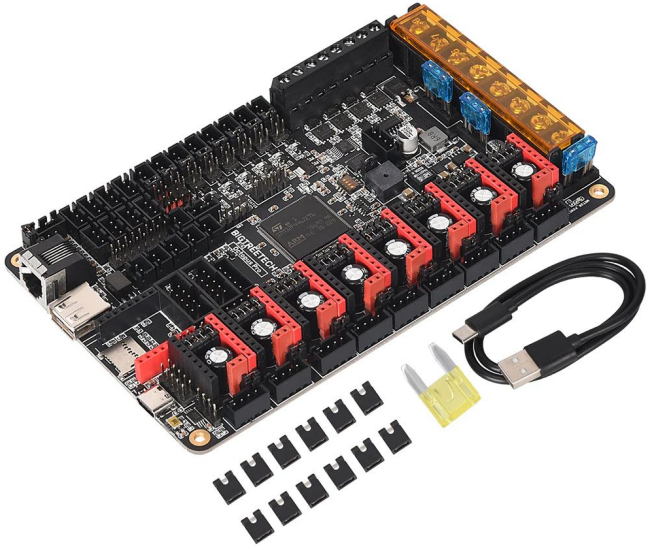
Z, A, B,

For z, a, b install the cantilever 3d printer parts to the linear blocks and lead screw. Then install the 210mm linear rail to the cantilever parts. After that install the ball socket joint mount on the linear block of the linear rail which is on the cantilever thing. I will be using a 300x300 mm heatbed for this



electronics

I wll be using a bl sensor. The motherboard thing for this will be a btt octopus pro.



wiring.

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