OPEN 3D ENGINEERING

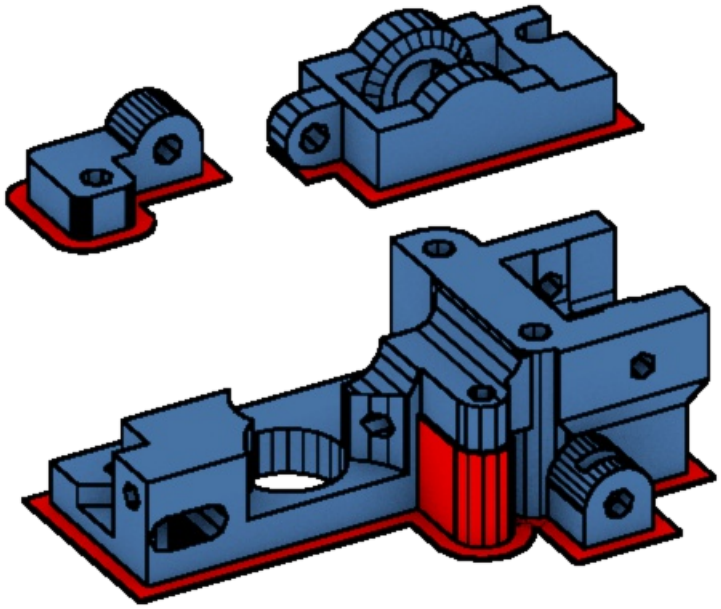
Electronics and Software Manual

In this manual we´ll first assemble the Einstein Compact Extruder. Than we put the endstops. The cabling is done after that.

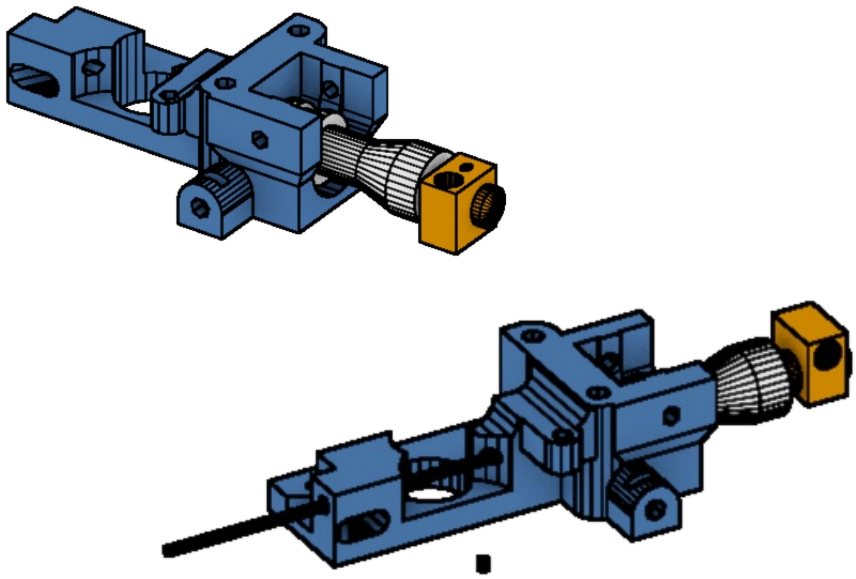
As soon as all the cables are connected and CHECKED by the workshop teachers we are going to connect the USB cable and glue the endstop magnets. After that we upload the firmware to the Arduino.

Once that is done it´s time to get the machine alive. First we check if all motors move in the right direction

THIS IS A MANUAL UNDER CONSTRUCTION!!

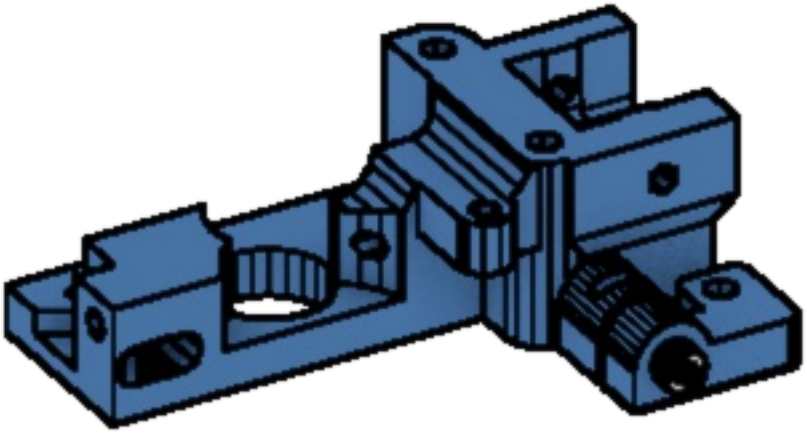


Cut of the print support marked red.

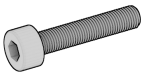


Mount the nozzle and try the filament path with a piece of PLA

OPEN 3D ENGINEERING

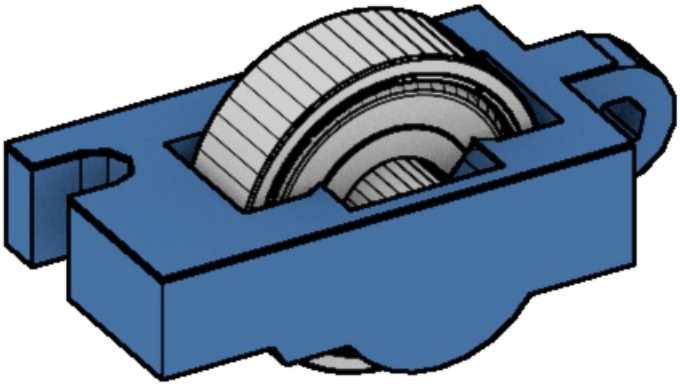


Mount the Fan Mount



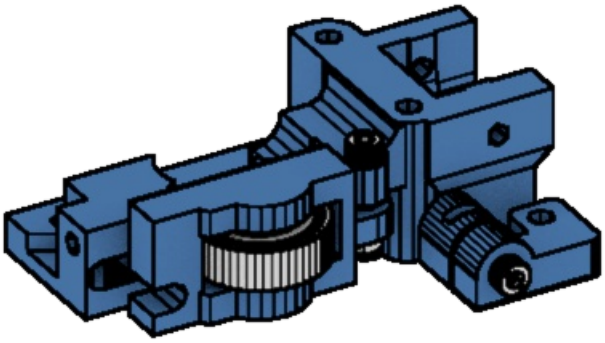
[1x]
Din912 M3 x 16

[1x]
Din934 M3

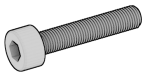


Click in the bearing with the M8 x 16 minirod

[1x]
608 Bearring

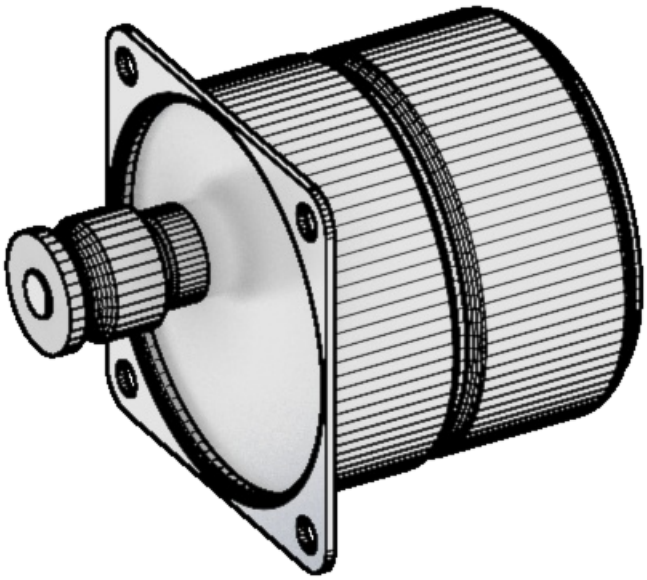


Mount the Fan Mount

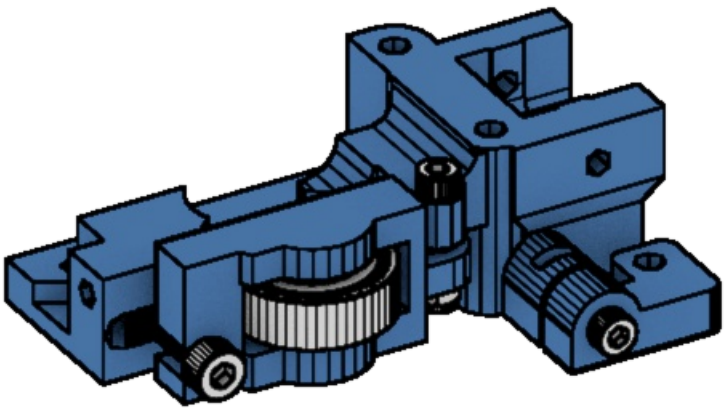


[1x]
Din912 M3 x 16

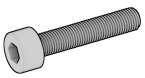
[1x]
LocNut M3



Mount the filament drive pulley, more or less like this and check it with the filament path

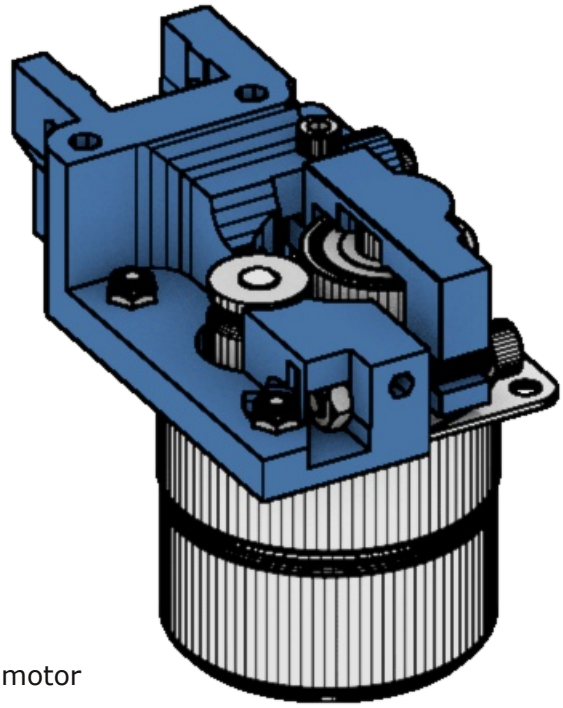


Loosely mount the filament tensioner screw

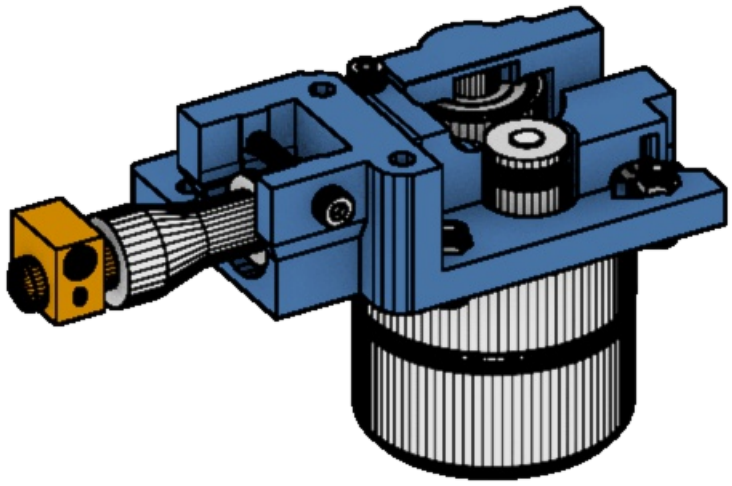


[1x]
Din912 M4 x 25

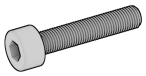
[1x]
Din934 M4



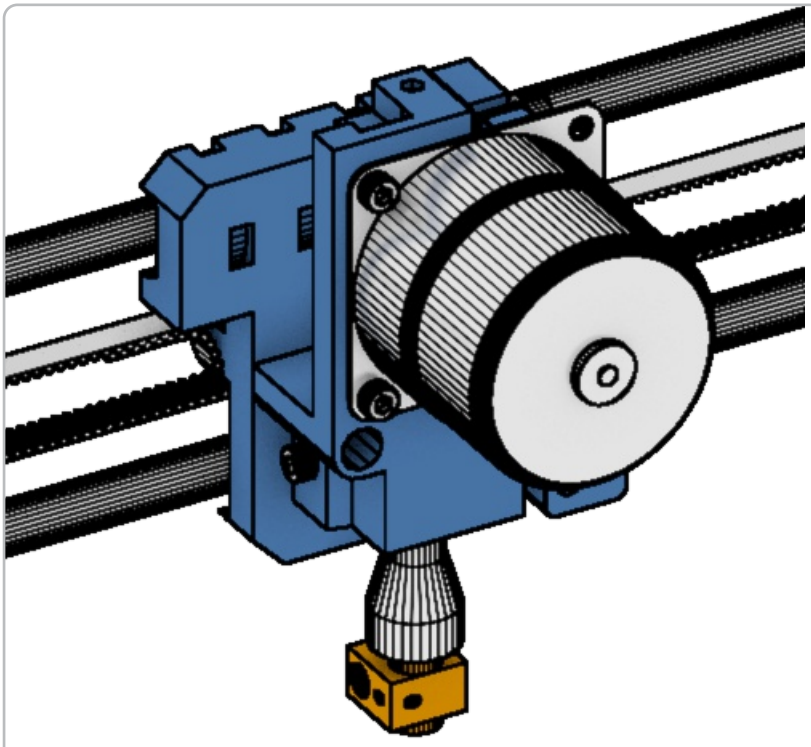
Mount the motor



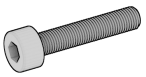
CAREFULLY mount the nozzle and CAREFULLY put in the screw.



[1x]
Din912 M3 x 25

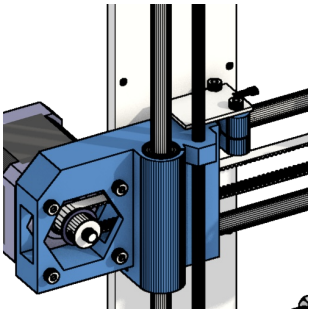
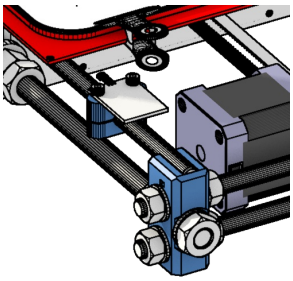
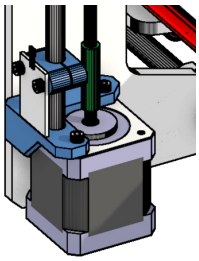


Mount the extruder to the printer

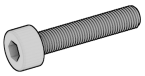


[2x]
Din912 M3 x 25

[2x]
Din934 M3

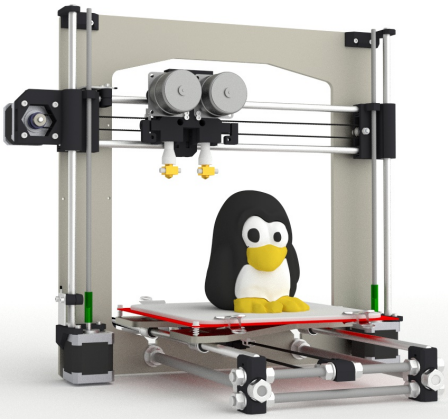




Mount the X, Y, and Z endstop. Exact position follows later.



[6x]
Din912 M3 x 20

[6x]
LocNut M3



Mount the motor