

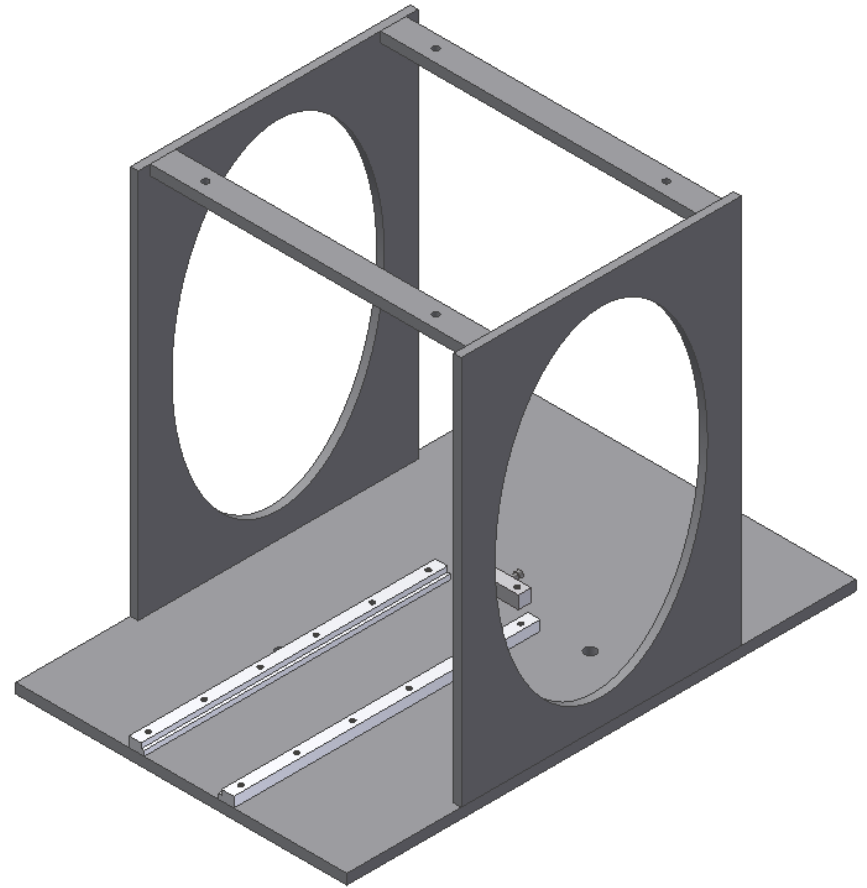
Procedure for hanging the test and recoil masses

Fabián

Conceptual and preliminary version

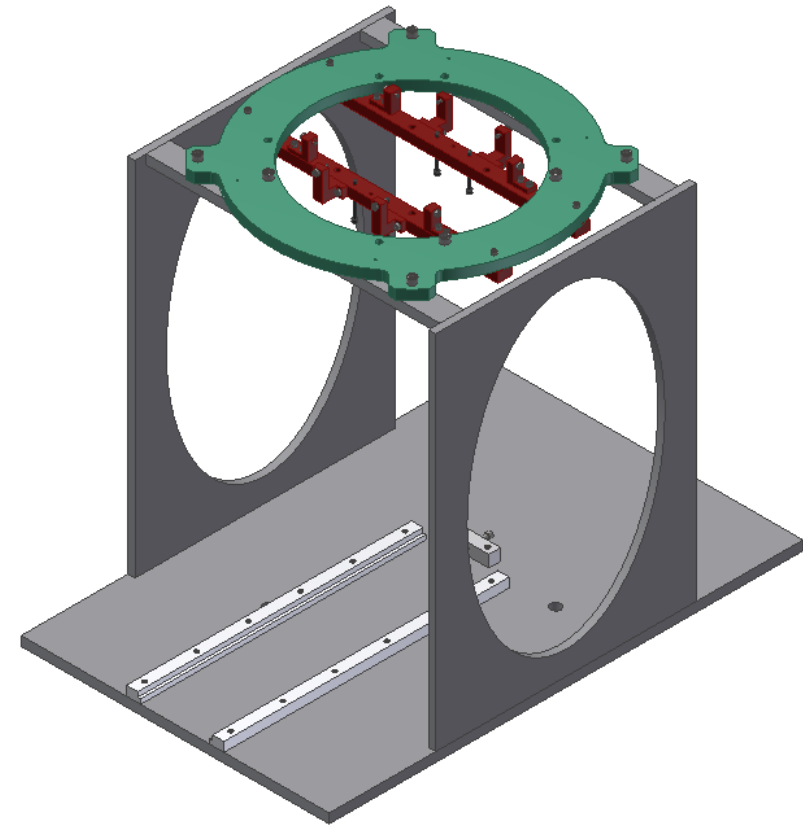
Step 1

- We begin with the bare frame

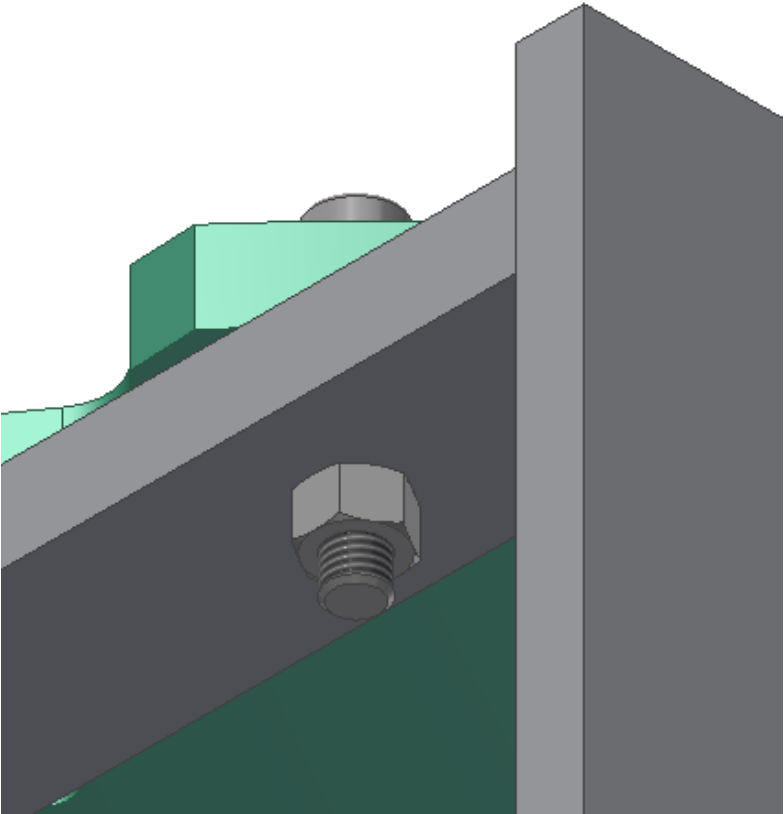
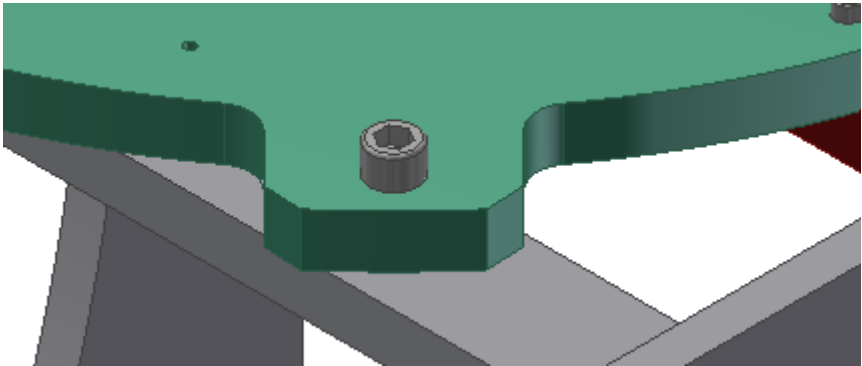


Step 2

The earthquake stop for the IM is placed on the frame and secured.

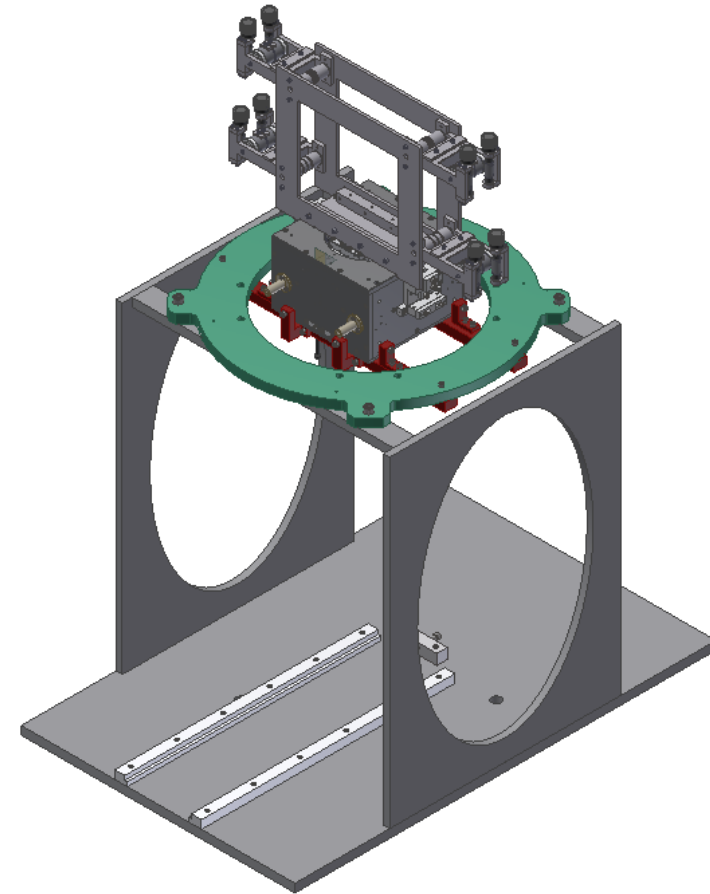


Step 2



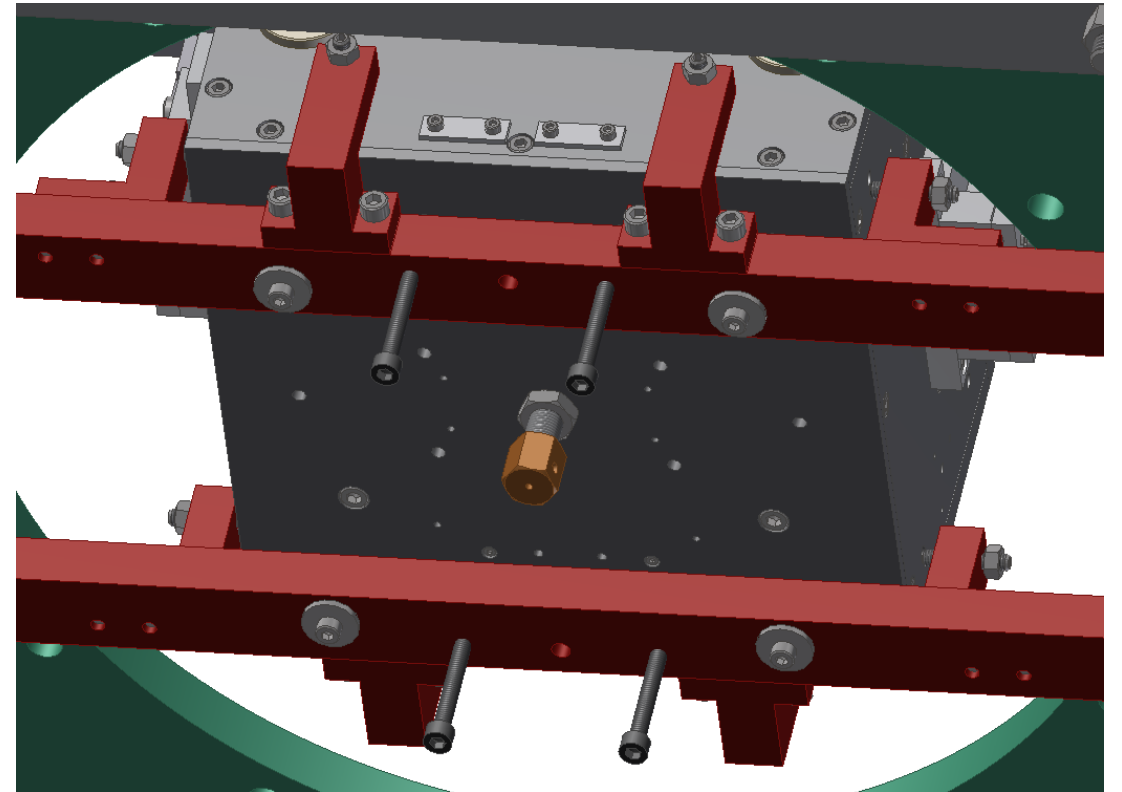
Step 3

The winch system is placed on top of the IM and secured.



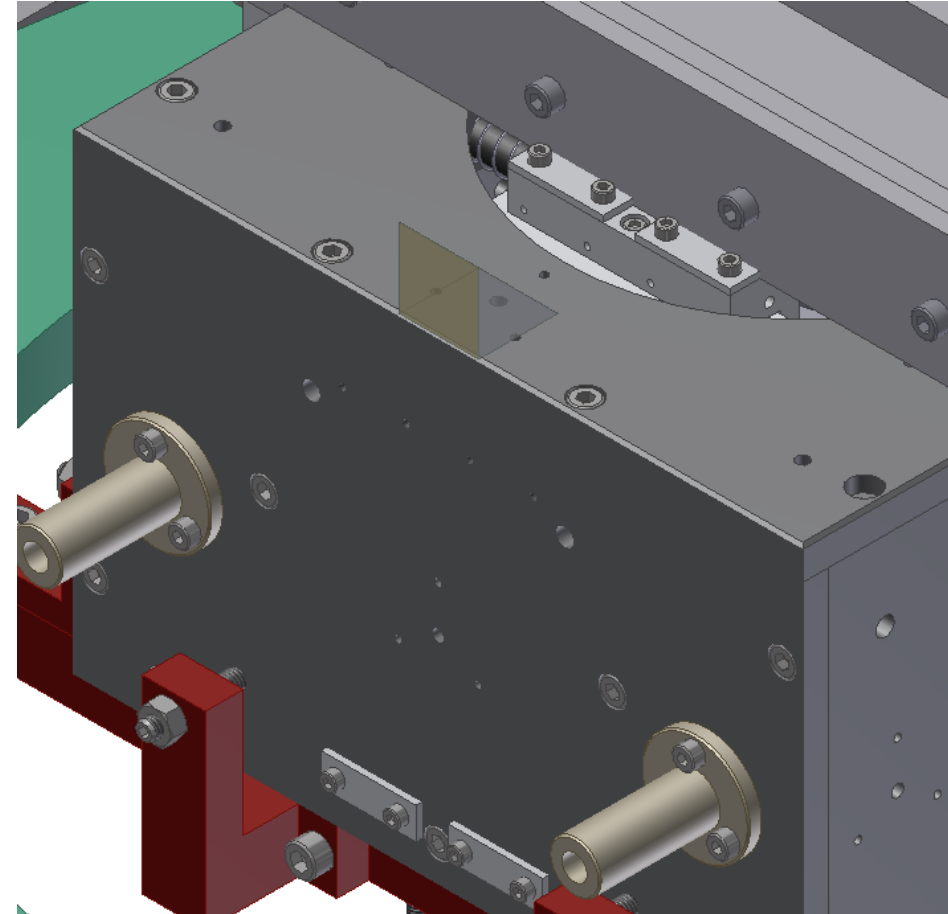
Step 4

The tilt of the IM is adjusted by means of 4 long screws which are supported by the cross beams in the earthquake stop.



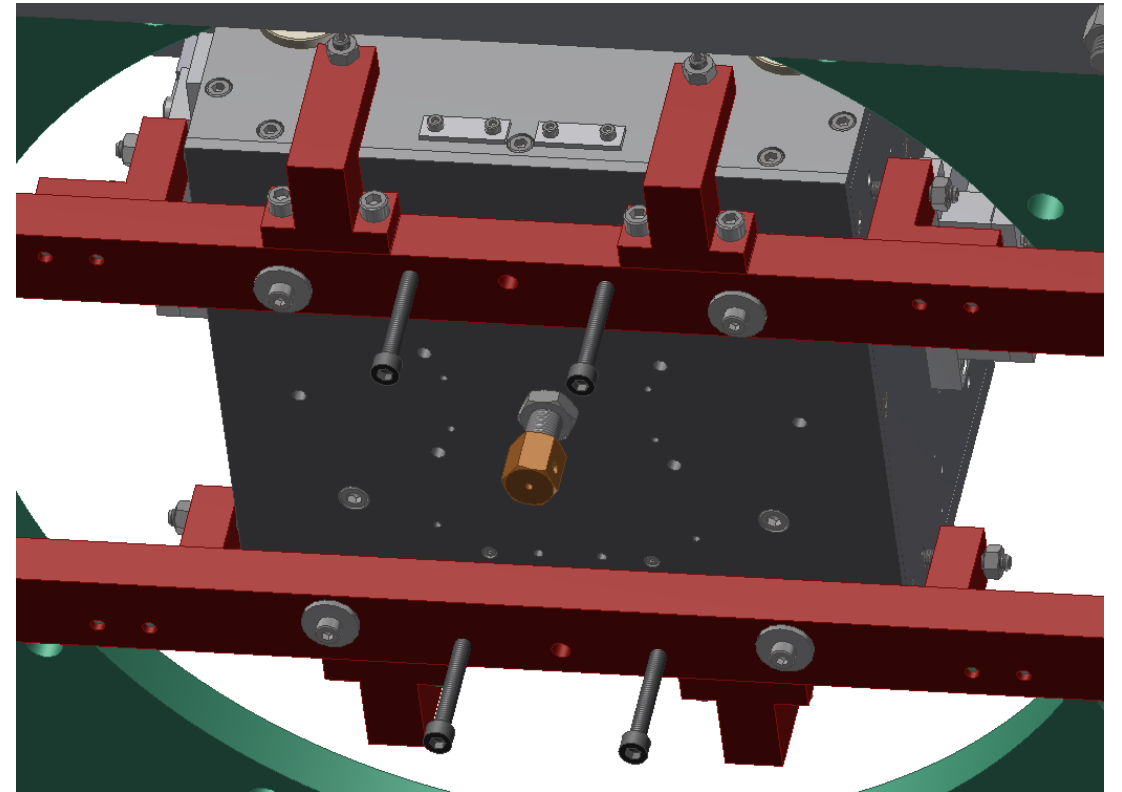
Step 5

The tilt is adjusted by means of an optical lever (or bubble level) by means of a right angle prism places on top.



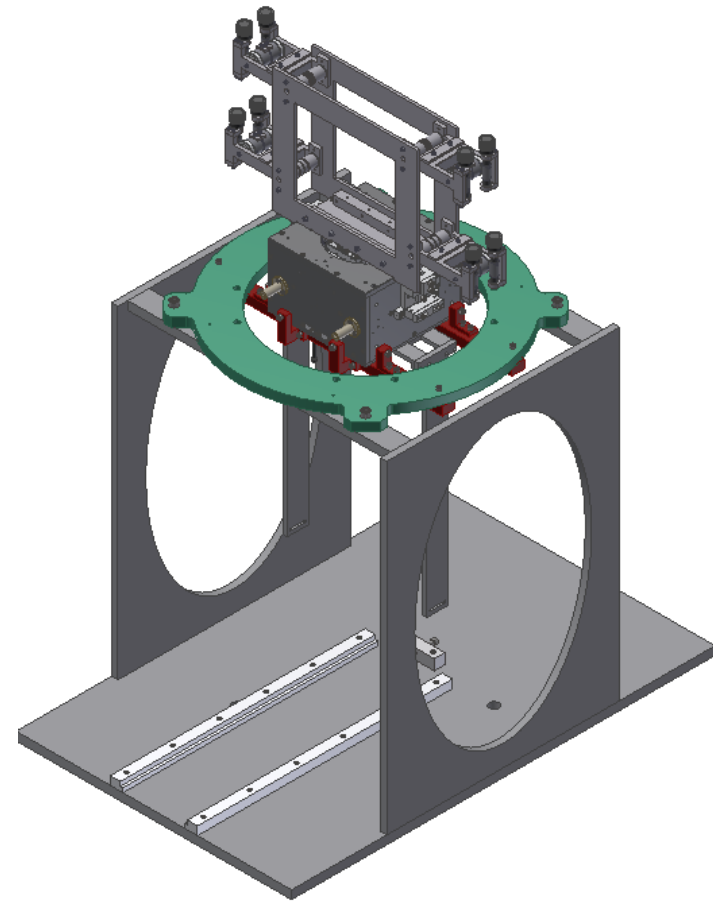
Step 6

Once the IM is straight, it is secured in position by means of 4 screws which are also supported by the cross beams in the earthquake stop.

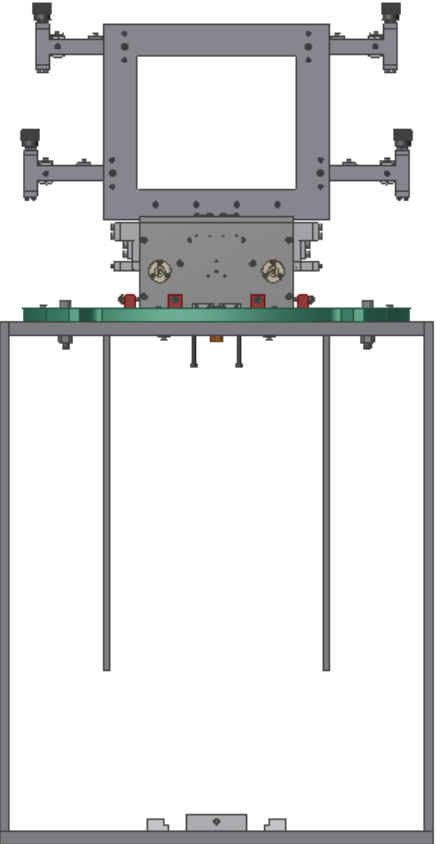
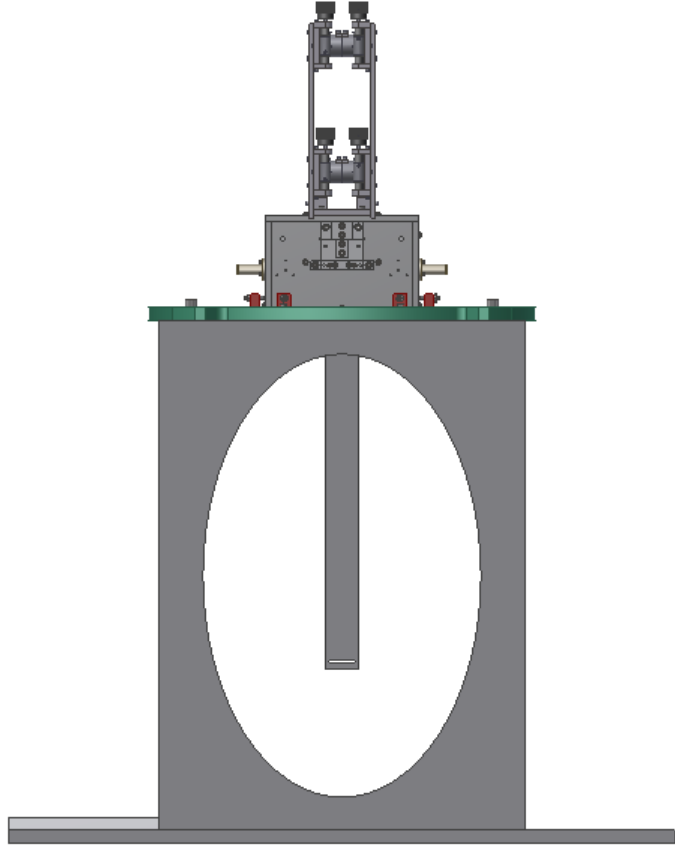
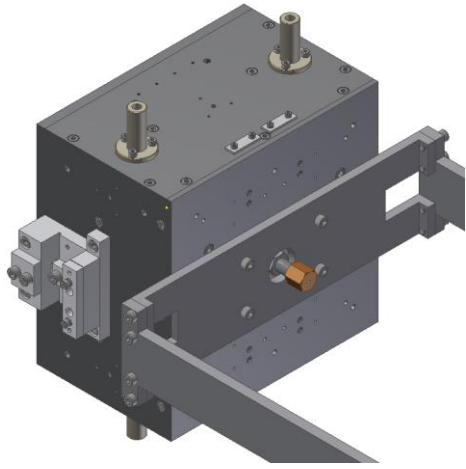
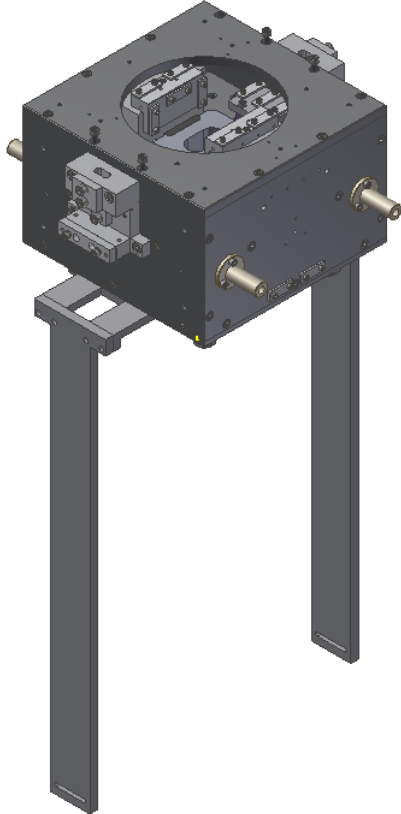


Step 7

The alignment aid components are put in place.

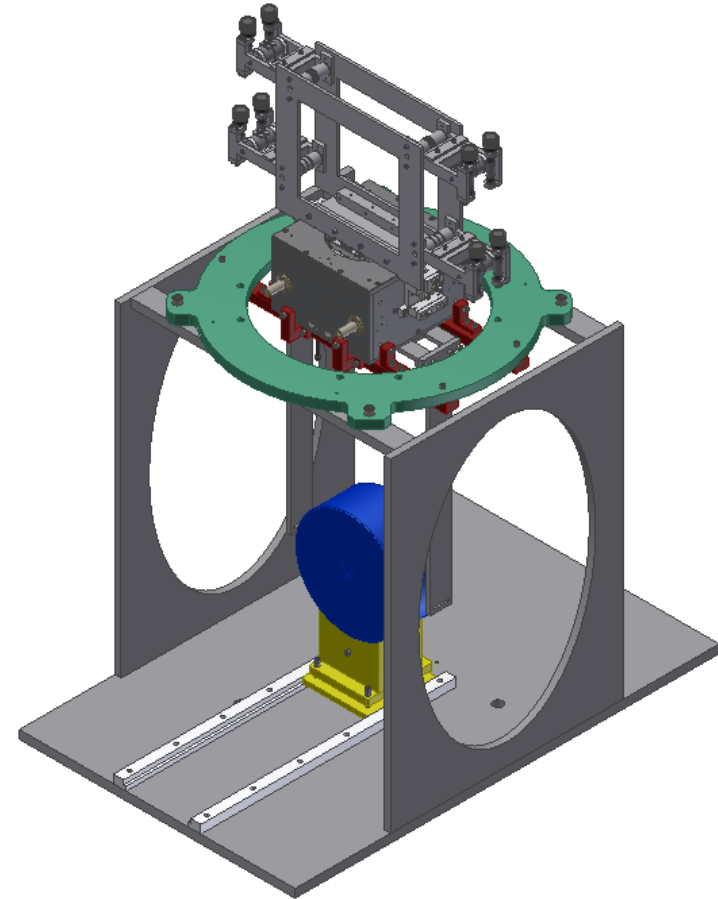
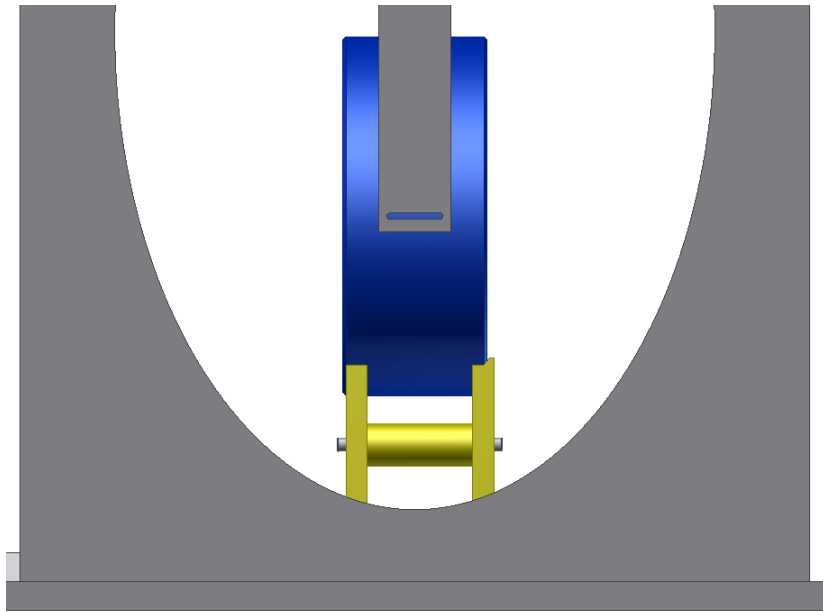


Alignment aid



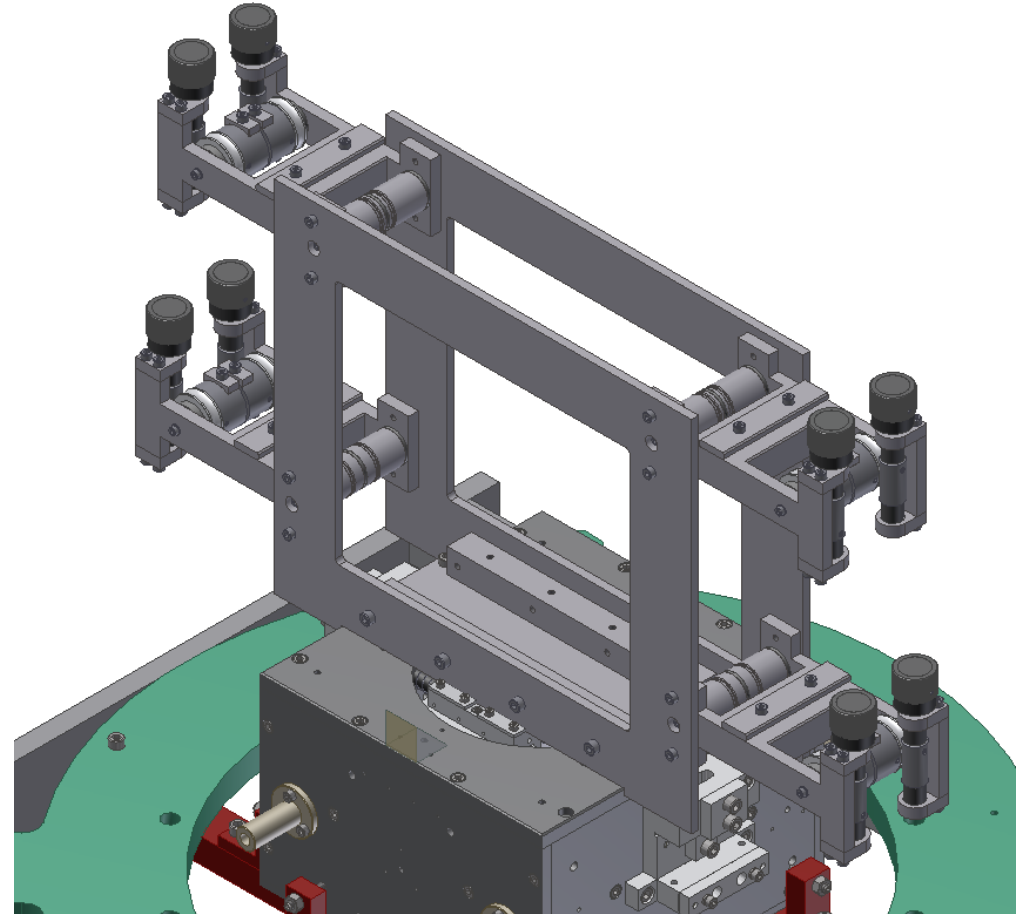
Step 8

Place mirror and align the wire breaker with the slit.



Step 9

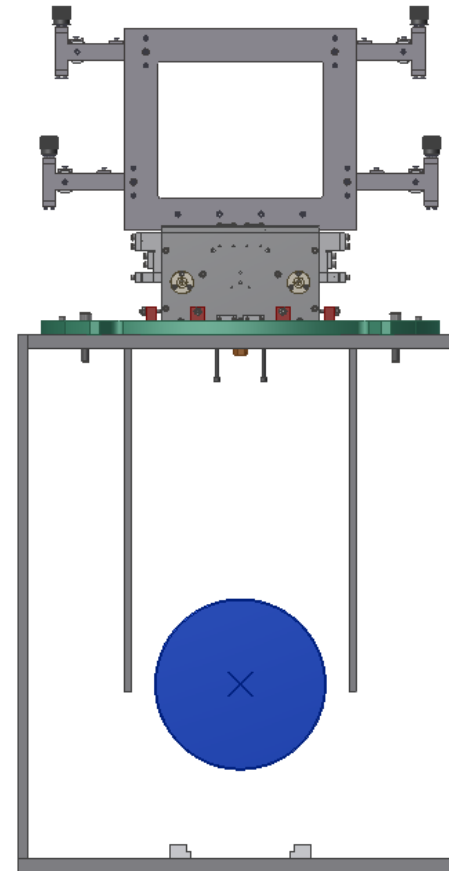
Wind wires on either one of the upper winches.



Step 10

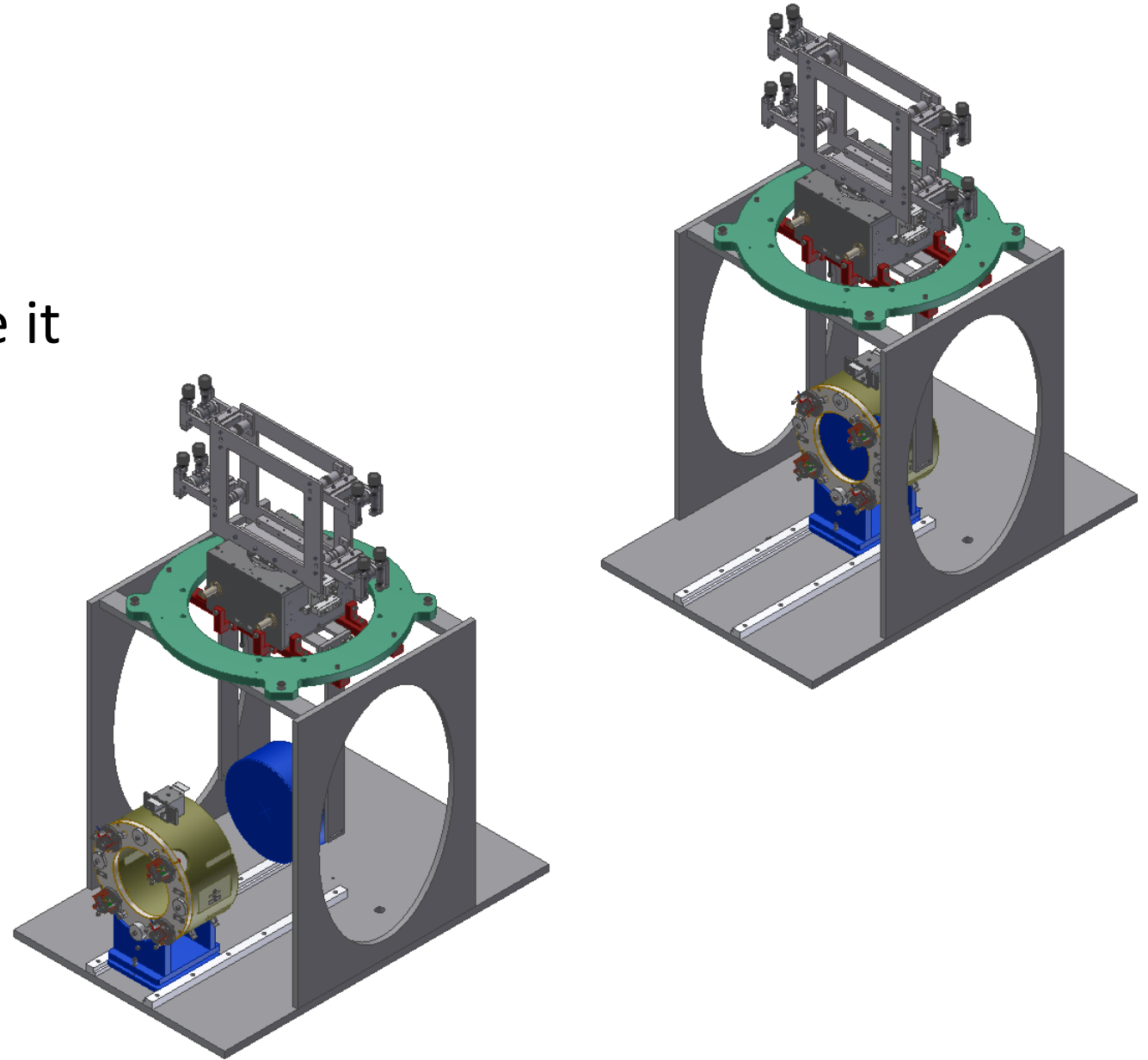
Hang the mirror and remove the mirror support.

(In the drawing the wires and wire breakers are missing.)



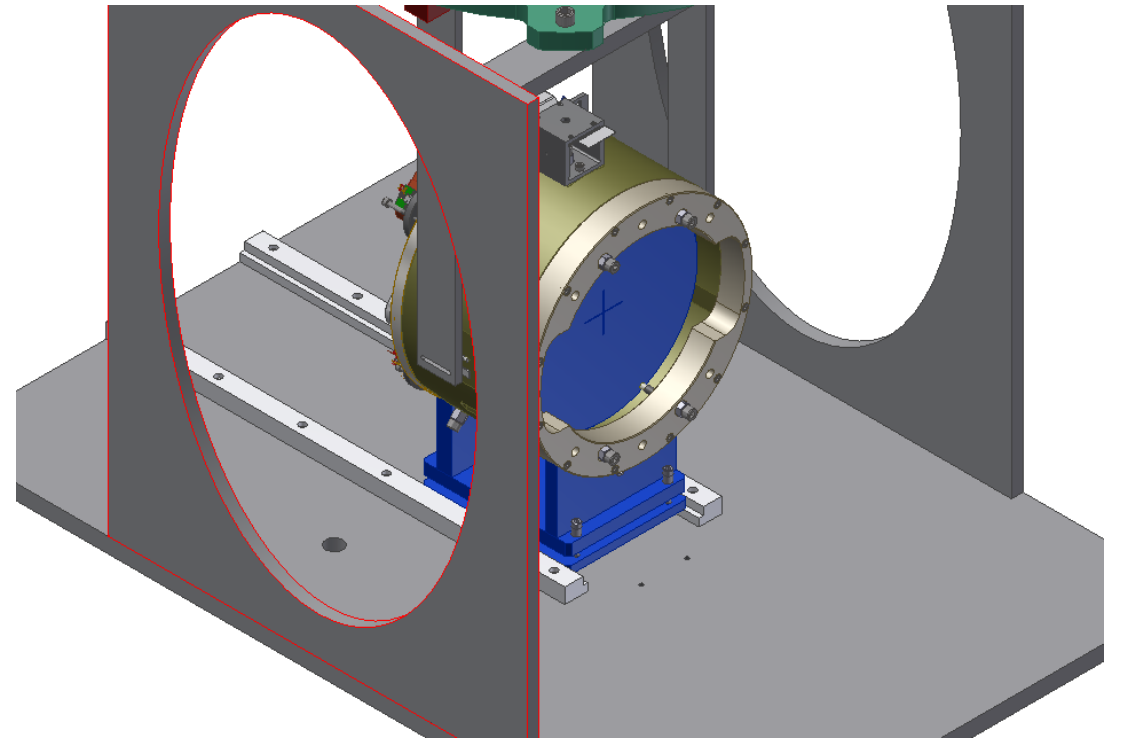
Step 11

Place the RM in place and slide it around the hanging TM.



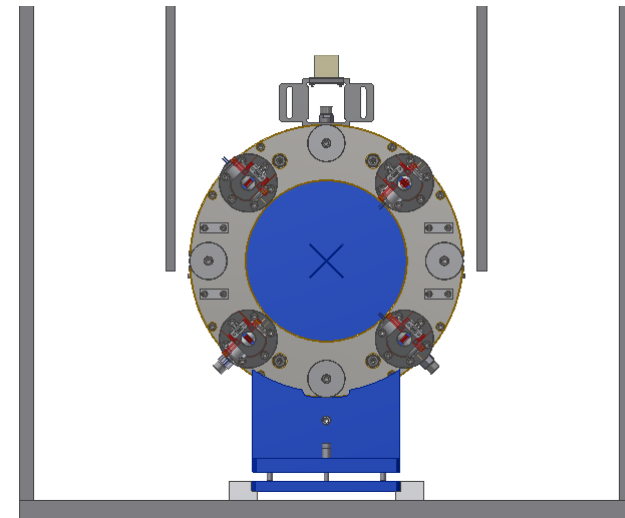
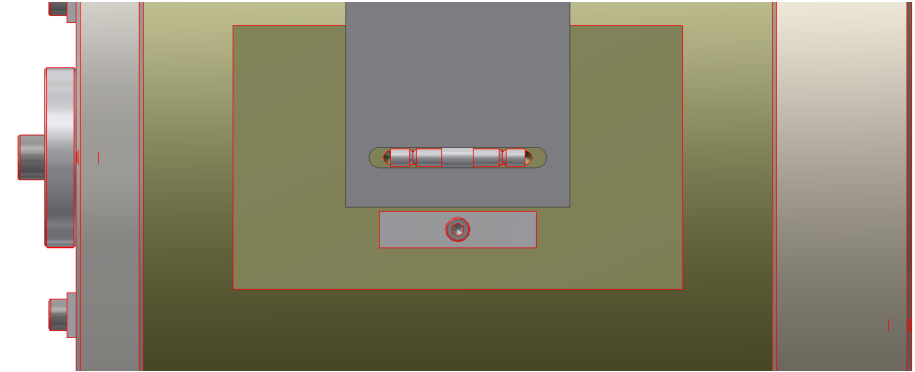
Step 12

Place the front ring.



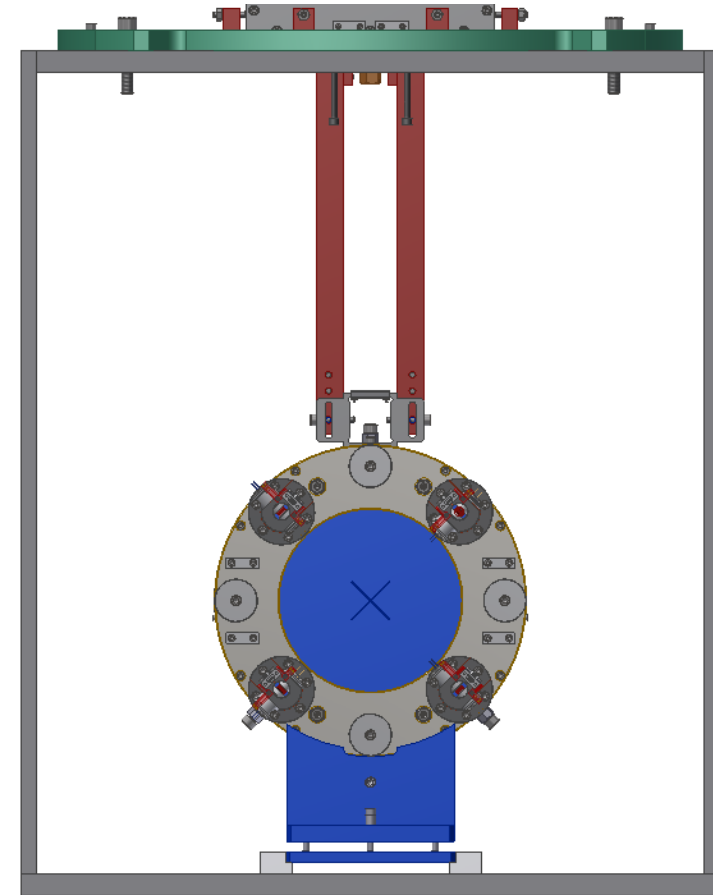
Step 13

- Align the wire breakers with the slit and hang the recoil mass.
- Once it's aligned with the optical lever (see prism) or bubble level, bring the support up again for securing the TM.
- Lock the TM to the RM.



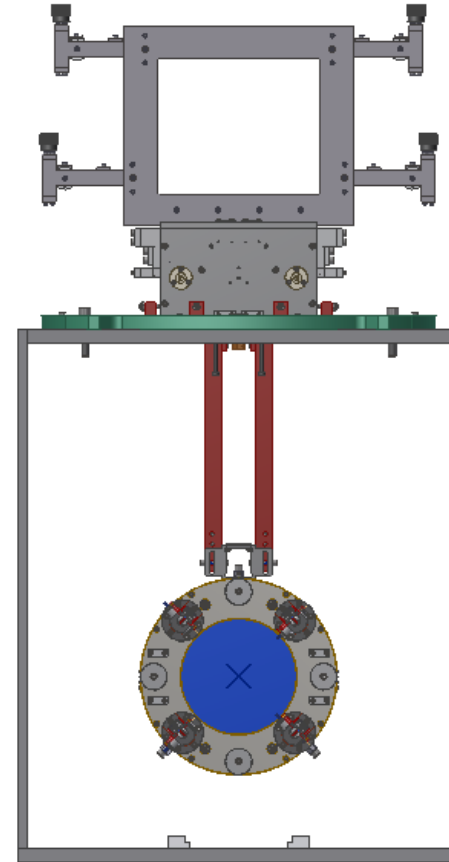
Step 14

Remove the alignment aid and secure with bars.



Step 15

- Remove RM support.



Step 15

- Assemble the earthquake stop.

