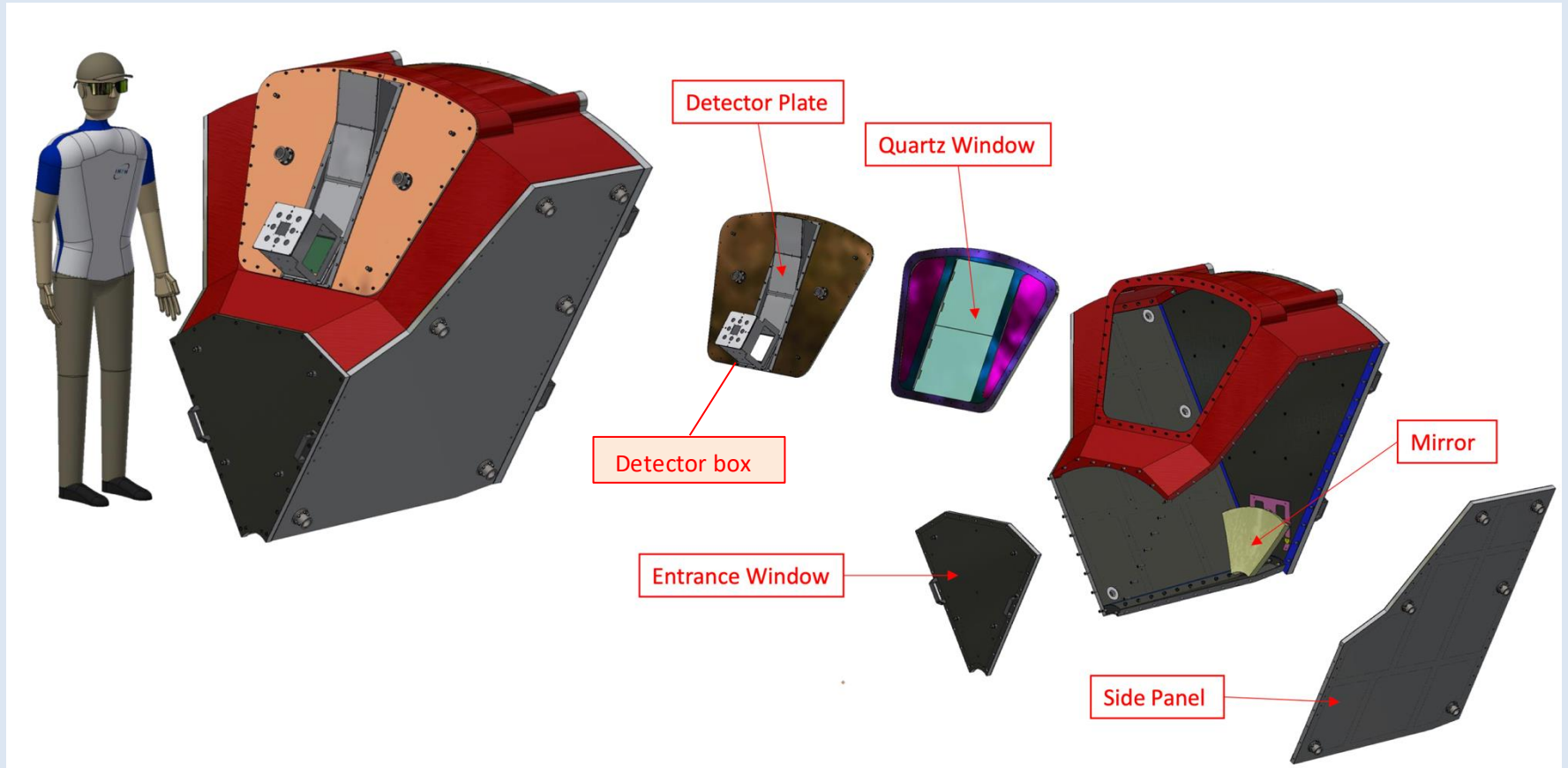
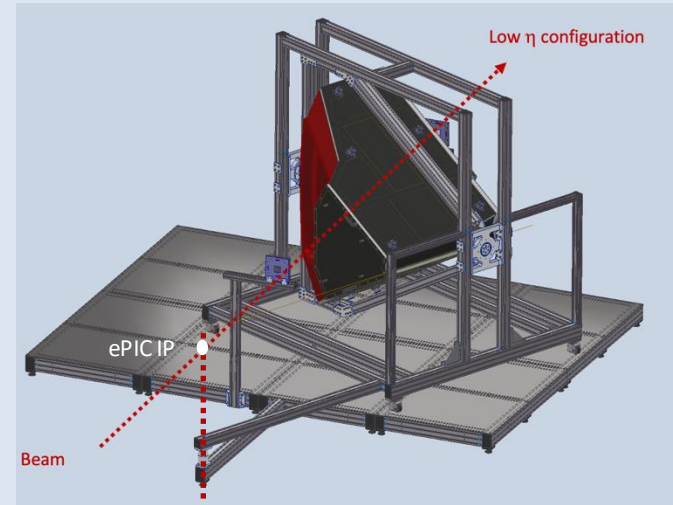
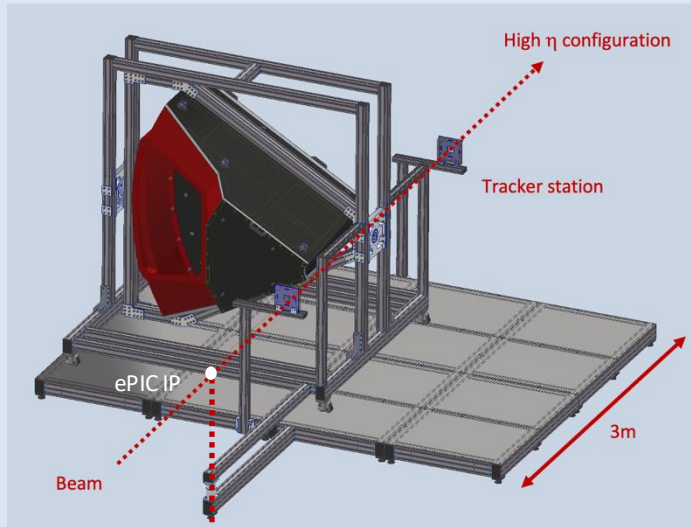


1/6 of the detector (1 ePIC sector), mid-size optical and radout components, optics as in ePIC

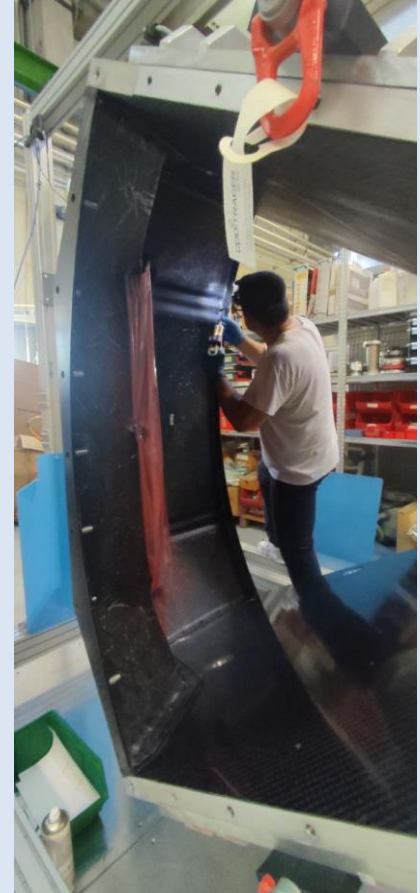
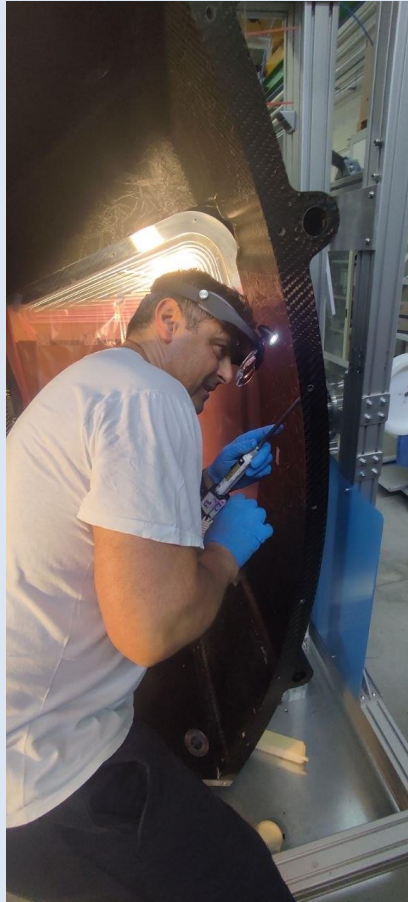


Saddle + Platform for safe operations (pseudorapidity scan with beam and cosmic tests)



Prototype Status

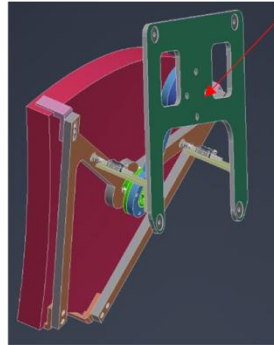
Cure (sealing) of defects



Mirror



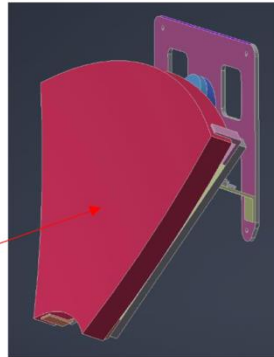
Mirror



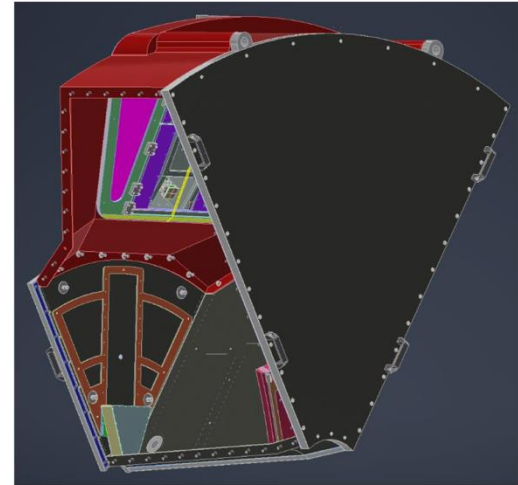
Mirror Holder



Mirror Holder

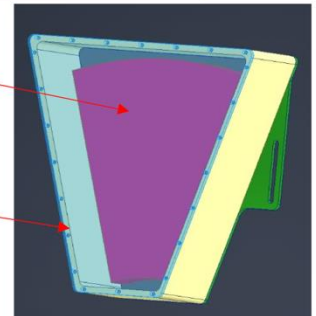


Aerogel

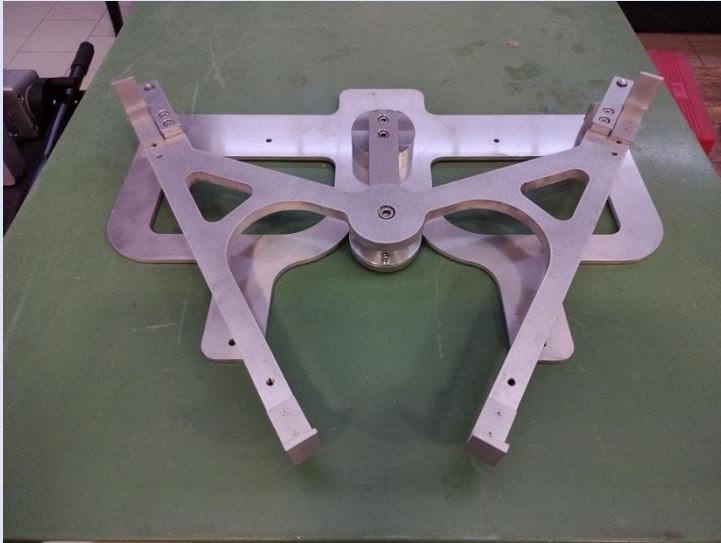


Aerogel Tile

Aerogel Holder



Mounting support for the mirror and piezo's (2 positions)

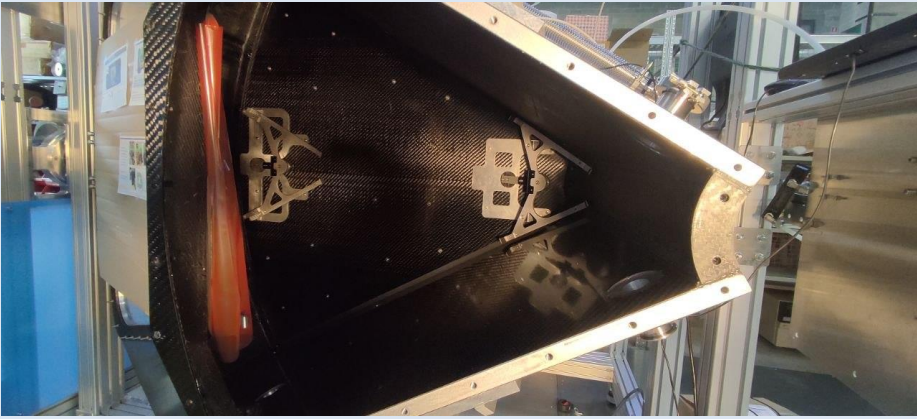
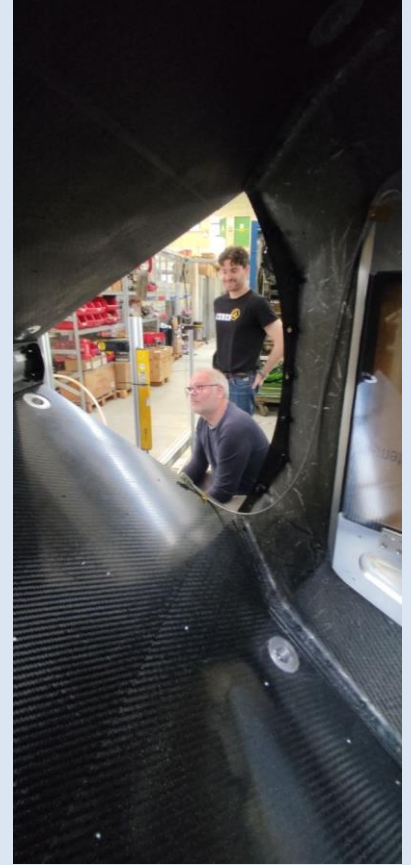
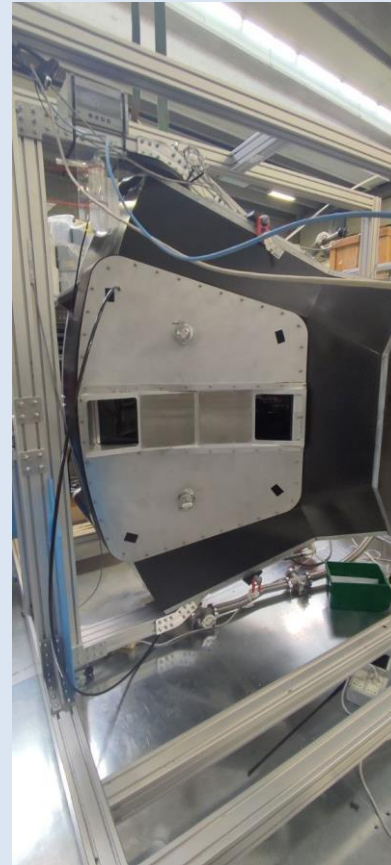
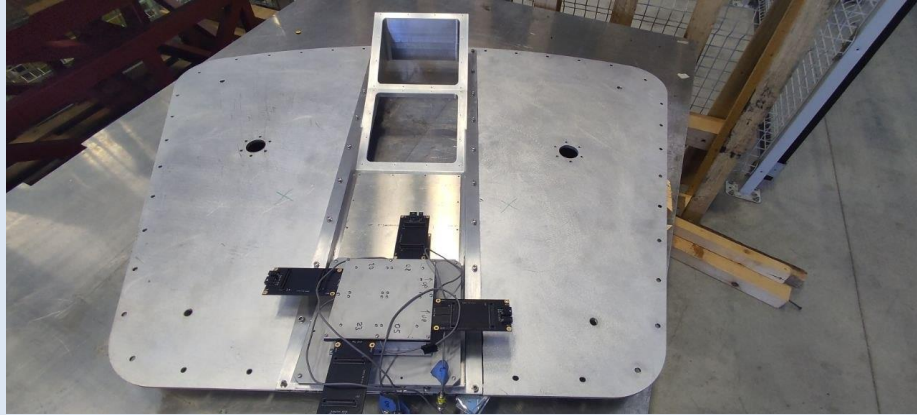


Mounting support for the aerogel

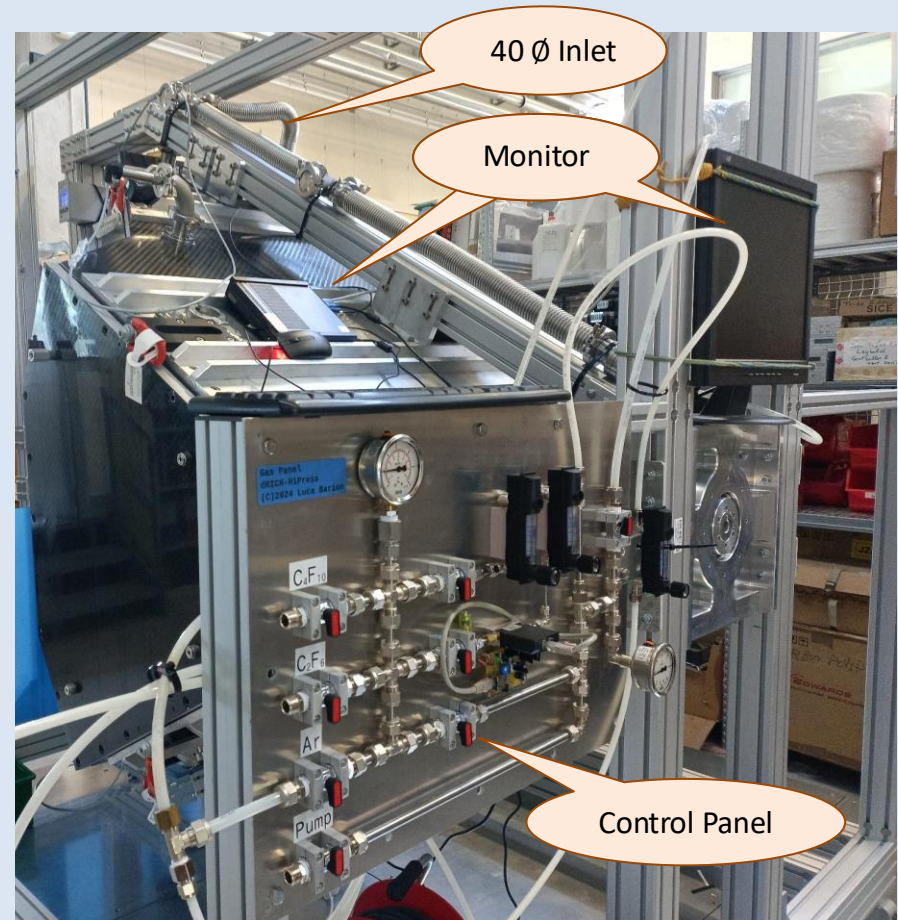
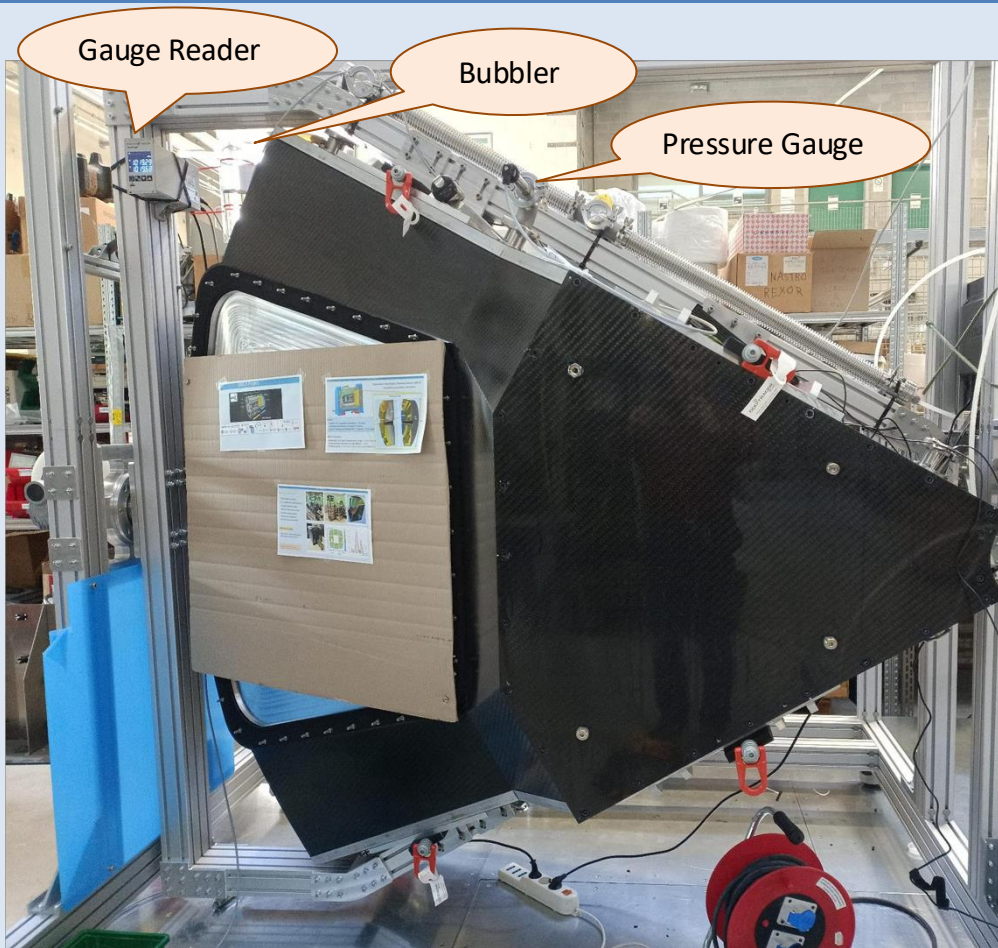


Prototype Status

Test of mechanical fits



Gas Control



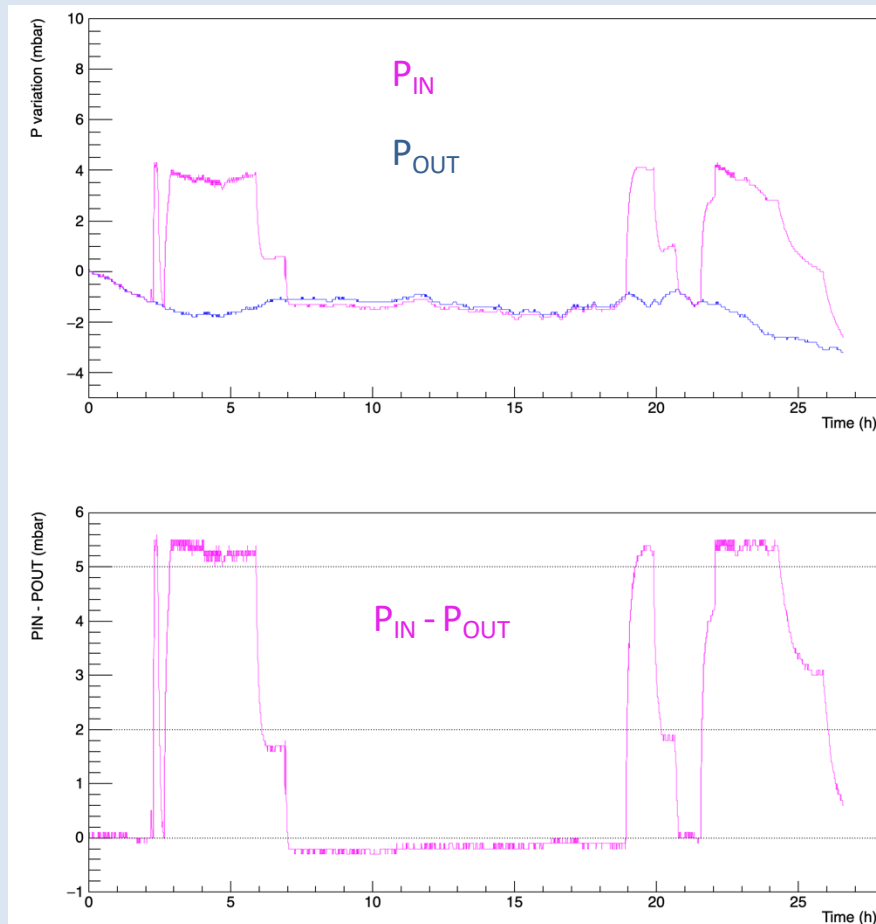
About 2 m² with large surfaces

Fragile quartz window

Reliable control system

- Inner vs outer pressure gauges
- Bubbler (+5 mbar)
- Flowmeters

Curing leaks:
inlet flow reduced from 2 lt/min
down to 0.1 lt/min at more
than 2 mbar overpressure



Gas System

CO-C10 membranes



Tests ongoing at CERN and in Trieste
Close circuit with CO-C10 filtering membranes

Initial 50-50% CO₂-C₂F₆ mix is purged in matters of minutes at 200 l/h

Gas analyzer



Purging section



Test stand



@ FE: Washing test

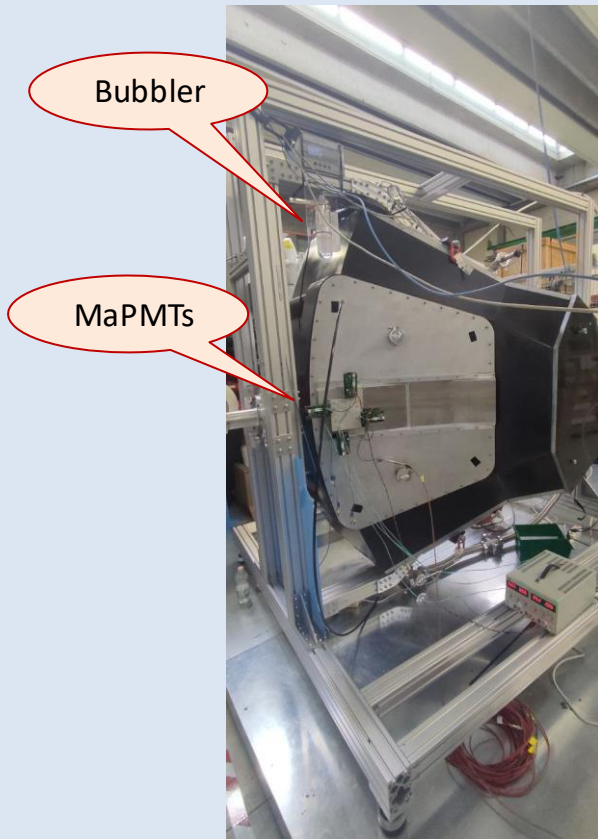
50 ppm of oxygen in few hours (with $\sim 20 \text{ m}^3 \text{ N}_2$)

Fast recirculation test
stable pressure control

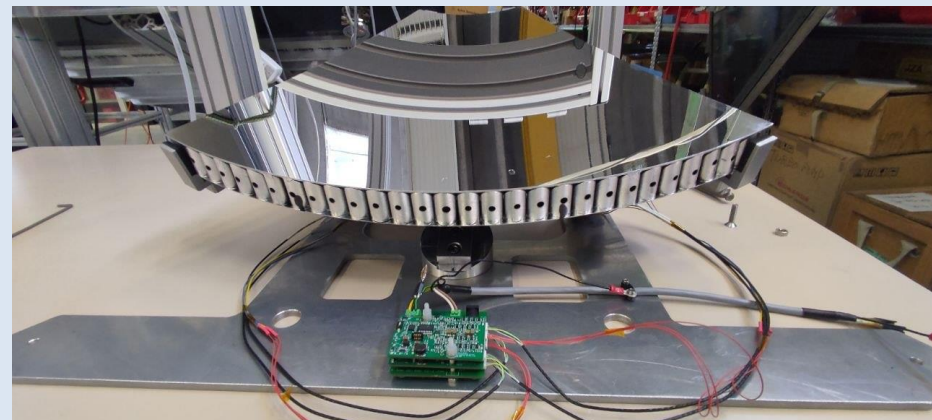
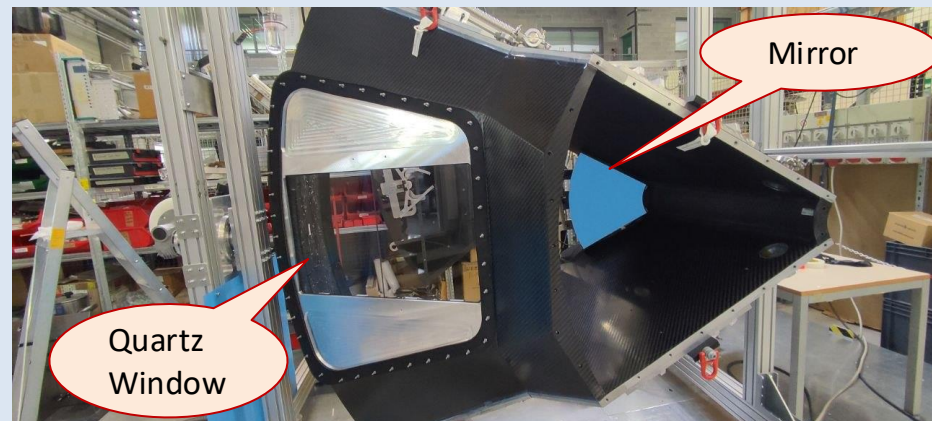
@ CERN: Purging circuit assembling (ongoing)



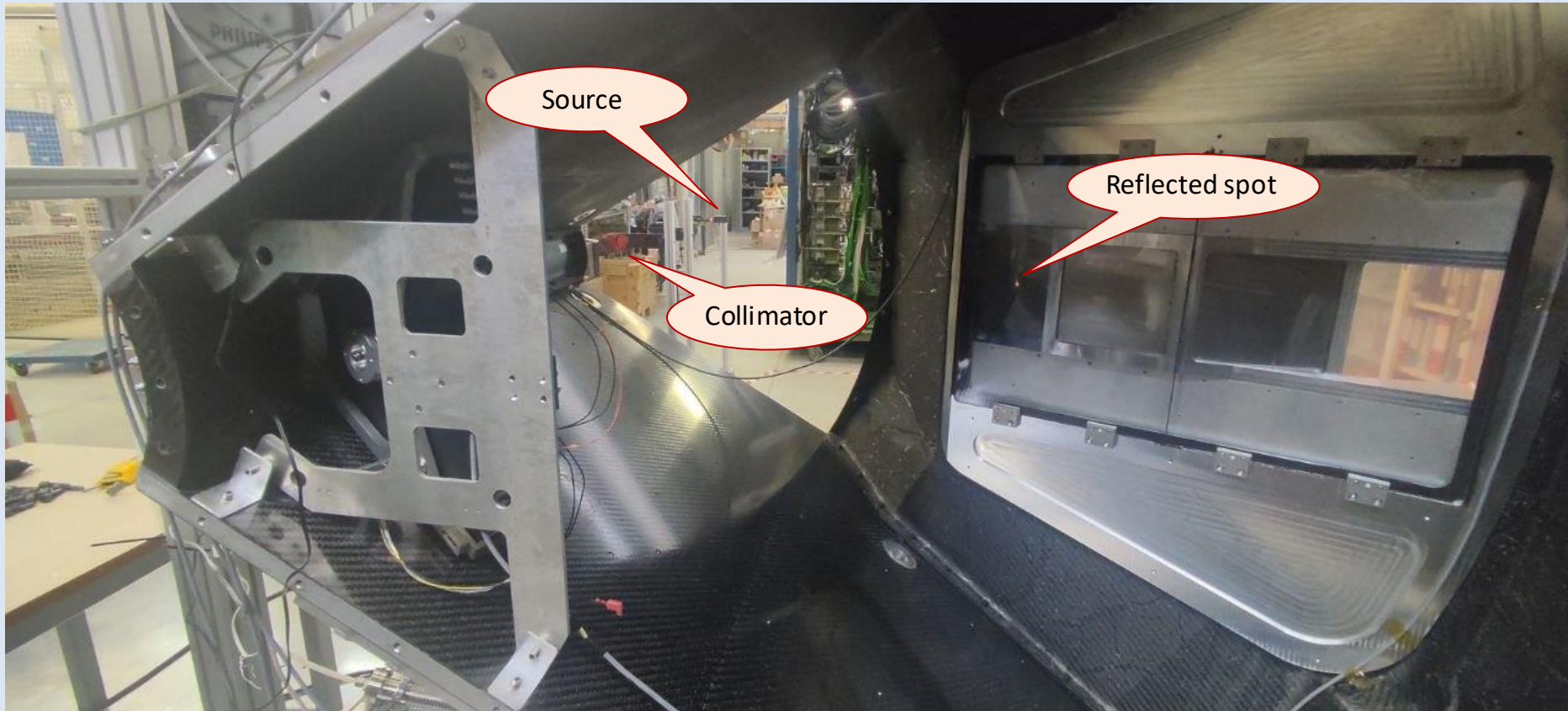
Dark test (with MaPMTs)



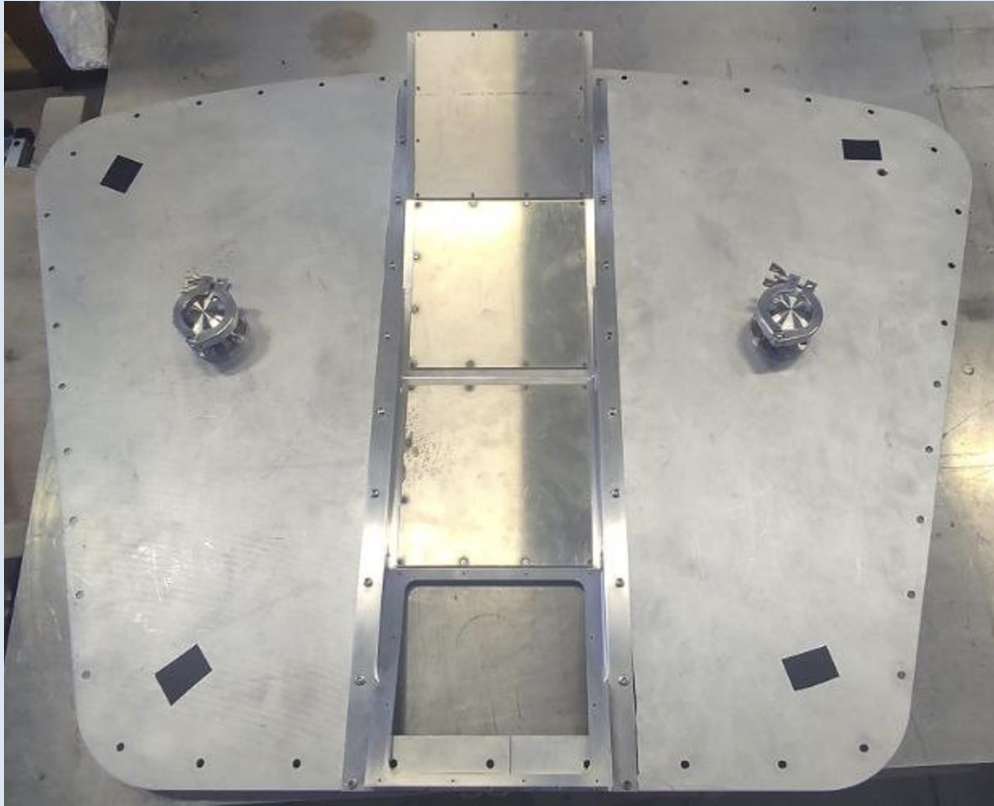
Mirror holder assembling



Mirror alignment test



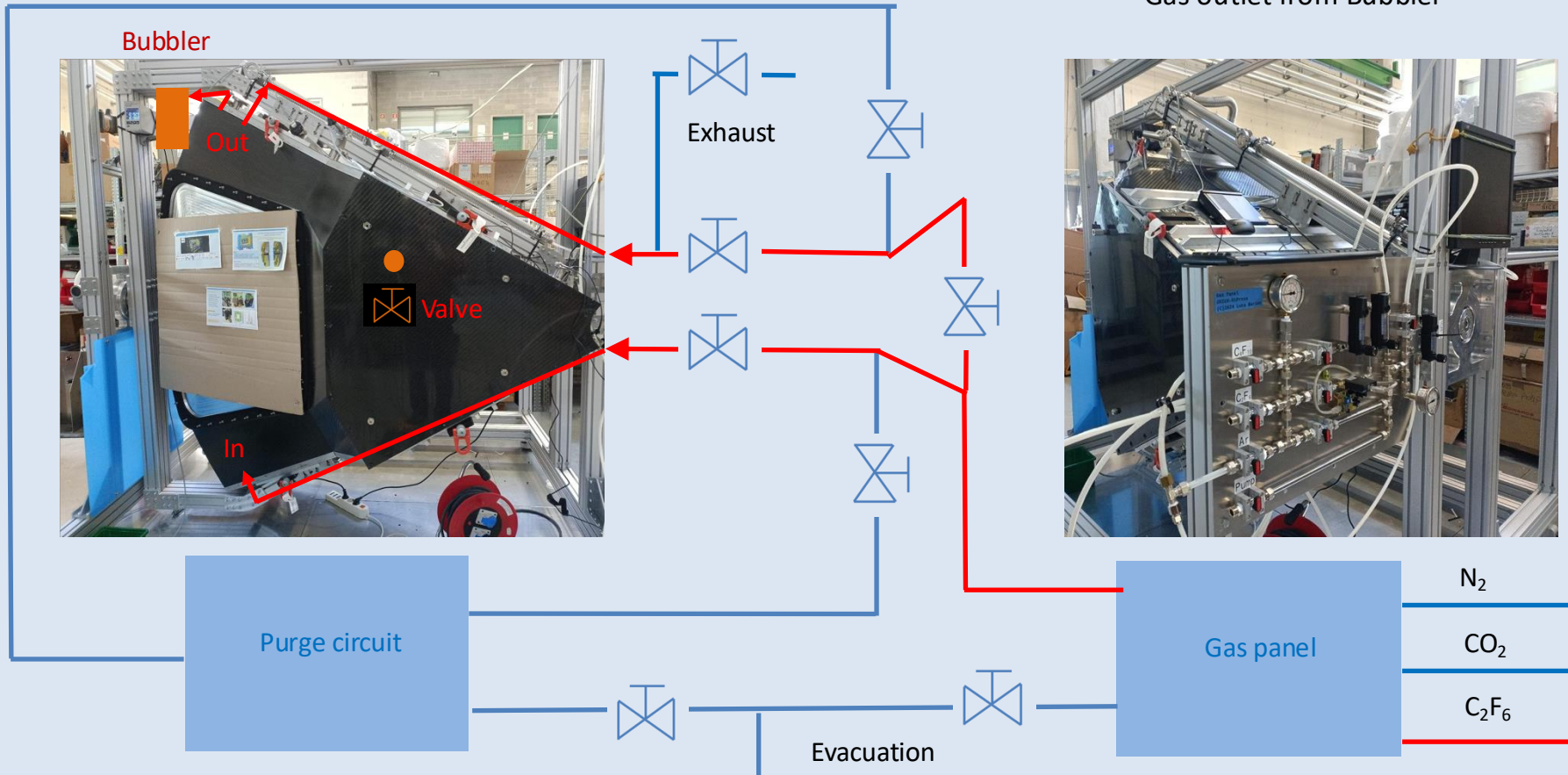
Front panels ready



Prototype (almost) ready for shipment

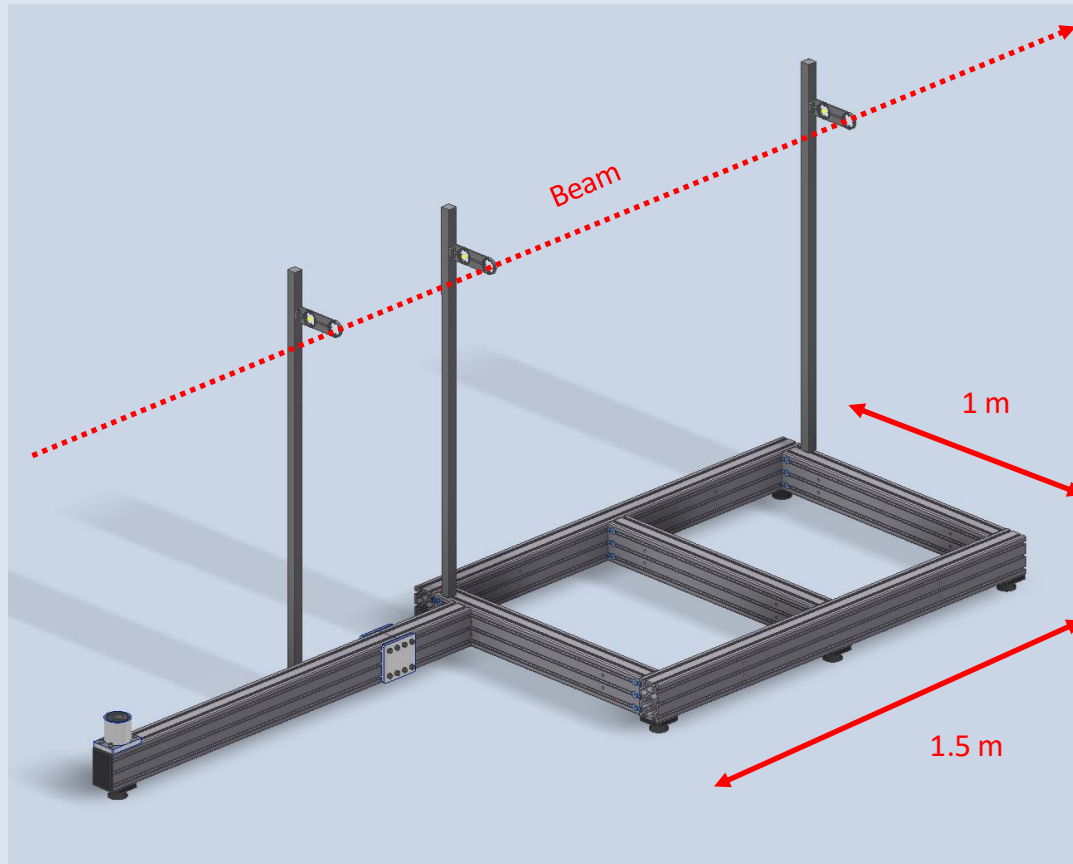


Gas outlet from Bubbler



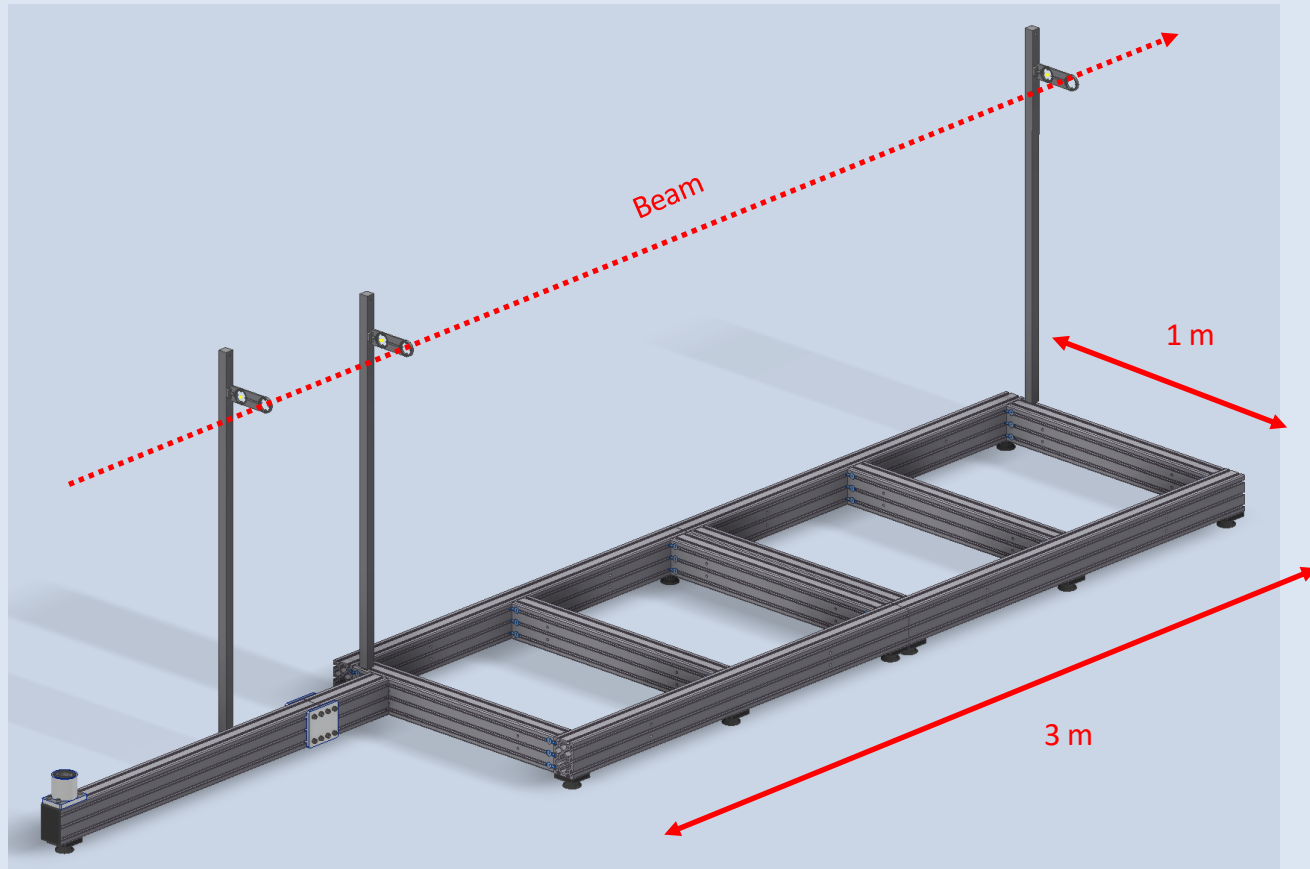
Installation Step 1

Align the first platform element along the beam



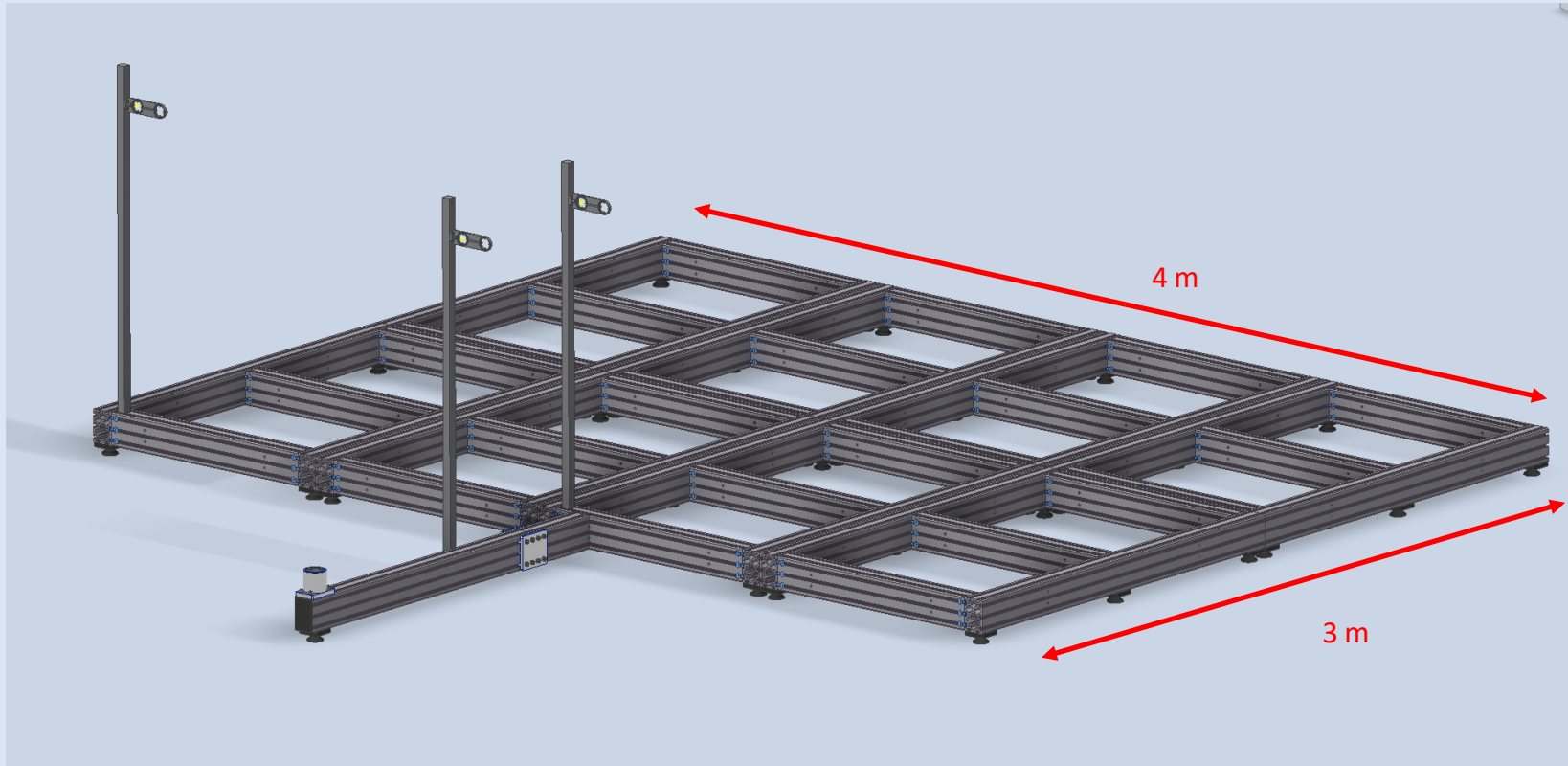
Installation Step 2

Align the second platform element along the beam



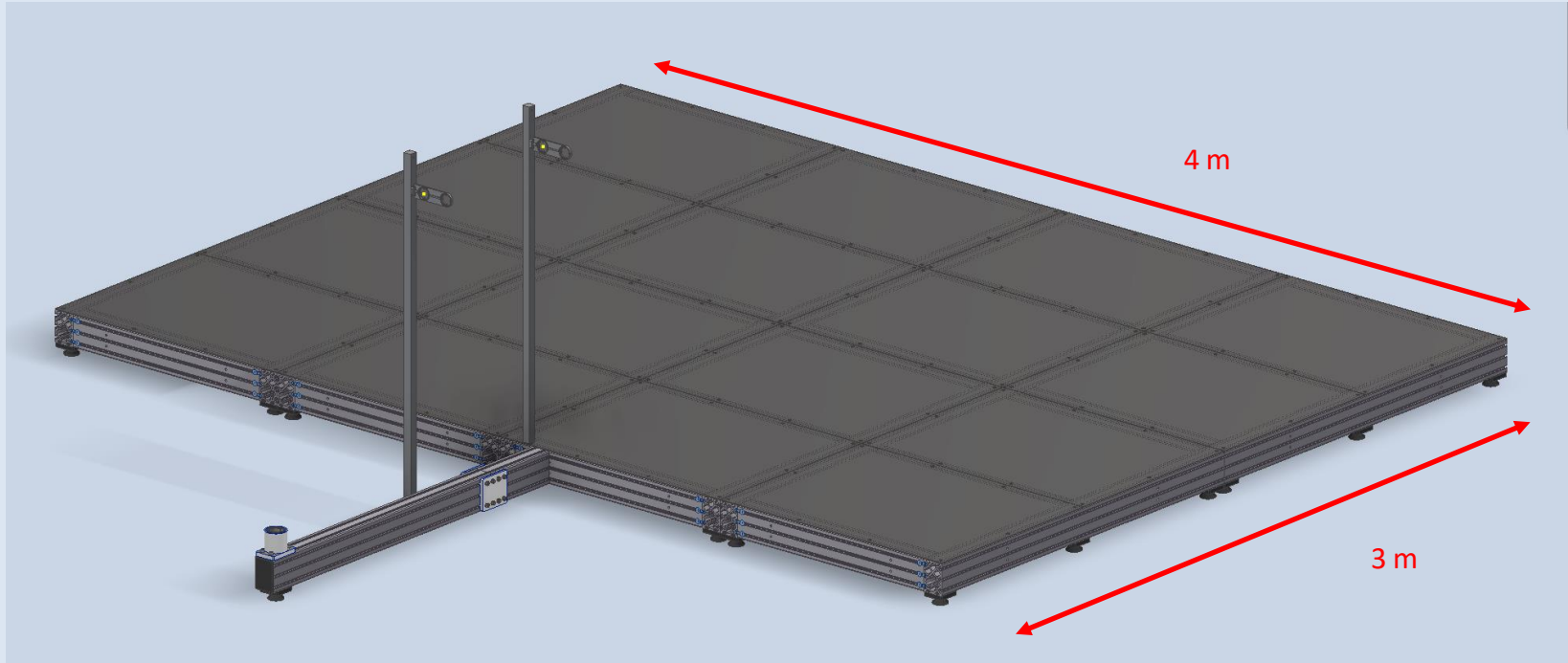
Installation Step 3

Complete and level the platform



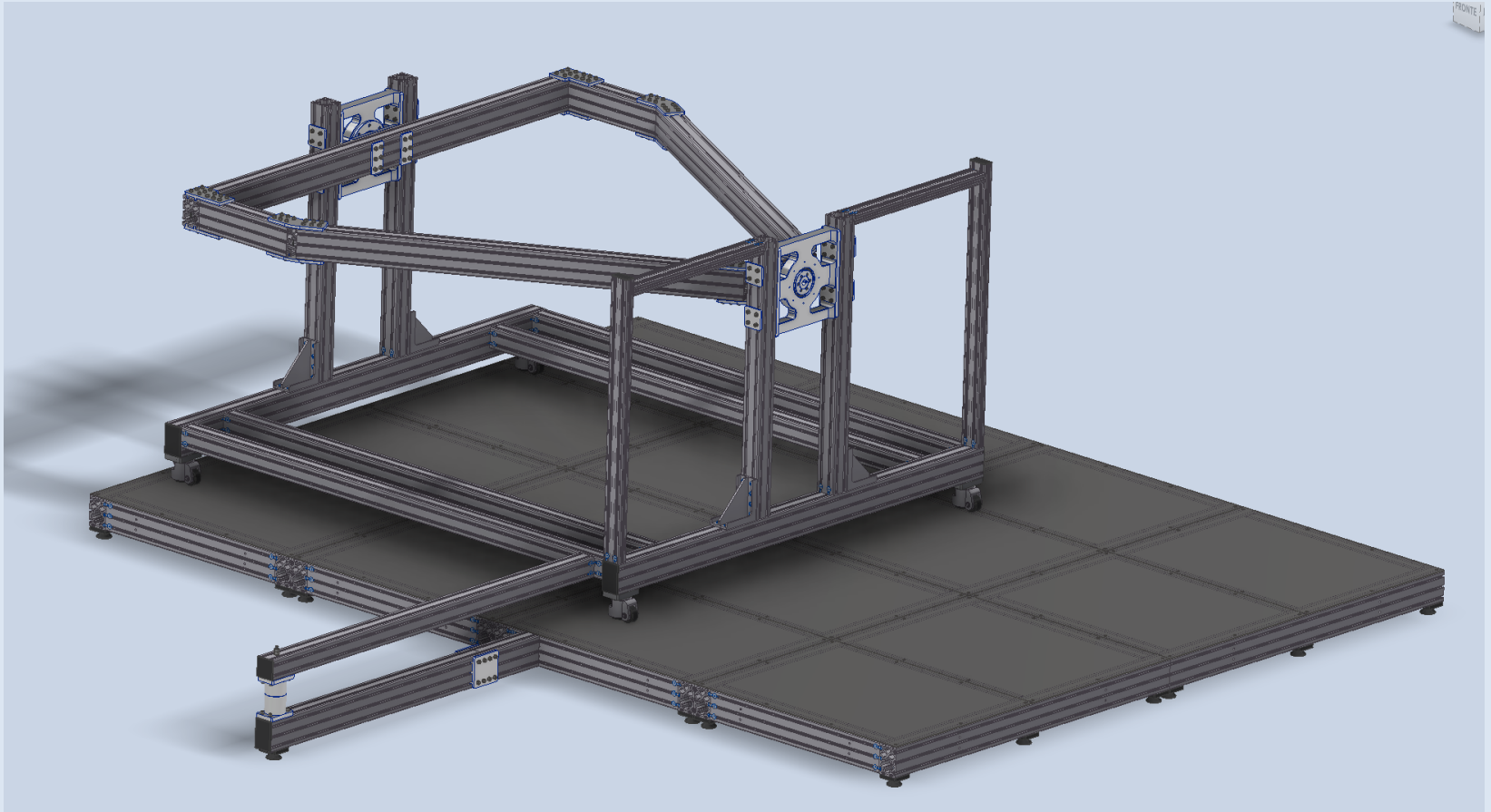
Installation Step 4

Complete the platform floor



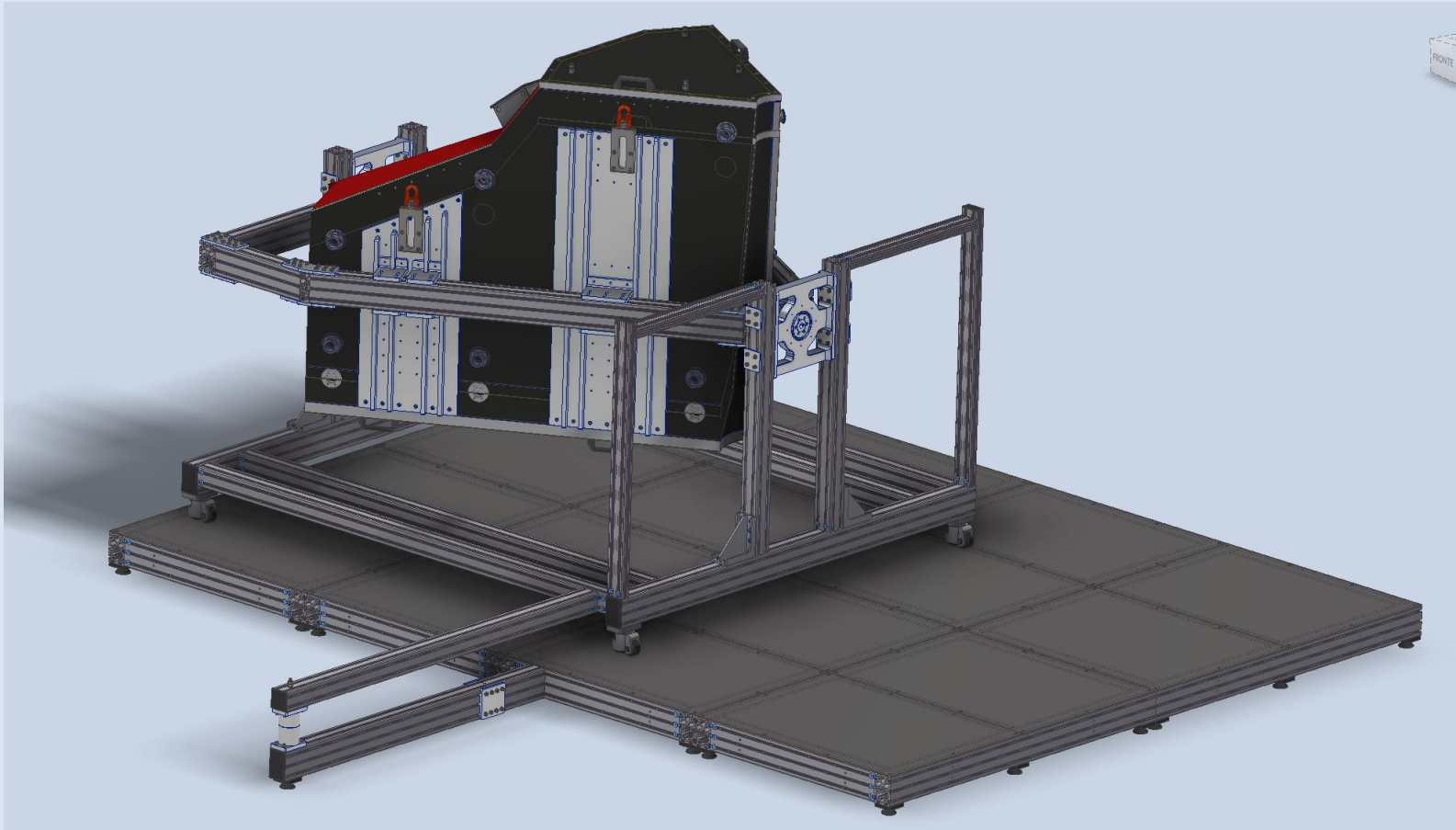
Installation Step 5

Crane in and joint the support cart



Installation Step 6

Crane in and joint the prototipe



Installation Step 7

Rotate the prototype and add the bridge for services

