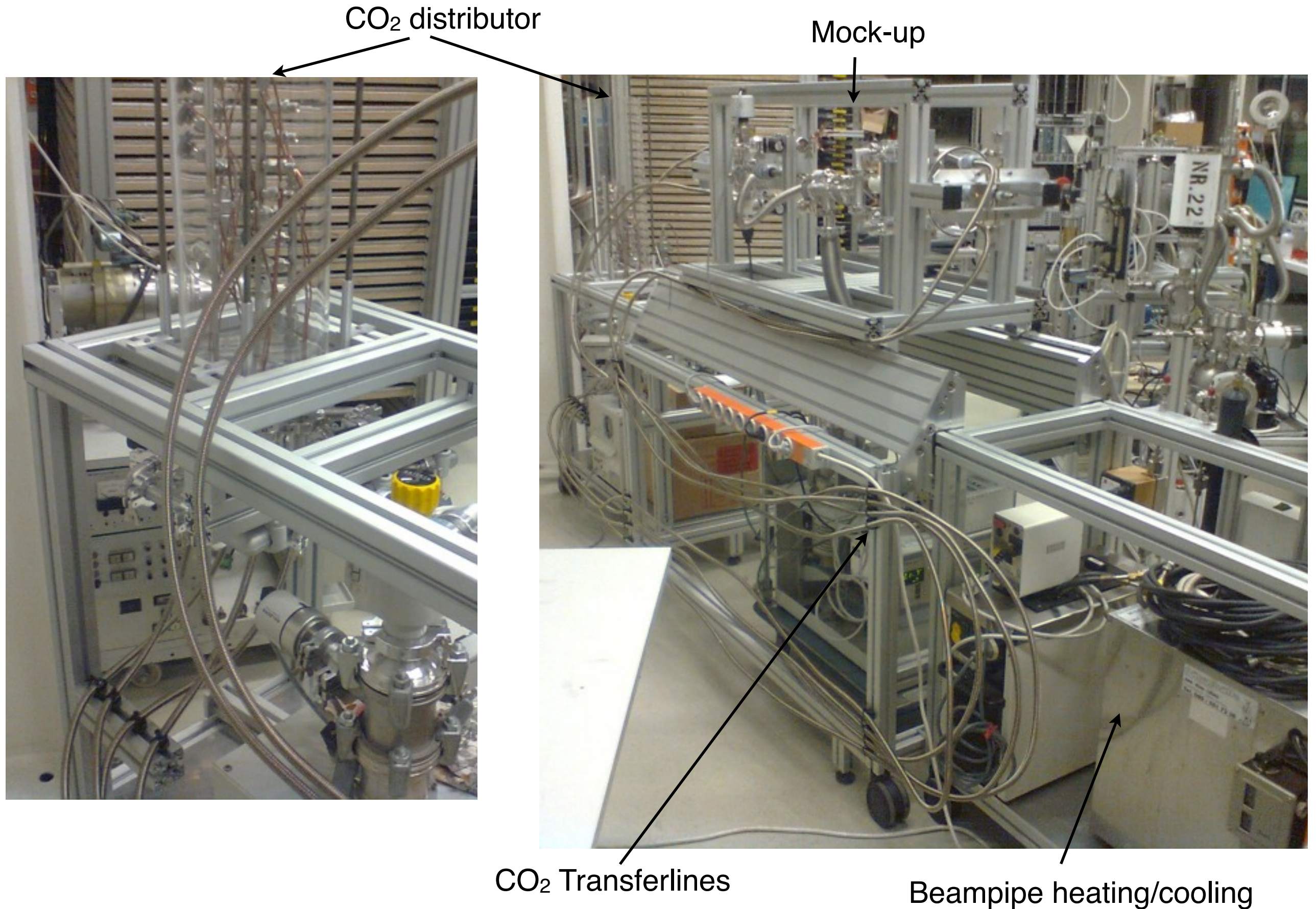
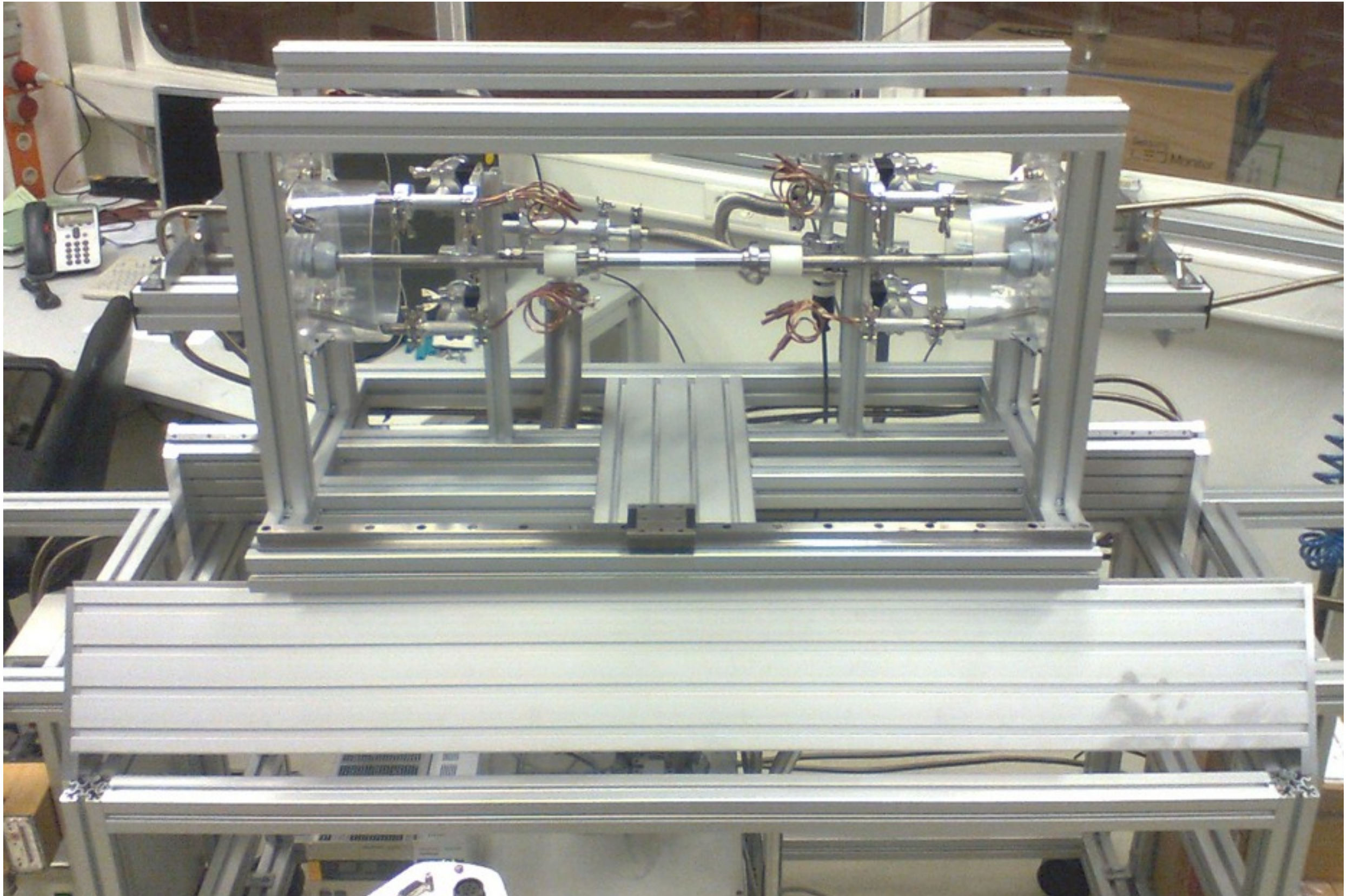


Mechanics & Cooling

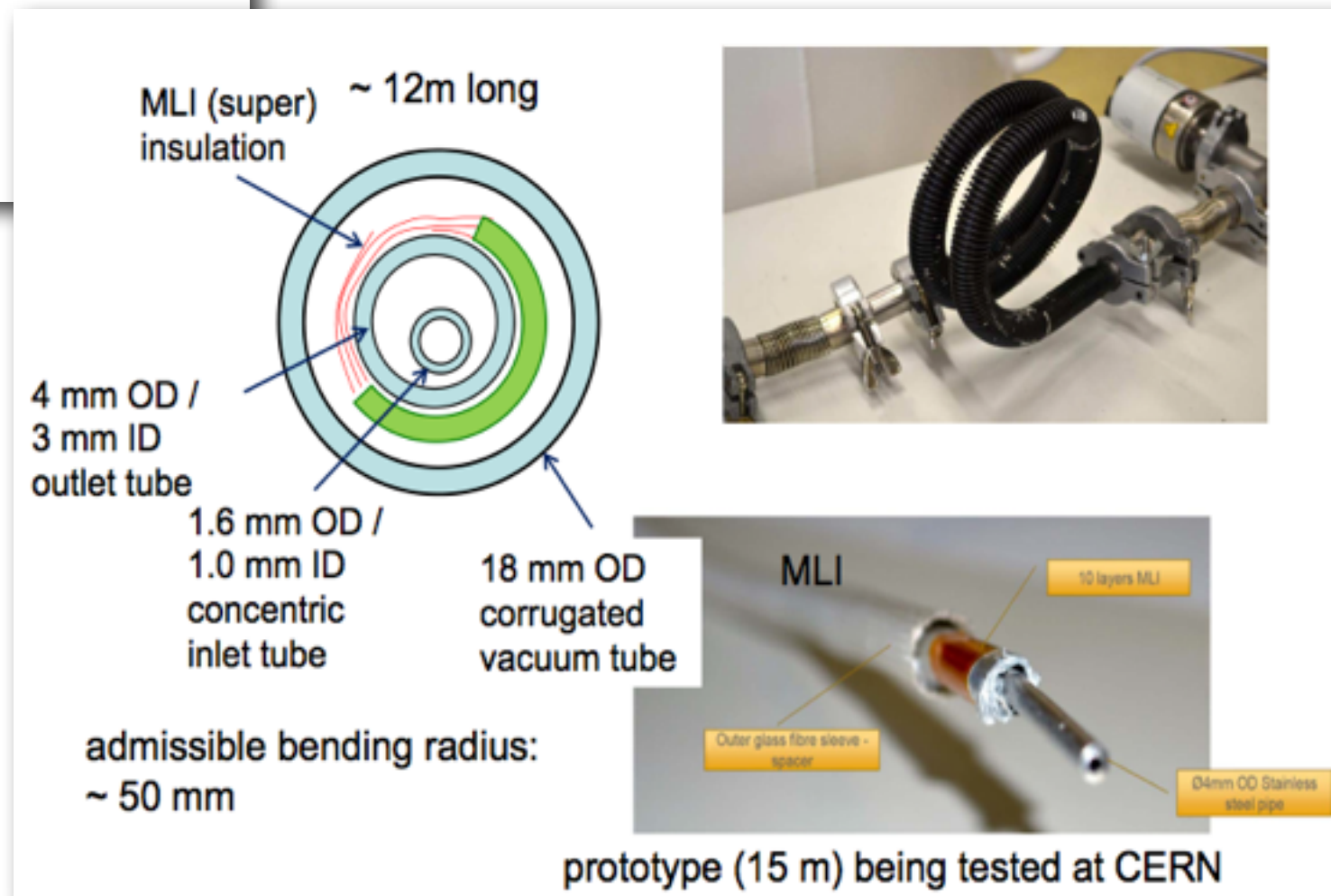
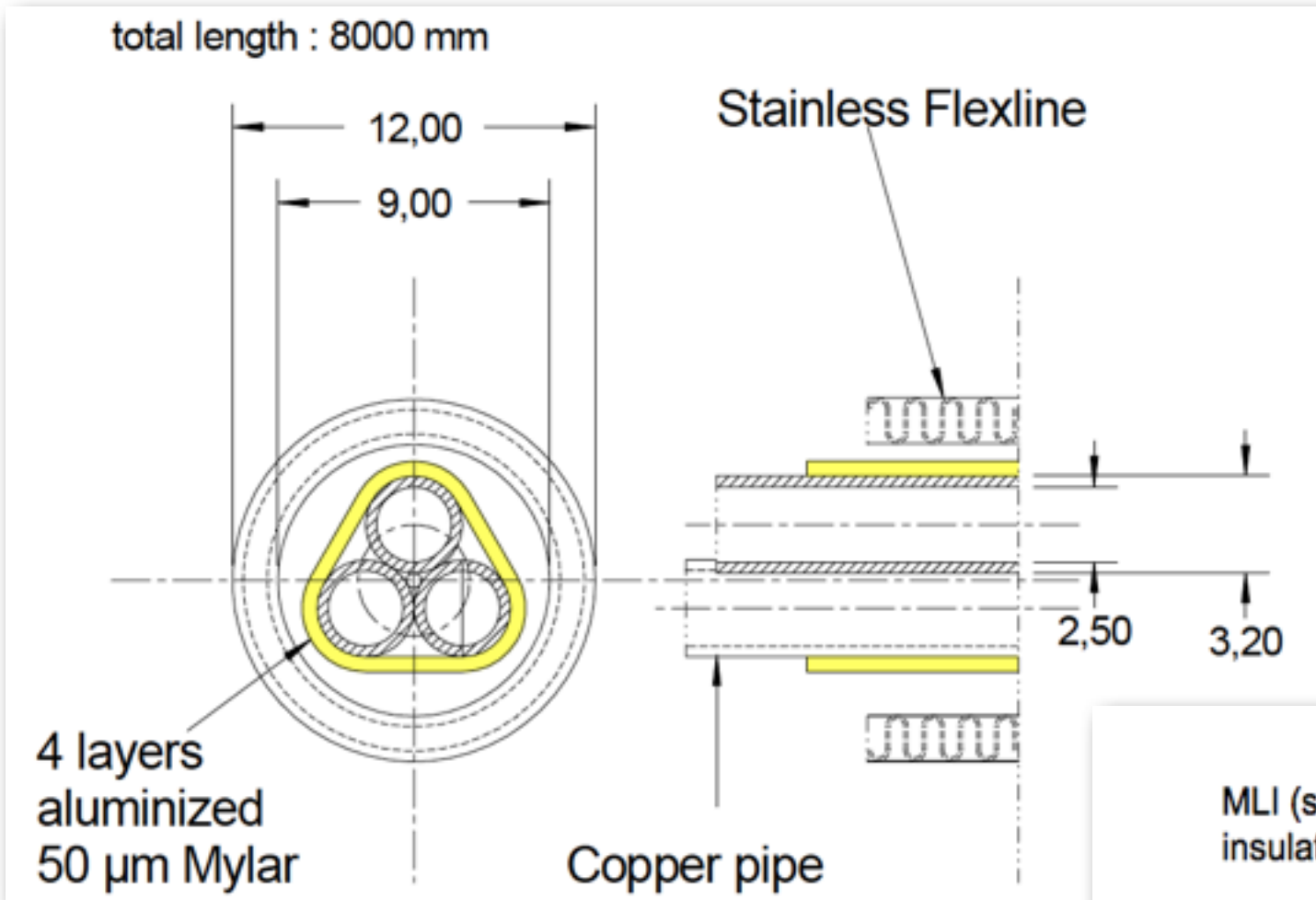
Thermal Mock-up in Hall West



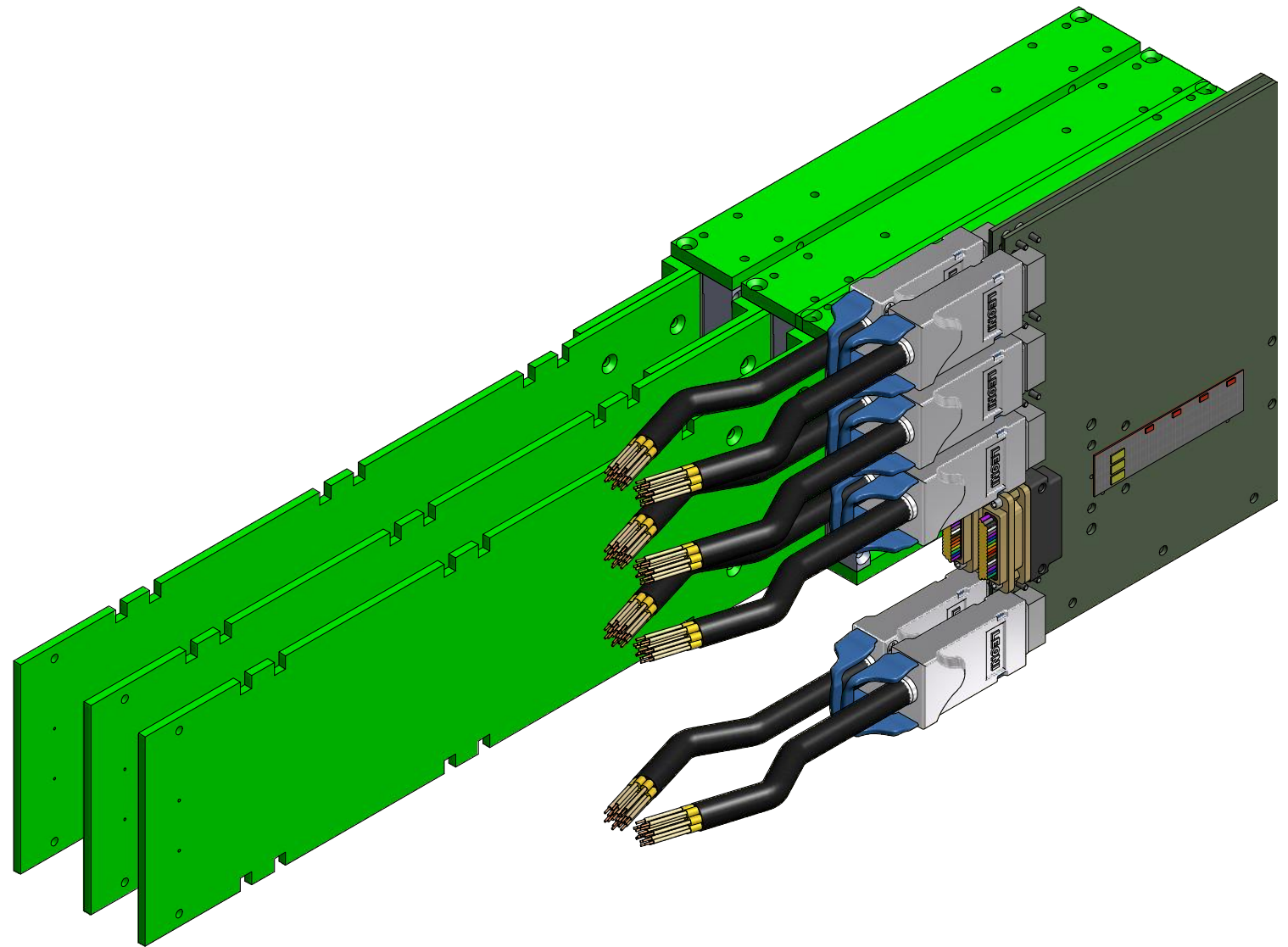
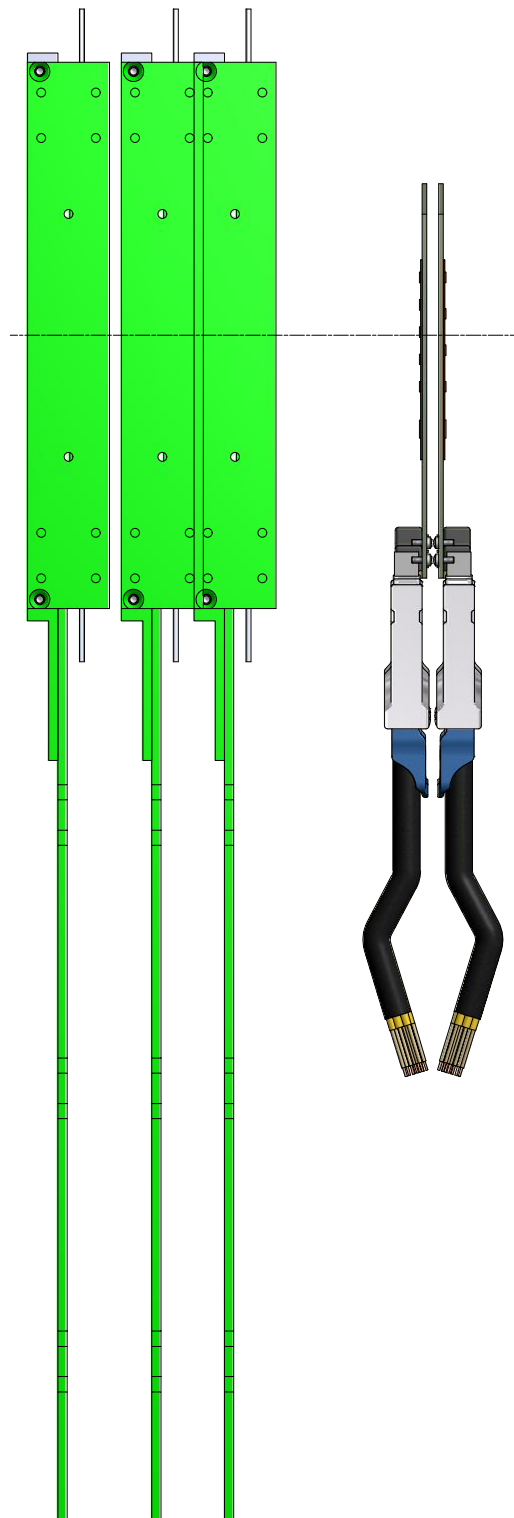
Thermal Mock-up in Hall West



Options for CO₂ Transferlines

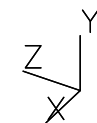
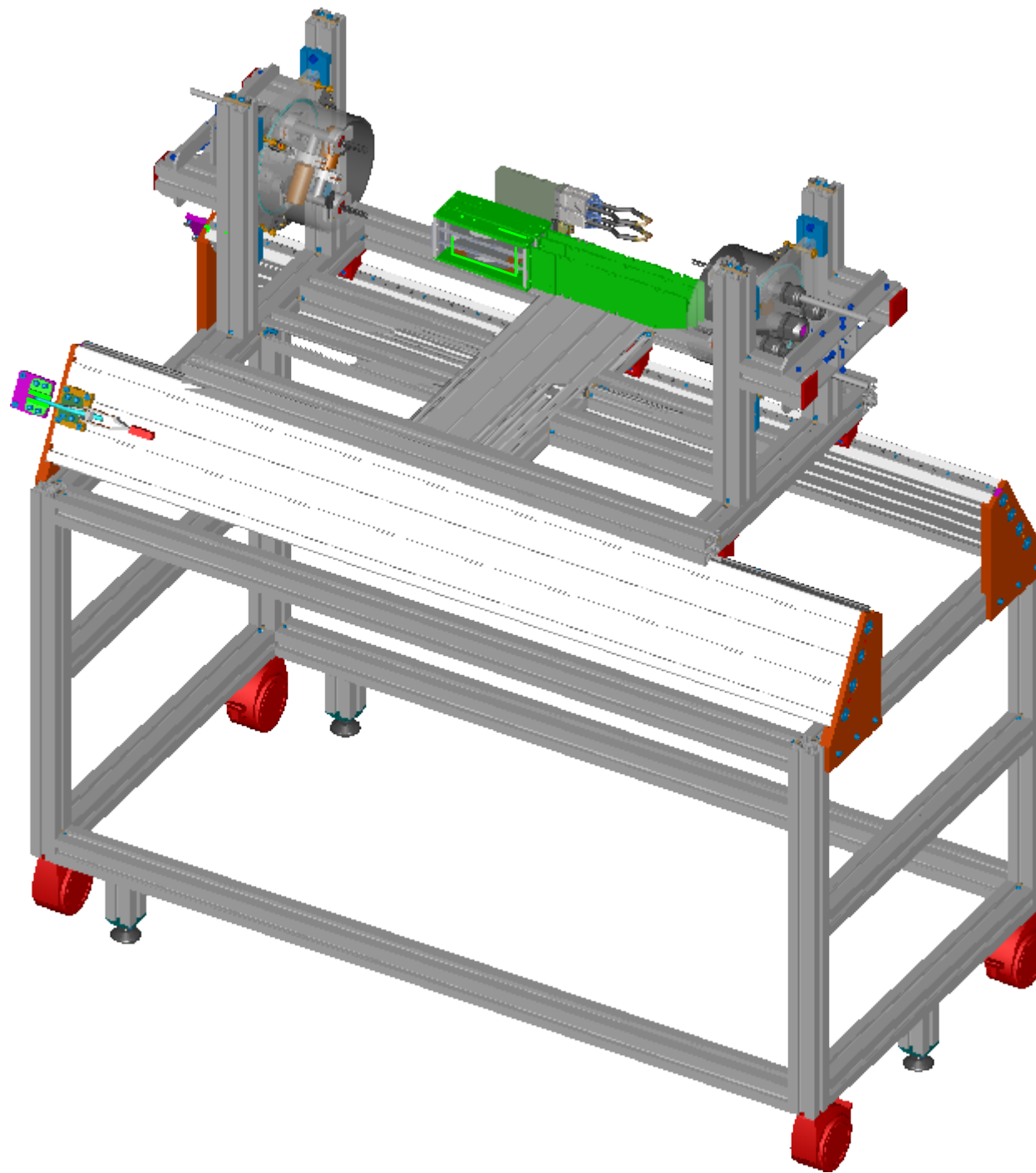


Telescope Arrangement

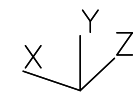
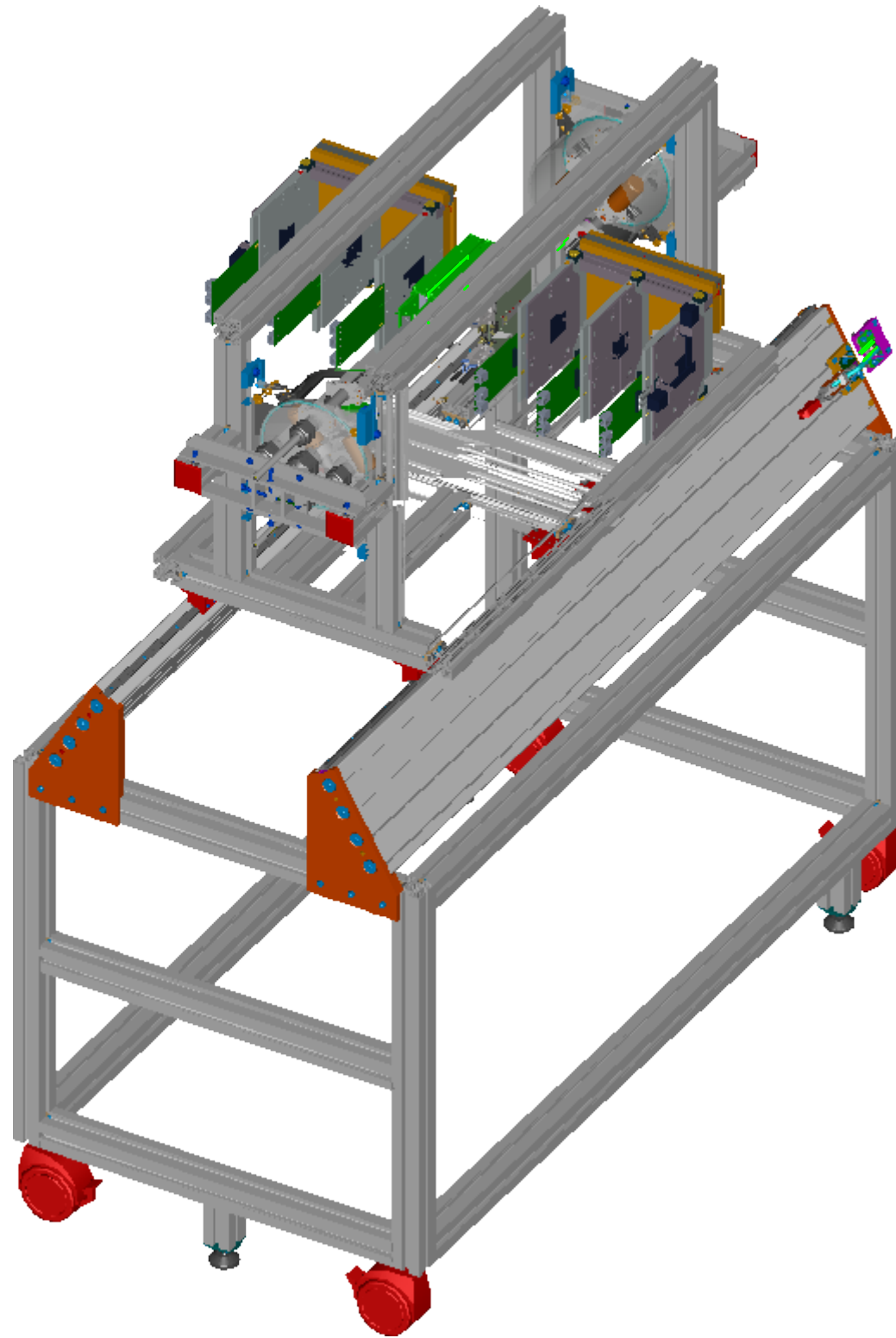


REVISIONSVERLAUF			
Nr.:	Beschreibung	Datum	Name
a	additional RJ45 cable	26.02.2013	Ackermann
b	additional real SVD origami module (without Layer 3 / not ready)	08.03.2013	Ackermann
c	RJ45 replaced by 3. infiniband connector	18.03.2013	Ackermann
d	additional 4. infiniband connector	03.04.2013	Ackermann

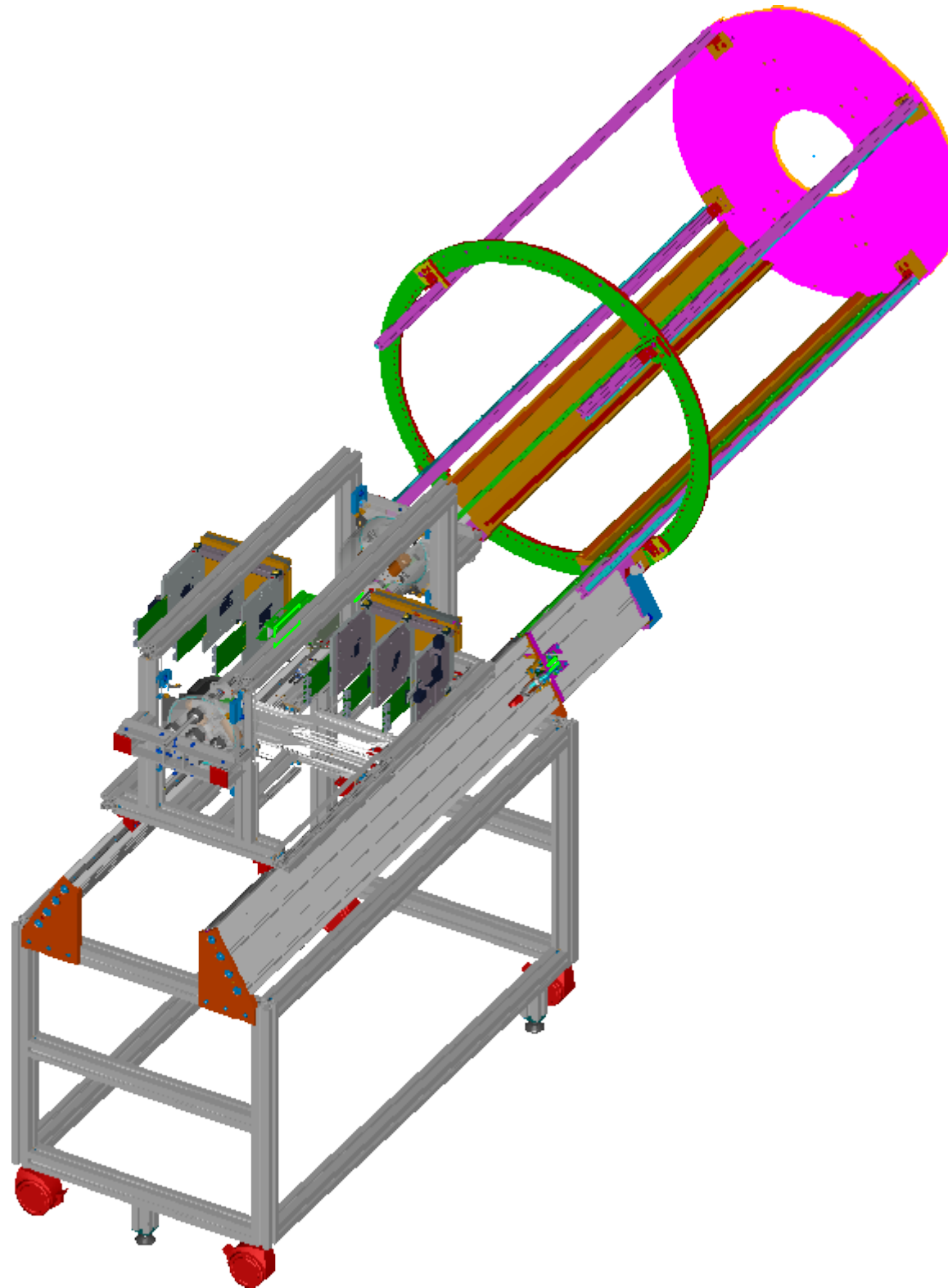
Mechanical Integration into PCMAG



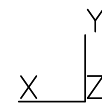
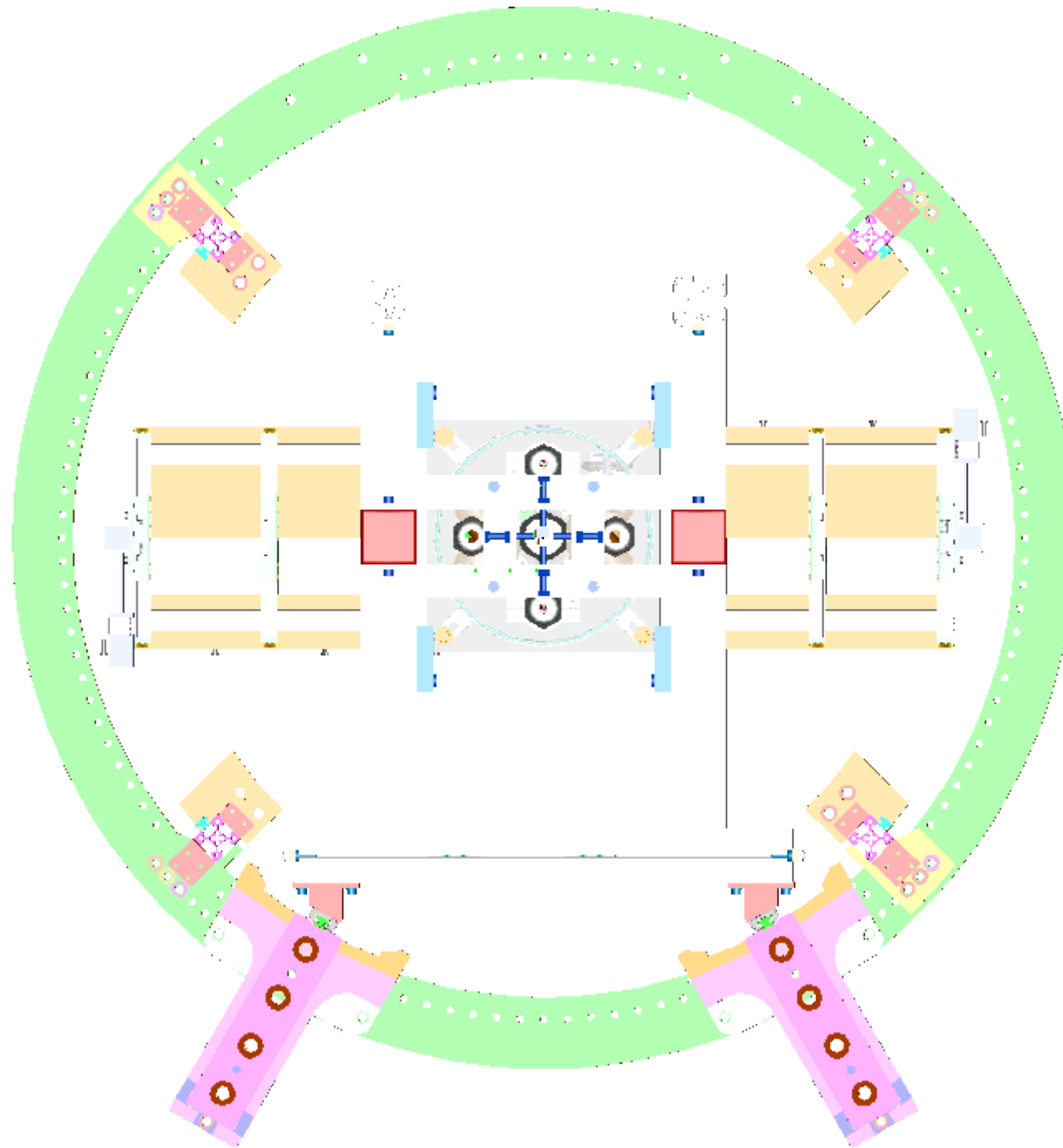
Mechanical Integration into PCMAG



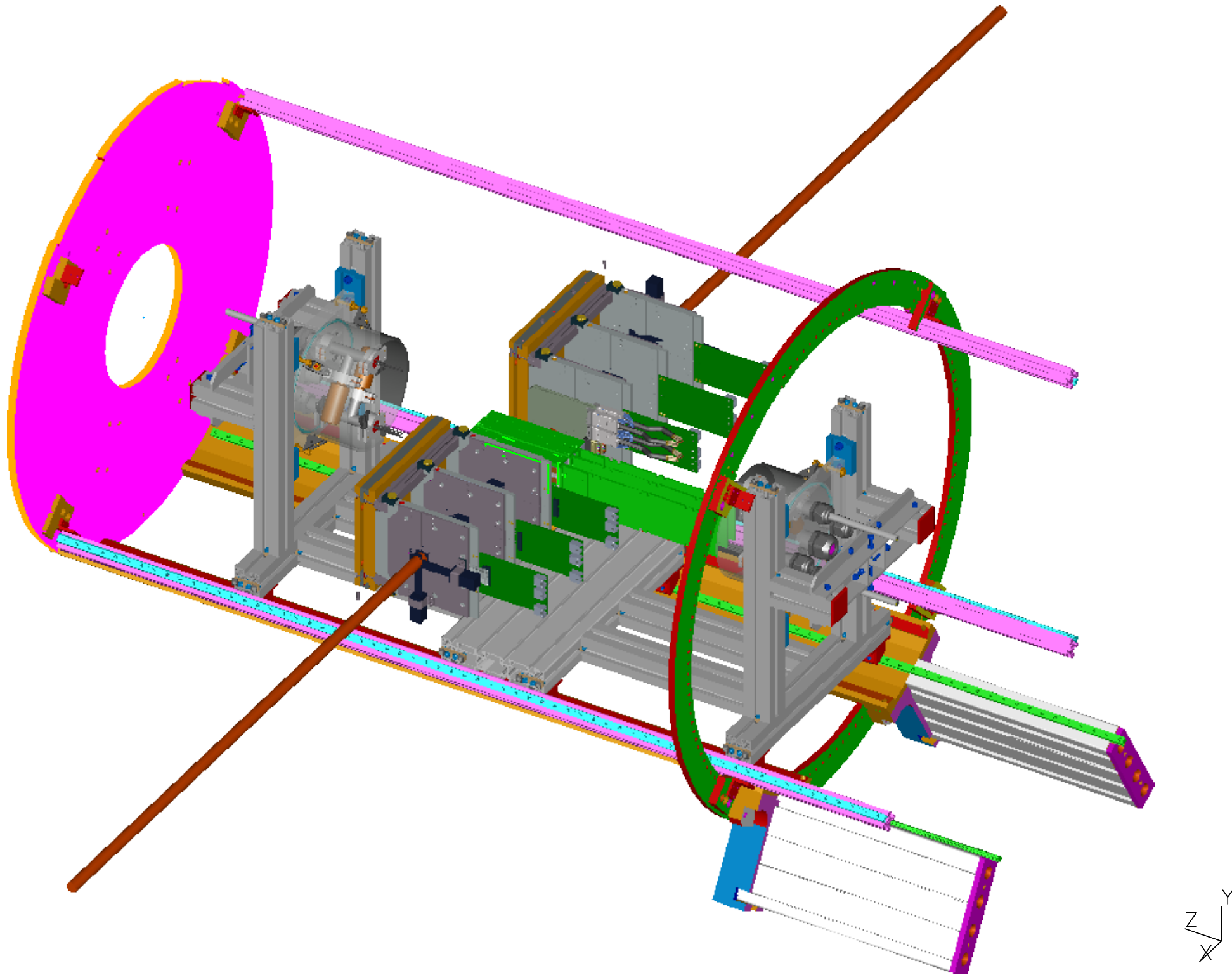
Mechanical Integration into PCMAG



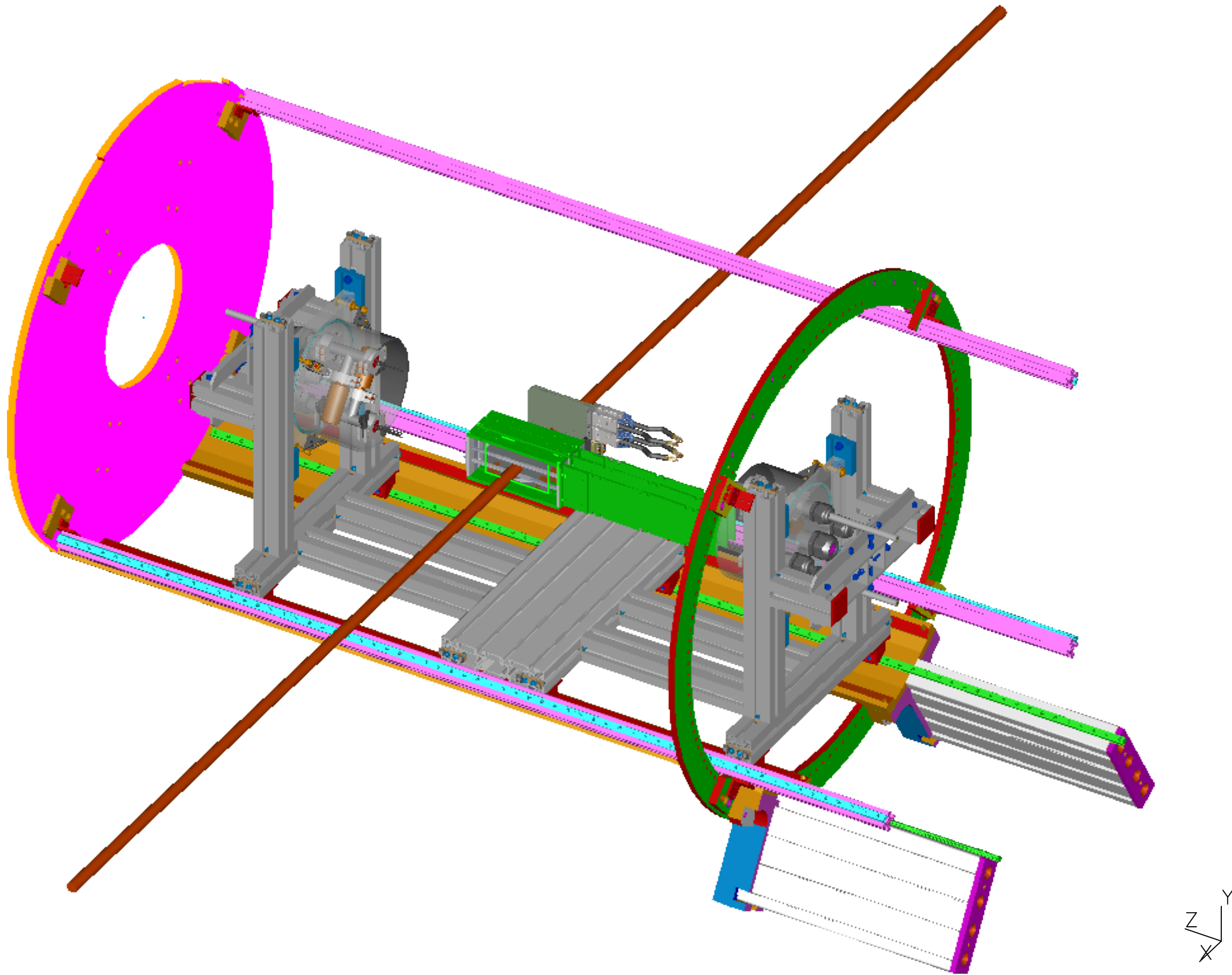
Mechanical Integration into PCMAG



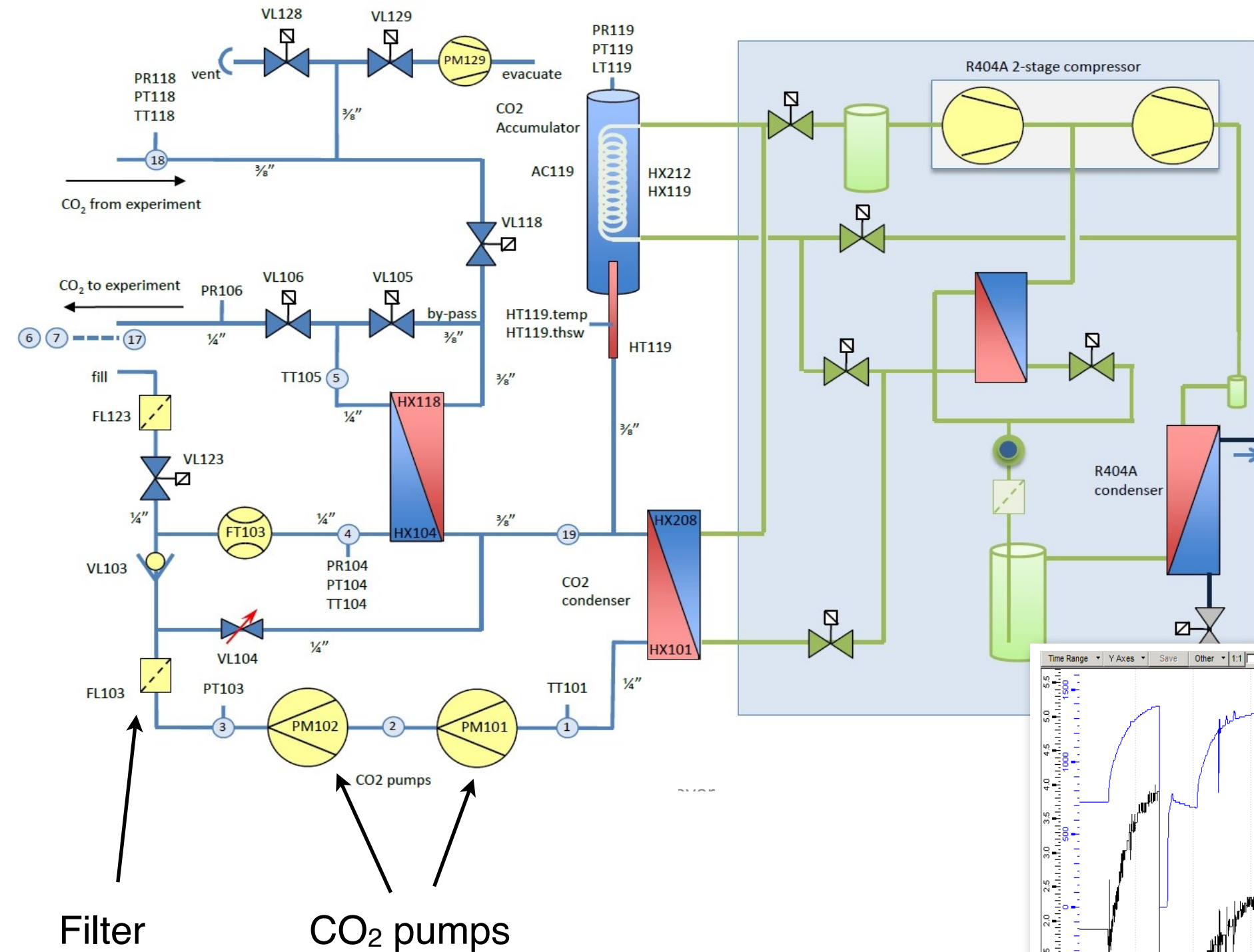
Mechanical Integration into PCMAG



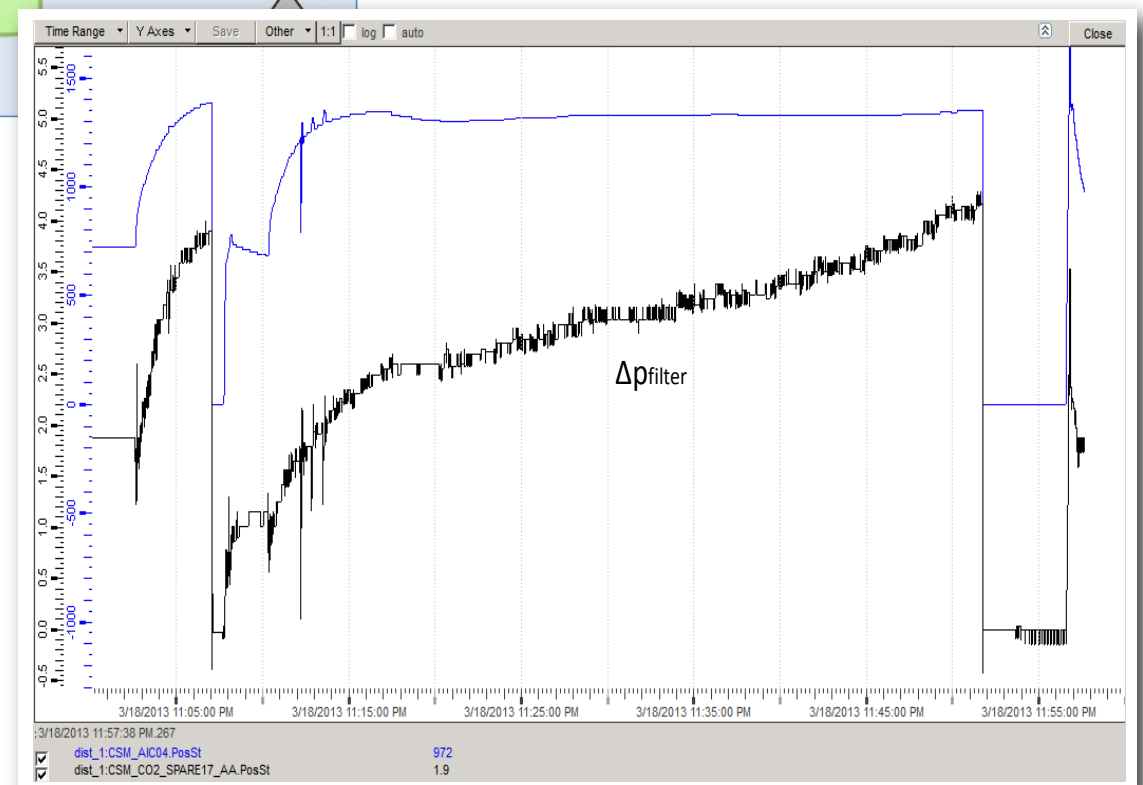
Mechanical Integration into PCMAG



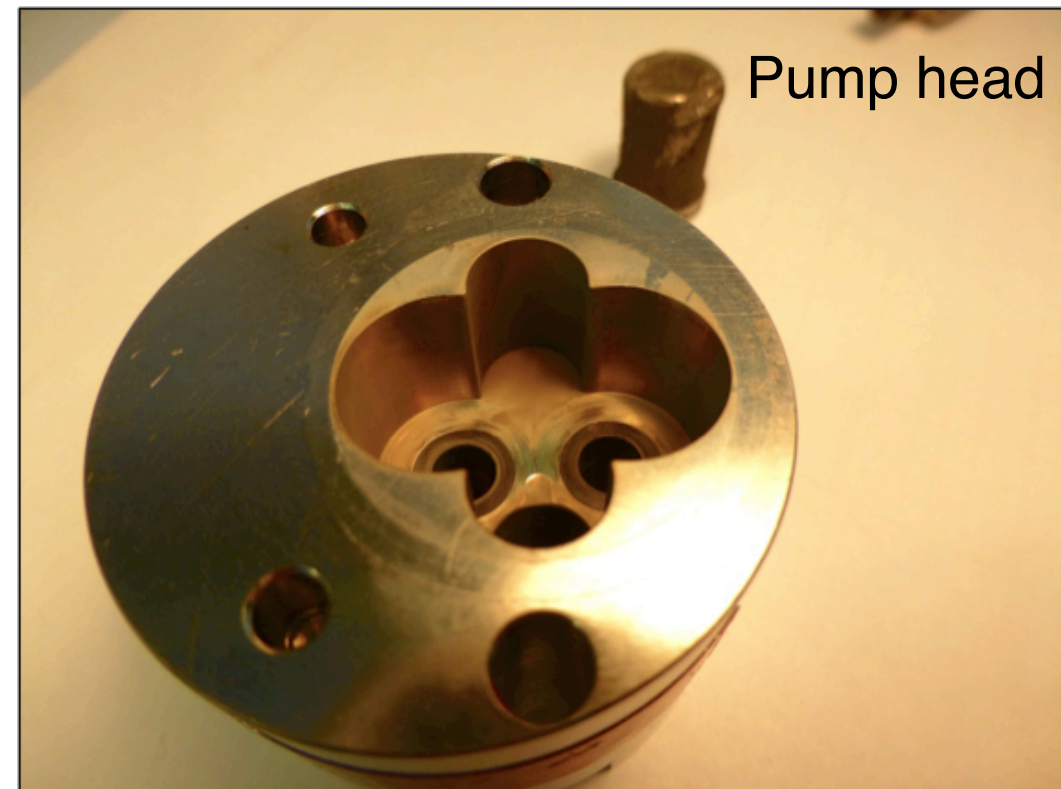
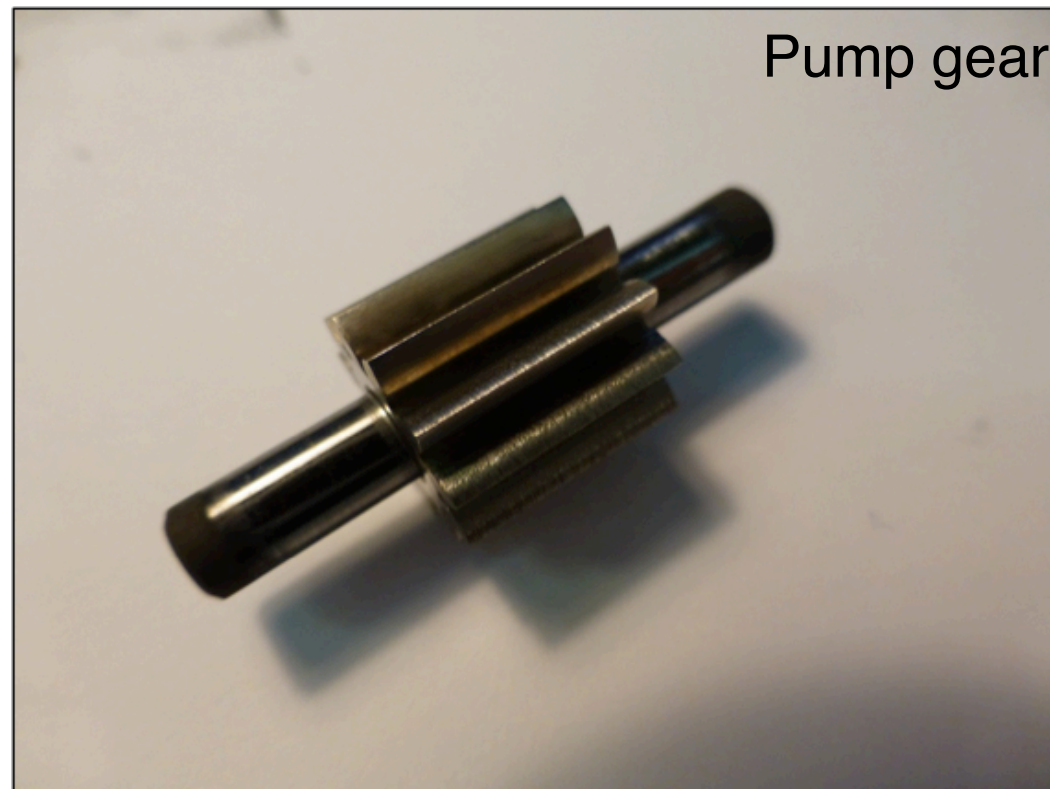
Status of MARCO



Pressure drop across filter



MARCO Pump Failure



Summary by Jerome Daguin

- The gears are made from a Nickel alloy with the following composition:
 - Ni 71%, C 0,05%, Si 0,5%, Cr 13,5%, Mo 2,75%, Sn 4%, Mn 1,5%, Fe 2% and Bi 4%
- The chemical analysis of the powder showed a significant fraction of
 - Si, O and C content but also a large fraction of Ni and lower fractions of Cr, Mo, Sn
 - Origin of SiO₂ unclear at present
- MARCO should not be operated with the present pumps in that state
- Two new pump heads (same materials for gears and bearings) should be ordered as soon as possible.
 - The manufacturer has already been contacted, the offer has been received and the order should be out in the coming days. The delivery time is around 3 weeks.
- In the meantime waiting for the pump delivery:
 - The one-way valve should be replaced (by a manual valve?)
 - MARCO's piping should be cleaned (all the piping is polluted by the black dust...)
- The delivery of MARCO to DESY should be postponed until the pumps have been replaced (around mid/end of May).
- Two weeks testing are necessary for full performance test of MARCO before we can deliver it to DESY after the pump replacement.
- Meeting at CERN scheduled for April 18 (Vidyo)

Discussion Items

- Mechanics
 - integration of SVD layer 3
 - how to support individual layers?
 - information on cables
- Cooling
 - how many cooling circuits?
 - SVD layers in series?
 - cooling block for PXD6
 - dry volume
 - N₂ or dry air?
- Parallel meeting on mechanics & cooling in Sem 3a