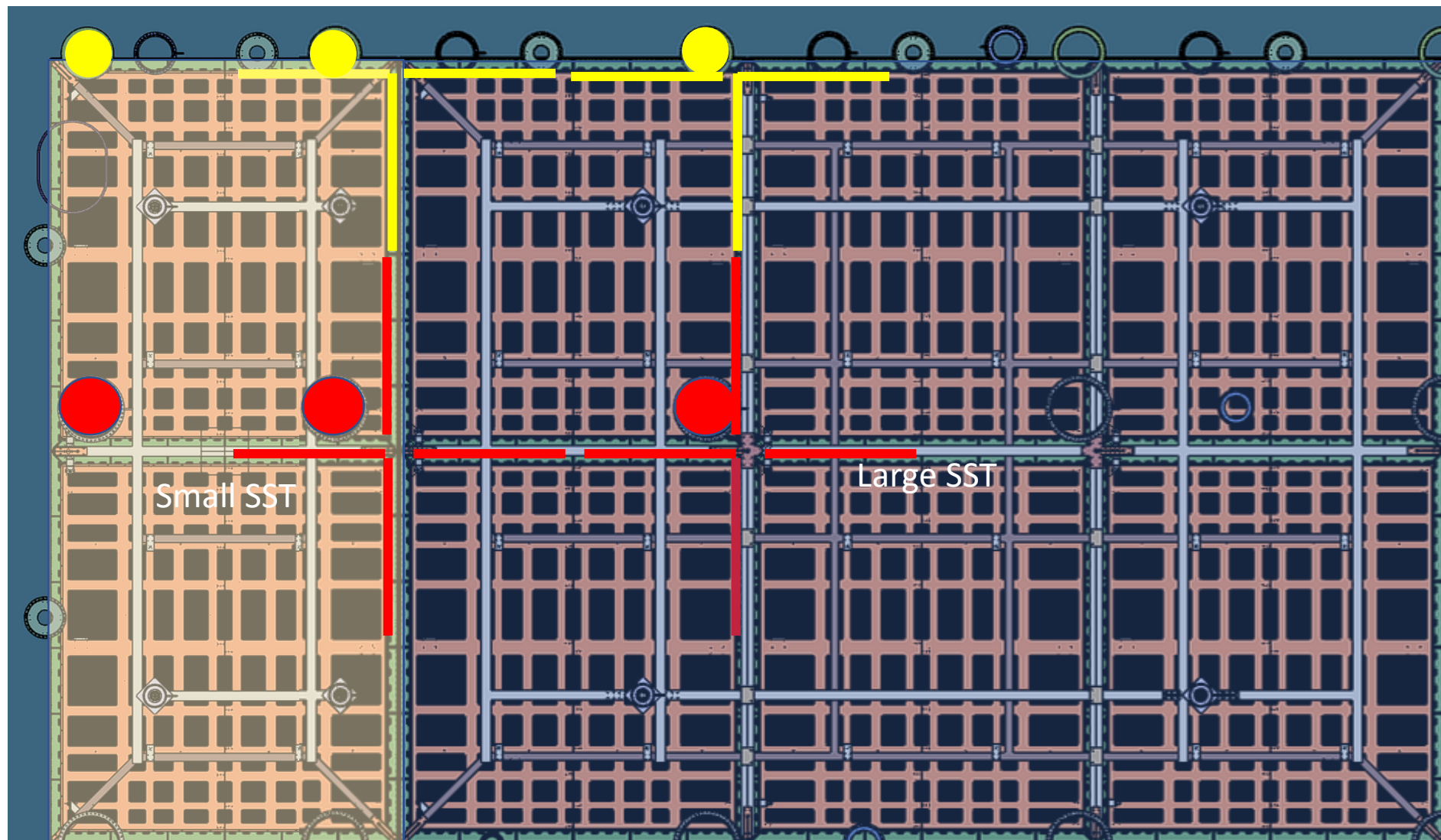
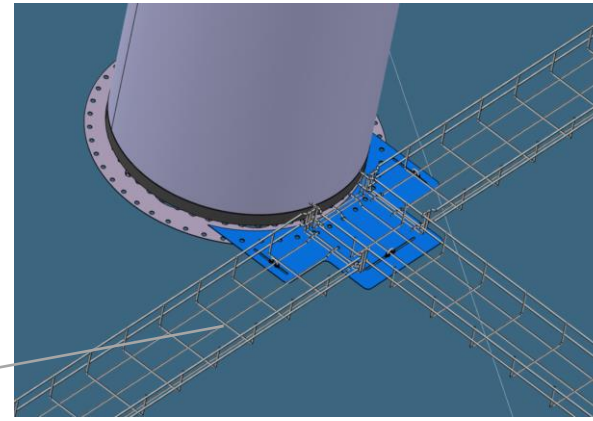
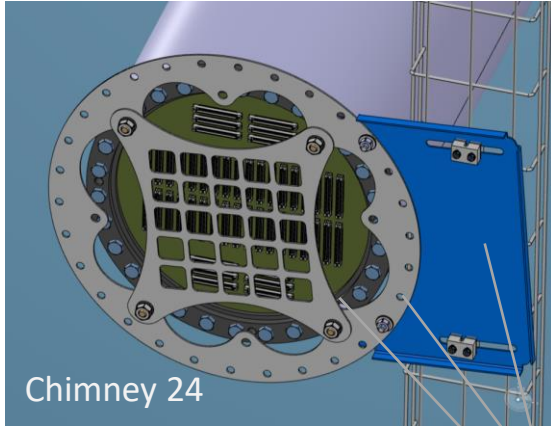


Status of LAPP components and development for the CERN installation test

Topology of the CRP installation test at CERN



Cable trays and components

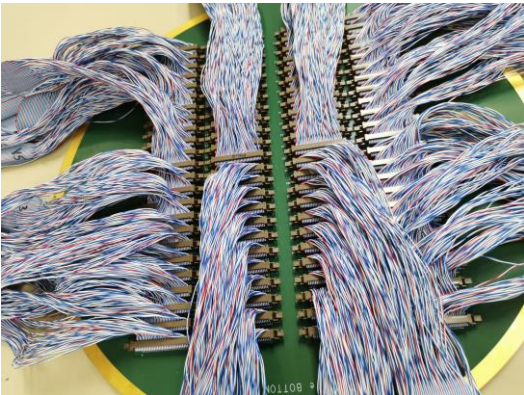


Design being finalised; Parts will be purchased end of January for testing prototype => **all parts end of February**

Cold flanges (metallic ring + PCB): 2 large and 2 smalls from IJClab
Older version but nearly ok for cable connector positioning: already existing

Warning: the interface and the system to attach and position the flanges on the structure penetrations has to be clarified and discussed with CERN

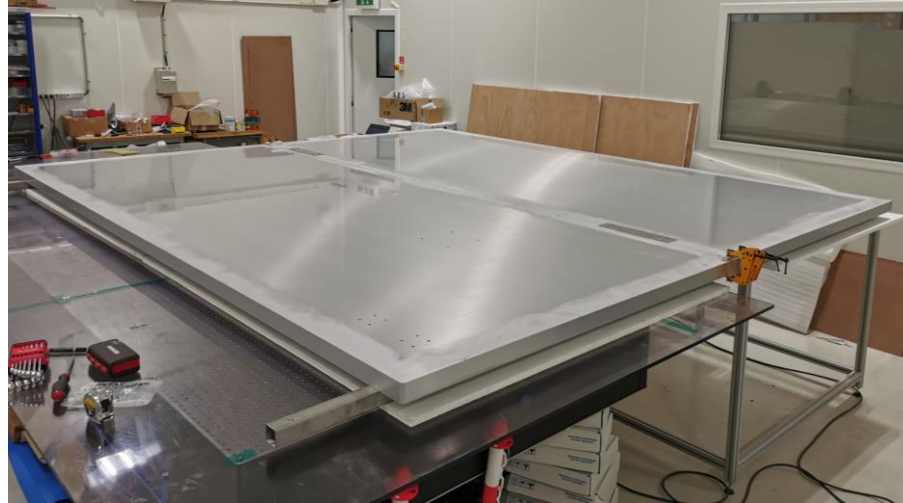
Cables: at least 200 cables to purchase and put KEL connectors on both ends)



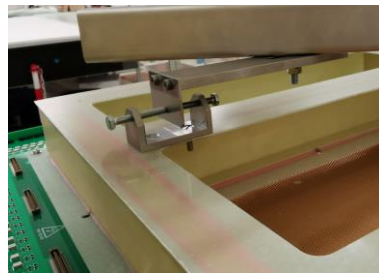
KEL connectors to purchase end of January => Available in March => recondition Icarus cables with these connectors
=> End of April

Fake CRPs

6 Fake CRPs have been produced and received at CERN (1 half has been damaged during transport and will be replaced)
They will be used for adjustments on SST before raising; and at CERN on the Installation mockup



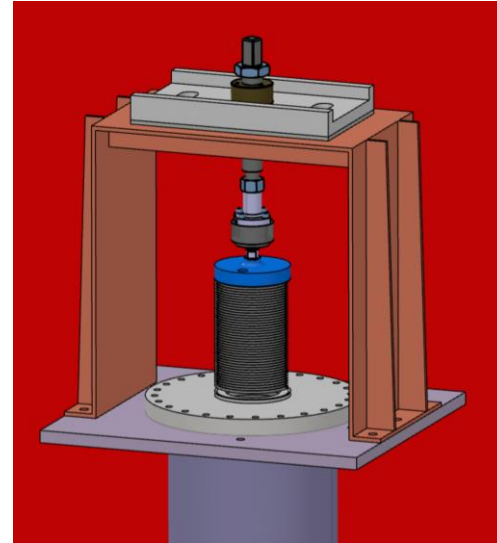
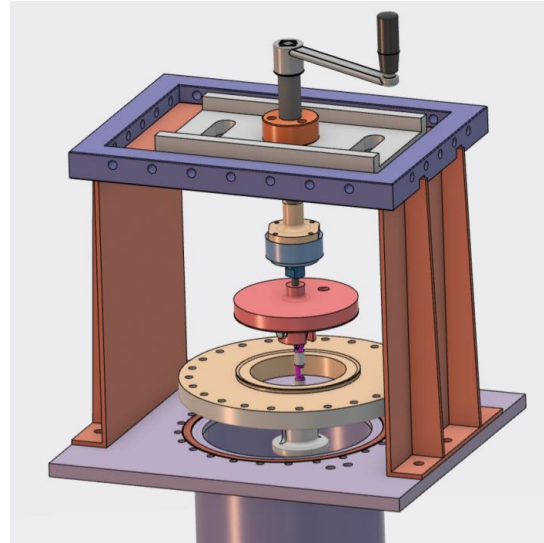
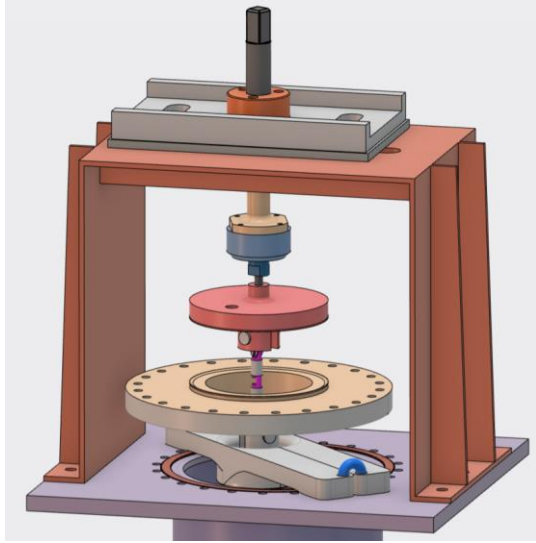
CRP decoupling and attachments devices



- Design finalised; FEA report to be submitted to compliance office
- Fabrication of the double ball piece + base foreseen at LAPP (24 items)
- **Should be available in February**

02/12/2024

Suspension mechanics



- Design being finalised; FEA report to be submitted to compliance office in January.
- Base plate design need to be prototyped and welded
- Parts for 8 systems will be purchased in February => **all parts end of March**

Electrical Hoists system (4 hoists + common controller)



Several providers identified:

- Harrington - Keto in US
- Comepal in Europe

 COMEPAL



Both systems seems to be working at 110-220V and 50-60 Hz
4 hoists can be controlled at the same time

Can share the hoists with FC needs: to decide with I&I

02/12/2024

Wait the test ongoing at Ash River (cf: Bill)

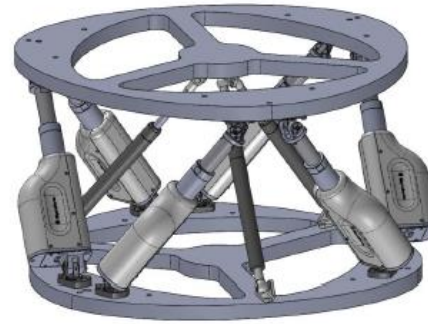
Specific tooling

Hexapod: call for tender is completed; the company is chosen and the contract is being prepared

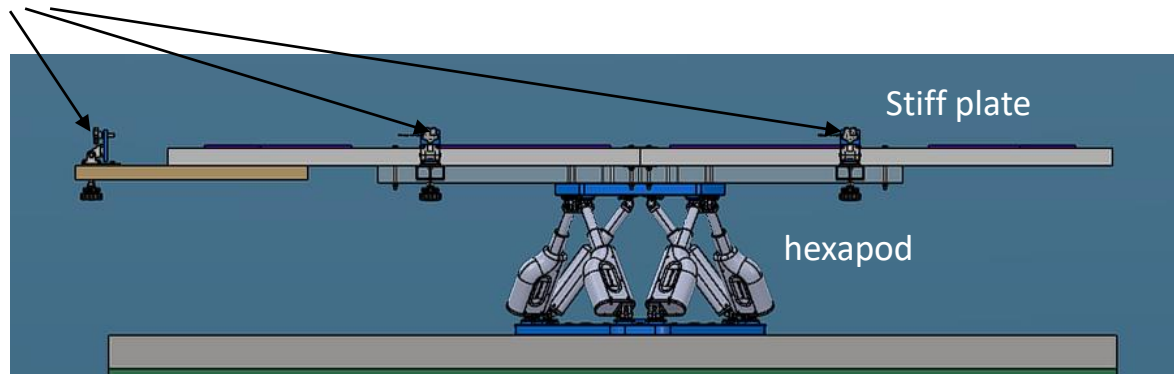
Lead time: 20 weeks => **receive end of April 2025**

=> Test first at LAPP in May 2025

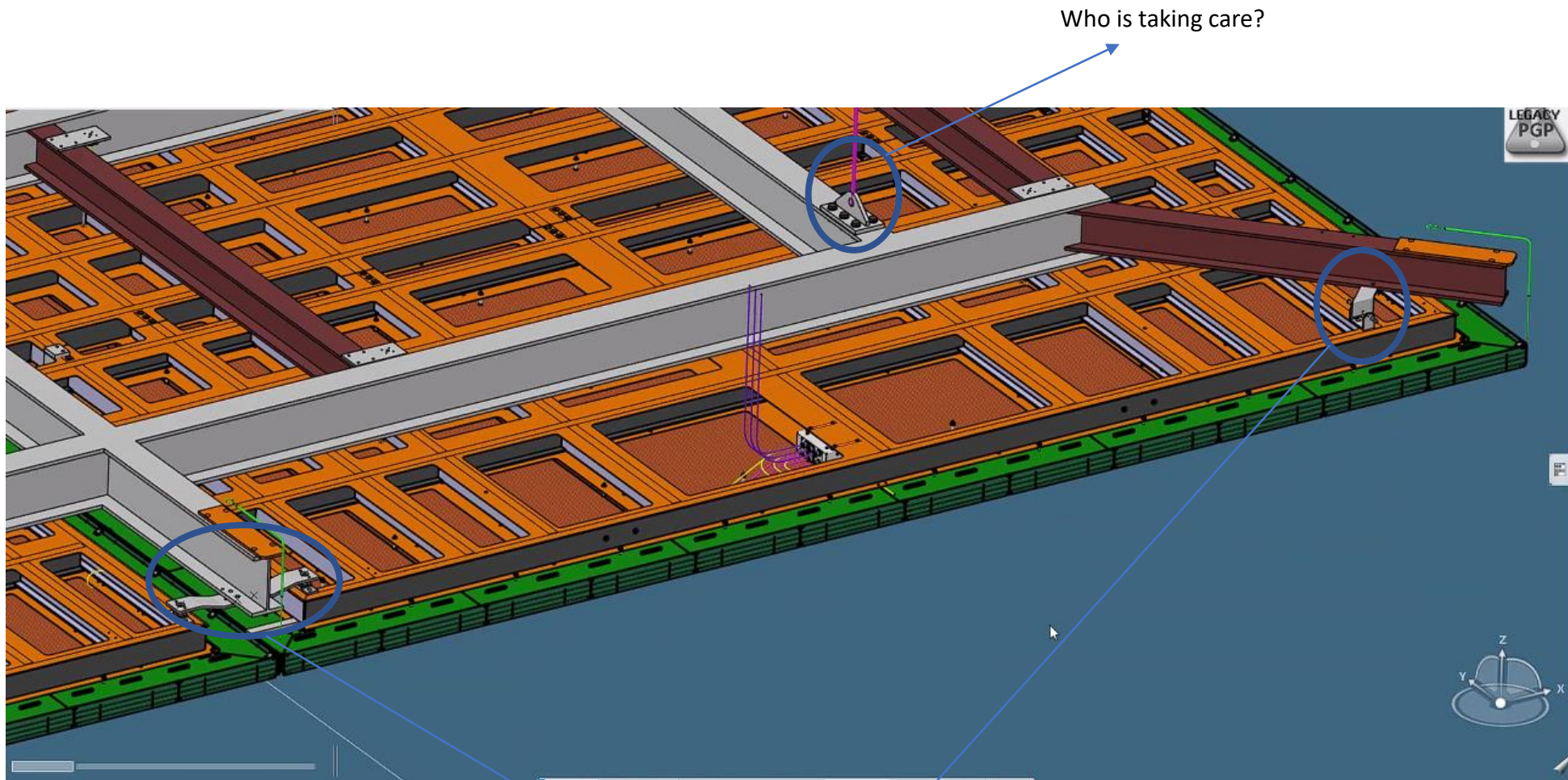
BREVA XL Custom Hexapod



Stiff plate and connection system:



- Design ongoing;
- Submit a FEA report to HSE and compliance office (end of February)
- Parts will be purchased end of January for testing purpose => **parts in March**



Who is taking care?

Fixed point and guided point parts are LAPP