



IK4  TEKNIKER  
Research Alliance

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Surface Physics and Technology Unit

- **LAGRANGE:  
Spectrometer of the IN-1 (ILL)**

**Project includes:**

- Elipsoidal analyser and crystal supports
- Vacuum chambers
- Instrument base
- Collimators
- Berilium support
- Beam stop
- Protections



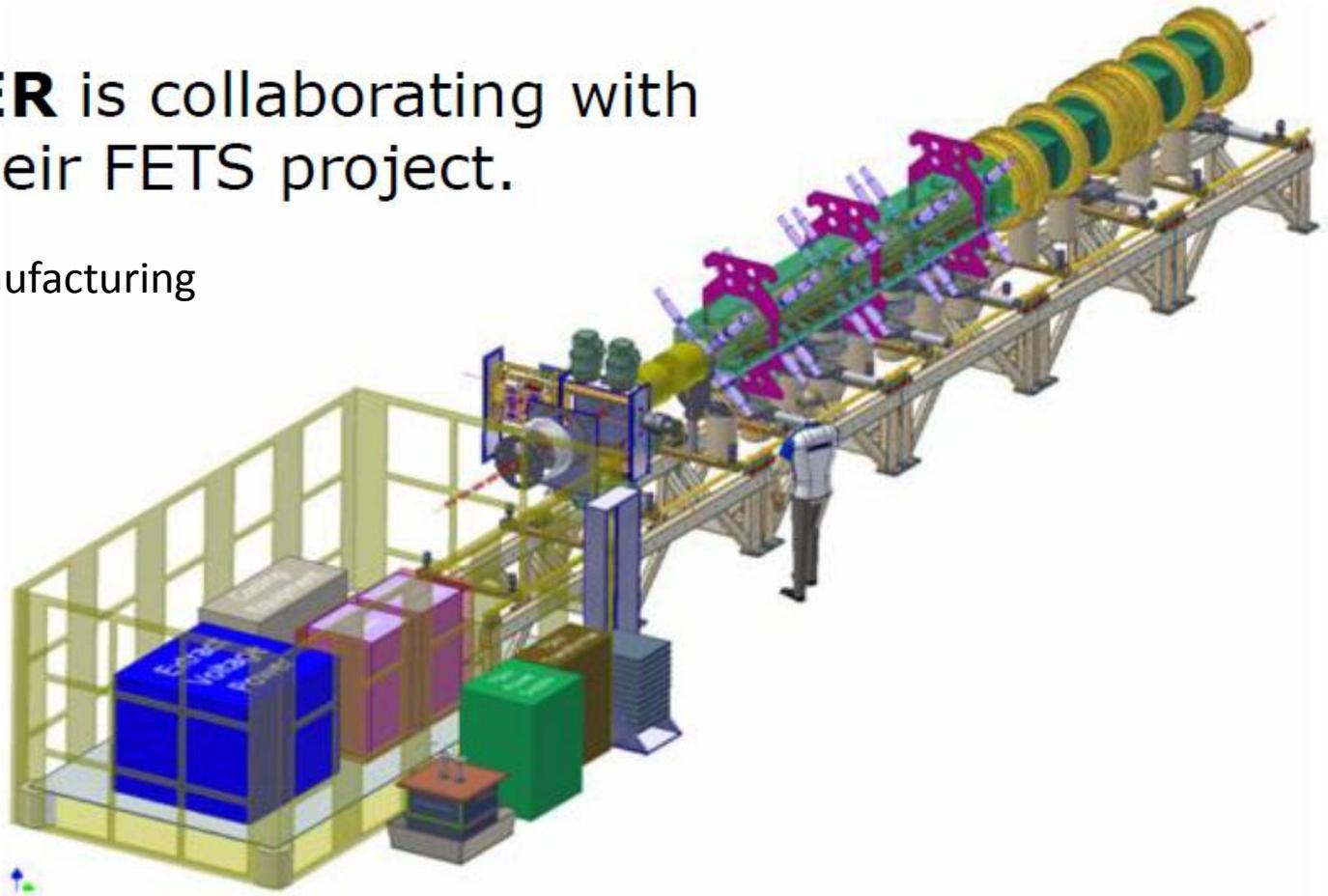
## Vacuum Tank for the LET Spectrometer Detector

- Volume = 110 m<sup>3</sup> (diam 9m x h 5 m)
- Weight = 50 Tn
- Vacuum = 10<sup>-6</sup> mbars

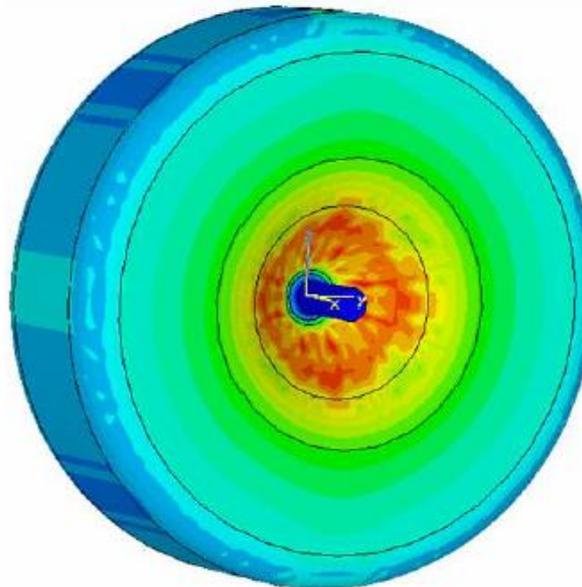
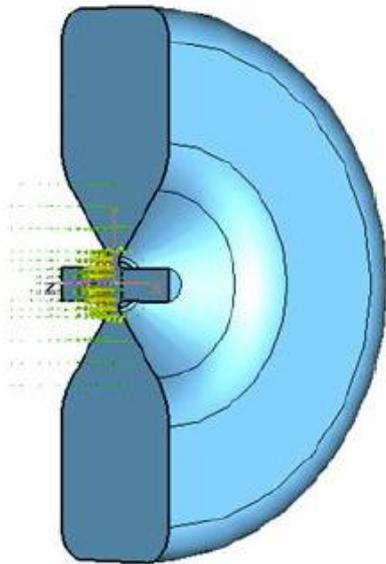
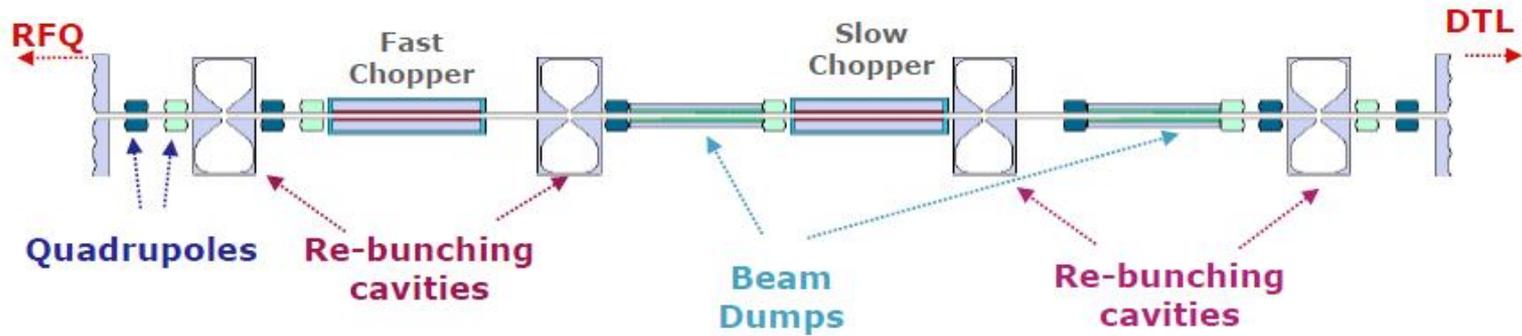


**TEKNIKER** is collaborating with ISIS in their FETS project.

Beam stop manufacturing

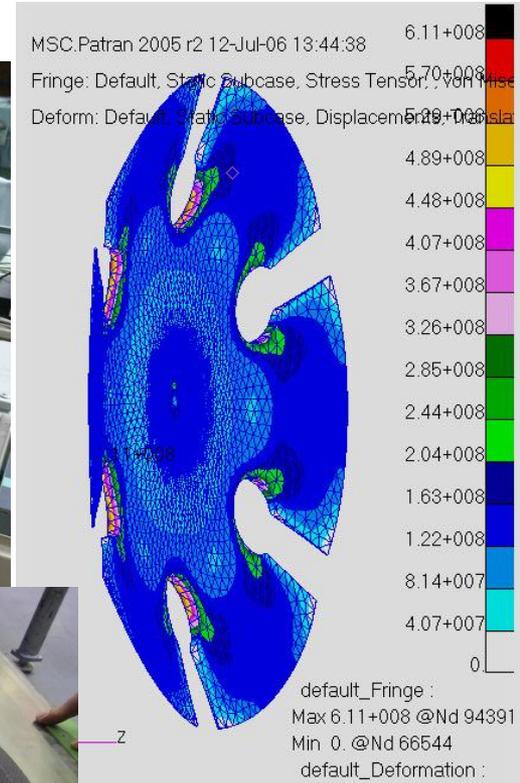
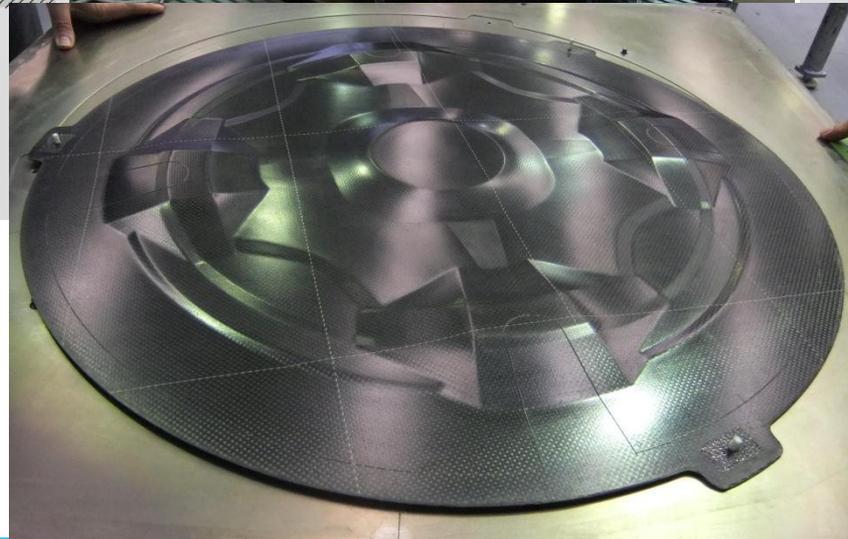
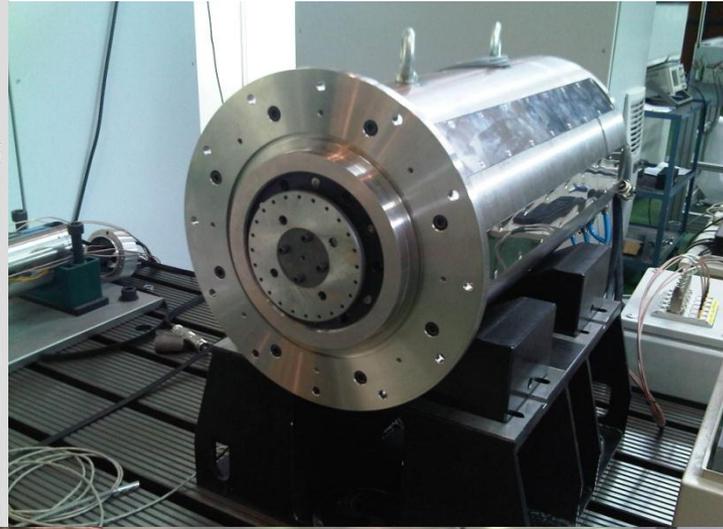
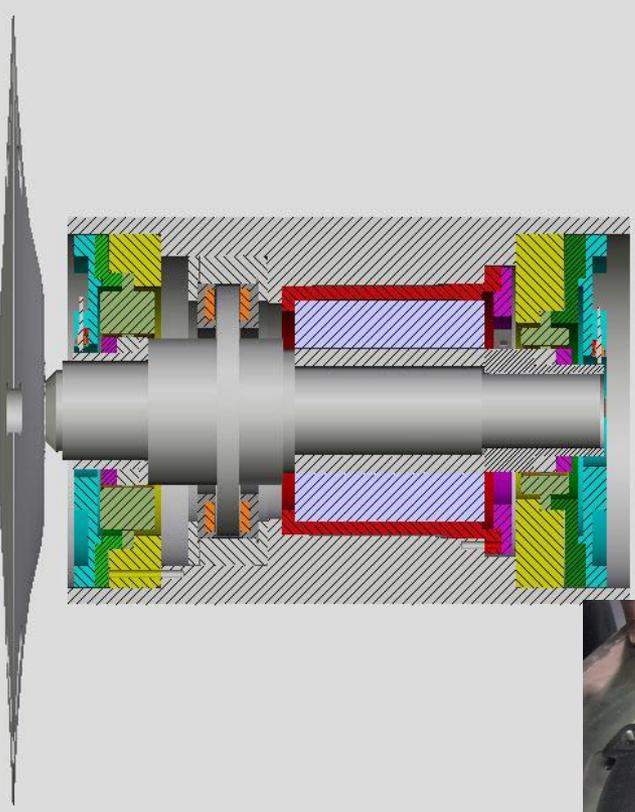


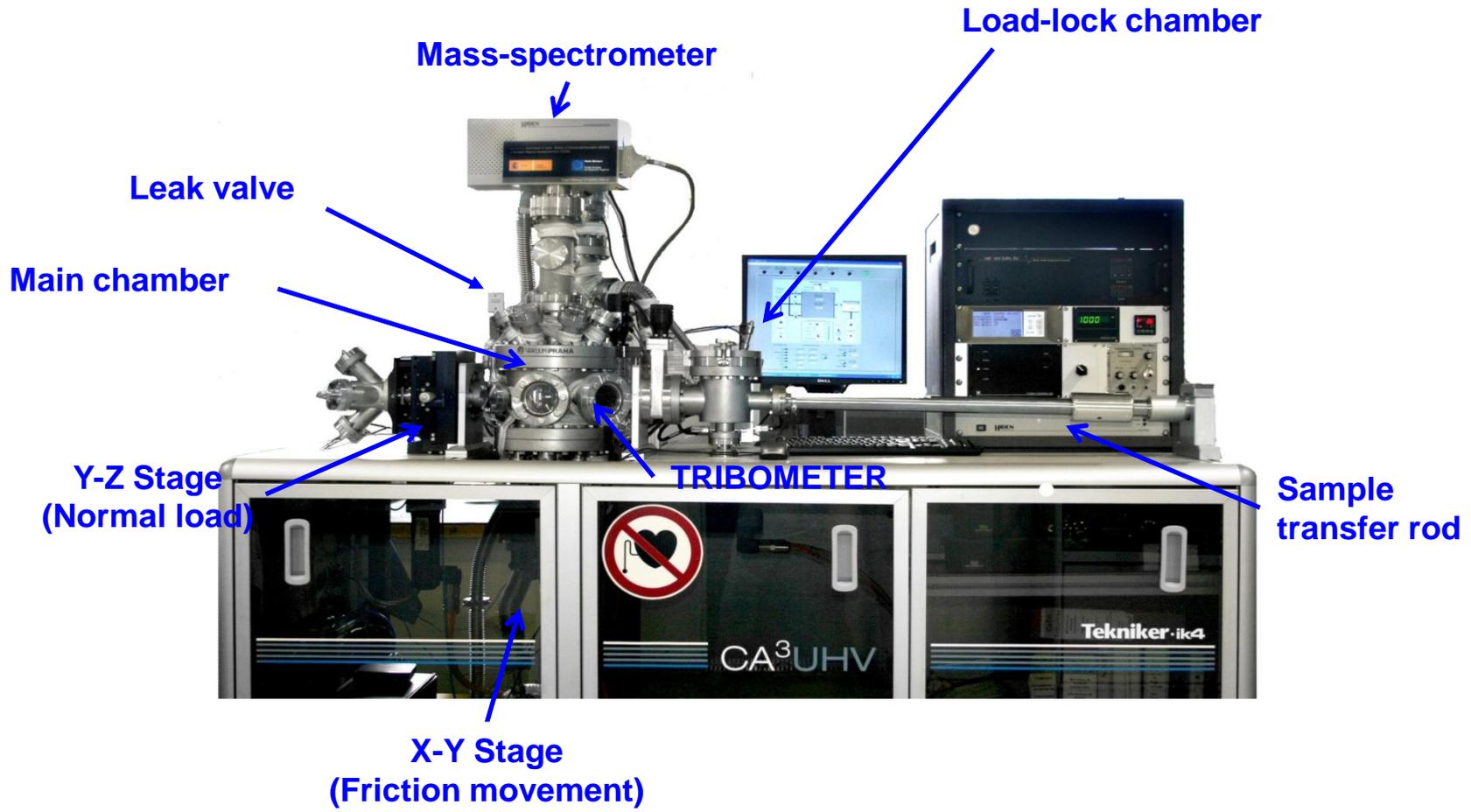
- Rebunching cavities**



- **Ion Source Test Stand: Ion sources, diagnostics and Facility**



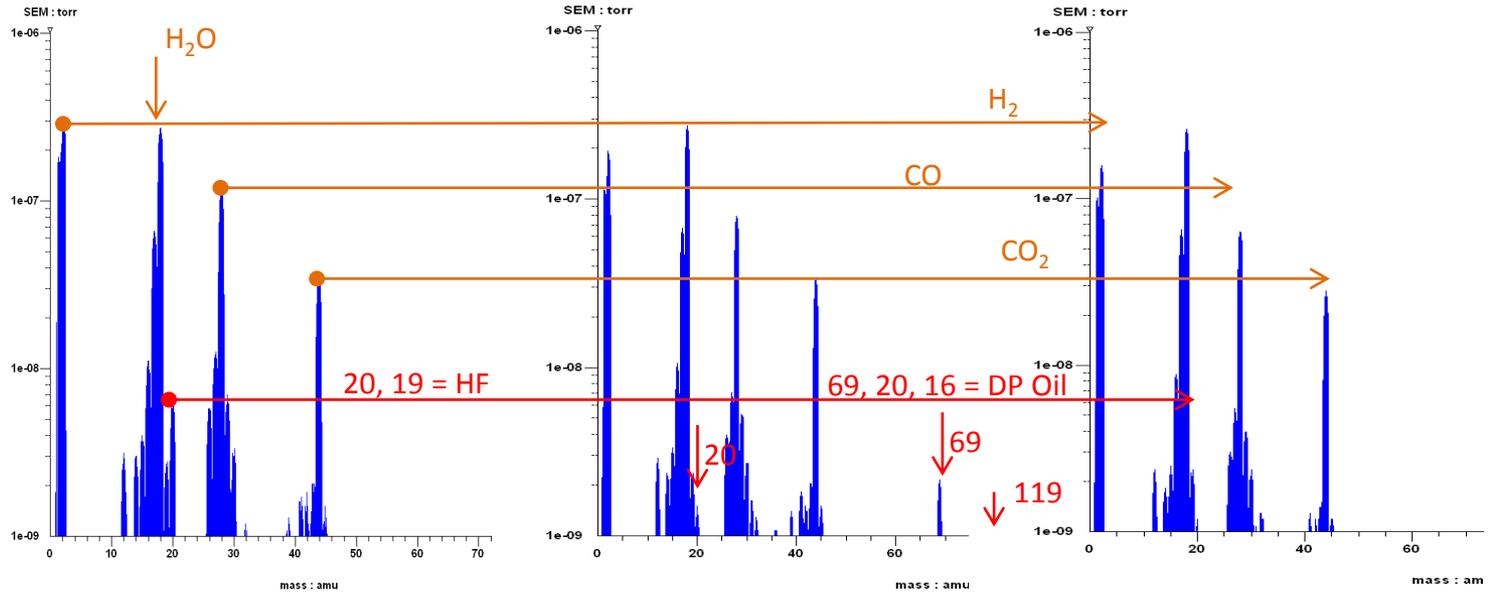


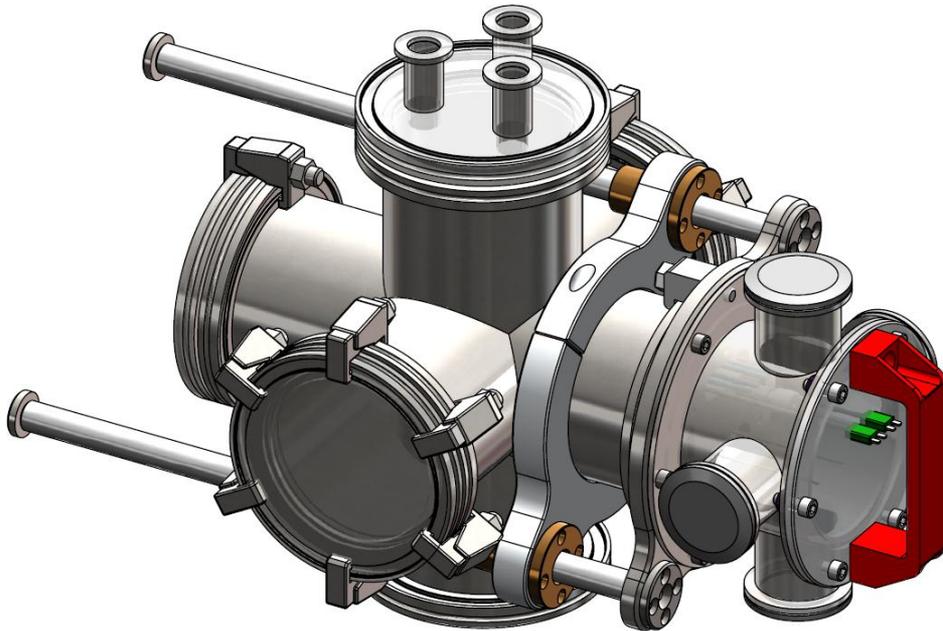


Before the tribo-test

During the tribo-test

After the tribo-test



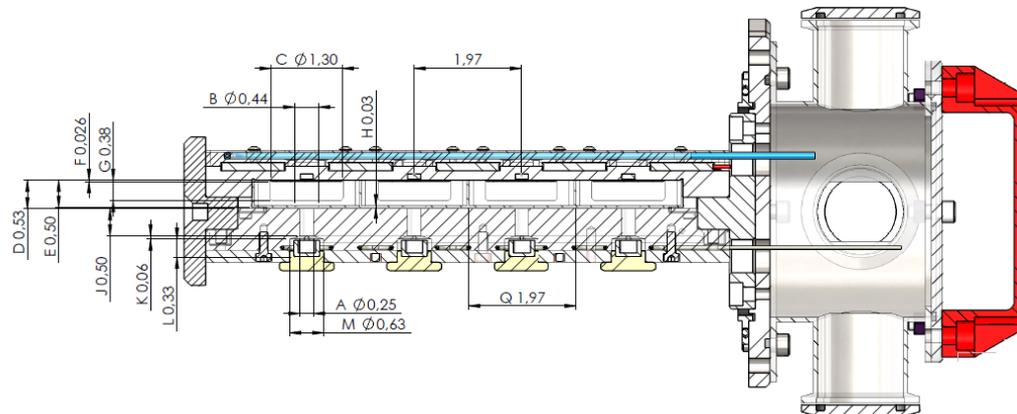


Screening technique to determine volatile content of materials when exposed to a vacuum environment.

According to ASTM E595-07

Three parameters can be measured:

- Total mass loss (TML);
- Collected volatile condensable material (CVCM);
- Amount of water vapor regained (WVR).





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Thank You