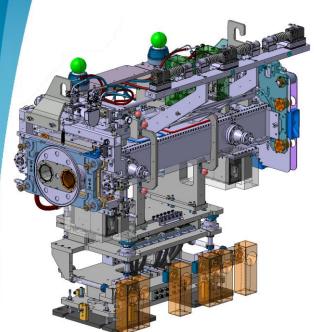


FAT Tests at MC Uldall for collimator supports - 22/10/2024

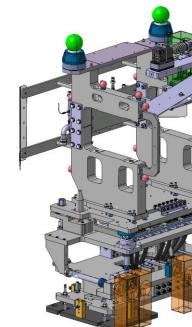
Thibaut Parmentier



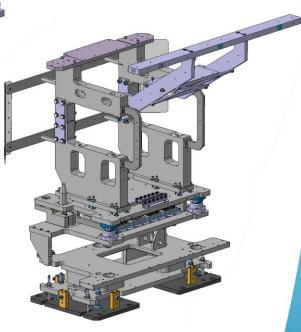
Supports for X-series and masks



Installed collimator (TCLPX)



Collimator support

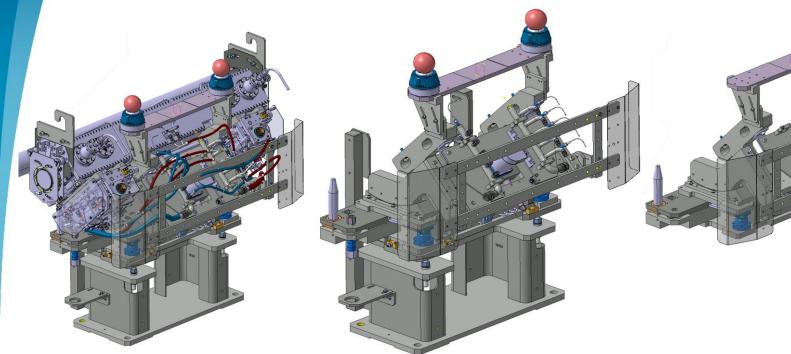


Produced by MC Uldall

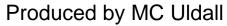


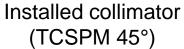


Supports for TCSPM and TCTPM













Schedule

- Week 49 2024: Delivery of the Pre-series units
 - 3 Supports for X-series and masks
 - 1 Support for TCSPM
 - 7 Supports for tests at CERN
 - Loose parts for linear stage
- Week 27 2025: Delivery of the Series units
 - 28 Supports for X-series and masks
 - 11 Supports for TCSPM
 - 10 Supports for TCTPM



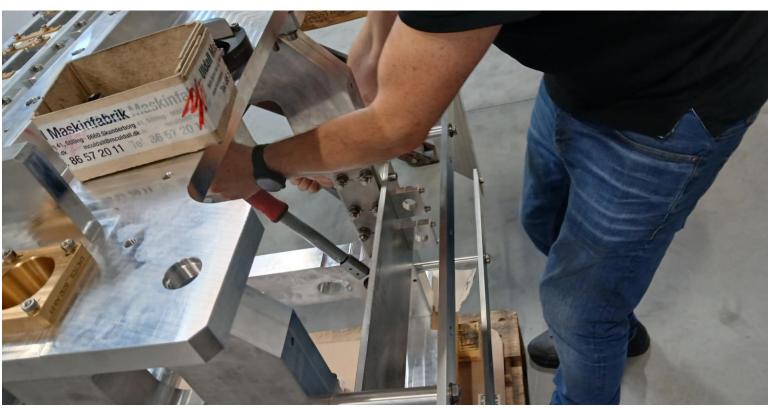


- Visual inspection
- Torque verification
- Ball support movement check
- Label verification
- Hypertac and BPM connector integration test
- Fixation test
- Insertion test

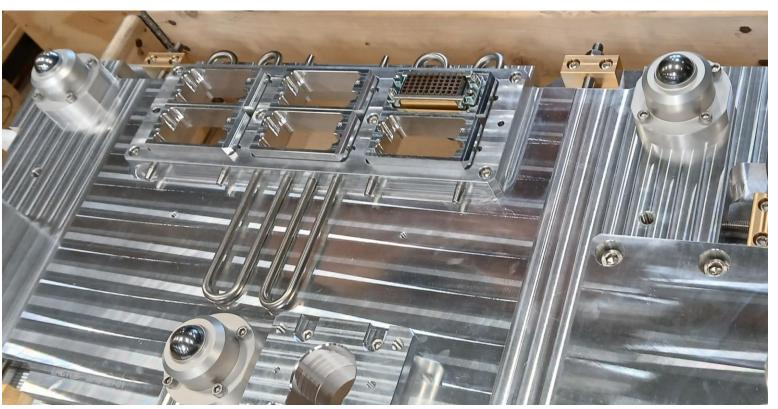
Visual inspection



Torque verification



Ball support movement check

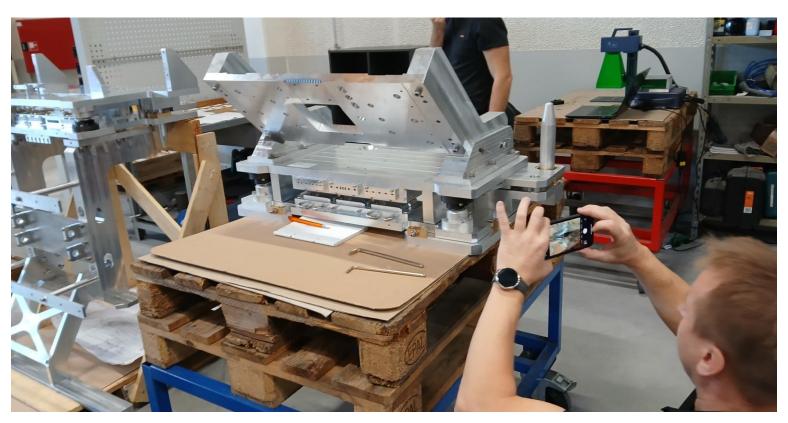


Labelling verification

Hypertac - & BPM connector integration test



Fixation test

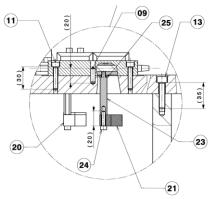


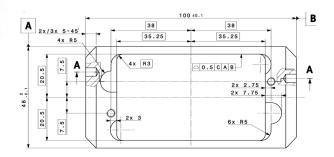
Insertion test

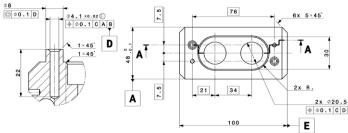


Results of the FAT

- Excellent overall
- Minor remarks (mostly CERN design):
 - Hypertac female connector integration
 - Fischer connector guiding pins
 - Cable support thread length







Next steps: SAT

- Repeat of the FAT
- Insertion test with prototype collimators
- Assembly of commercial and CERN-made components

Questions



