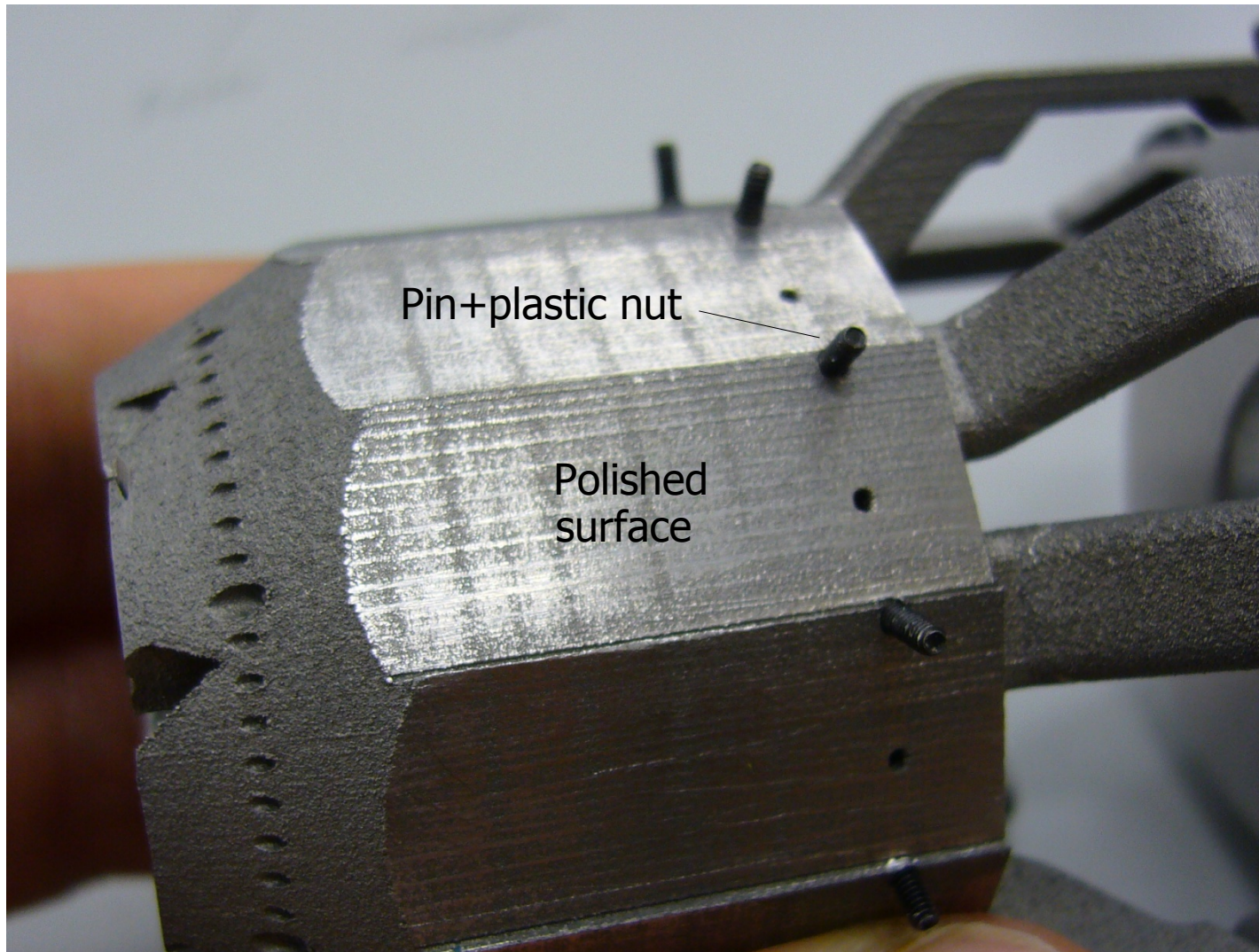
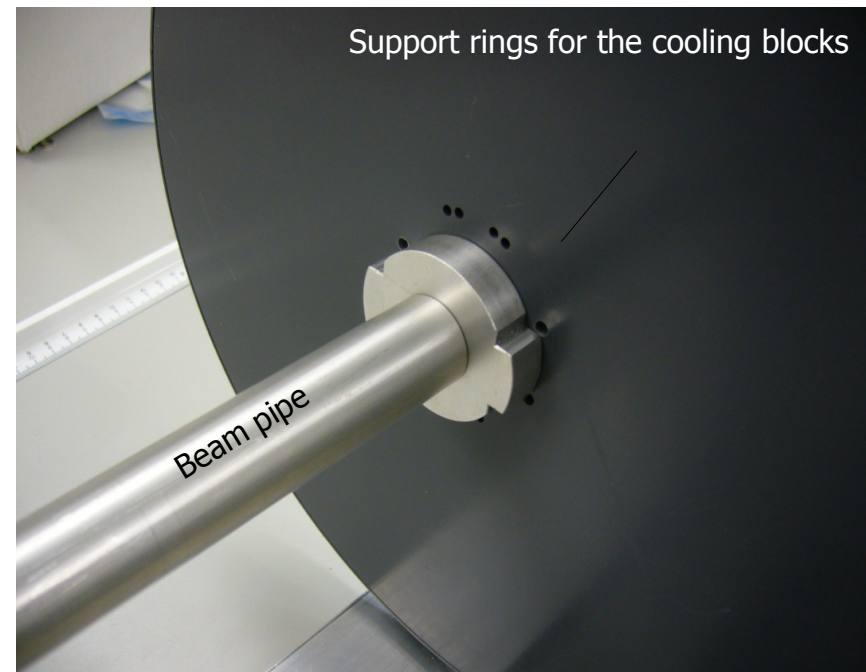
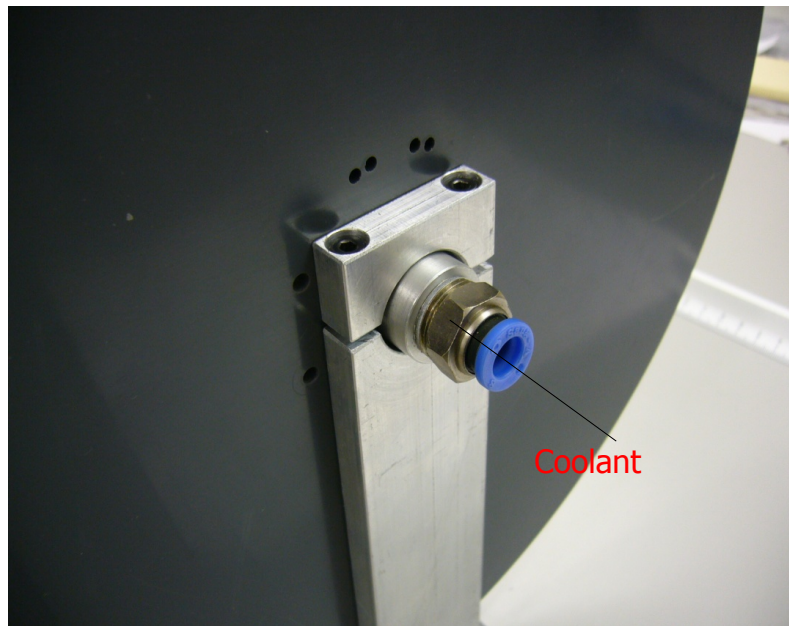
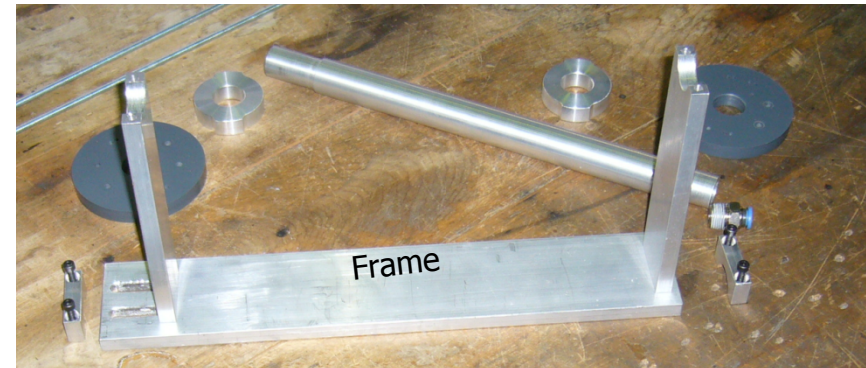
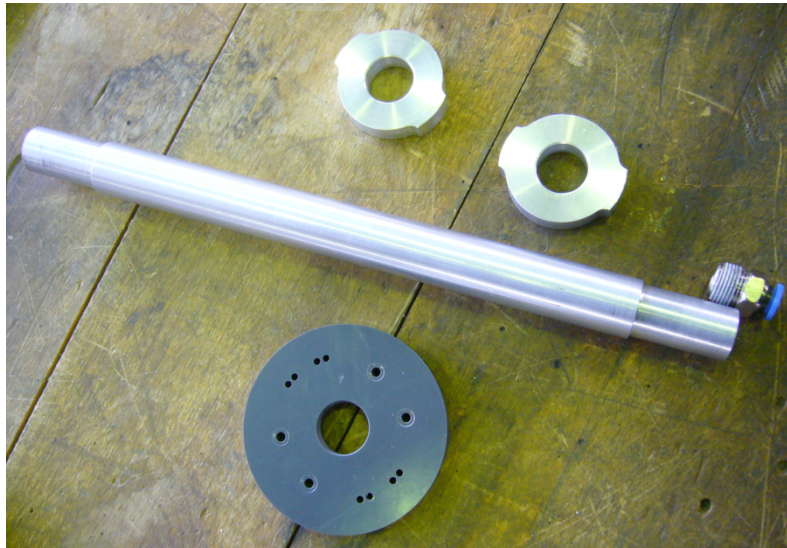
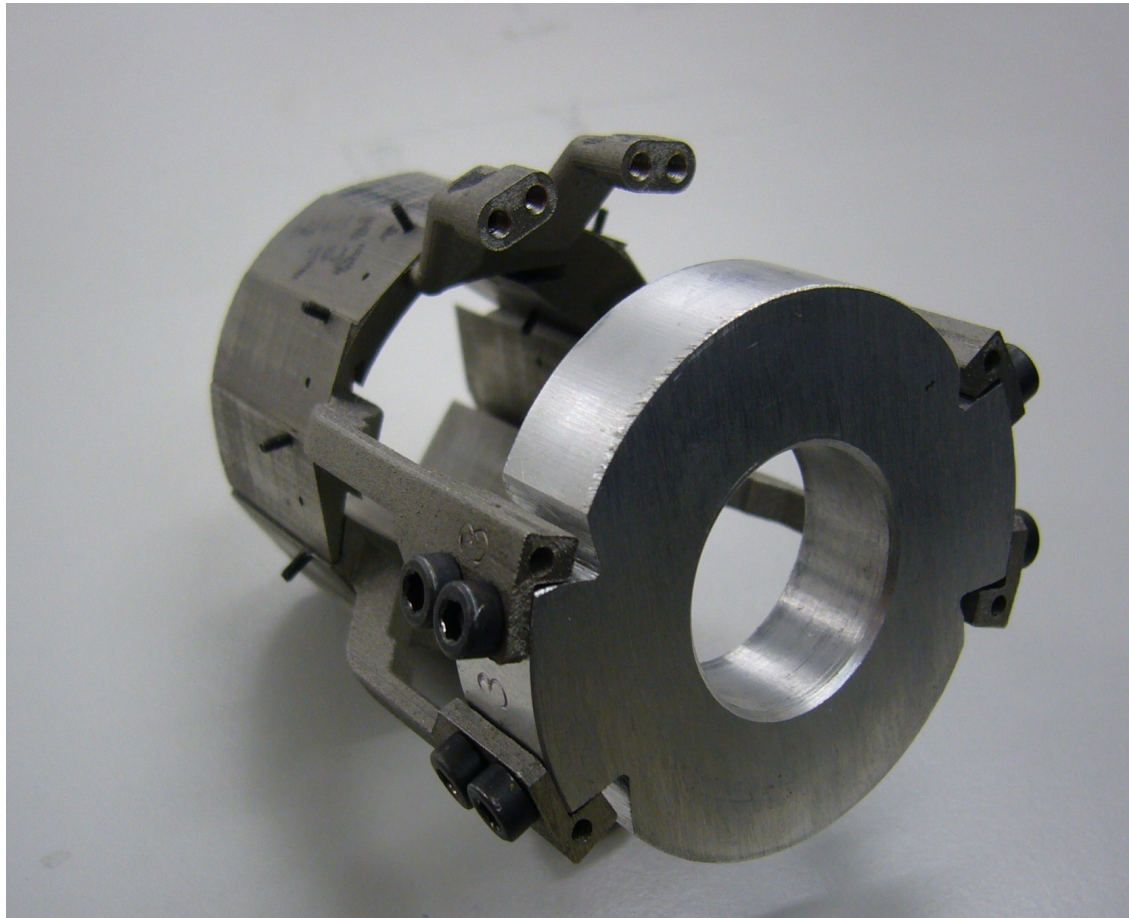


# Status in Valencia

- ✓ Thermal mock-up
- ✓ Thermal enclosure

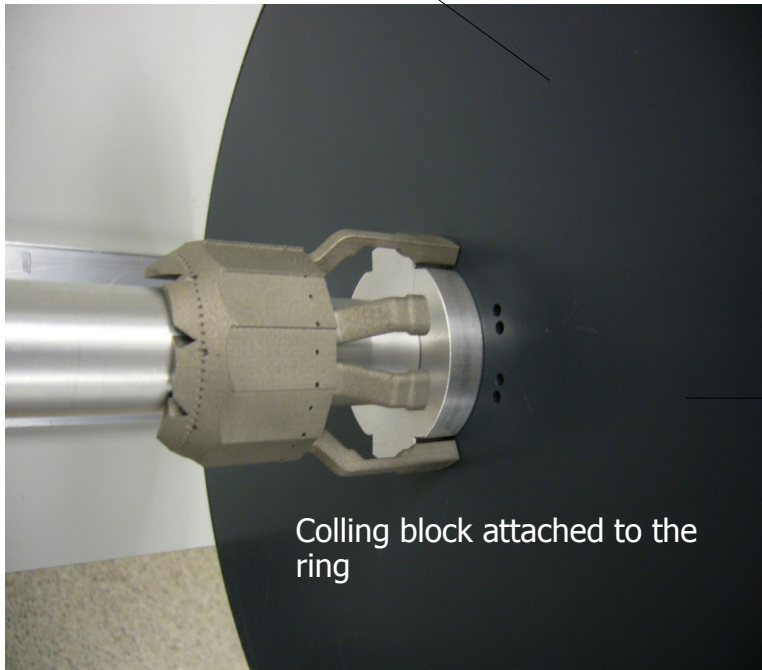




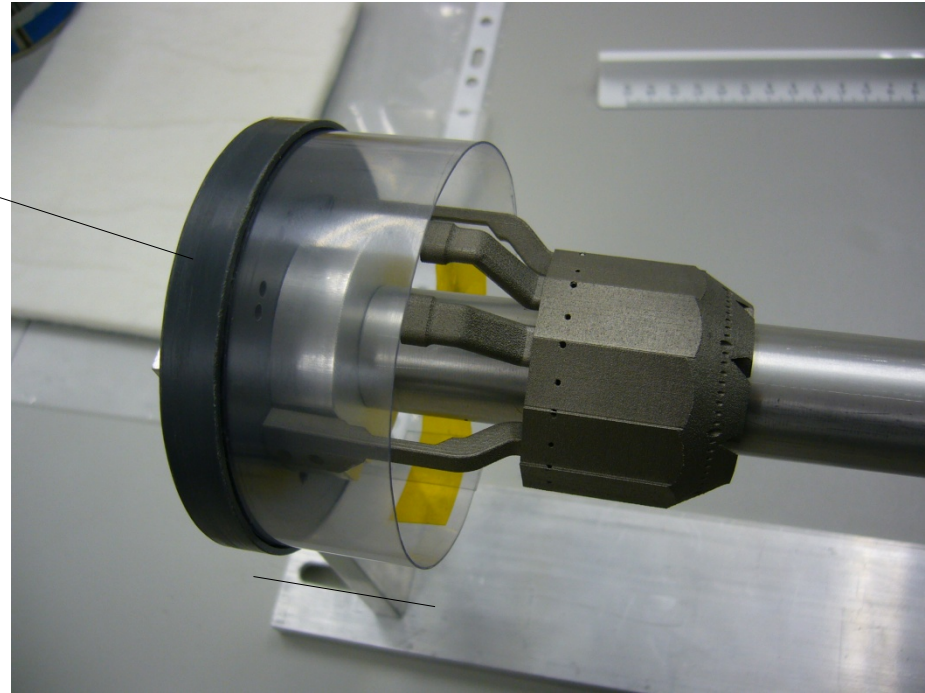


- The two independent halves attached to the support ring
- Support ring held to the beam pipe

Two PVC "endcaps" will define the working volume:  
PXD standalone or PXD+SVD

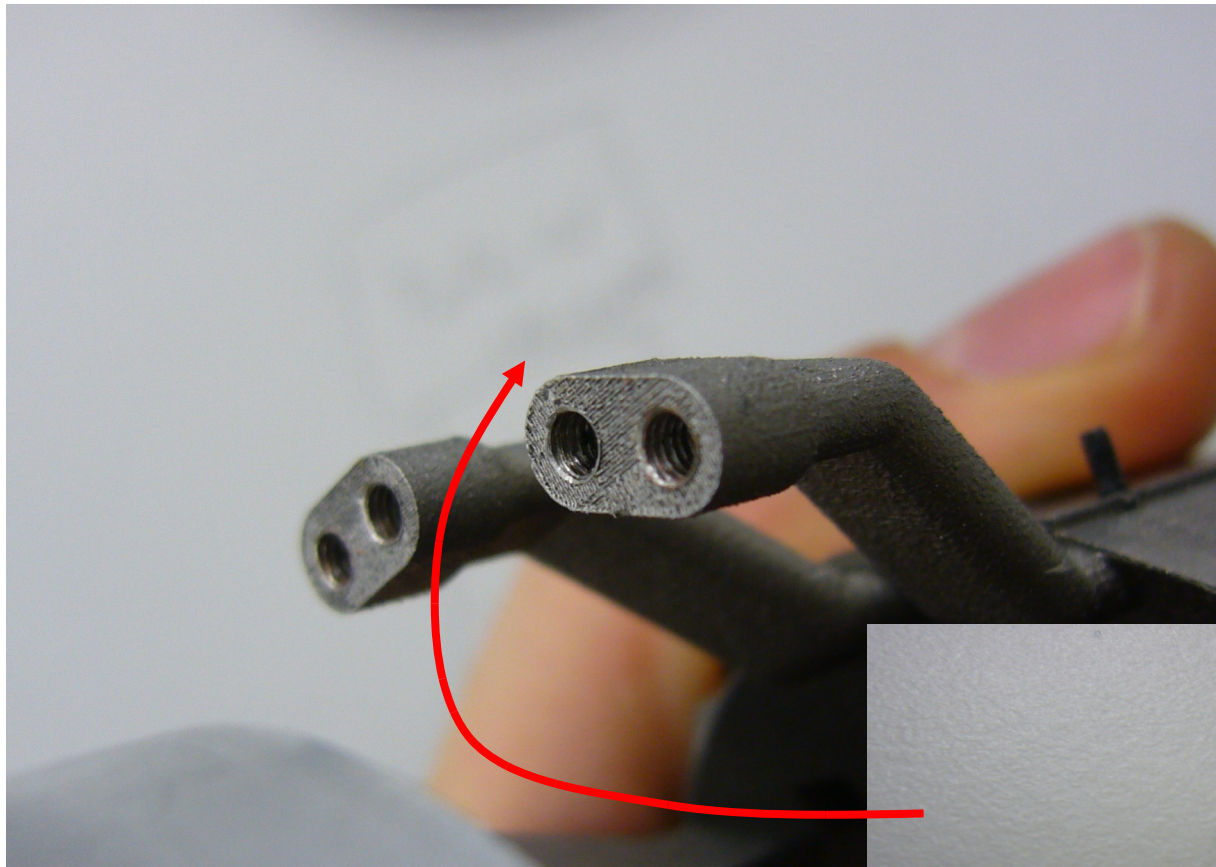


Collimating block attached to the ring

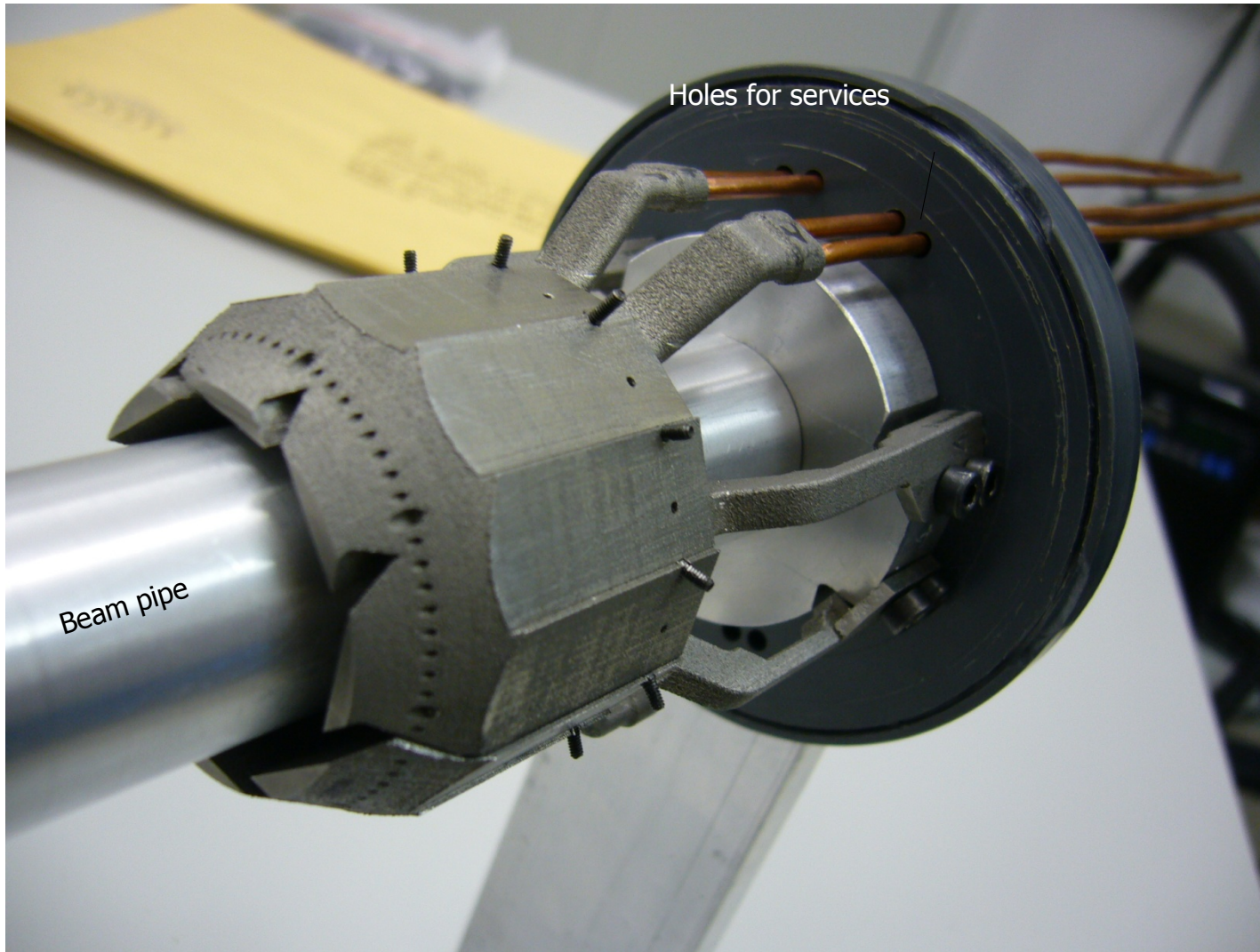


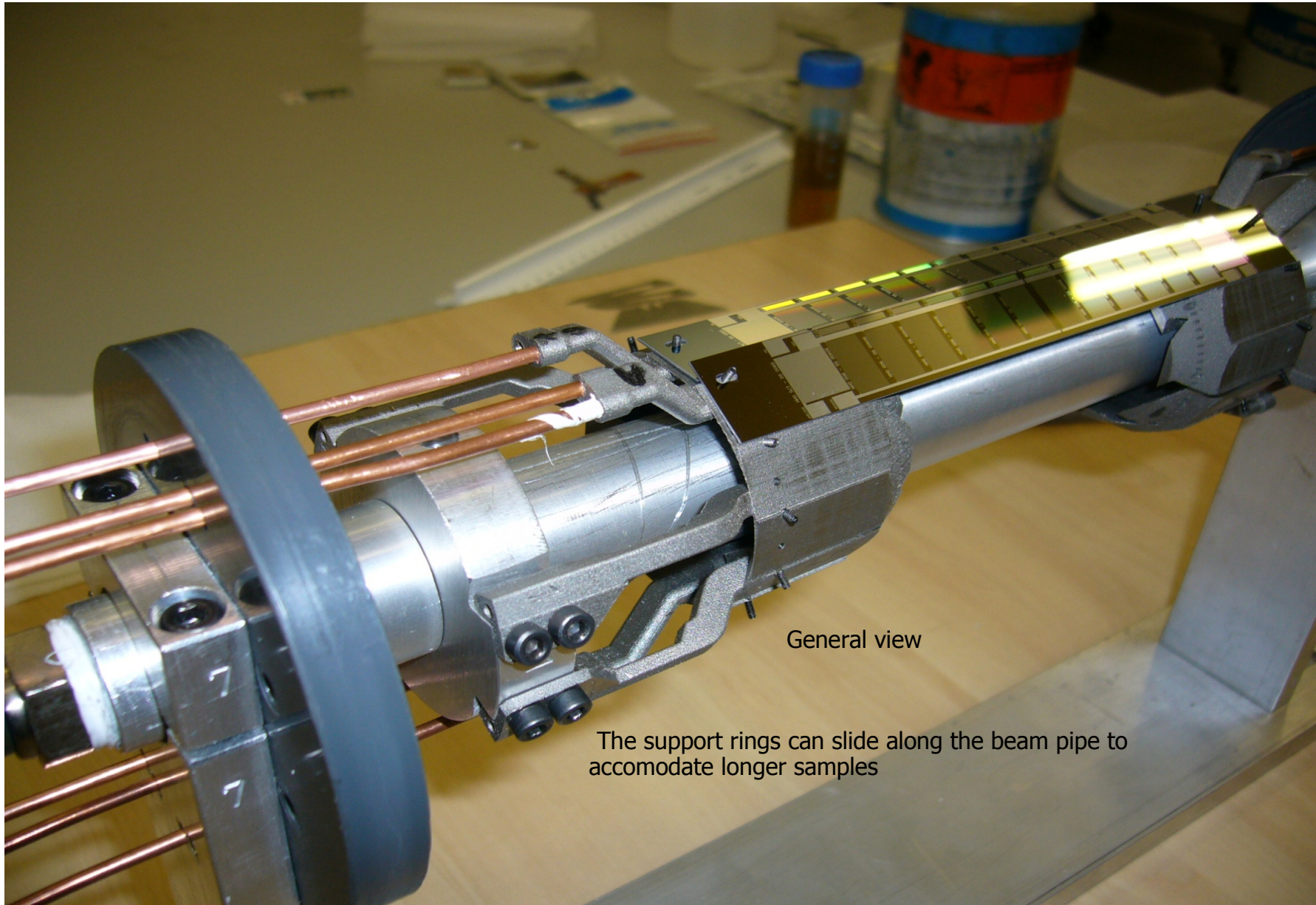
The polycarbonate screen will be extended to cover the full volume

Holes for the services (air and coolant)



- Mono phase cooling + Air
- Delivered by means of copper capillaries threaded to the cooling block

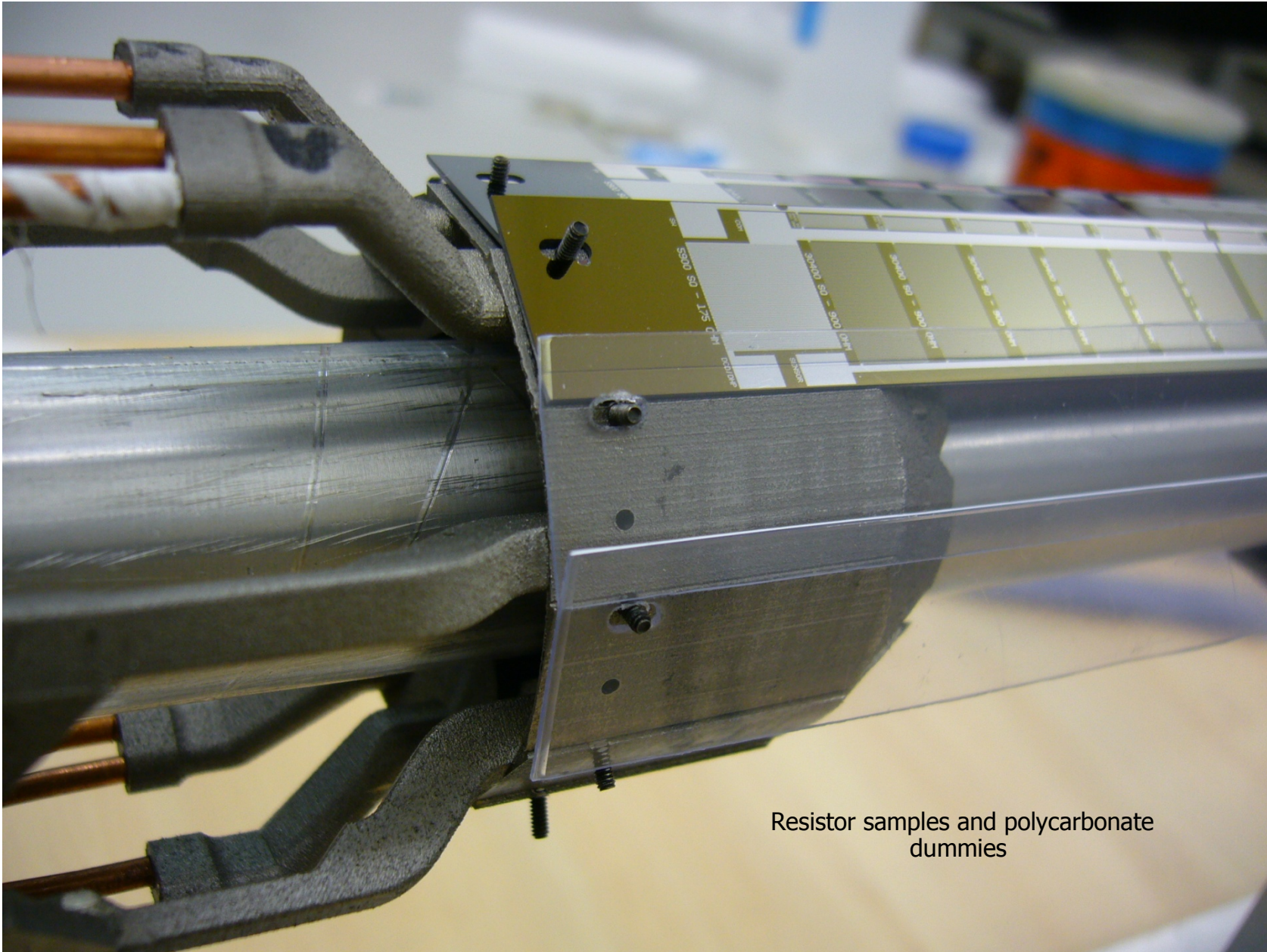




General view

The support rings can slide along the beam pipe to accomodate longer samples



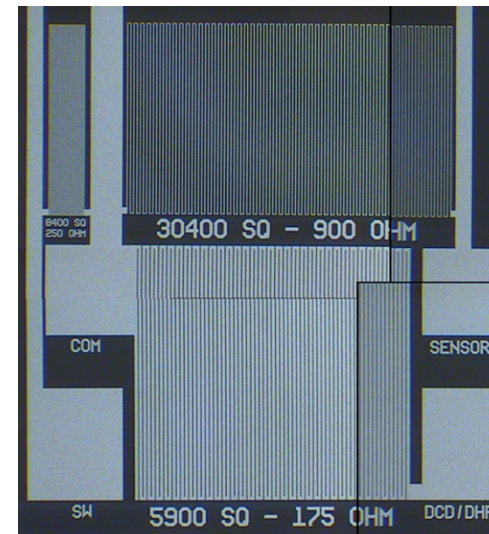
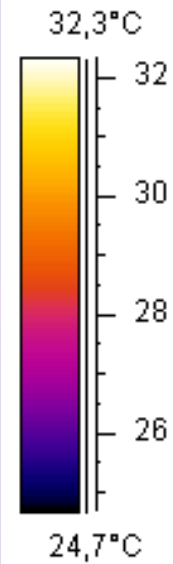
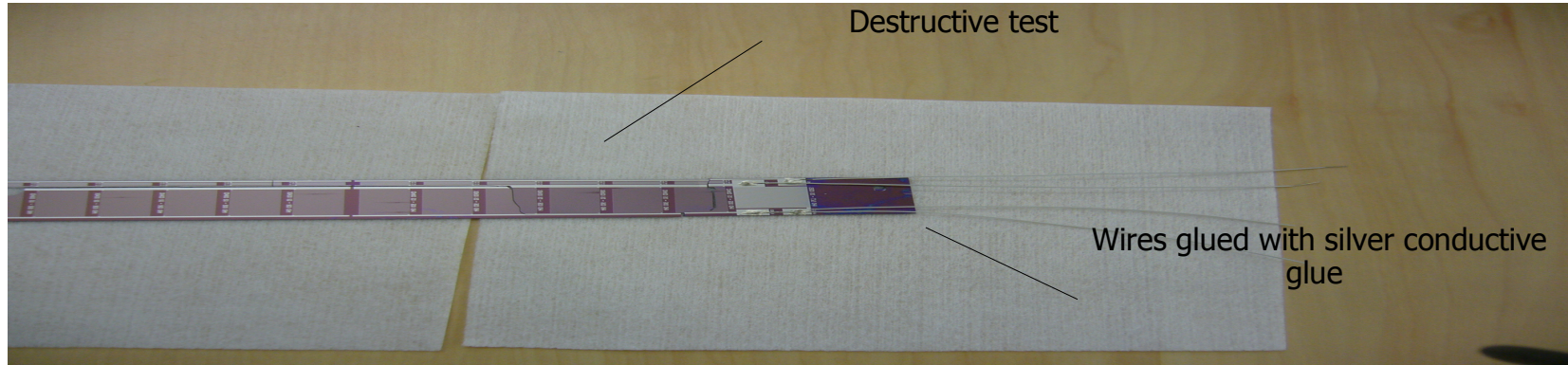


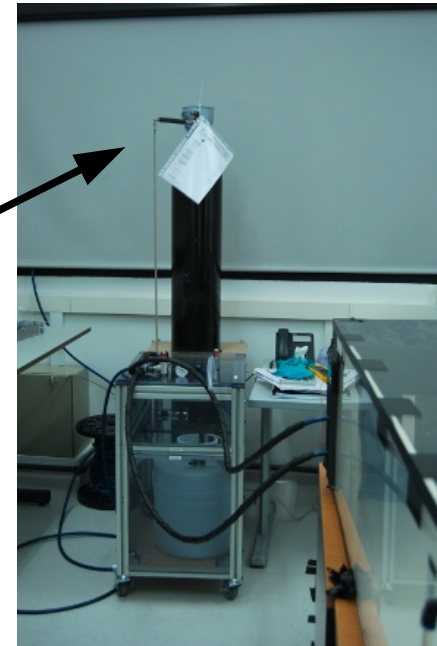
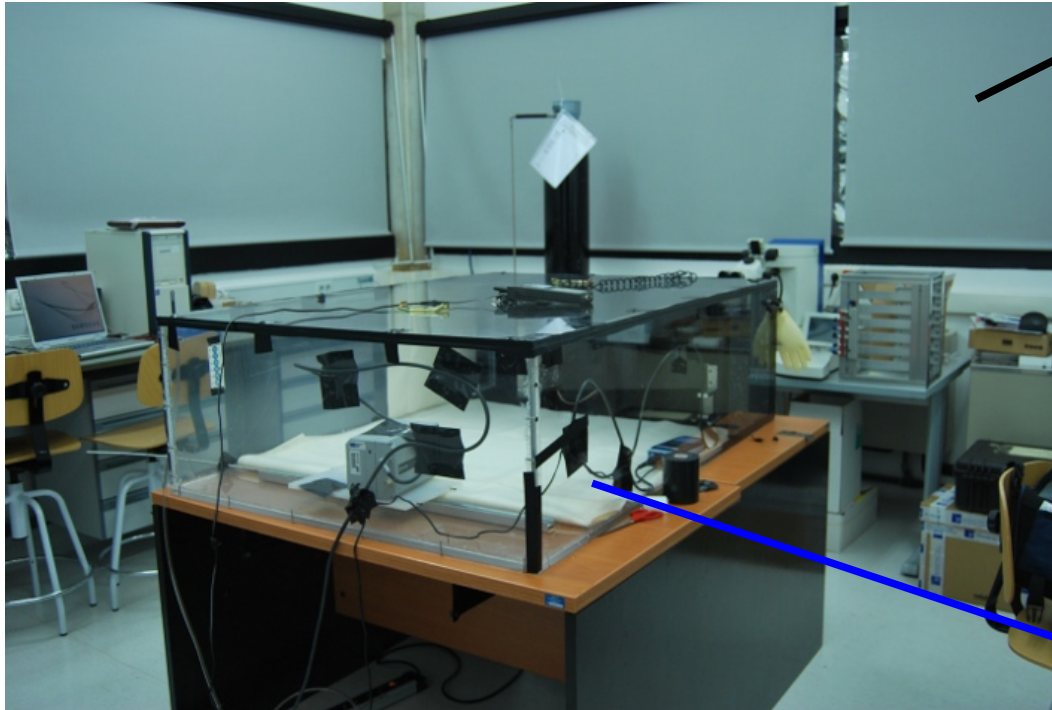
Resistor samples and polycarbonate dummies

Material	Thermal conductivity (W/m·K)	CTE (um/m°C)	Tensile strength (N/mm <sup>2</sup> )
Stainless steel 17-4	16	11.7	~1000
Stainless steel 15-5	22.6	13	
Steel CL20	15	17	650
AISI 316 steel	16.2	15.9	~600
DM20	30	18	400
→ AlSi10Mg	140	21	310
Ti6Al4V	7.2	9.2	1200

We like: DM20 and AlSi10Mg

Blocks made with these materials ordered. As soon as received will be sent to Munich for pressure tests



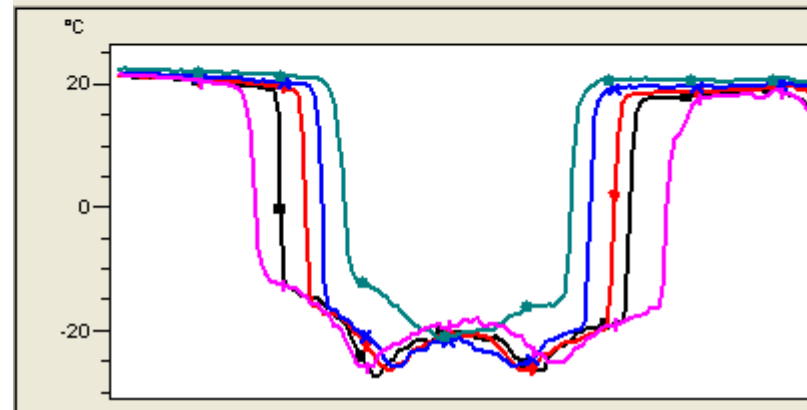
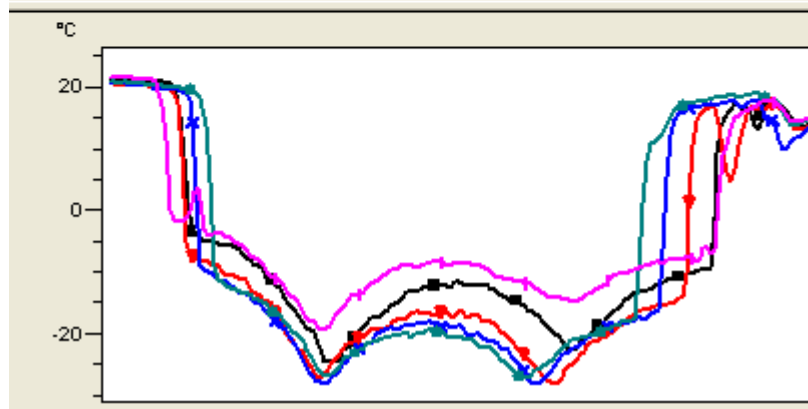
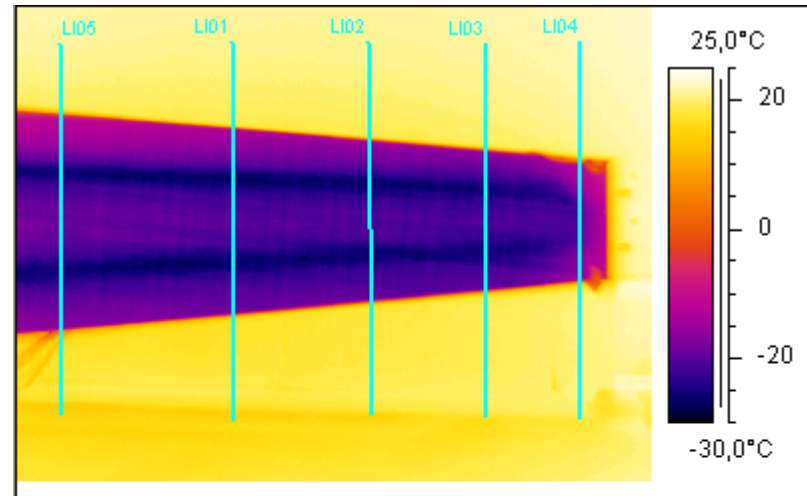
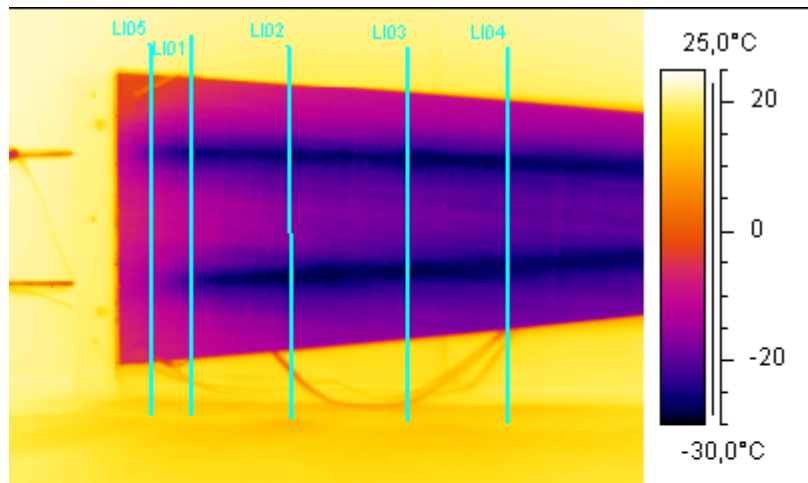


Open CO<sub>2</sub> system built in house following NIKHEF note.



IR camera

The petal



- ✓ Not too complicated unless need be...
- ✓ Dry air through a liquid N<sub>2</sub> dewar

