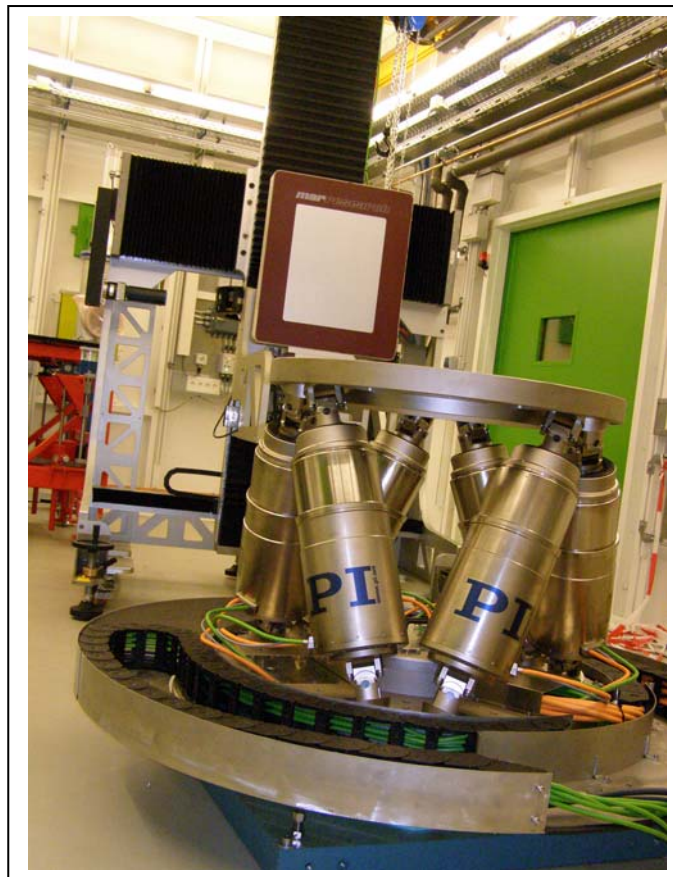


Heavy load hexapod in EH3



Prototype M-850K148 by PI *Physik Instrumente* (in the background the *MAR555 Flatpanel* on the detector portal).

Specifications:

Load capacity		1.000 kg	
Repeatability	x, y, z	± 1 μm	
	u, v, w	± 3 μrad	(± 0.17 mdeg)
Resolution	x, y, z	< 0.8 μm	
	u, v, w	≤ 2.5 μrad	
Ranges	x	+ 202 / – 237 mm	
	y	± 204 mm	
	z	± 100 mm	
	u, v	± 20°	
	w	± 5°	The circular motion around the z-axis is performed additionally by the HUBER one circle goniometer 480 (W2, X3). i.e. ± 180° (res. ≤ 10", eccentric. ≤ 2 μm).
Diameter top plate		800 mm	
Inner aperture		500 mm	grid of M8 and M10 threads on top ring
Height hexapod (middle of travel)		713.5 mm	
Height (goniometer 480 + baseplate)		165+92 mm	
Distance beam-top plate (middle of travel)		→ 1400 – 713.5 – 257 mm = 429.5 mm	