

HUBER diffractometer in EH2

Improved version of prototype at ID15A, ESRF, design H. Reichert.

“Liquid monochromator” (two crystal arrangement for bending beam downwards) and detector positioning consist of separate units (x-z and detector-rotation).

The following components are contained in this set-up (from top to bottom):



Removable **Euler cradle** 512.1

Z-stage 5103.C40	Resolution < 0.1 μm Range +/- 10 mm Load capacity 200 kg
XY-stage 5102.50	Resolution 0.25 μm Range +/- 25 mm
Rx-Ry tilt stage	Resolution < 0.5 mdeg Range +/- 5°
Phi rotation	Resolution < 0.1 mdeg Range +/- 180°
Linear translation for sample stack	Resolution 0.25 μm Range +/- 30 mm
Theta swing tilt	Resolution < 0.1 mdeg Range +/- 5°
Top plate / center of rotation	245 +/- 10 mm
Total height	1300 mm
Inner width X	860 mm
Base X	1500 mm
Base Y	1000 mm