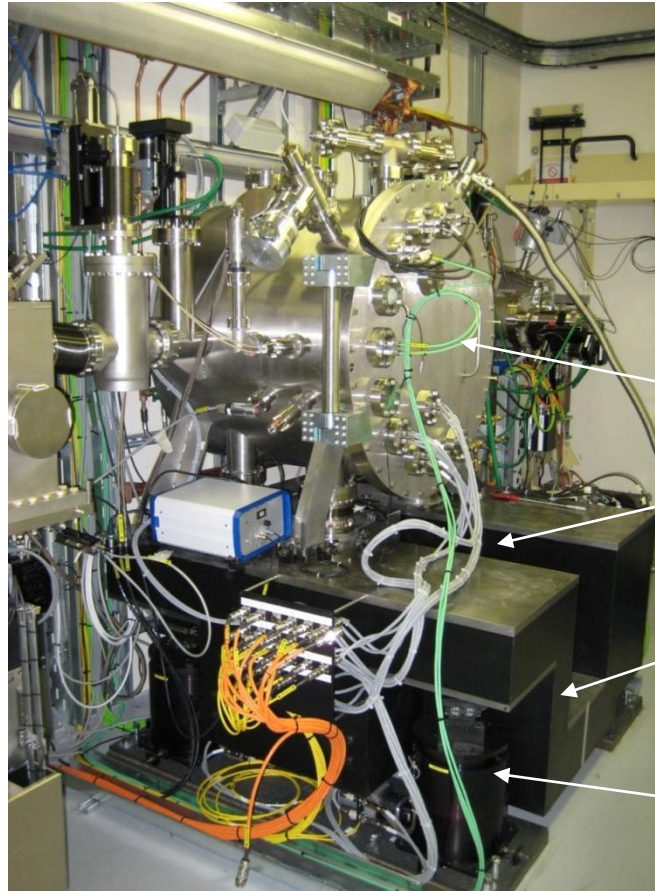


## Features

- Energy range 2-20 keV.
- High precision, ultra-stiff rotary table.
- Cooling circuits (H<sub>2</sub>O and LN<sub>2</sub>) run via central bore of main rotation table.
- Access to crystal cage via hinged door.
- Extraction of crystal cage on simple linear rails for maintenance.
- Very compact footprint in optics enclosure.
- Multiple crystal sets in single chamber.
- High vacuum level 5x10<sup>-8</sup> Torr.
- Very stable base block of synthetic granite.
- Base block on three guided jacks kinematically mounted.
- Angular bragg range 0 - 85°.
- In vacuum encoder system.
- EPICS control system.

# Double Crystal Monochromator (DCM)



Vacuum Vessel Hinged door

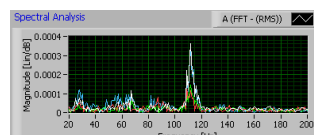
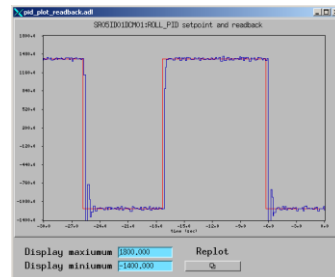
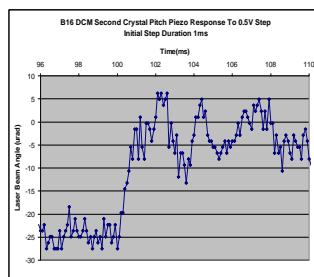
Ion Pump

Large Inertia Synthetic Granite Block

3 Guided Jacks & Kinematic supports

Above: IDT Design & Build DCM @ B16 Optics Test Beamline at Diamond

Below: Crystal Cage Optimised for Piezo 1kHz Fast Feed Back & Supplied With Bespoke EPICS Controls



Left: Vibration Analysis & Dynamic Performance Test Using Laser Quad Diode System