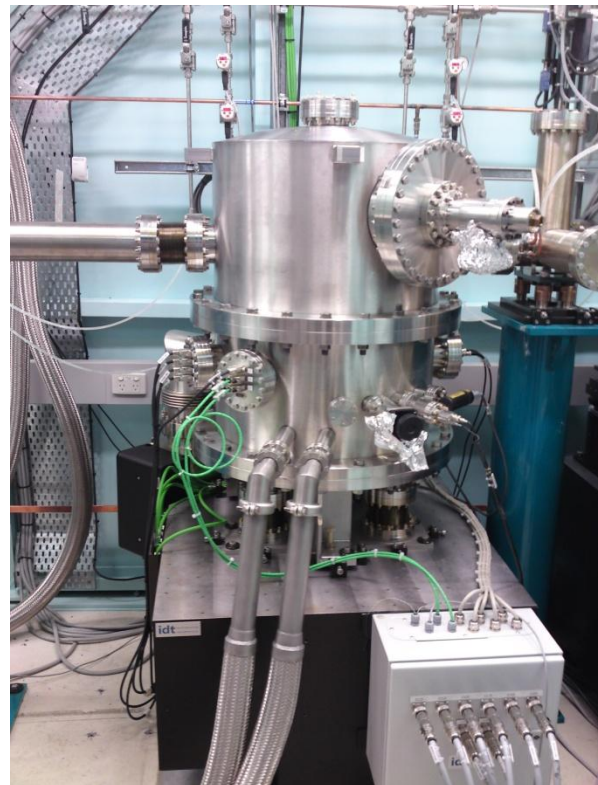
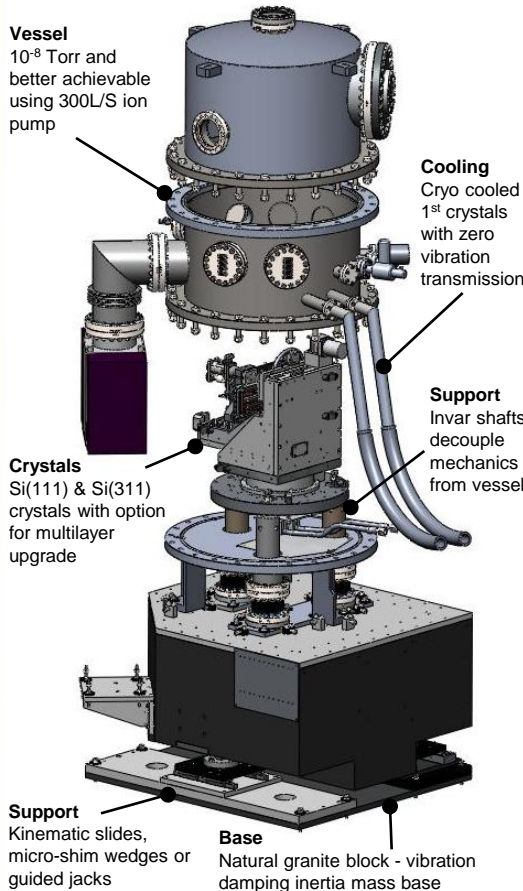


# Features

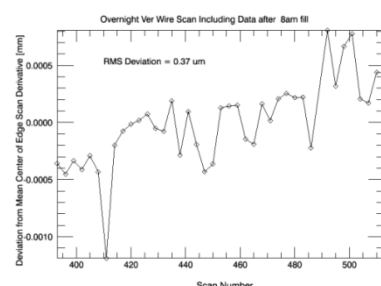
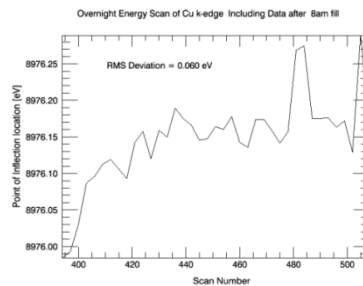
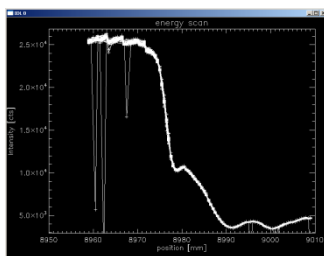
- Ultra stable granite block- measured amplification factor of 1.00.
- Two pairs of crystal sets Si (111) & Si (311) mounted.
- Fast piezo for fine control of pitch & roll on 2<sup>nd</sup> crystal.
- Novel cryo-cooled method for zero vibration transmission.
- Upgrade path for multi-layers.
- Energy range 4-25keV .
- Preservation of undulator coherence.
- Ultra stable horizontal geometry.

# Cryo-Cooled Horizontally Deflecting DCM



Above: Horizontally deflecting DCM installed on ID5 Micro-Spectroscopy beamline at the Australian Synchrotron

## ID5 DCM commissioning results:



Above left & centre: The DCM Energy Axis was rocked over the Cu K edge 115 times in 10 hours. The RMS Deviation in edge position was 0.06 eV.

Above right: The beam was locked in the vertical direction at the sample position using the DCM roll piezo. The position was measured using a wire scan over a 10 hour period. The RMS Deviation was 0.37µm.