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http://www.esrf.fr/UsersAndScience/Experiments/CRG/BM28/

In-vacuum magnet-cryostat

- 4 Tesla superconducting magnet

**KEY FEATURES:**

- 4 Tesla field
- 180-degree slot > large access to reciprocal space
- Cryogen free design > operation in a variety of geometries
- Sub 2 K sample temperature in a ‘warm’ bore
- Developed in collaboration with American Magnetics Inc.

**In-vacuum slits**

- XMaS in-vacuum slit system mounted with the "tube slits" to form a beam collimator

**KEY FEATURES:**

- Minimization of air paths – windowless
- Crystal vibration isolated
- 0-25 - 2525 degrees
- Magnetic field < 0.1 Tesla
- Sample temperature > 50 K

**Motorised x-y-z stage for ARS Cryostats**

- Fits into a standard Huber 410 chi circle
- x, y motions, ±2.2 mm; z, ±3 mm
- All motions oscillatory – no limit switches
- Positional resolution < 1 µm
- Invaluable for 'chasing' the sample during cool-down
- > 180° of chi rotation available

**X-ray beam attenuators**

- No mechanical or electrical feedthroughs
- Position switches on each screen
- Easy access for screen replacement
- Uncompromised vacuum performance

**In-vacuum magnet-cryostat**

The maximum opening aperture is 12mm x 12 mm; jaw positioning < 2 µm.

**In-vacuum slits**

The XMaS in-vacuum slit system consists of the "tube slits" to form a beam collimator.

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