

HTS MAGNETS FOR X-RAY SCATTERING



- Cryogen free
- Large optical access
- Compact design
- Fast ramping
- Low fringe field
- UHV compatibility

APPLICATIONS

- High resolution diffraction
- Non-resonant and resonant magnetic scattering
- X-ray Magnetic Circular Dichroism (XMCD) spectroscopy
- X-ray absorption spectroscopy and imaging

EASY TO USE

- Small fringe field
- No ceiling height constraints
- No refilling constraints
- Vibration tolerant
- Remote location of PSU and compressor if required
- Simple to operate, robust performance
- Magnet monitoring electronics ensure long-term reliability



HTS-110
1B Quadrant Drive, Waiwhetu
Lower Hutt 5010, New Zealand

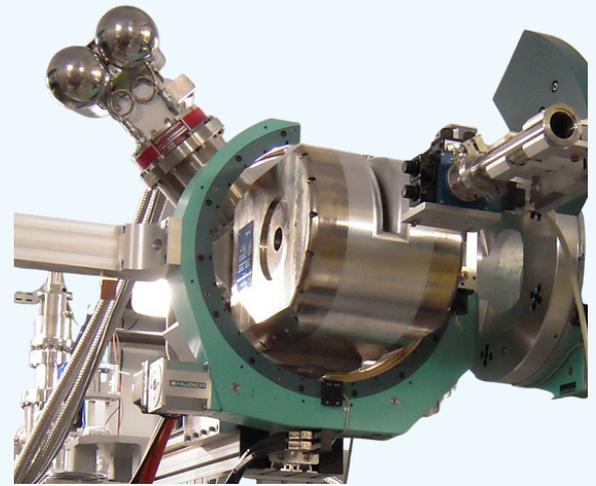
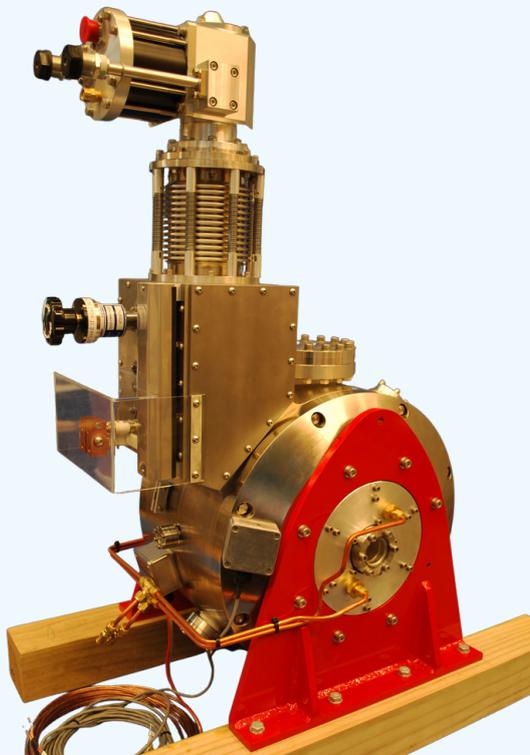
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HTS MAGNETS FOR X-RAY SCATTERING

PERFORMANCE AND VERSATILITY

- Cryogen-free with fast cool down
- Room temperature bore or cold bore which can be integrated with variable sample temperature inserts
- Higher operating temperatures allow faster ramping than conventional Low Temperature Superconducting (LTS) magnets
- Passive shielding to minimize fringe fields
- UHV compatibility
- Rigid supports allow any field orientation
- Large room temperature apertures with no material in x-ray beams to cause scattering background
- With the ability to be goniometer mounted for rotation



STANDARD SYSTEM INCLUDES:

- Magnet sub-system with integrated cryocooler
- Bipolar four-quadrant power supply
- Fast up/down field ramp
- Active magnet protection electronics and energy dump linked to integrated temperature sensors and voltage taps
- 1 year warranty



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