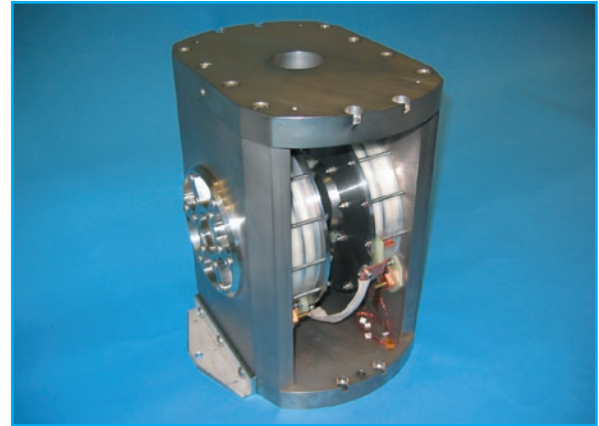


# HTS MAGNET PRODUCT RANGE

## 1 TESLA TRANSVERSE FIELD ELECTROMAGNET

- Peak field > 1 Tesla
- Weight is 55kg
- H-frame cold iron yoke
- HTS coils operating in liquid nitrogen
- Clear bore 43mm
- Uniformity better than 0.1% in 1cm DSV
- Rapid ramping (1T in under 30 seconds)
- 85 amps excitation at 1 Tesla



## 3.5 TESLA VSM MAGNET

- 3.5 Tesla peak field
- Warm iron yoke design
- 13cm pole face, 5cm pole gap
- Variable temperature sample access
- HTS coils conduction cooled, single-stage cryocooler requiring 3kW input power

## SPECIAL PURPOSE MAGNETS

- HTS-110 offers a range of special purpose magnets
- 0.1-1.5 Tesla at 77K
- up to 5 Tesla over a range of bore sizes, cryocooled at 20K or higher

## 5 TESLA SPLIT PAIR

Specifications:

- Inner diameter: 90 mm
- Radial access: 50 mm
- Axial access possible
- Construction: pancake coils, with steel end caps to tailor local field
- Peak field: 5.0 T
- Field uniformity: 0.1% over cylindrical region 20mm long x 20mm dia.
- Operating temp.: 20 K
- Operating current: 250 A
- Ramp rate: < 30s to full field



For more information, please contact

Geoff Todd  
CEO, HTS-110 Ltd  
PO Box 31-310, Lower Hutt, NZ

Phone +64 4 931 3033  
Mobile +64 21 981 396  
Fax +64 4 566 6004  
Email g.todd@hts-110.com  
Website www.hts-110.com

Donald Pooke  
CTO, HTS-110 Ltd  
PO Box 31-310, Lower Hutt, NZ

Phone +64 4 931 3000  
Fax +64 4 931 3117  
Email d.pooke@irl.cri.nz

Japan  
Mr H. Ohkubo  
Suzuki Shokan Co Ltd  
Tokyo

Phone +81 (03) 5970 5569  
Fax +64 (03) 597 05570

South Korea  
Mr Dae-hee Jo  
Seongwoo Instruments Inc  
South Korea

Phone +82 (03) 147 15800  
Fax +82 (03) 147 15115