LM OPTICAL SHORT SOLENOID MAGNETS





- Cryogen-free
- Fast cooldown
- Rapid ramping
- Compact
- Low mass
- Any field orientation
- 1, 2 or 3 tesla as standard

APPLICATIONS

HTS-110's LM range is designed to meet a variety of applications:

- Magneto-optic effect measurements
- Magnetic domain imaging
- Magnetic scattering
- Magnetic circular/linear dichroism
- Hysteresis loop plotting
- Scanning probe microscopy (SPM)
- Electron microscopy
- Hall effect measurements

PERFORMANCE AND VERSATILITY

- Rapid ramping
- Fast cool-down
- Any orientation
- Designed to accept third-party variable temperature sample probe

OPTIONAL POLES

• Customisable range of user-changeable poles for specialist applications, with the option of adjustable pole gaps

EASY TO USE

- Cryogen-free operation; no helium or nitrogen handling, storage, or level monitoring
- No specialist training required to operate
- Single phase electrical input

EASY TO SITE

- Very compact low-profile magnet
- Low fringe field without active shielding
- Magnet power supply and compressor can be sited remotely up to 10 m from magnet



HTS-110 1B Quadrant Drive, Waiwhetu Lower Hutt 5010, New Zealand ☐ +64 4 570 8880
➢ info@hts-110.com



in nz.linkedin.com/company/hts-110

LM OPTICAL SHORT SOLENOID MAGNETS

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 linked to integrated temperature sensors and voltage taps
- 1 year warranty

OPTIONS

- Closed loop field control
- Unipolar supplies available in standard and high stability configurations
- Low-vibration pulse-tube cold head options
- Extended warranty, service plan
- 19" rack
- User changeable external poles



Model	Bore Size (mm)	Peak Field (T)	Height (mm)	Cryostat OD (mm)	Uniformity, 5mm DSV (rms) (%)	Mass (Kg)
LM-40-1T	40	1.4	45	254	0.4	25
LM-40-2T	40	2	55	254	0.3	30
LM-40-3T	40	3	100	254	0.2	45
LM-53-1T	53	1.1	45	254	0.3	25
LM-53-2T	53	2	65	254	0.2	35
LM-53-3T	53	3	120	254	0.15	55
LM-80-1T	80	1	55	254	0.2	30
LM-80-2T	80	2	100	254	0.15	40
LM-80-3T	80	3	160	254	0.05	65
Maximum operating current				125 A		

For bare High Temperature Superconducting (HTS) coil assemblies please contact us.



HTS-110 1B Quadrant Drive, Waiwhetu Lower Hutt 5010, New Zealand +64 4 570 8880

 \Box

🞽 info@hts-110.com



in nz.linkedin.com/company/hts-110