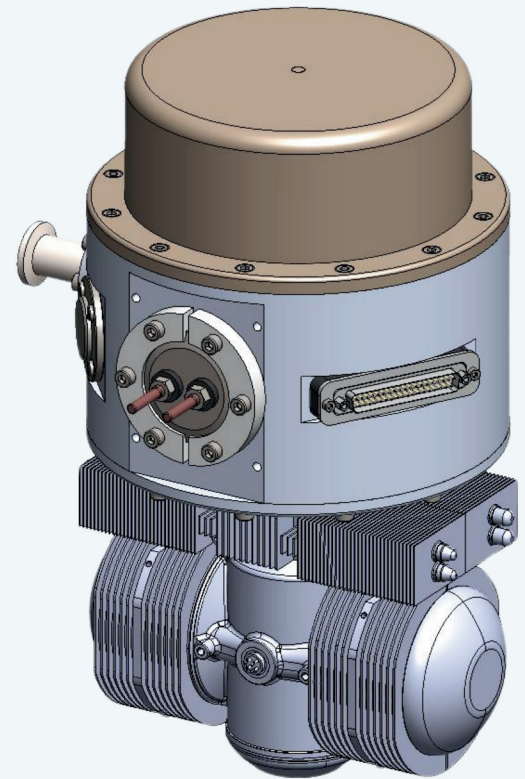


# 2T PROJECTED FIELD SUPERCONDUCTING MAGNET

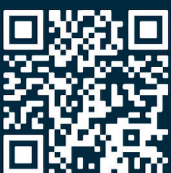
- Compact
- Cryogen free
- Fast ramping
- Excellent sample access
- Low power consumption
- Easy maintenance



Peak field ( at 2 mm above the top surface) (T)	>2.0
Maximum current (A)	70
Magnet inductance (H)	0.2
Ramping time (min)	<1
Rated input power for cooling (W)	<400
Dimensions (mm)	250x230x350
Weight (kg)	15

## Applications

- Magnetic probing systems
- Scanning Probe Microscope (SPM)
- Scanning Tunnelling Microscope (STM)
- Atomic Force Microscope (AFM)
- Magnetic Force Microscope (MFM)
- Magneto-optic measurement
- Hall effect measurement
- MRAM testing



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**HTS-110**

# 2T PROJECTED FIELD HTS MAGNET

## DESCRIPTION AND BENEFITS

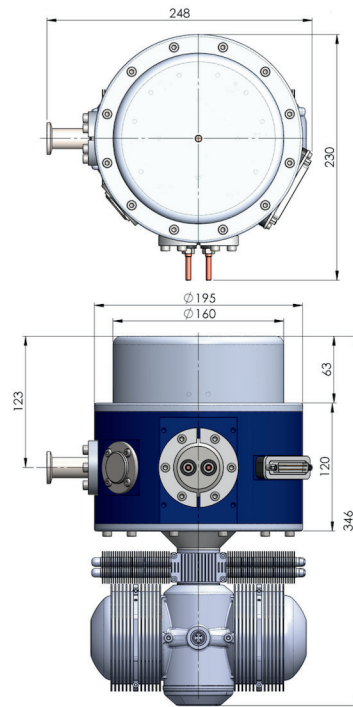
- Projected field magnet offering complete hemispherical access to the sample zone
- HTS coil cooled with a self-contained Stirling-type miniature cryocooler
- Cryocooler power input less than 400 W
- Low vibration
- Maintenance-free
- Operates in any orientation

## 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

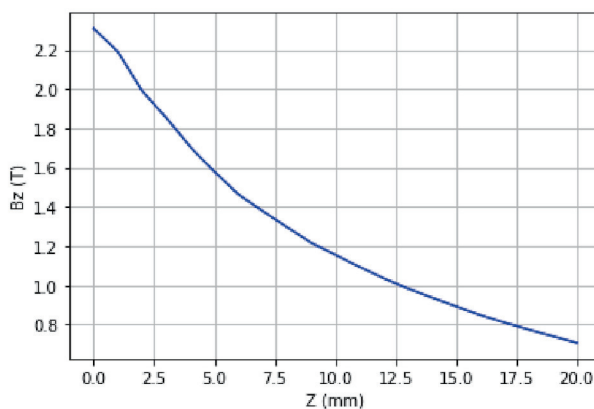
## EASY TO SITE

- Very compact magnet
- Magnet power supply and monitoring electronics can be sited remotely, up to 10 m from magnet

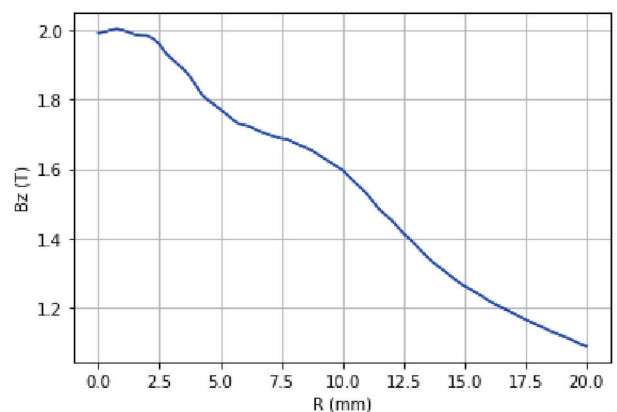


## STANDARD SYSTEM INCLUDES

- 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



Field profile above the top surface in the axial direction



Field profile at 2 mm above the top surface in the radial direction



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