



TAPESTAR™ XL-HF

Fast reel-to-reel, high-resolution, critical current measurement of superconducting tape (1G or 2G HTS tape)

- High magnetic field up to 1 T
- Contactless technique at liquid nitrogen temperature
- Integrated Dewar in closed cabinet configuration
- Tape heater to avoid moisture condensation
- Industrial tape drive with tension and speed control
- PLC based control electronics, integrated industrial PC
- User interface: keyboard and touch screen

Technical specifications

Tape drive	
Transfer speed	0 – 750 m/h
Measurement speed	0 – 200 m/h
Tape tension	5 – 30 N
Tape guiding	front side and back side
Min. bending diameter	100 mm
Storage coil dimensions and mounting	
Max. coil outer diameter	800 mm
Min. coil inner diameter	200 mm
Max. tape weight	50 kg
Hub diameter (adaptable to customer's specs)	76 mm
Max. core width	20 mm
HTS tape specs	
Max. thickness	200 µm
Max. width	12 mm
Critical current measurement range	50 – 1000 A
Other specifications upon request	
Measurement specs	
Measurement specs Number of sensors across 12 mm	21
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