



3D ROTATOR SYSTEM

- 3D Sphere Rotation (Closed loop);
- 16pin ETO¹ Measurement;
- Independent Temperature Control;

www.multi-field.com

3D-Rotator System, Specification

Full 3D Sphere rotation system, with electric transport measurement and temperature controller modular.

Work Environments	designed for He exchange gas systems to keep sample cool
Sensor Specification	2 rotation axis (theta & phi) with resistance encoder
Travel Range	Full 3D sphere, with 360° for both theta & phi axis
Materials	Pure Ti & BeCu PZT Ceramic Twisted Copper Wires (20cm)
Step Size	1m° - theta & phi
Sensor Resolution	10 m° - theta & phi
Repeatability	~50 m° - theta & phi
Linearity	~1%
Sample Holder	LCC 20, LCC 28, PCB; 16 twisted wires max.
Temperature Range	1.5 K~350 K
Magnetic Field Range	Max. 18T (Tested)
Compatible Cryostats	All cryostats with 49mm (or above) bore size
Rotator Controller & Software	MFP6 controller
Temperature Sensor	Cernox 1050 (Calibrated)
Heater	50 omga, 100 W (max. Power)
Temperature Controller	MultiFields Technologies product, Kelvinion; or any other commercial controller.
Electric Connectors	Mini-DSub 09~Temperature Control; Mini-DSub 15~Rotator Control & Sensors; Mini-DSub 21~Electric Transport Measurement;
Schematic	
options	