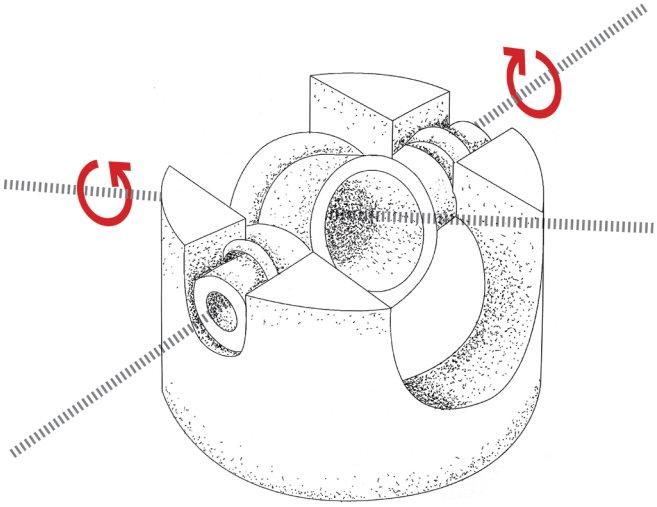
ROTAX

MECHANICAL TWO-AXIS ROTATOR

Rotation without limits

ROTAX – the perfect spin
for your measurement.



Full 3D sphere angle-dependent measurements

Contact

rotax@hzdri.de
www.hzdr-innovation.de

HZDR Innovation GmbH
Bautzner Landstraße 400
01328 Dresden, Germany

Developed by HZDR HELMHOLTZ ZENTRUM DRESDEN ROSSENDORF

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FUTURE TECHNOLOGIES


Stefan Findeisen and Dr. Hannes Kühne

Exact positioning
Precise measurements
Excellent results

Technical Product Specifications

CHARACTERISTICS	ROTAX R28
Diameter	27.5 mm
Overall length	43.0 mm
Baseplate to center	35.0 mm
Angular range	both axes 360°+ without limitation
Angular resolution	0.01° typically
Repeatability	1°
Materials	all PEEK (R28-P) or all brass (R28-B), other user-specific materials on request
Sample holder	Latching plate for convenient pre-experimental preparation
Latching plate (LxWxH)	9.0 mm 6.5 mm 2.0 mm
Temperature range	10 mK ... 370 K
Magnetic field range	no limitation
Drive	two mechanical drive rods
Suitable cryosystems	can be used in most standard cryomagnetic systems, requires two vacuum-tight feed-throughs for drive rods with line-of-sight access
Experimental methods	electrical / thermal transport, specific-heat, susceptibility, NMR, ultrasound, quantum oscillations, dilatometry, ...

Perform fully automatable 3D measurements of angle-dependent properties of solid-state materials at low temperatures, high magnetic fields and small sample space.

Highlights

- Two orthogonal 360°+ rotations
- 28 mm ∅ sample space
- 0.01° angular resolution
- Non-magnetic material (PEEK)

Advantages

- Automate your measurements
- Maximize your data acquisition
- Get a budget-friendly solution