# Rotor Tester

- Determination of multipolar magnetized permanent magnet rotors
- Testing of field strength distribution
- Variable adjustment for rotors with different overall size
- Variable number of hall sensors
- Customized design
- Software with numerous statistical functions
- Display of field distribution, peak value, zero crossover, total flux for each pole
- Integration of measured data into QM systems

## Operating Principle

The rotor tester system determines the symmetry of multipolar magnetized DC permanent magnet rotors.

The measuring system measures the magnetic field strength over the surface of a rotating rotor and determines the distribution of the field, its peak values, zero crossovers and their distance, as well as the total flux of each pole. Depending on these values the symmetry of the magnetization can be calculated.

The measuring system consists of the following components: Mechanics equipped with drive for the admission and turn of the rotors, measuring sensor system with hall sensors, Gaussmeter for field strength measurement , software package ROT-EXPERT, PC interface for the data acquisition and control of the measuring procedure.

Dr. Brockhaus Messtechnik GmbH & Co. KG
Gustav-Adolf-Str 4 - D–58507 Lüdenscheid
Germany

Phone: +49 (0) 2351 3644-0
Fax: +49 (0) 2351 3644-44
measurements@brockhaus.com

WWW.BROCKHAUS.COM

| | | |
|---|---|---|
| **Technical Data** | **:** | **Rotor Tester** |
| Test Fixture | : | Mechanics with drive to accommodate rotors of different size |
| Probe carrier | : | Hall sensor (s) with variable carrier system for different sizes |
| Field Meter | : | Measuring range 1-1000 mT, 3 inputs, analog output ± 10 V |
| PC interface | : | PCI card, 12-bit D / A converter, 4 analog inputs, 2 analog outputs, 16 digital I / O |
| Software | : | RED-EXPERT on Windows |
| Power supply | : | 230 V, 50 - 60 Hz |

Dr. Brockhaus Messtechnik GmbH & Co. KG
Gustav-Adolf-Str 4 - D–58507 Lüdenscheid
Germany

Phone: +49 (0) 2351 3644-0
Fax: +49 (0) 2351 3644-44
measurements@brockhaus.com

WWW.BROCKHAUS.COM