

The quality wall in your line

Measurement Rack Unit

The array measurement technology as a 19" rack unit, for integration into your own production line.

Sort out parts with poor magnetic properties early, before they are installed and cause performance issues or NVH anomalies. Avoid costly field returns.



At a glance

- ✓ Cycle time: 8 s – 15 s
- ✓ Automatic pass/fail evaluation
- ✓ Magnetic imbalance analysis for each individual pole
- ✓ Fault localization even in multilayer embedded magnet structures
- ✓ Designed for cycle-time-optimized series production
- ✓ 19" rack unit
- ✓ Software setup and machine interface via PROFINET®
- ✓ Multi-rotor design measurement (array length = max. part length)

Specifications

Technical details

- Custom sensor array with up to 60 sensors
- Variable active length
- Automatic deactivation of unused sensors
- Measurement range: $\pm 0.5 / 1 / 2$ T
- Vertical resolution: 24-bit quantization interval
- Rotor axis resolution: 5.5 arc seconds
- Linear measurement resolution: 50 nm
- Rotation speed: 10 variable speed settings from 30°/s to 500°/s
- Rotor temperature range: 20 °C – 55 °C
- Automatic test plan selection via serial number scan
- Storage of an unlimited number of rotor profiles
- Measurement of rotor shaft magnetization and its influence on resolvers
- Variable air gap
- PROFINET® and UDP interfaces
- Magnetic field sensor for capturing the radial magnetic field component

Data processing

- 3D visualization of the magnetic field
- Automatic measurement report generation
- Database connectivity possible
- Trend analysis across multiple measurements
- Automatic data archiving

Optional features

- Programmable external excitation in various current and voltage modes
- Automatic and interchangeable slip-ring contacting for different rotor variants
- Minimal specimen heating due to short cycle time
- Recording of current/voltage and temperature profiles
- Four-wire resistance measurement
- Temperature monitoring

Connections



Rear panel: PROFINET® and UDP interfaces; temperature sensor option; sensor connections Hall 1 and Hall 2.

Get in touch

Koob Testsystems GmbH

Am Weinberg 5, 98631 Grabfeld, Germany

+49 (0) 36944/54800 · info@koob-testsystems.de

www.koob-testsystems.com

Subject to technical changes. Specifications depend on the configuration;
the values in our quotation are binding.