Our motivation ...

Our ideas motivate us and inspire team spirit. We strive for continuous improvement and aspire to be **best in class** for:

- Test rigs and measuring equipment
- Test methods and precision
- Customer satisfaction and trust

... to convince you!

Our many years of experience enable us to integrate international standards as well as your own individual requirements into test methods in order to develop **reliable and sustainable products**.

Knorr-Bremse Systeme für Schienenfahrzeuge GmbH Moosacher Straße 80 D-80809 Munich Tel: +49 89 3547-0 www.knorr-bremse.com



BOGIE EQUIPMENT TESTING

ACTUATOR, BRAKE DISC AND BRAKE PAD TESTING COMPETENT AND INNOVATIVE







Our expertise ...

We **examine and assess** actuators, brake discs and brake pads through **realistic** simulations:

- Individual route profile simulations and operating conditions
- Environment, climate and temperature simulations
- Simulation of emergency / overload situations
- Shock and vibration
- Strength, durability, LCC

Our mission ...

Continuous dialogue with the customer and competent analysis ensure that individual product and project requirements are taken into account in product development and validation:

- Approval and certification tests (UIC, CRCC, GOST, AAR)
- Country-specific product validation
- Verification and further development of
 Thermal calculations
 FEM simulations
- Field experience / field analysis

Our test rigs ...

We offer extensive **state-of-the-art testing and analysis facilities** for examining **function, reliability, fatigue strength and quality** of brake components and braking systems.

- Modular electrohydraulic test bay
- Electrodynamic and mechanical shaker
- Inertia friction dynamometers
- Climatic and temperature chambers
- Kinematic test rigs
- Various special test rigs

... identifying risks

... guaranteeing safety

... simulating reality



