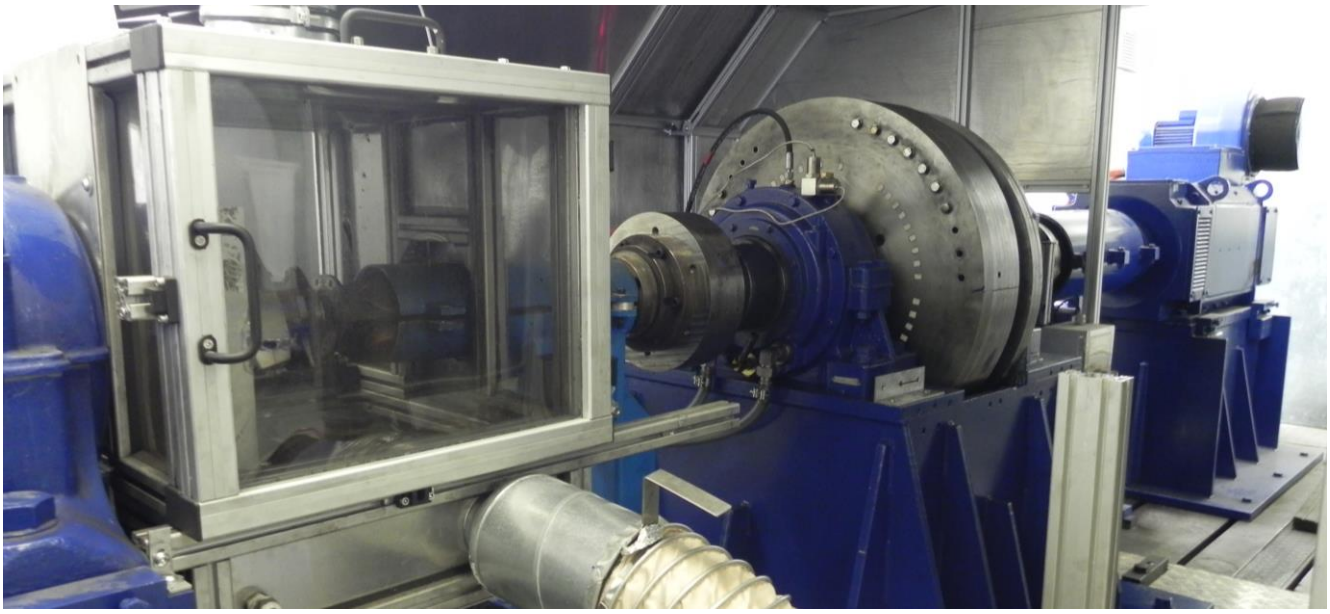
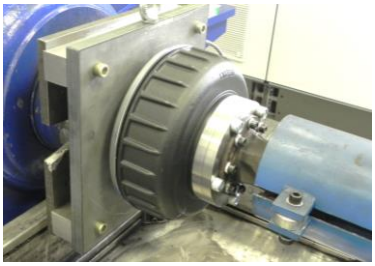
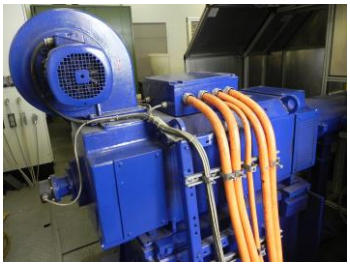
Brake Test Rig







Fields of use

- Fatique and wear testing
- Emergency Braking
- Investigation of cool down processes
- Untersuchung der Reibpaarungen
- Investigation of the friction pairings
- Parking brake tests

Technical Data

Motor

400 V
250 kW
Up to 2000 1/min

Brake pressure

Controlled up to 160 bar

Inertia

43 to 90 kgm² (adaptable and expandable by means of momentum simulation with electric motor)

Specimens

- All vehicle disc and drum brakes

Features

Drive torque control

momentum simulation

Location

George – Bähr – Straße 1b, 01069 Dresden

Measuring devices and measurement variables

Load cells:

- Braking torque

Electric engine:

- Engine torque
- Engine speed

pressure sensor

- Brake pressure

Speed-pulse generator

- Number of revolutions

Infrared thermometers / thermocouples

- Temperature of the disc and/or caliper

Capacitive displacement measurement

- Deformation of the brake disc

Actuating variables

- Brake pressure (controlled, function-based)
- RPM (Velocity)
- Motor torque (function-based)
- Moment of inertia

Available connections in the test room

- Electrical connection 16 A (32 A if required)
- Compressed air 10 bar
- Blower with exhaust system and filter
- Air conditioning