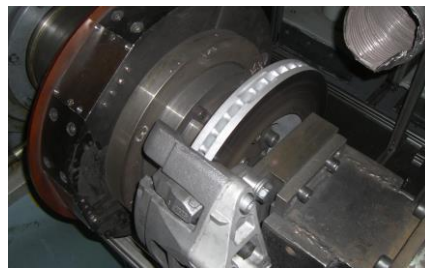
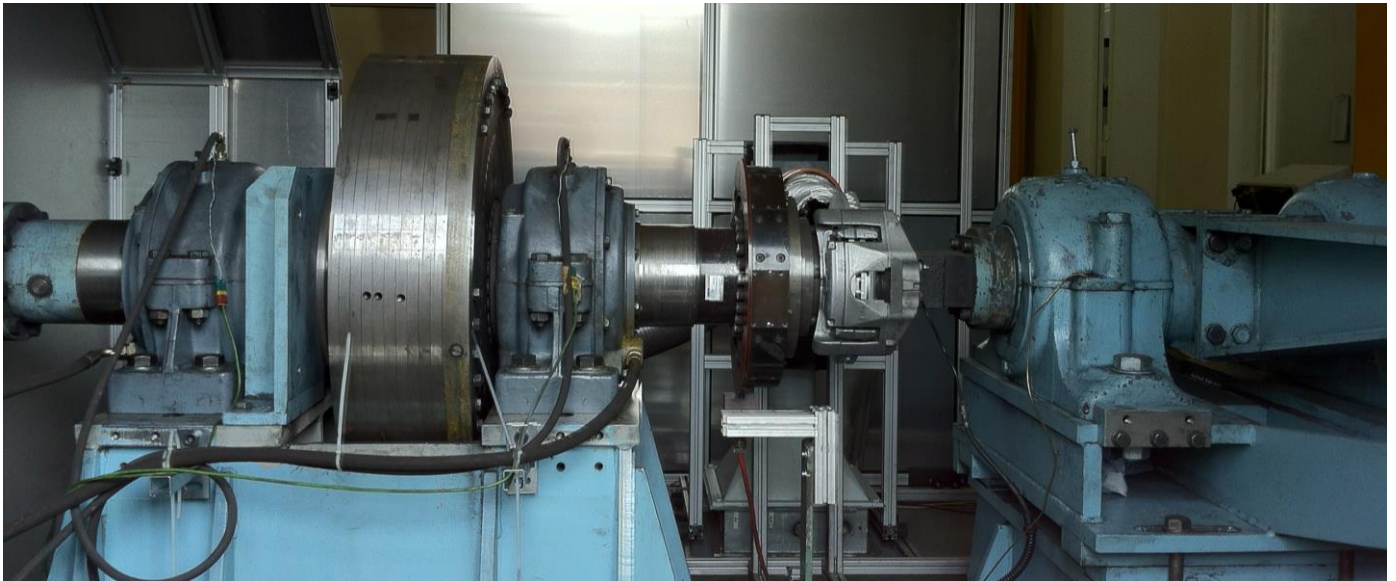


# Brake Test Rig



## Fields of use

- Fatigue 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 kgm<sup>2</sup> (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 1c, 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 / piezoelectric elements

- 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