

# Automotive Engineering

## 1. Testing Facilities (Components)



### Steering Test Stand

The test rig allows static and dynamic simulation of stress scenarios for steering assistance and actuation systems as well as power and efficiency measurements.

#### Specifications:

- Force and travel control (maximum force 18 kN, maximum travel distance 200 mm, maximum speed 385 mm / s)
- Analysis of the overall system and components
- Implementation of the test object as passive or active system
- On-board network simulation by programmable power supply
- Potential implementation of a steering column



### Brake Lining Compression and Shear Test Stand

Combined testing device for compressive and shearing tests on friction linings

#### Compression Test ISO 6310

- Performing cold and hot tests (400 °C)
- Pressure or force controlled
- Load speed: 4 kN/s or 80 bar/s
- Preload: 5 bar
- Maximum load: 160 bar

#### Shear Test ISO 6312

- Cold as well as hot tests (300 °C)
- Force or travel controlled
- Load speed: 4.5 kN/s or 10 mm/min
- Preload: 5 bar
- Maximum force: 200 kN

