Automotive Engineering 1. Testing Facilities (System)



Testing Center for Suspension and Brake Systems

Testing center used for interdisciplinary research tasks with regard to driving safety, driving comfort and environmental protection.

- Simulation of heavy vehicles (transporters)
- High performance testing and comfort analysis (NVH)
- Investigations on braking systems, chassis components and complete axles

Specifications:

- Revs: nmax = 2500 min⁻¹
- Speed: vmax = 310 km/h
- Momentum: Mmax= 2300 Nm (bis ca. 1100 min⁻¹)
- Inertia: Imax = 191 kgm²
- Air conditioning: Qmax= 4200 m³/h -20 bis +50 °C; 15-85% rel. Feuchte





Drive Train Test Centre

The drive train test centre allows interdisciplinary research tasks on vehicle components of conventional and alternative drive concepts with regard to efficiency, environmental compatibility and comfort properties.

3-machine operation:	Axle drives, Drive train: Crankshaft, side shaft Transmission
2-maschine-operation:	Manual and automatic transmission
1-Maschinen-Betrieb:	Internal combustion engines Electric engines Brake components





Thüringer Innovationszentrum **MOBILITÄT**

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