

Automotive Engineering

1. Testing Facilities (Components)



Friction Test Stand / Flywheel Brake Dynamometer

The inertia test bench is used as an experimental environment for the determination of friction coefficients as well as a brake performance test stand for standardized brake tests.

- AK master tests
- SBWT Test (Short Bosh Wear test)
- Noise analysis (NVH)
- Denver test
- Cracking test
- NEXT test

Specifications:

- Speed: $n_{max} = 2000 \text{ min}^{-1}$
- Speed: $v_{max} = 250 \text{ km / h}$
- Drive: $M_{max} = 2000 \text{ Nm}$
- Moment of inertia: $I_{max} = 106.7 \text{ kgm}^2$



Friction Test System for Shock Absorbers

Galdabini Quasar 5

Machine for tensile and compression tests for the material characterization of elastomers, which has been specially developed for friction measurements in automotive shock absorbers.

Specifications:

- Standard measuring equipment: force sensor + extensometer
- Additional force, pressure and differential pressure sensors Additional attachments for introducing lateral forces into the damper



Source: Galdabini