









The NVH Test Rig is used to measure the forces and structure born noise generated or transmitted by automotive drive shafts.

The rig can be used to simulate the following operating conditions:

- Axial force measurement with Piezo force sensors
- Torque loading applied to the test shaft
- Shaft rotation
- Articulation of fixed joint and plunge joint
- Axial displacement of plunge joint
- High frequency axial excitation of the test shaft with a hydraulic shaker



Axial excitation



Force measurement

Technical data

Speed	Nominal rotational speed ± 2000 rpm
Torque	Loading torque ± 2000 Nm max. power 200 kW
Plunge Joint Axial Positioning	Displacement: ± 50 mm max. frequency: ± 10 mm/1 Hz
Fixed Joint Positioning	Angle articulation range -5 to +55 deg. max. articulation rate 20 deg./s Linear displacement range -50 to +250 mm Linear displacement rate (average) 100 mm/s
Axial Excitation	Nominal range ± 5 mm max. frequency 100 Hz max. axial force (plunge force) ± 5000 N