

Dynamic Wheel Hub Test System

Sincotec Bauteil-Prüftechnik GmbH
Freiberger Straße 13
- Innovationspark Tannenhöhe -
D-38678 Clausthal-Zellerfeld

Phone: +49 (0)5323 96 92 0
Fax: +49 (0)5323 82 08 1
e-mail: info@sincotec.de
Internet: <http://www.sincotec.de>



Accreditation according to DIN EN ISO/IEC 17025 through DAP Deutsches Akkreditierungssystem Prüfwesen GmbH for test laboratories. The accreditation is valid for the mentioned test methods in the certificate.

- Resonance Test Technology
- Servo Hydraulic
- Servo Pneumatic
- Internal Pressure Test Technology
- Custom-built Test Systems
- Metrology
- Uncoupling Foundations
- Accessories

Dynamic Wheel Hub Test System

For the examination / testing of complete passenger car wheel bearings -, wheel flange units and knuckle bearing units Sincotec developed a rotating bending test system, with which the wheel contact forces and the side-loads can be simulated operating near while the wheel is driven with an original drive-shaft.

The test equipment is characterised by a compact design and a high variability. The rotation is applied by means of the modified drive-shaft on the original wheel, which also includes the fixture for the load introduction.

The stresses are applied alternatively with two servo pneumatic or servo hydraulic actuators with an integrated uncoupling system. You can use the system for road-signal tests or with a block program. Therefore it is possible to set the speed of the drive shaft, the wheel contact force and the side-load.

For the controlling of the test system Sincotec developed an own software program. To control the actuators the Sincotec controller type "EXCITING AIR" or "EXCITING FLOW" are used, depending on the used actuators.

Max. Speed	2000 1/min
Wheel Contact Force F_z	max. \pm 25 kN
Side Load F_y	max. \pm 25 kN
Controller	EXCITING AIR or EXCITING FLOW controller with LabView Software
Weight	approx. 2.700 kg
Dimensions [W´H´D]	3.255 × 1.340 × 3.895 mm
Further Characteristics	Execution of block program and alternating load tests

- Resonance Test Technology
- Servo Hydraulic
- Servo Pneumatic
- Internal Pressure Test Technology
- **Custom-built Test Systems**
- Metrology
- Uncoupling Foundations
- Accessories

Dynamic Wheel Hub Test System



- Resonance Test Technology
- Servo Hydraulic
- Servo Pneumatic
- Internal Pressure Test Technology
- **Custom-built Test Systems**
- Metrology
- Uncoupling Foundations
- Accessories