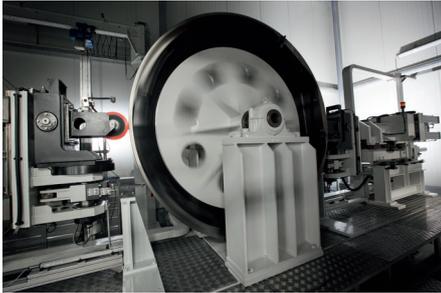


Technical Information

WHEEL AND CASTOR TEST RIG



In order to continuously optimise our inspection and test capacities, we use a drum test rig for wheels and castors.

The test rig enables the performance of dynamic inspections in accordance with DIN EN 12527, 12530, 12531, 12532 and, 12533 on wheels up to a maximum diameter of 500 mm (16.69 in), and a maximum width of 300 mm (11.81 in).

Technical features

drum diameter 2.200 mm

test speeds of 2 km/h – 30 km/h (1.24 mph – 18.64 mph)

running forward and backward

testing with and without thresholds up to a test load of 70 kN

parallel testing of two wheels on two opposite, individually controllable stations

simulations of steering motions and axle inclinations of $\pm 10^\circ$ under load during the test run

All test options are controlled, monitored and evaluated by computer. During the test procedure all relevant values such as load, speed, deflection, rolling resistance, tread, and core temperature of the wheel are recorded to provide a detailed evaluation.

Further options:

- Endurance tests in 24-hour operation
- Load increase tests to determine max. load capacity, failure behaviour etc.
- Individually programmable trial runs according to the field of application
- Changes to the test parameters (speed, load, inclination, and angle of steering lock) during operation.

The rig was commissioned in December 2004.