x-wheel truck *d*

The chassis geometry measurement for trucks and buses

With the x-wheel truck *d* Dürr Assembly Products has newly defined the chassis geometry measurement with innovative x-3Dsurface measuring system. The test stand is designed for truck and bus production with large complexity.

Due to the optimum cost-performance-ratio of the x-wheel truck *d* the test stand is ideally suited for the chassis geometry measurement in the end-of-line area and other vehicle production with high quality requirements.

The test stand fulfills the manufacturer-specific requirements related to measuring accuracy, reproducibility and setting regulations.

CUSTOMER BENEFITS

Precise area-based 3D measurement technology

Wheel runout compensation

Flexibility for different vehicle mix

Modular design

Easy to maintain

Highest process and production safety

Minimal risk of damage to vehicle and test stand

Technical data

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TASKS

- Setting of the horizontal steering wheel position when driving straight ahead
- Setting of parallelism of several steerable axles when driving straight ahead
- Quality control of the chassis geometry values
- Optional setting of headlamps, distance sensor (ACC) and lane departure warning (LDW)

MEASURING POSSIBILITIES

- Individual and total toe angle at all axles
- Camber angle at all axles
- Driving direction of all axles
- Steering wheel angle

CYCLE TIMES

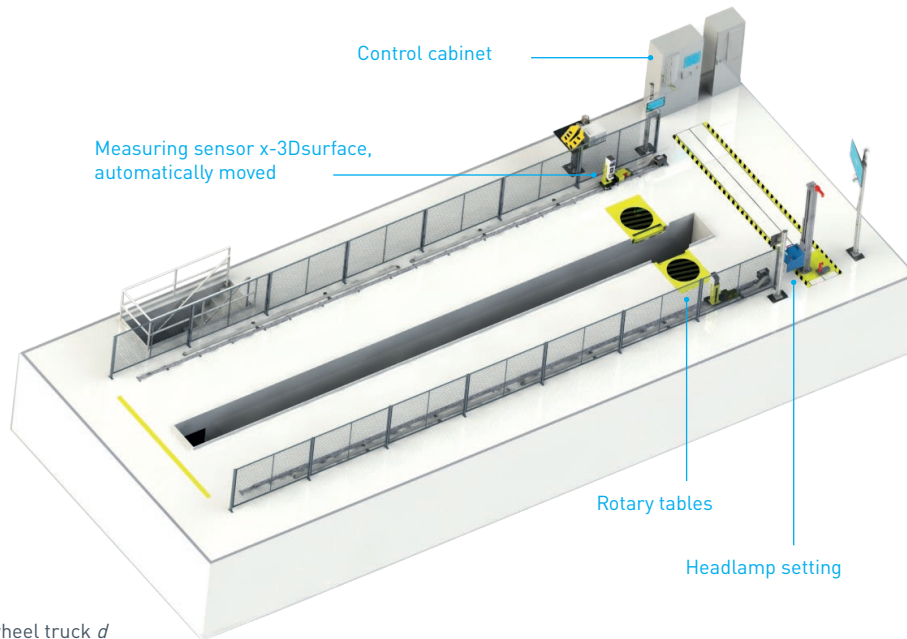< 3 minutes with an availability of > 98% (2-axle-vehicle without setting times). For each further axle we require approximately 1 minute.

The chassis geometry is measured in 2 different vehicle positions for the compensation of the wheel runout.

MEASURING AND SETTING SEQUENCE

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1. Drive on

2. Measure chassis in measuring position A

3. Measure chassis in measuring position B

4. Set chassis geometry

5. End

- Control cabinet
- Measuring sensor x-3Dsurface, automatically moved
- Rotary tables
- Headlamp setting

Layout x-wheel truck *d*

TECHNICAL DATA	
Wheelbase range	2.300 mm to 9.000 mm, can be expanded on request
Tyre diameter	800 - 1.250 mm
Toe accuracy	< 2' (master gauge)
Camber accuracy	< 6' (master gauge)

NEXT.assembly