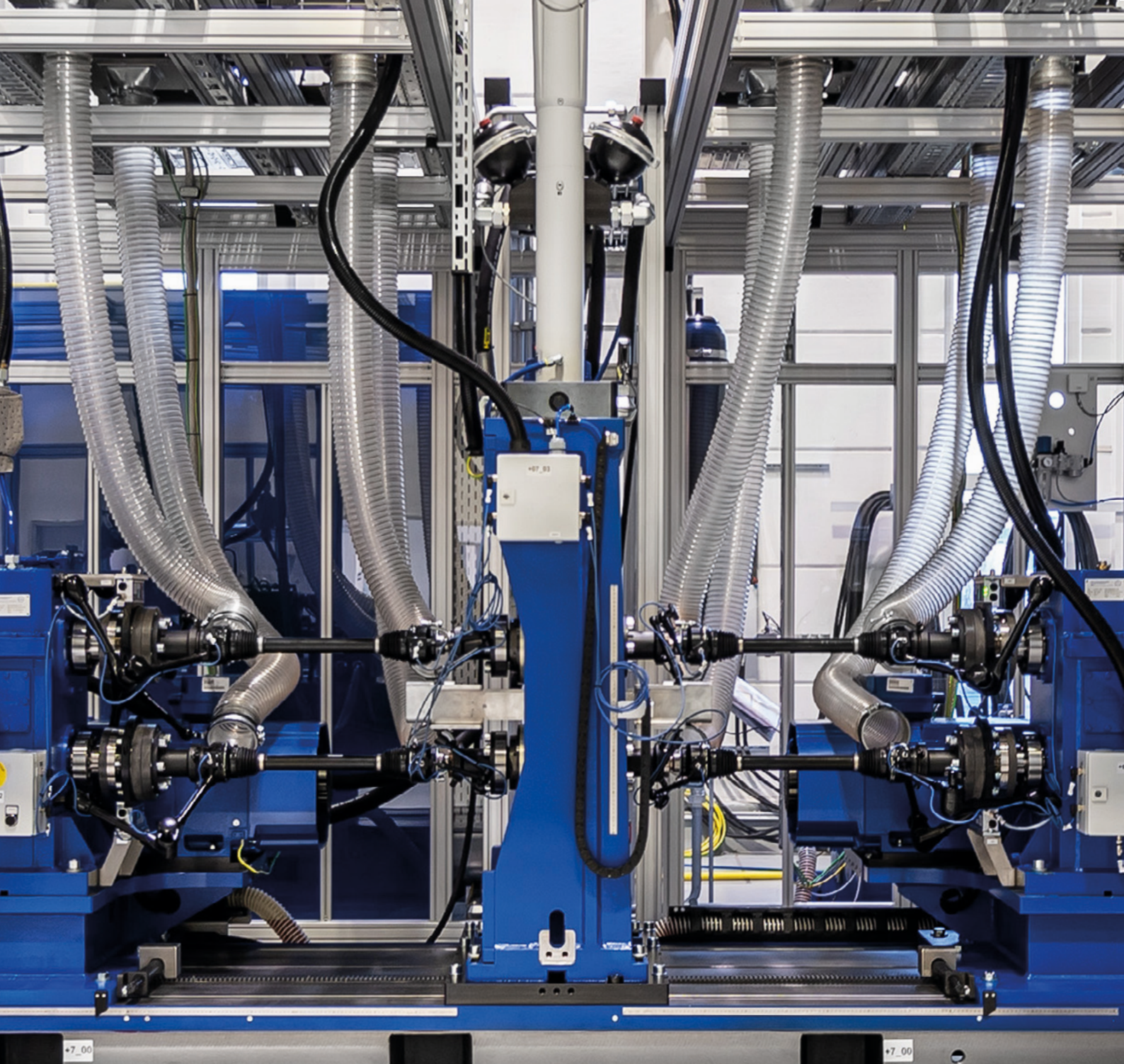




4-SQUARE ENDURANCE TEST RIG WITH REAL-TIME SIMULATION

FOR DRIVE SHAFTS

BLUM
NOVOTEST



4-SQUARE ENDURANCE TEST RIG WITH REAL-TIME SIMULATION FOR DRIVE SHAFTS



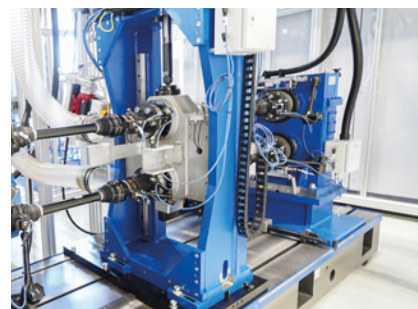
With the test rig the following parameters are measured and controlled: speed, torque, jounce, steering angle. Four shafts are simultaneously tested in a closed loop, with multi-block programmes. All safety related queries like joint temperature, lubricating oil system, comparison of set and true values, emergency facilities, grease leakage, etc. are used for the test and the test is stopped automatically after a fault is detected. Simulation of the road load data can be carried out in real time.

Technical data

Length of the drive shaft	400 mm - 1000 mm
Torque	± 4000 Nm
Rotational Speed	± 2500 rpm
Jounce	± 200 mm
Grease leakage detection	optional
Air flow simulation	8 fans controlled
Joint temperature measurement	8 sensors
Transmission cooling and lubrication by lubrication unit	



Air flow simulation and temperature measurement



Actuator for simulation of jounce