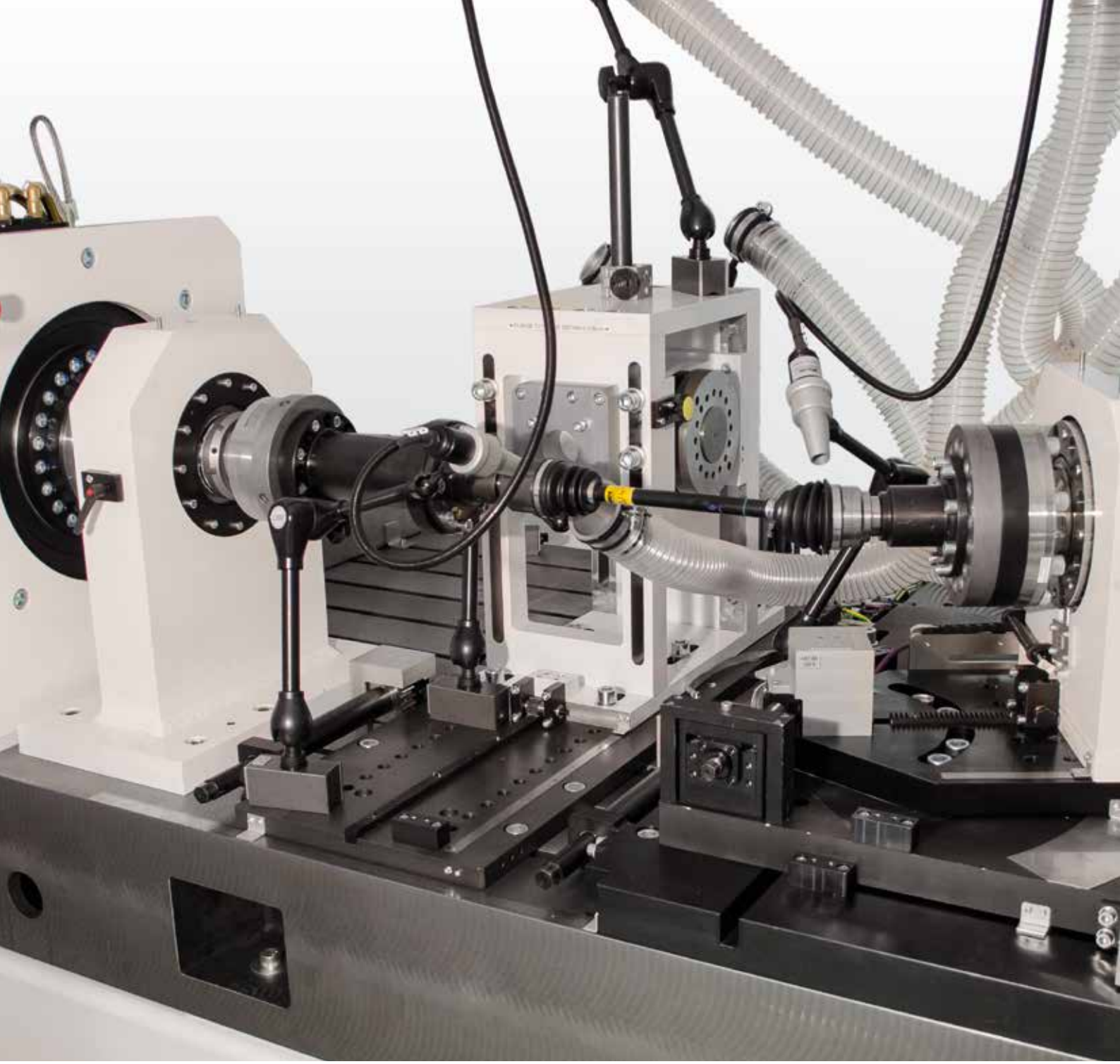


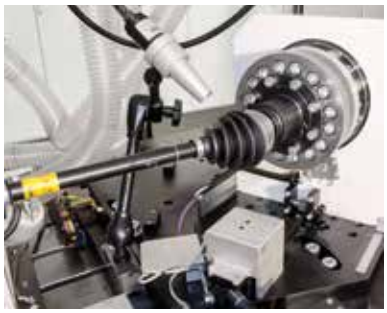
TORSIONAL FATIGUE TEST RIG
FOR DRIVE SHAFTS

BLUM
NOVOTEST

TORSIONAL FATIGUE TEST RIG
FOR DRIVE SHAFTS

This test rig is used for torsional fatigue and static strength tests of drive shafts. The tests are carried out under variable loads and adjustable test setups, in order to achieve a required number of cycles. Switch-off criteria are either the attainment of defined torsion angle or the breaking of the test specimen.

Drive unit



Bending unit with torque cell

Features:

– Torque unit with torque motor
– Center bearing for the simultaneous testing of two specimen, with height adjustment and transverse displacement
– Bending unit with torque cell for testing under articulated angle and jounce displacement
– Pyrometer for recording of specimen temperatures
– Fans for air flow simulation

Technical data

Motor speed	200 rpm
Static torque	± 5000 Nm
Dynamic torque	± 7000 Nm at 5 Hz
Max. dynamic angle	± 25° at 5 Hz, ± 45° at 2.5 Hz
Transverse displacement (center bearing)	0 - 400 mm
Articulation angle at bending unit	0 - 60°
Jounce displacement at bending unit	0 - 400 mm