



QUASI-STATIC BREAKING LOAD TEST STAND
FOR DRIVE SHAFTS

BLUM
NOVOTEST



QUASI-STATIC BREAKING LOAD TEST STAND FOR DRIVE SHAFTS



The test stand is used to determine the break resistance of constant velocity drive shafts. Two opposite parallel shaft transmissions are connected by the test specimen and a slave shaft. In this load circuit system the torque is introduced by a speed modulation gearbox. The length of the slave shaft is adjustable according to the length of the drive shaft.

Features:

- 1 Gearbox adjustable in longitudinal direction
- 1 Gearbox rotatable vertically and adjustable in the longitudinal direction
- Fans for cooling of the joints
- Non-contact temperature measurement of the joints
- Selectable torque or torsional speed control
- Determination of the transmission efficiency
- Determination of the twist angle



Test specimen and slave shaft in process

Technical data

Speed of the test specimen	± 60 rpm
Torque of the test specimen	10000 Nm
Torsional speed	$0^\circ - 120^\circ/\text{min}$
Resolution of torsional angle measurement	$\pm 0.05^\circ$
Articulation of bending angle	-5° until $+60^\circ$
Vertical adjustment	0 - 400 mm
Length of the drive shaft	350 - 1400 mm



Cooling of the joints and non-contact temperature measurement