HOT/COLD BOOT TEST STAND

BLUM
NOVOTEST

HOT/COLD BOOT TEST STAND

This climatic chamber is used to perform endurance tests of boots under the following test conditions:

– Cooling – heating
– Rotation
– Deflection angle β1 and β2
– Axial excitation

A maximum of four drive shafts can be tested simultaneously. Each boot is monitored for signs of grease leakage. In the event of damage/wear, only the affected line is switched off. All other test procedures remain unaffected.

Hot/cold boot test stand

Endurance test in process

Grease leakage detection

Technical Data Test Bench

Main dimensions	H = 2700 mm, W = 2000 mm, D = 2700 mm
Test shaft speed	0 - 2500 rpm
Test temperature range	-40 °C to +150 °C
Number of test shafts	4
Side shaft length	250 to 630 mm between the joint centre points
Pivot point clearance	40 to 150 mm from the flange face
Overall shaft length	from flange to flange max. 800 mm
Weight of the test bench	approx. 4000 kg

Calibration/Tolerances

Bending angle β1 and β2	0 to 55° | 0.5°
Chamber temperature	-40 °C to +150 °C | 2 °C
Speed	0.1% of the et rminal value (n max= 2500 rpm)*

** During normal operation i.e. no load surges*

Technical Data Climatic Chamber (Modified Standard Product)

Chamber dimensions	H = 950 mm, W = 1100 mm, D = 950 mm
Temperature range	-40 °C to +150 °C
Max. temperature fluctuations (temporal)	± 2 K
Max. temperature distribution (spatial)	± 2 K
Rate of temperature change	cooling: 2 K/min | heating: 2 K/min
Temperature gradient	2 K as per EN 60068-3-5**
Connected load	27 kW
Weight of chamber	approx. 1100 kg
Inspection glass	H = approx. 600 mm | W= approx. 500 mm
Chamber pressure	Ambient pressure

*** These values apply for an external air temperature of 25 °C*