

**SE100**

TEST STAND FOR MOTOR SPINDLES

**BLUM**  
**NOVOTEST**

**Universal Test Stand for Motor Spindles**

The innovative system enables both spindle infeed and fully automatic testing and evaluation of spindle quality. It is able to perform typical test cycles like speed, temperature, vibrations of bearings as well as coolant temperature and flow rate. In particular for spindle development and testing under load conditions, Blum-Novotest is offering another solution with the SL100 spindle test stand.

**Your benefit:**

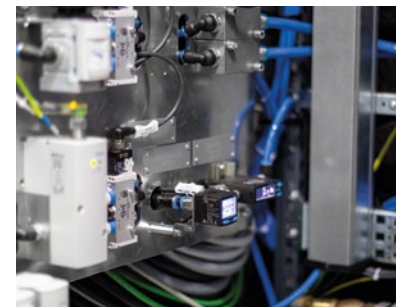
- Avoidance of costly warranty and service calls by ensuring product quality before installation or delivery (functional test bench for quality assurance)
- Ready-to-install motor spindle, as monitored bearing infeed process is possible as part of the test sequence (infeed test stand for commissioning)
- Safe use of identical test sequences for different service locations
- Automated test sequence and objective data acquisition without any influence by operators
- Fast creation of customized test sequences for a wide range of applications using excellent software solution
- Wide range of test sequences can be used for different spindle types by separating the sequences and the technical parameters
- Flexible and universal application of test stand for different types of motor spindles
- Flexible connection of integrated spindle and external sensors for data acquisition
- Low space requirement and easy transport of the test stand thanks to compact machine design (stand-alone solution with all aggregates on board)
- Optimal accessibility for workpiece loading with crane/manipulator

**Technical data**

Test stand dimensions	2900 x 2070 x 2350 mm (W x D x H without control panel)
Test stand working area	1850 x 1150 x 1590 mm (W x D x H)
Test stand weight (total)	approx. 4 t
Test stand space requirements	approx. 9 m <sup>2</sup>
Spindle length	max. 1000 mm
Spindle weight	max. 500 kg
Spindle test arrangement	horizontal/vertical
Integrated drive amplifier	up to 200 A
Sensor inputs	analogue   digital   IO-Link
- Test specimen	internal spindle and external sensors
- Internal	process monitoring infrastructure
Spindle connections	electrical/pneumatic/hydraulic (coolant + oil)
Lubrication	oil/air (including extraction)
Pneumatics/barrier air	max. 5 bar
Hydraulics	max. 200 bar
Internal cooling	water cooling system



Test software for spindles



Aggregates integrated in test stand



Sensor connection options



Runout measurement option IC50-DIGILOG