



## Workpiece Measurement



Modular System



Post-Process Measuring Technology



Low- & High-Volume Production



Diameter Measurement



Length Measurement



Roundness Measurement



Cylindricity Measurement



Concentricity Measurement



## MULTIPOINT GAUGING MACHINES

FOR SHAFTS AND AXLES

**BLUM**  
**NOVOTEST**



# MULTIPOINT GAUGING MACHINES

## FOR SHAFTS AND AXLES

### Universal tactile measuring system for axle and shaft measurement in production environment

The multipoint measuring machines provide fast acquisition of the geometry by dynamic measurement of diameter, concentricity and run-out for rotationally symmetric workpieces such as tubes, drive shafts, gear shafts or camshafts. A wide variety of measuring tasks can be performed due to the modular design with freely positionable measuring forks/callipers.

Loading is possible manually as well as automatically. Its loading position is easy accessible from above right on top of the final measuring position.

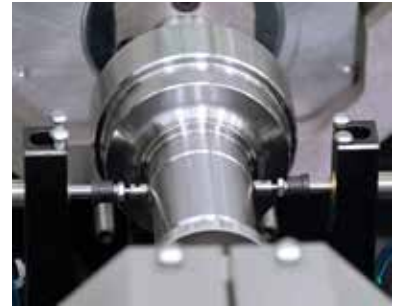
#### Your benefit:

- Post-process multipoint measuring system with independent PLC
- Easy integration into existing automation system
- Short, optimised feed motions
- Flexibly configurable measuring unit using measuring forks/callipers with intelligent universal clamping system
- Manual or automatic loading/unloading
- High availability due to reduced changeover time
- Additional changeover monitoring (poka-yoke principle)
- Automatic calibration device

#### Technical data\*

Standard dimensions outside	H = 1400 mm, D = 900 mm, W = 1600 mm
Workpiece length	up to 800 mm
Workpiece diameter	up to 120 mm
Workpiece support	between precision centres
Lubrication	by central lube system
Sensor system	tactile
Measuring procedure	static   dynamic   combined
Workpiece rotation	Rotary actuator (modular)
Control panel	panel PC with measurement/evaluation software and HMI
Control system	independent PLC
Correction	optional with correction interface
Calibration	optional with automatic calibration device
Level of automation	manual to fully automated
Application field	low-   mid-   high-volume production
Temperature range	0 °C to +45 °C
Weight	approx. 500 kg (depending on version)

\* Special versions on request



Fast acquisition of the workpiece geometry



Highly accurate measurements guaranteed by the use of high-quality individual sensors



Fast and highly flexible acquisition of shaft geometry



Stand-alone measuring system for gear shafts