

Workpiece Inspection



Modular System



Post-Process Measuring Technology



Low- & High-Volume Production



CRACK DETECTION TESTING MACHINES
FOR ROTATIONALLY SYMMETRICAL WORKPIECES

BLUM
NOVOTEST



CRACK DETECTION TESTING MACHINES

FOR ROTATIONALLY SYMMETRICAL WORKPIECES

Versatile solutions for non-destructive eddy-current testing of surface-breaking cracks

The crack detection systems cover a broad application field for impartial 100%-testing of safety-critical rotationally symmetrical workpieces such as drive shafts, wheel hubs or brake discs. Non-destructive crack testing is performed by a full scan of the relevant areas for testing directly after machining performed within the production cycle. In addition, the fully-automated system monitors and records continuously the quality of each individual workpiece to enable full traceability.

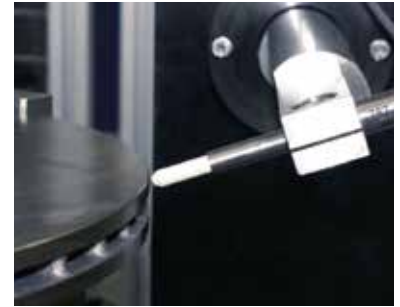
Your benefit:

- Eco-friendly, fast and fully-automated inspection
- Reliable identification and discharging of cracked parts
- High availability thanks to extremely solid and durable design
- Can be fully integrated into the production lines
- Automation by means of interlinkage, shuttle, robot or loading gantry
- Can be individually extended to accommodate additional test criteria such as shrinkage cavities, pores, etc.
- Marking system for OK/NOK identification or individual coding
- Combined measurement and testing solutions

Technical data*

Dimensions	depending on version and application
Workpiece dimensions	depending on customer specifications
Workpiece support	aligning punch Self-centering chuck between centers
Test procedure	touchless, non-destructive eddy current principle
Workpiece rotation	test spindle with application-specific speed
Verification	using cracked sample parts
System inspection	optional with auto-calibration
Control system	independent CNC or PLC
Level of automation	fully automated
Application field	mid- high-volume production
Workpiece weight	up to 25 kg as standard
Temperature range of workpiece	15 °C to +65 °C

* Special versions on request



Non-destructive eddy current crack detection of brake discs



Reliable 100%-testing for surface-breaking damage to drive shafts



Crack testing of wheel hubs with additional hole counting by means of a light barrier



Fully automated in-line crack detection system