



Universal Measuring Machine »smartCheck«

Fully Automatic Complete Inspection of All Kinds of Tools

Highlights

- Universal
Measure, inspect, record- Universal measuring machine for all cutting tools
- Precise
Precisions camera swiveling with incident light image processing and segmented LED illumination for inspecting axial and radial geometries on tools
- Extensive
»pilot 3.0« image processing technology with extensive software functions and integrated measuring programs for inspecting and measuring tools
- User-independent
Simple and repeatable inspection, measuring and documentation by mouse click
- Perfect
Substantial documentation - automatic generation, saving and output of inspection reports

Software



Modern design and even more features: The software for all-inclusive tool measurement

»pilot 4.0«

- Graphic rich, self-explanatory user interface
- All features are easily accessible
- Large click and touch areas
- Photorealistic input interface
- Dynamic crosshairs
- Self-explanatory function keys
- Automatic cutting edge shape recognition
- Automatic zero point monitoring
- Clear and precise cutting edge display and inspection
- Tool and adapter management
- Tool identification
- Test report output
- Data transfer to the machine tool and interfaces to external systems

and many other functions and options

► more

Technical data

»smartCheck 450«

Measuring range Z

450/600/800 mm (17.7/23.6/31.5 inch)

Ø

350 mm (13.8 inch)

Measuring range X

175 mm (6.9 inch)

Snap gage Ø

35 mm (1.4 inch)

»smartCheck 600«

Measuring range Z

600/800/1000 mm (23.6/31.5/39.4 inch)

Ø

370 mm (14.6 inch)

Measuring range X

175 mm (6.9 inch)

Snap gage Ø

80 mm (3.1 inch)

»smartCheck 800«

Measuring range Z

600/800/1000/1200 mm (23.6/31.5/39.4/47.2 inch)

Measuring range X

500 mm (19.7 inch)

Ø	Snap gage Ø
900 mm (35.4 inch)	300 mm (11.8 inch)

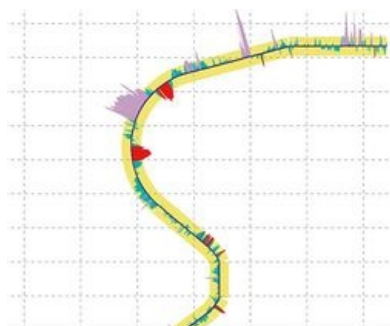
Note: Using adapters and attachment holders can reduce the indicated measuring range in some circumstances.

Measurement programs



Diameter, Chamfer Lead, Taper, Distance at Single Cutting Edge Reamers

Measuring program for the measurement of single cutting edge reamers with support bar and with the snap gauge method.



Vertical and Horizontal Dimension, Angle, Projection

Measuring program for the measurement of reamers for valve seat machining.

The Genius for Everyone, who Wants to Know More About the Tool

Whether as a manual or 3-axis-CNC version: »smartCheck« is the powerful universal measuring machine for all cutting tools As a result you can check your tools efficiently before and after grinding in order to fulfill DIN EN ISO 9000 guidelines.

In addition, with the swiveling incident light image processing software, you can inspect, measure and document axial and radial geometries of tools — very easily in a single click without expert-level knowledge. You profit directly from at least a 25% productivity increase with your CNC grinding machines simply by measuring your tools before regrinding.

