



»3dCheck«

Fully automated high-end 3D scanning and measuring machine

The six axis »3dCheck« CNC machine opens new perspectives for the three-dimensional digitalization of workpieces and tools. It combines the benefits of optical detection by a 3D sensor with high precision CNC control and fully automated incident light image processing. In addition this allows performing coordinate measurements and reverse engineering for quality assurance in R&D through to fast process-oriented 3D simulation. Tools, plate pockets, implants and similar objects are recorded quickly and with high accuracy.

Important features:

- › ZOLLER »pilot« image processing
- › 2D and 3D digitalization
- › Ergonomic operating elements
- › Consistent use of branded products
- › Robust and workshop-compatible
- › Membrane keyboard for power-operated spindle clamping, spindle lock and joystick
- › Flexible adaptation to your production
- › CNC control
- › Autofocus and hollow shaft encoder
- › Swiveling stripe light projector

Technical data

	»3dCheck«
Measuring range Z-axis:	600 mm
Measuring range X-axis:	235 mm
Measurable outer diameter:	470 mm
Travel range Y-axis	± 50 mm
Measurable snap gauge diameter	60 mm
Swivel range of sensor:	- 35° to + 90°
Max. Object diameter:	70 mm
Measuring volume sensor:	20 x 15 x 8 mm ³
Measuring time:	4.5 s/individual frame
Z-resolution	1.5 µm
X/Y resolution:	15 µm
Number of measuring points:	1.25 MP
Operating distance:	approx. 95 mm

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Note:

The quoted measuring range may be reduced under circumstances when using adapters and tool posts. Manual fine adjustment of all axes.

Software

»pilot 3.0«

Prepared quickly and easily for any requirement

- › For both manual and CNC controlled presetting and measuring machines
- › For both small and large manufacturing needs
- › Conveniently and quickly preset, measure, inspect, and manage cutting tools of all kinds.
- › Transmit data via machine connections and interfaces to third party systems
- › Modular design for maximum flexibility



Your added value

- › 3D digitalization provides topographic target-actual comparisons and highly accurate evaluations of cutting edge representations in »lasso«.
- › Conducting coordinate measurements and reverse engineering in QA and R&D.
- › The ZOLLER »3dCheck« combines the benefits of an optical 3D sensor with high precision CNC axes and fully automated incident light image processing.

You are interested in »3dCheck« ?

Then you may be interested in following too:



The ZOLLER
»genius«
The universal
measuring machine
for tool inspection



The ZOLLER
»threadCheck«
High-end universal
measuring machine
for helical tools