

THE ULTIMATE CMM LASER SCANNER

# NIKON L100

More Productivity and Accuracy



BEST COMBINATION  
OF SPEED AND PRECISION

# NIKON L100

## MORE PRODUCTIVITY AND ACCURACY

By using Nikon sensors on a WENZEL CMM, WENZEL expands its portfolio of optical sensors and can offer each customer the appropriate sensor in terms of measurement time, accuracy and level of detail.

The L100 CMM laser scanner offers the best possible combination of speed, accuracy and ease-of-use. Suited for both surface and feature measurement, the L100

quickly delivers accurate data and insightful part-to-CAD comparison reports even on shiny or multi-material surfaces.

The 100 mm wide Field-of-View combined with the increased measurement speed results in measurement productivity that wasn't achievable with CMM scanning before.

## FEATURES

- **Ultra fast data acquisition** - 200,000 points/s scanning speed
- **Captures the finest details** - Best-in-class probing error of 6.5 µm
- **PH10M/MQ, auto pickup** - rotation up to 105° (A-axis)
- **Instant ready** - quick setup
- **Daylight filter** - absorbs ambient light
- **High quality glass Nikon lens** - for higher accuracy and better data quality
- **Easy to use - Field-of-View (FOV) projection**

## ANWENDUNGSGEBIETE

The L100 is ideal to inspect larger components where productivity is key but without having to compromise on accuracy. The 100 mm wide Field-of-View combined with the increased measurement speed results in measurement productivity that wasn't achievable with CMM scanning before.

Inspection of small to large, complex surfaces:

- Sheet metal parts
- Plastics/Composites
- Casted parts
- Turbine blades

High speed feature inspection:

- Slots
- Holes
- Pins



## TECHNICAL DATA

Probing error MPE <sub>p</sub> 1 [μm]	6,5
Ball bar length (MPEE) <sub>2</sub> [μm]	6 +L/350
Multi-stylus test (MPEAL) <sub>3</sub> [μm]	6
Maximum point rate [points./s]	200.000
FOV Width [mm]	110
FOV Depth [mm]	60
Working distance [mm]	105
Laser safety	2
Probe head compatibility	PH10M, PH10MQ, PHS

All accuracy specifications valid for a CMM with an accuracy of 2μm + L/350 or better using manufacturer supplied test sphere

<sup>1</sup>Nikon Metrology Test comparable to ISO 10360-2 MPE<sub>p</sub> using 1σ sphere fit.

<sup>2</sup>Nikon Metrology Test comparable to ISO 10360-2 MPE<sub>E</sub>

<sup>3</sup>Nikon Metrology Test comparable to ISO 10360-5 MPE<sub>AL</sub>

## YOUR ADVANTAGES AT A GLANCE

### ■ Ultrafast Data Collection

Ideal to inspect larger components | 100 mm wide field of view | Integrated rotation adapter

### ■ Capture the Finest Details

Suitable for surface and feature measurements | Low noise level and high point resolution | Measurement of sharper edges

### ■ Accurate Feature Measurement

High quality glass Nikon lens | High resolution digital camera | Small probing error

### ■ Cope with Changes in Surface Color

Enhanced Sensor Performance | Adaptation of the laser intensity to varying colors or materials

### ■ Easy to Use

The new Field-of-View projection provides a clear indication for the user whether the scanner is optimally positioned | Instant ready | Improved feedback during scanning process

## INNOVATION MEETS TRADITION

The WENZEL Group is a market leader in innovative Metrology. WENZEL offers a comprehensive product portfolio in the fields of Coordinate Metrology, Computed Tomography and Optical High Speed Scanning. The technology of WENZEL is used in all industries, including the automotive sector, aeronautics, power generation and

medicine. WENZEL looks at today on an installed base of more than 10,000 machines worldwide. Subsidiaries and agencies in more than 50 countries support sales and provide after-sales service for our customers. The WENZEL Group today employs more than 600 people.



## YOUR LOCAL CONTACT PERSON

### WENZEL GROUP GMBH & CO. KG

Werner-Wenzel-Straße

97859 Wiesthal

Phone: +49 6020 201-6006

E-Mail: [sales@wenzel-group.com](mailto:sales@wenzel-group.com)

We are there for you worldwide. You can find our subsidiaries, sales and service partners at [www.wenzel-group.com](http://www.wenzel-group.com).

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