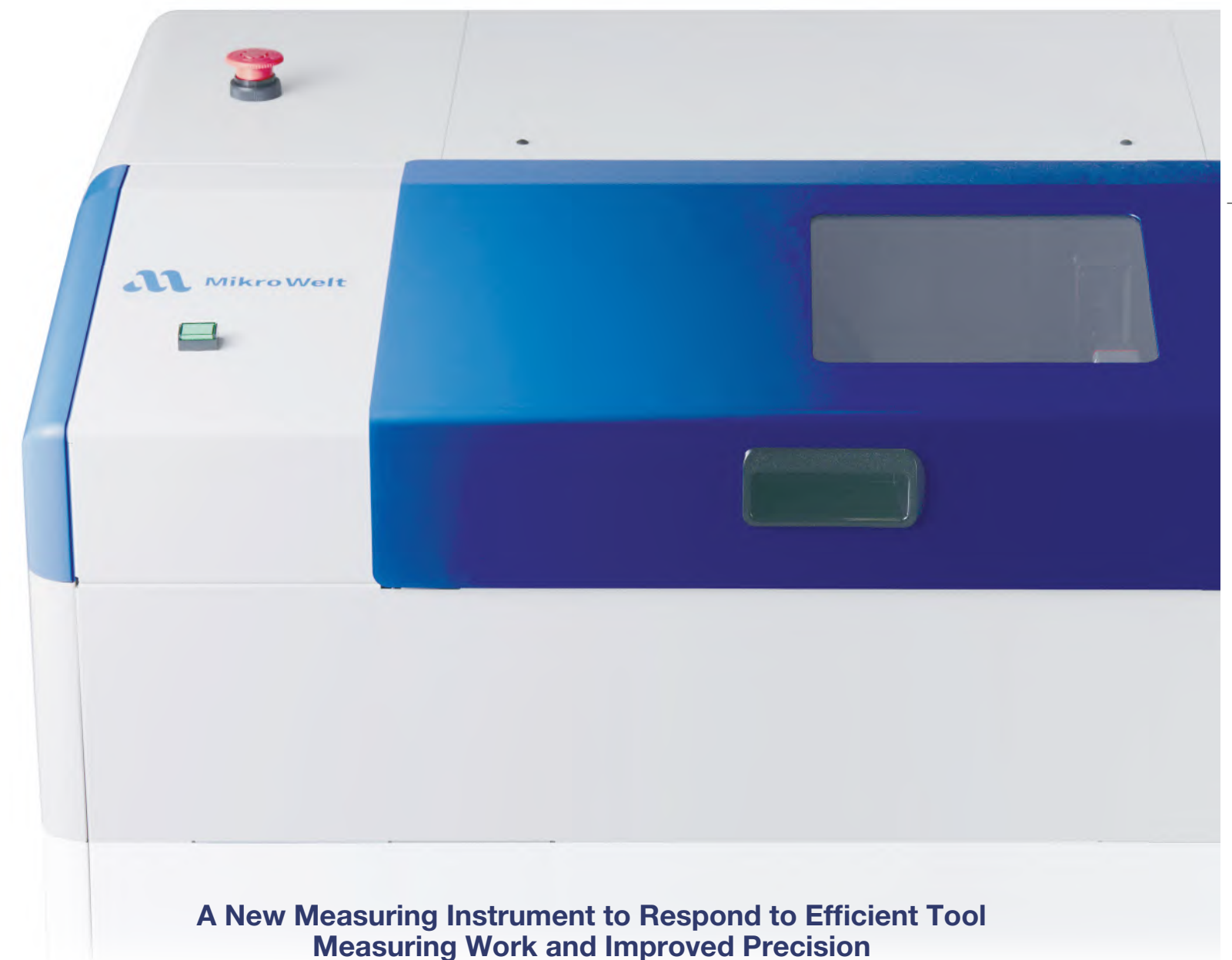




A Measuring Instrument Made By a Tool  
Manufacturer for Tool Manufacturers

[Mikro Welt nano9] A Tool-specific Laser Outer Diameter Measuring Instrument

# Mikro Welt nano9



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**A New Measuring Instrument to Respond to Efficient Tool  
Measuring Work and Improved Precision**



## A Measuring Instrument Made By a Tool Manufacturer for Tool Manufacturers

Introducing a new measuring instrument to respond to  
efficient tool measuring work and improved precision

# Mikro Welt nano9

FEATURE  
01

## Anywhere

Saves space and can be set up anywhere

FEATURE  
02

## Easy-to-use by anyone

Chuck the tool and click once

FEATURE  
03

## Quick

Measure in only two seconds

FEATURE  
04

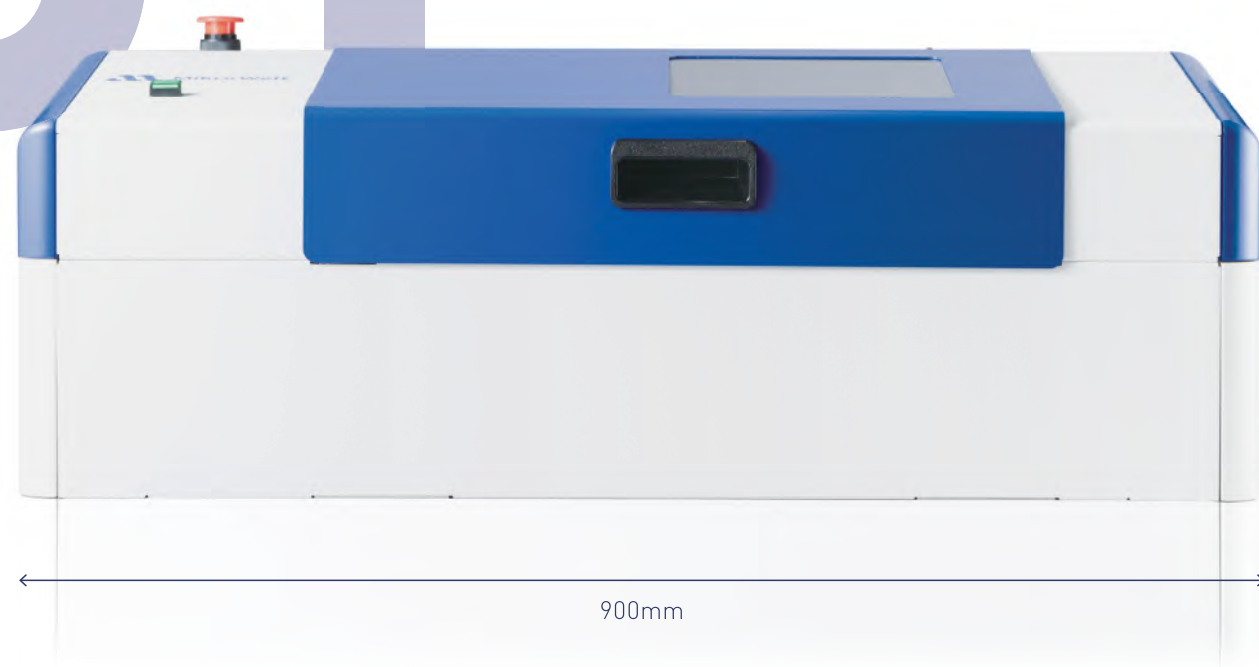
## High precision

Repeatability of 1  $\mu\text{m}$  or less

# 01

## Anywhere

Dust-proof, space-saving design for setup in a machining site.  
900 (W) x 700 (D) x 350 (H)  
Can be set up on an office desk; allows you to take measurements right there when necessary while machining.



## Easy-to-use by anyone



Measuring technology developed by Kiyama Alloy Corporation with 80 years of expertise in the carbide tool industry; designed unique hardware under the supervision of a leading developer of a major equipment manufacturer.

Also developed software that was designed specifically for ease-of-use based on the concepts of being easy-to-use by anyone and requiring no extra programming.

Measures tool outer diameter and runout instantly with high precision by chucking the tool and clicking once.

# 03

## Quick

Measurement sampling of 16,000 times per second.  
Measurements are complete in approximately two seconds per location.



## High precision

The unique technology (patent pending) adopted for the chucking system which makes it possible for everyone to obtain the same measurement results.

Attains repeatability of 1 μ under any environment.

\* Repeatability with a  $\varnothing 6$  end mill ( $\varnothing 6 \times 50$  L) that comes with a calibration certificate

# 04

## Solves conventional issues in tool measurement

Issues on tool makers' microscope, dial, and high-functional tool-dedicated measuring instrument

Slow

Correcting of parallelism, focusing, zero-point adjustment, setup adjustment, frequent trips between the workroom and examination room

Error

Alignment of the line and dial, fine adjustments, differences in worker skill levels

Complicated

Frequent program settings and confusion caused by extra functions

Removes differences between workers, improves measuring speeds, stabilizes measuring precision

Fast

Chuck the tool on the machine side in the workroom and click once

Precise

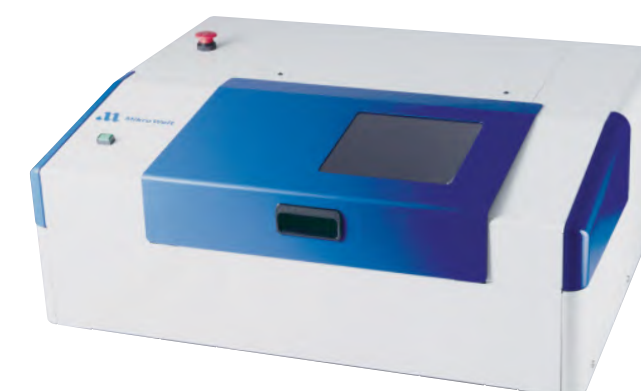
16,000 measuring points in one second; repeatability of under 1 μm

Simple

Requires no extra programming; specialized for measurement of runout and outer diameter; accessible to anyone

## Mikro Welt nano9

### SPECIFICATION



#### Hardware Specifications

| Item                      | Specification  |
|---------------------------|--|
| Product Name and Type     | Mikro Welt nano9   |
| Measuring Unit            | KEYENCE LS-9030  |
|                           | Measuring precision conforms to KEYENCE LS-9030  |
| Environment of Use        | Ambient temperature: +10°C-+40°C; Ambient humidity: 35-85% (Keep away from condensation)                                   |
| Electrical Specifications | AC100—240V±10%、50Hz/60Hz   |
| Size                      | Main unit outer diameter dimensions [mm]: 700 x 900 x 350 (excluding protruding parts); Weight: Approx. 50 kg              |
|                           | Setup dimensions [mm]: 700 x 900 x 350; Ensure a space of 10 cm or more from both sides and the back face of the main unit |
| Safety Function           | Equipped with an interlock on the operator operation side; stops operation when released                                   |
|                           | Emergency stop switch is installed on the front face.  |
| Operating Method          | Measuring operations using specialized software on a PC  |
|                           | OS: Windows 10 or later (Memory: 8 GB or more)   |
|                           | Interface: Main unit and PC: Connect using USB Type-B (2.0)  |
| Compatible Standards      | EMC: Conforms to EN55011, and IEC61000   |
|                           | Safety : PSE   |
| Accessories               | Power cable, User's Manual, Attachment (V jig)   |

#### Application Software Specifications

| Item                 | Specification  |
|----------------------|--|
| Model                | Mikro Welt nano9 APP VER1.00                         |
| CPU                  | Pentium III 400 MHz or higher                        |
| OS                   | Windows 10   |
| Memory Capacity      | 8 GB or more   |
| Display              | VGA (800 x 600 pixels) or higher; 256 colors or more |
| Free Hard Disk Space | 1 GB or more   |
| Interface            | Equipped with USB interface                          |