

WM | MMA SERIES

MOBILE 7-AXIS MEASURING ARM



MOBILE MEASUREMENT IN
THE PRODUCTION ENVIRONMENT

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Mobile measuring arms from WENZEL are characterized by great flexibility, enabling use in both production and quality assurance processes. By combining a portable 7-axis measuring arm with a high-resolution line scanner, which captures every detail contact-free, the measuring arms represent a useful complement to your established classical coordinate measuring systems. The use of the latest materials makes the measuring arm a lightweight unit that delivers highly accurate

and reproducible measurement results in mobile applications. The measuring arm can be used directly on the component - both with optical and tactile sensors - without any warm-up time and without sticking markers to the component. The measurement results obtained can then be transmitted via a WiFi interface for further use. The capacity and low consumption of the integrated battery ensure reliable operation of the measuring arm over a long period of time.

MEASURING ARM

- Freedom of movement due to 7 axes with axis limit detection
- Automatic button recognition
- WiFi
- Battery operation
- Temperature compensated
- Stable resting position
- Internal weight compensation with damping element

MEASURING ARM PROFILES

The measuring arm is available in different accuracy classes (Standard & Premium) as well as in different versions - suitable for individual measuring requirements and tasks.

Type	Arm length	EUNI	Tactile (at the scanner)	
			PSIZE	PFORM
WM MMA 2.0	2,0 m	0,037 mm	0,012 mm	0,020 mm
WM MMA 2.5	2,5 m	0,041 mm	0,015 mm	0,024 mm
WM MMA 2.5 P	2,5 m	0,033 mm	0,012 mm	0,022 mm
WM MMA 3.0	3,0 m	0,069 mm	0,020 mm	0,035 mm
WM MMA 3.0 P	3,0 m	0,057 mm	0,017 mm	0,030 mm
WM MMA 3.5	3,5 m	0,079 mm	0,024 mm	0,041 mm
WM MMA 3.5 P	3,5 m	0,067 mm	0,021 mm	0,037 mm
WM MMA 4.0	4,0 m	0,094 mm	0,029 mm	0,048 mm
WM MMA 4.0 P	4,0 m	0,084 mm	0,026 mm	0,042 mm
WM MMA 4.5	4,5 m	0,114 mm	0,045 mm	0,060 mm
WM MMA 4.5 P	4,5 m	0,105 mm	0,040 mm	0,051 mm



FEATURES

■ High flexibility

7 axes for freedom of movement | Can be used with tactile and optical sensors | Axis limit detection

■ Mobile use

Suitable for industrial use | Portable light weight | Integrated battery & WiFi

■ High process efficiency

No marker sticking | No warm-up time | Automatic button recognition

■ Accurate and reproducible measurement results

Temperature compensation | Stable rest position | Internal weight compensation with damping element

■ Data evaluation and security

Integrated WiFi interface | Evaluation with QM I Quartis Mobile

LDIA	SPAT	Optical		
		WM MLS 100P LDIA scanning	WM MLS 200 LDIA scanning	WM MLS 100 LDIA scanning
0,044 mm	0,022 mm	0,043 mm	0,047 mm	0,049 mm
0,055 mm	0,027 mm	0,049 mm	0,053 mm	0,055 mm
0,047 mm	0,025 mm	0,045 mm	0,049 mm	0,052 mm
0,081 mm	0,042 mm	0,064 mm	0,066 mm	0,068 mm
0,074 mm	0,039 mm	0,055 mm	0,059 mm	0,062 mm
0,095 mm	0,054 mm	0,079 mm	0,082 mm	0,084 mm
0,089 mm	0,045 mm	0,069 mm	0,074 mm	0,076 mm
0,115 mm	0,066 mm	0,091 mm	0,102 mm	0,105 mm
0,105 mm	0,054 mm	0,080 mm	0,084 mm	0,087 mm
0,125 mm	0,078 mm	0,120 mm	0,130 mm	0,132 mm
0,114 mm	0,067 mm	0,095 mm	0,104 mm	0,110 mm

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, aerospace, power generation, and

medical devices. Over the years WENZEL has installed 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.



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We are there for you worldwide. You can find our subsidiaries, sales and service partners at **www.wenzel-group.com**.

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