

MOBILE 7-AXIS MEASURING ARM

WM | MMA SERIES

Flexibility for fast easy measurement

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MOBILE MEASUREMENT IN THE PRODUCTION ENVIRONMENT

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 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.



MOBILE MEASUREMENT IN
THE PRODUCTION ENVIRONMENT

FEATURES

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



YOUR ADVANTAGES AT A GLANCE

- **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
- **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 | Quartis

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.

Tactile (at the scanner)						
Type	Arm Length	EUNI	PSIZE	PFORM	LDIA	SPAT
WM MMA 2.0	2.0 m	0.037 mm	0.012 mm	0.020 mm	0.044 mm	0.022 mm
WM MMA 2.5	2.5 m	0.041 mm	0.015 mm	0.024 mm	0.055 mm	0.027 mm
WM MMA 2.5 P	2.5 m	0.033 mm	0.012 mm	0.022 mm	0.047 mm	0.025 mm
WM MMA 3.0	3.0 m	0.069 mm	0.020 mm	0.035 mm	0.081 mm	0.042 mm
WM MMA 3.0 P	3.0 m	0.057 mm	0.017 mm	0.030 mm	0.074 mm	0.039 mm
WM MMA 3.5	3.5 m	0.079 mm	0.024 mm	0.041 mm	0.095 mm	0.054 mm
WM MMA 3.5 P	3.5 m	0.067 mm	0.021 mm	0.037 mm	0.089 mm	0.045 mm
WM MMA 4.0	4.0 m	0.094 mm	0.029 mm	0.048 mm	0.115 mm	0.066 mm
WM MMA 4.0 P	4.0 m	0.084 mm	0.026 mm	0.042 mm	0.105 mm	0.054 mm
WM MMA 4.5	4.5 m	0.114 mm	0.045 mm	0.060 mm	0.125 mm	0.078 mm
WM MMA 4.5 P	4.5 m	0.105 mm	0.040 mm	0.051 mm	0.114 mm	0.067 mm

Optical			
Type	WM MLS 100P LDIA scanning	WM MLS 200 LDIA scanning	WM MLS 100 LDIA scanning
WM MMA 2.0	0.043 mm	0.047 mm	0.049 mm
WM MMA 2.5	0.049 mm	0.053 mm	0.055 mm
WM MMA 2.5 P	0.045 mm	0.049 mm	0.052 mm
WM MMA 3.0	0.064 mm	0.066 mm	0.068 mm
WM MMA 3.0 P	0.055 mm	0.059 mm	0.062 mm
WM MMA 3.5	0.079 mm	0.082 mm	0.084 mm
WM MMA 3.5 P	0.069 mm	0.074 mm	0.076 mm
WM MMA 4.0	0.091 mm	0.102 mm	0.105 mm
WM MMA 4.0 P	0.080 mm	0.084 mm	0.087 mm
WM MMA 4.5	0.120 mm	0.130 mm	0.132 mm
WM MMA 4.5 P	0.095 mm	0.104 mm	0.110 mm

