Product information

High-precision, fully automatic reference form measuring device MarForm MarForm MFU 200

Product features

- Optimized for use in the measuring room and the achievement of reference quality
- High reproducibility of the measurement results through dynamic real-time compensation, which detects and corrects even the smallest deviations in the measurement sequence
- Productivity thanks to high temperature stability over a long period of time – no daily calibration necessary
- Extreme precision due to high-precision rotary axis with Mahr precision guides: roundness deviation of < 20 nm
- Intuitive to use and proven MarWin measurement and evaluation software

Item no.: **5440580**

Technical data

Pos.-/Meas. path X-axis	200 mm
Pos.-/Meas. path Z-axis	320 mm
Positioning speed C-axis	0.1 - 200 1/min
Positioning speed X axis	0.1 - 100 mm/s
Positioning speed Z-axis	0.1 - 100 mm/s
Workpiece diameter max.	280 mm
Angular resolution C-axis (interpolated)	0.0001°
Axial running deviation C-axis	0.02 + 0.0002 µm/mm*measuring radius (acc. to DIN EN ISO 1101)
Straightness deviation X-axis	0.075 µm/measuring path (according to DIN EN ISO 1101)
Straightness deviation Z-axis	0.1 µm/measuring path (according to DIN EN ISO 1101)
Positioning uncertainty X-axis	2 µm (according to VDI/DGQ 3441) / 0.5 µm (with probe backlash)
Positioning uncertainty Z-axis	2 µm (according to VDI/DGQ 3441) / 1 µm (with probe backlash)
Reference temperature	20 °C
Centering and tilting table	motorized
Table diameter	180 mm
Table load max.	20 kg
Probe system	Tactile 1D
Special equipment	CNC-Tisch und dynamische Echtzeitkompensation
Storage and transport temperature	-10 °C to 50 °C
Sound pressure level	< 70 dB(A)
Permissible humidity	max. 70 % relative humidity; non-condensing
Mains voltage	230 V
Mains frequency	50 Hz
Weight basic unit	850 kg
Scope of delivery	T7W probe system (incl. probe arm 3 x 60 mm)