Product information

Optical devices with tailstock Mar4D PLQ 3200-T2

Product features

- · Speed:
- Axis movements with a unique speed of up to 200 mm/s
- Very fast and high-resolution matrix camera with a large field of view of 15x10 mm (WxH)
- Joint evaluation of all collected measurement data via MarWin
- · Productivity:
- Many different measuring functions combined in one device
- Flexible workpieces with up to D=210 mm, L=450 mm and 50 kg measured directly in production next to the production machines
- Increased measuring capacities and reduced waiting time

· Precision:

- Compensation of eccentrics of several millimeters to 1 µm in less than 30 seconds
- Integrated environmental controls, such as active temperature compensation of the device, ensure consistent measurement quality and significantly reduce waste
- The motorized tailstock with clamping force monitoring prevents operator influences and increases the reproducibility of the measurement results

· User-friendliness:

- The ergonomic housing and interior design enables convenient and gentle operation for many hours
- Light curtains and interior monitoring protect people and measuring devices
- All devices are "robot-ready" and automation solutions, such as robot loading, can be implemented quickly and directly via our specialized MES department



Item no.: **5553250**

Tec		

Travel/measuring path X1 axis	200 mm	
Pos/Meas. path Z-axis	450 mm	
Positioning speed C-axis	0.2 - 15 1/min	
Positioning speed X1 axis	0.5 - 200 mm/s	
Positioning speed Z-axis	0.5 - 200 mm/s	
Workpiece length max.	450 mm	
Workpiece diameter max.	210 mm	
Table load max.	50 kg	
Error limit Length	MPE ≤ (2.4 + I/200) μm; 'l' in mm	
Error limit diameter	MPE ≤ (1.3 + d/150) μm; 'd' in mm	
Measured value resolution Length	0.01 - 0.0001 mm	
Measured value resolution diameter	0.01 - 0.0001 mm	
Angular resolution	0.01 - 0.0001 °	
Reference temperature	20 °C	
Sensors	optical	
Optical system	telecentric precision optics, image field approx. 15 x 10 mm (W x H)	
Camera system	CMOS matrix camera	
Special equipment	motorized tailstock	
Measuring computer	AIO PC or industrial AIO PC with UPS (each incl. Microsoft Windows 10 IoT LTSC)	
Operating temperature	10 °C to 35 °C	
Storage and transport temperature	5 °C to 60 °C	
Sound pressure level	<75 dB(A)	
Permissible humidity	max. 70 %; non-condensing	
Mains voltage	90 – 240 V	
Mains frequency	50/60 Hz	
Power consumption max.	850 W	
Transportation options	suitable for air freight	
Scope of delivery	PC holder and two 60° centering tips (2 – 44 mm)	