Ürün bilgileri

Optical-tactile devices with tailstock Mar4D PLQ 4200-T2

Ürün özellikleri

- **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) in effective combination with innovative probe systems
- Mahr T7W with motorized rotation axis and thus fastest stylus change on the market or RENISHAW SP25M 3D scanning probe system
- Joint evaluation of all collected measurement data via MarWin
- **Productivity:**
- Many different measuring functions combined in one device
- Flexible measurement of workpieces with up to D=210 mm, L=450 mm and 20 kg directly in production next to the production machines
- Increase in measuring capacities and reduced waiting times
- **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
- All devices are "robot-ready" and automation solutions, such as robot loading, can be implemented quickly and directly through our specialized MES department



Malzeme no.: **5554200**

Teknik veriler

Travel/measuring path X1 axis	200 mm
Travel/measuring path X2 axis	200 mm
Travel/measuring path Y-axis	40 mm
Pos.-/Meas. path Z-axis	450 mm
Positioning speed C-axis	0.2 - 120 1/min
Positioning speed X1 axis	0.5 - 200 mm/s
Positioning speed X2 axis	0.5 - 200 mm/s
Positioning speed Y-axis	0.5 - 50 mm/s
Positioning speed Z-axis	0.5 - 200 mm/s
Workpiece length max.	450 mm
Workpiece diameter max. (mind moment of inertia max.)	210 mm
Table load max.	20 kg
Moment of inertia max.	27000 kg x mm²
Error limit Length	MPE ≤ (2.4 + l/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 °
Çalışma sıcaklığı	20 °C
Sensors	optical tactile
Optical system	telecentric precision optics, image field approx. 15 x 10 mm (W x H)
Camera system	CMOS matrix camera
Prob sistem tipi	Mahr T7W and/or RENISHAW SP25M
Special equipment	motorized tailstock
Measuring computer	All-in-one PC (incl. Microsoft Windows 11 IoT LTSC)
Çalışma sıcaklığı	10 °C - 35 °C
Depolama ve taşıma sıcaklığı	5 °C - 60 °C
Sound pressure level	<75 dB(A)
Nem (metin)	max. 70 %; non-condensing
Mains voltage	90 – 240 V
Mains frequency	50/60 Hz
Güç tüketimi	850 W

Ürün bilgileri

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Teknik veriler

Transportation options	suitable for air freight
Standart aksesuarları (metin)	PC holder and 2 pcs 60° centering tips (2–40 mm)