

제품 정보

Optical devices with CNC table and tailstock Mar4D PLQ 3200-T4

제품 특징

- Speed:
 - Extremely fast, mechanical-optical workpiece alignment by means of a fully automatic centering and tilting table in combination with the matrix camera
 - 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
 - Joint evaluation of all collected measurement data via MarWin

품목 번호: 5553204



- Productivity:
 - Workpieces that were not manufactured between tips are simply clamped in the chuck
 - Many different measuring functions combined in one device
 - Flexible workpieces with up to D=210 mm, L=450 mm and 20 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

기술 데이터

Travel/measuring path X1 axis	200 mm
Pos.-/Meas. path Z-axis	450 mm
Positioning speed C-axis	0.2 - 60 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.	20 kg
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 °
작동 온도	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	CNC table and motorized tailstock
Measuring computer	AIO PC or industrial AIO PC with UPS (each incl. Microsoft Windows 10 IoT LTSC)
작동 온도	10 °C - 35 °C
보관 및 운송 온도	5 °C - 60 °C
Sound pressure level	<75 dB(A)
습도 (텍스트)	max. 70 %; non-condensing
Mains voltage	90 – 240V
Mains frequency	50/60 Hz
전원 소모	850 W
Transportation options	suitable for air freight
공급 품목(텍스트)	PC holder and two 60° centering tips (∅ 2 – 44 mm)

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