

# 製品情報

## Dimensional Metrology Mar4D PLQ 3200-T2 (Z=730/20 kg)

### 製品の特徴

- 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=730 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  $\mu\text{m}$  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



品目番号 5553201

### 技術データ

Travel/measuring path X1 axis	200 mm
Pos./Meas. path Z-axis	730 mm
Positioning speed C-axis	0.2 - 120 1/min
Positioning speed X1 axis	0.5 - 200 mm/s
Positioning speed Z-axis	0.5 - 200 mm/s
Workpiece length max.	730 mm
Workpiece diameter max.	210 mm
Table load max.	20 kg
Error limit Length	$MPE \leq (2.4 + l/200) \mu\text{m}$ ; 'l' in mm
Error limit diameter	$MPE \leq (1.3 + d/150) \mu\text{m}$ ; '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 °
作業温度	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)
動作温度	10 °C 終点 35 °C
保管および輸送温度	5 °C 終点 60 °C
Sound pressure level	<75 dB(A)
湿度 (テキスト)	max. 70 %; non-condensing
Mains voltage	90 - 240 V
Mains frequency	50/60 Hz
消費電力	850 W
Transportation options	suitable for air freight
付属品	PC holder and two 60° centering tips (# 2 - 44 mm)