

# 产品信息

## 带尾座的光学-触觉装置 Mar4D PLQ 4200-T2 (Z=1000/20 kg)

### 产品特性

#### # 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=1000 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  $\mu$ 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 through our specialized MES department

物品号: 5554202

### 技术数据

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	1000 mm
Positioning speed C-axis	0.2 - 120 l/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.	1000 mm
Workpiece diameter max.	210 mm
Table load max.	20 kg
Error limit Length	$MPE \leq (2.4 + l/200) \#m; l$ in mm
Error limit diameter	$MPE \leq (1.3 + d/150) \#m; d$ 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 °
工作温度	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
测头系统类型	Mahr T7W and/or RENISHAW SP25M
Special equipment	motorized tailstock
Measuring computer	AIO PC or industrial AIO PC with UPS (each incl. Microsoft Windows 10 IoT LTSC)
操作温度	10 ° C 到 35 ° C
存储和运输温度	5 ° C 到 60 ° C
Sound pressure level	<75 dB(A)
湿度 (文本)	max. 70 %; non-condensing
Mains voltage	90 # 240 V
Mains frequency	50/60 Hz
电源消耗	850 W
Transportation options	suitable for air freight
随附	PC holder and two 60° centering tips (# 2 # 44 mm)

