Product information

Dimensional Metrology Mar4D PLQ 4200-T2

Product features Speed:

Measuring processes in production should be fast above all else. A newly developed control architecture on the Mar4D PLQ 4200 device series therefore ensures that its axes move at a unique speed, such as the C-axis at up to 120 rpm. Fast measurement is also guaranteed by the builtin sensors: the modern, highresolution matrix camera records the measurement data optically at top speed. The tactile probes - Mahr T7W for form features and Renishaw SP25M for 3D features - also impress with their speed. Particularly with the Mar4D PLQ 4200-T4 variant with automatic centering and tilting table, you also benefit from extremely fast alignment thanks to mathematical-mechanical combination technology. Finally, the user-friendly MarWin software platform evaluates all measurement data reliably and as required. The operator can carry out several measurements in just one clamping operation, which also significantly speeds up inspections and therefore

Productivity:

reliable quality statements.

An investment in a Mar4D PLO 4200 is long-term and futureproof. The device saves costs, time and space in production, as it offers up to five measuring functions in one unit, meaning that our customers can use it to replace up to five other measuring systems. In addition, thanks to its multi-sensor technology, the Mar4D PLQ 4200 can handle a wide range of different measuring tasks, including internal measurement, extremely flexibly, quickly and precisely. Rotationally symmetrical workpieces with a diameter of up to 200 mm, a length of 1,000 mm and a weight of 50 kg can be inspected. Overall, users increase their measuring capacities while waiting times are reduced. In addition, waste is significantly reduced as several integrated environmental controls ensure consistently reliable measuring conditions.

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Item no.: **5554252**

Technical data

Verfahr-/Messweg X2-Achse Verfahr-/Messweg Y-Achse Pos/Meas. path Z-axis Positioniergeschwindigkeit C-Achse Positioniergeschwindigkeit X1-Achse Positioniergeschwindigkeit X2-Achse Positioniergeschwindigkeit X2-Achse	/s	
Pos/Meas. path Z-axis Positioniergeschwindigkeit C- Achse Positioniergeschwindigkeit X1- Achse Positioniergeschwindigkeit X2- Positioniergeschwindigkeit X2- 0.5 - 200 mm	/s	
Positioniergeschwindigkeit C-Achse Positioniergeschwindigkeit X1-Achse Positioniergeschwindigkeit X2-0.5 - 200 mm	/s	
Achse Positioniergeschwindigkeit X1- Achse Positioniergeschwindigkeit X2- 0.5 - 200 mm	/s	
Achse Positioniergeschwindigkeit X2- 0.5 - 200 mm	, -	
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7.0	0.5 - 200 mm/s	
Positioniergeschwindigkeit Y- 0.5 - 50 mm/	0.5 - 50 mm/s	
Positioniergeschwindigkeit Z- 0.5 - 200 mm	0.5 - 200 mm/s	
Messwertauflösung Länge 0.01 - 0.0001	0.01 - 0.0001 mm	
Messwertauflösung Durchmesser 0.01 - 0.0001	0.01 - 0.0001 mm	
Winkelauflösung 0.01 - 0.0001	0.01 - 0.0001 °	
Table load max. 50 kg	50 kg	
Fehlergrenze Länge MPE \leq (2.4 +	MPE ≤ (2.4 + I/200) µm with 'I' in mm	
Fehlergrenze Durchmesser MPE \leq (1.3 +	MPE \leq (1.3 + d/150) μ m with 'd' in mm	
Werkstücklänge max. 1000 mm	1000 mm	
Workpiece diameter max. 210 mm	210 mm	
Netzspannung 90 – 240 V	90 – 240 V	
Netzfrequenz 50/60 Hz	50/60 Hz	
Power consumption max. 850 W	850 W	
Sensorik optical tactile	optical tactile	
Optisches System Telecentric p	Telecentric precision optics, image field approx. 15 x 10 mm (W x H)	
Kamerasystem CMOS matrix	CMOS matrix camera	
Probe system Mahr T7W ar	Mahr T7W and/or RENISHAW SP25M	
MessrechnerAll-in-one PC10 IoT LTSC)	All-in-one PC or industrial all-in-one PC with UPS (each incl. Microsoft Windows 10 IoT LTSC)	
Besondere Ausstattung Motorized tai	Istock	
Operating temperature 10 °C to 35 °C		
Storage and transport $5 ^{\circ}\text{C}$ to $60 ^{\circ}\text{C}$ temperature	5 °C to 60 °C	

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Schalldruckpegel	<75 dB(A)	
Permissible humidity	max. 70 %; nicht kondensierend	
Transportmöglichkeiten	suitable for air freight	
Scope of delivery	PC holder and two 60° centering tips (2 – 44 mm)	

Accessories

Order no.	Designation	Product type
Rel_Mar4D	MarWin	MarWin Mar4D