

Informações de produtos

Medição dimensional Mar4D PLQ 3200-T4

Propriedades do produto

• 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

• 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



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Dados técnicos

Curso de deslocamento/curso de medição eixo X1	200 mm
Curso de deslocamento/medição eixo Z	450 mm
Velocidade de posicionamento do eixo C	0.2 - 60 1/min
Velocidade de posicionamento do eixo X1	0.5 - 200 mm/s
Velocidade de posicionamento do eixo Z	0.5 - 200 mm/s
Comprimento máx. da peça de trabalho	450 mm
Diâmetro máx. da peça de trabalho	210 mm
Carga da mesa máx.	20 kg
Limite de erro Comprimento	$MPE \leq (2.4 + l/200) \mu\text{m}; 'l' \text{ in mm}$
Limite de erro Diâmetro	$MPE \leq (1.3 + d/150) \mu\text{m}; 'd' \text{ in mm}$
Resolução do valor medido Comprimento	0.01 - 0.0001 mm
Resolução do valor medido Diâmetro	0.01 - 0.0001 mm
Resolução angular	0.01 - 0.0001 °
Temperatura de referência	20 °C
Sistema de sensores	optical
Sistema óptico	telecentric precision optics, image field approx. 15 x 10 mm (W x H)
Sistema de câmeras	CMOS matrix camera
Equipamentos especiais	CNC table and motorized tailstock
Computador de medição	AIO PC or industrial AIO PC with UPS (each incl. Microsoft Windows 10 IoT LTSC)
Temperatura de serviço	10 °C até 35 °C
Storage and transport temperature	5 °C até 60 °C
Nível de intensidade sonora	<75 dB(A)
Umidade do ar (texto)	max. 70 %; non-condensing
Tensão de rede	90 - 240 V
Frequência de rede	50/60 Hz
Consumo de energia máx.	850 W

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Dados técnicos

Opções de transporte	suitable for air freight
Escopo de fornecimento (texto)	PC holder and two 60° centering tips (2 – 44 mm)