

Informazioni prodotto

Metrologia dimensionale Mar4D PLQ 3200-T4

Caratteristiche del prodotto

• 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)
- Joint evaluation of all collected measurement data via MarWin

• Productivity:

- Workpieces that have not been manufactured between tips are simply clamped in the chuck
- Many different measuring functions combined in one device
- Flexible measurement of workpieces with up to D=210 mm, L=450 mm and 50 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 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 through our specialized MES department



Articolo n.: 5553254

Dati tecnici

Corsa/corsa di misura asse X1	200 mm
Corsa/corsa di misura asse Z	450 mm
Velocità di posizionamento asse C	0.2 - 15 l/min
Velocità di posizionamento asse X1	0.5 - 200 mm/s
Velocità di posizionamento asse Z	0.5 - 200 mm/s
Lunghezza max. del pezzo	450 mm
Diametro del pezzo max.	210 mm
Carico max. sulla tavola	50 kg
Limite di errore lunghezza	MPE ≤ (2.4 + l/200) µm; 'l' in mm
Limite di errore diametro	MPE ≤ (1.3 + d/150) µm; 'd' in mm
Risoluzione di misura lunghezza	0.01 - 0.0001 mm
Risoluzione di misura diametro	0.01 - 0.0001 mm
Risoluzione angolare	0.01 - 0.0001 °
Temperatura di riferimento	20 °C
Sensori	optical
Sistema ottico	telecentric precision optics, image field approx. 15 x 10 mm (W x H)
Videocamera	CMOS matrix camera
Dotazione speciale	CNC table and motorized tailstock
Computer con software di misura	AIO PC or industrial AIO PC with UPS (each incl. Microsoft Windows 10 IoT LTSC)
Temperatura di esercizio	10 °C a 35 °C
Temperatura di stoccaggio e trasporto	5 °C a 60 °C
Livello di pressione acustica	<75 dB(A)
Umidità ammissibile	max. 70 %; non-condensing
tensione di rete	90 - 240 V
Frequenza di rete	50/60 Hz
Potenza assorbita max.	850 W
Trasportabilità	suitable for air freight
Standard di fornitura (testo)	PC holder and two 60° centering tips (2 - 44 mm)