

# Informazioni prodotto

## Metrologia dimensionale Mar4D PLQ 3200-T2

### Caratteristiche del prodotto

#### • 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 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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### Dati tecnici

<b>Corsa/corsa di misura asse X1</b>	200 mm
<b>Corsa/corsa di misura asse Z</b>	730 mm
<b>Velocità di posizionamento asse C</b>	0.2 - 120 l/min
<b>Velocità di posizionamento asse X1</b>	0.5 - 200 mm/s
<b>Velocità di posizionamento asse Z</b>	0.5 - 200 mm/s
<b>Lunghezza max. del pezzo</b>	730 mm
<b>Diametro del pezzo max.</b>	210 mm
<b>Carico max. sulla tavola</b>	20 kg
<b>Limite di errore lunghezza</b>	$MPE \leq (2.4 + l/200) \mu\text{m}$ ; 'l' in mm
<b>Limite di errore diametro</b>	$MPE \leq (1.3 + d/150) \mu\text{m}$ ; 'd' in mm
<b>Risoluzione di misura lunghezza</b>	0.01 - 0.0001 mm
<b>Risoluzione di misura diametro</b>	0.01 - 0.0001 mm
<b>Risoluzione angolare</b>	0.01 - 0.0001 °
<b>Temperatura di riferimento</b>	20 °C
<b>Sensori</b>	optical
<b>Sistema ottico</b>	telecentric precision optics, image field approx. 15 x 10 mm (W x H)
<b>Videocamera</b>	CMOS matrix camera
<b>Dotazione speciale</b>	motorized tailstock
<b>Computer con software di misura</b>	AIO PC or industrial AIO PC with UPS (each incl. Microsoft Windows 10 IoT LTSC)
<b>Temperatura di esercizio</b>	10 °C a 35 °C
<b>Temperatura di stoccaggio e trasporto</b>	5 °C a 60 °C
<b>Livello di pressione acustica</b>	<75 dB(A)
<b>Umidità ammissibile</b>	max. 70 %; non-condensing
<b>tensione di rete</b>	90 - 240 V
<b>Frequenza di rete</b>	50/60 Hz
<b>Potenza assorbita max.</b>	850 W
<b>Trasportabilità</b>	suitable for air freight
<b>Standard di fornitura (testo)</b>	PC holder and two 60° centering tips ( 2 - 44 mm)