

# Informace o produktu

## Rozměrová měřicí technika Mar4D PLQ 3200-T4

### Parametry

#### • 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



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### Technické parametry

<b>Dráha posuvu / měřicí dráha osy X1</b>	200 mm
<b>Dráha posuvu / měřicí dráha osy Z</b>	450 mm
<b>Rychlost polohování, osa C</b>	0.2 - 15 1/min
<b>Rychlost polohování, osa X1</b>	0.5 - 200 mm/s
<b>Rychlost polohování, osa Z</b>	0.5 - 200 mm/s
<b>Délka obrobku, max.</b>	450 mm
<b>Průměr obrobku, max.</b>	210 mm
<b>Zatížení stolu, max.</b>	50 kg
<b>Mezní chyba, délka</b>	$MPE \leq (2.4 + l/200) \mu\text{m}; 'l' \text{ in mm}$
<b>Mezní chyba, průměr</b>	$MPE \leq (1.3 + d/150) \mu\text{m}; 'd' \text{ in mm}$
<b>Rozlišení naměřených hodnot, délka</b>	0.01 - 0.0001 mm
<b>Rozlišení naměřené hodnoty, průměr</b>	0.01 - 0.0001 mm
<b>Rozlišení úhlu</b>	0.01 - 0.0001 °
<b>Referenční teplota</b>	20 °C
<b>Sensorika</b>	optical
<b>Optický systém</b>	telecentric precision optics, image field approx. 15 x 10 mm (W x H)
<b>Kamerový systém</b>	CMOS matrix camera
<b>Zvláštní vybavení</b>	CNC table and motorized tailstock
<b>Měřicí počítač</b>	AIO PC or industrial AIO PC with UPS (each incl. Microsoft Windows 10 IoT LTSC)
<b>Provozní teplota</b>	10 °C do 35 °C
<b>Teplota skladování a dopravy</b>	5 °C do 60 °C
<b>Hladina akustického tlaku</b>	<75 dB(A)
<b>Vlhkost vzduchu (text)</b>	max. 70 %; non-condensing
<b>Síťové napětí</b>	90 – 240 V
<b>Síťová frekvence</b>	50/60 Hz
<b>Příkon max.</b>	850 W
<b>Možnosti dopravy</b>	suitable for air freight
<b>Rozsah dodávky (text)</b>	PC holder and two 60° centering tips ( 2 – 44 mm)