

Contracer CV-3200 / CV-4500

Series 218 - Contour Measuring Instruments

Contracer CV-3200

- High positioning speed reduces total measurement time.
- Expanded measuring range of Z=60 mm as standard.
- Easy exchange of magnetic stylus arm gives excellent flexibility.
- The CV-3200 provides excellent accuracy and resolution in Z1-axis measurement.

Contracer CV-4500

- Dual stylus system for upward / downward measurement at double sided contours.
- Measuring force controlled by software FORMTRACEPAK.
- Easy exchange of magnetic stylus arm gives excellent flexibility.
- The CV-4500 provides high accuracy and resolution.
- High positioning speed of motorized axes.



CV-3200



CV-3200



CV-4500

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Dimensions and specifications

Specifications

X-axis	
Measuring range	100 or 200 mm
Resolution	0,05 µm
Scale	Reflective type linear encoder
Drive speed	0 - 80 mm/s and manual
Measuring speed	0,02 - 5 mm/s
Measuring direction	Forward/Backward
Traverse straightness	0,8 µm
Linear displacement accuracy (at 20°C)	±(0,8+0,01L) µm (S4, H4, W4 model) ±(0,8+0,01L) µm (S8, H8, W8 model) L : Drive length (mm)
Inclining range	±45°
Z2-axis (column)	
Vertical travel	300 or 500 mm
Resolution	1 µm
Scale	ABSOLUTE linear encoder
Drive speed	0 - 30 mm/s and manual
Z1-axis (detector unit)	
Measuring range	60 mm
Resolution	CV-3200 : 0,04 µm CV-4500 : 0,02 µm
Scale	RT detector
Linear displacement accuracy (at 20°C)	CV-3200 : ±(1,6+12HI/100) µm CV-4500 : ±(0,8+12HI/100) µm H : Measurement height from the horizontal position (mm)
Stylus up/down operation	Circular movement
Measuring face direction	Upward/Downward
Measuring force	CV-3200 : 30 mN CV-4500 : 10, 20, 30, 40, 50 mN (software controlled)
Traceable angle	Ascending 77°, descending 83° (using the standard stylus provided and depending on the surface roughness)
Stylus tip	Radius : 25 µm, carbide tip
Base size (WxH)	600 x 450 mm or 1000 x 450 mm
Base material	Granite
Mass	S4/S8 : 140 kg H4/H8 : 150 kg W4/W8 : 220 kg
Power supply	100 - 240V AC ±10%, 50/60 Hz
Power consumption	400W (main unit only)

Additional Specifications

Software FORMTRACEPAK

Allows control of all axes as well as the optional motor-driven Y-axis table and rotary table for efficient measurement automation.

Contour evaluation can be performed using analysis of level differences, angle, pitch, area and contour tolerancing as standard.

An inspection certificate can be created by setting the print format to selected requirements.