

Contracer CV-1000 / CV-2000

Series 218 - Contour Measuring Instrument

- The Z-axis is equipped with a digital scale in the detecting unit. This gives you a wider range of measurement with higher resolution. No more reliance on measurement magnifications.
- Software Formtracepak as contour analysis software, offers total support for measurement system control, contour analysis, contour tolerancing and inspection report creation.



CV-1000N2
Shown attached to the optional column stand
The CV-1000 is portable and can be moved to the machine-shop for measuring large workpieces.



CV-2000M4
Stationary contour measuring system with manual column for efficient use in production or in the laboratory.



CV-2000S4
Stationary contour measuring system with motorized column for efficient use in production or in the laboratory.



CV-100 N2

Specifications

X-axis	
Measuring range	50 or 100 mm
Resolution	0,2 µm
Scale	Reflective-type linear encoder
Drive speed	0,2, 1 mm/s and manual
Measuring speed	0,2, 0,5 mm/s
Measuring direction	Backward
Traverse straightness	CV-1000 : 3,5 µm/50 mm CV-2000 : 3,5 µm/100 mm with the X axis in horizontal orientation
Linear displacement accuracy (at 20°C)	±(3,5+2L/100) µm L : drive length (mm)
Inclining range	CV-2000 : ±45°
Z2-axis (column)	CV-2000 only
Column type	Power drive (S4) or Manual (M4)
Vertical travel	250 mm (S4), 320 mm (M4)
Drive speed	1 - 5 mm/s and manual
Z1-axis (detector unit)	
Resolution	CV-1000 : 25 mm / 0,4 µm CV-2000 : 50 mm / 0,5 µm
Scale	Arc encoder
Linear displacement accuracy (at 20°C)	±(3,5+14H/25) µm H : Measurement height from the horizontal position (mm)
Stylus up/down operation	Arc movement
Measuring face direction	Downward
Measuring force	10 - 30 mN
Traceable angle	Ascending 77°, descending 87° (using the standard stylus provided and depending on the surface roughness)
Stylus tip	Radius : 25 µm, carbide-tip
Base size (WxH)	CV-2000 : 650 x 450 mm
Base material	CV-2000 : Granite
Mass	CV-1000N2 : 5 kg CV-2000M4 : 115.8 kg CV-2000S4 : 124 kg
Power supply	100 - 240V AC ±10%, 50/60 Hz