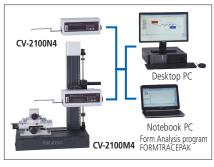
Contracer CV-2100







CV-2100M4

SPECIFICATIONS

Model No.		CV-2100M4	CV-2100N4				
Measurement	X-axis	100 mm					
range	Z1-axis (detector unit)	50 mm					
Z2-axis (column) travel range		350 mm					
X-axis inclination angle		±45°	_				
Accuracy	X-axis	$\pm (2.5+0.02L)\mu m L = Me$	easurement Length (mm)				
(20 °C)	Z1-axis	$\pm (2.5+ 0.1H)\mu M = Measurementt height$	nt from horizontal position within ±25 mm				

Note: While the appearance of the natural stone measuring table varies according to the source, the high stability for which this material is known can always be relied upon.

* For the CV-2100N4, a manual column stand is required (optionally available.)

Contracer CV-3200 MeasurLink® ENABLED **SERIES 218 — Contour Measuring** Data Management Software by Mitutoyo **Instruments** CV-3200L4 (with options) CV-3200S4

SPECIFICATIONS

Model No.		CV-3200S4	CV-3200H4	CV-3200W4	CV-3200L4	CV-3200S8	CV-3200H8	CV-3200W8	CV-3200L8	
Measuring	X-axis		100	mm		200 mm				
range	Z1-axis (detector)			60 mr	m (±30 mm f	rom the horizontal)				
Z2-axis (column) travel range		300 mm	300 mm 500 mm		700 mm	300 mm	500 mm		700 mm	
Accuracy (20 °C)	X-axis	±(0.8+0. W Na	.01L)µm L = /ide range: 1. rrow range: 1	traverse leng 8 µm/100 mr 1.05 µm/25 m	gth (mm) m nm	±(0.8+0.02L)µm L = traverse length (mm) Wide range: 4.8 µm/200 mm Narrow range: 1.3 µm/25 mm				
	Z1-axis (detector)		±(1.4+	2H /100)µm	g height from	the horizont	tal (mm)			

Note: While the appearance of the natural stone measuring table varies according to the source, the high stability for which this material is known can always be relied upon.

MeasurLink® ENABLED

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).



An inspection certificate is supplied as standard Refer to page X for details.

Contour Measuring System enabling measurement that is fast, accurate, and easy.

• The operation flow is significantly shortened by arranging the controls for stylus position change,

measurement start/ stop and return on the front of the drive unit.

Centralized front control panel

• Fine and coarse X-axis positioning can be performed easily by using the jog shuttle that covers the whole measuring range.



Motor-driven jog shuttle

• The quick-vertical-motion stand allows operators

to swiftly and easily move the drive unit to and from the measurement height without having to push or pull (only for CV-2100M4).



Ouick-vertical-motion stand



Mitutoyo

Refer to the Contracer CV-2100 Catalog (No. E15020) for more details.

Dramatically Improved High-Precision Contour Measuring Instruments.

• CV-3200 series are contour measuring instruments equipped with a high-precision arc scale and newly designed arm on the Z1axis (detector). The high-precision arc scale can directly read the arc track of the stylus tip to achieve high accuracy and resolution. The new arm has extended the Z1-axis measuring range by 10 mm while reducing the chance of interference with workpieces compared to conventional models. The arm mount can be attached/detached with a single touch on the magnet joint for improved ease of operation.





Z1-axis measuring range has been extended by 10 mm.

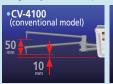
• The 700 mm Z2-axis (column) range models are new to the lineup.

PROPRIETARY INSPECTION CERTIFICATE

An inspection certificate is supplied as standard. Refer to page X for details.

Dramatically Improved High-Precision Contour Measuring Instruments.

• CV-4500 series are contour measuring instruments equipped with a high-precision arc scale and newly designed arm on the Z1-axis (detector). The high-precision arc scale can directly read the arc track of the stylus tip to achieve high accuracy and resolution. The new arm has extended the Z1-axis measuring range by 10 mm while reducing the chance of interference with workpieces compared to conventional models. The arm mount can be attached/detached with a single touch on the magnet joint for improved ease of operation.





Z1-axis measuring range has been extended by 10 mm.

- The following two features have been added exclusively for the **CV-4500** series:
- (1) Continuous measurement in the vertical direction (up/down) is available in combination with a double-sided conical stylus. Up/down continuous measurement data facilitates the analysis of the effective diameter of screw threads, which has been difficult to measure in the past.
- (2) The measuring force can be set in the **FORMTRACEPAK** software. Weight replacement and position adjustment are not required to adjust the measuring force.

Downward (Bottom plane) measurement

Upward/downward measurement direction is switchable on the software

Measuring direction

• The 700 mm Z2-axis (column) range models are new to the lineup.



Refer to the Contracer CV-3200/4500 series Catalog (No. E15010) for more details.

Contracer CV-4500 SERIES 218 — Contour Measuring Instruments





SPECIFICATIONS

Model No.		CV-4500S4	CV-4500H4	CV-4500W4	CV-4500L4	CV-4500S8	CV-4500H8	CV-4500W8	CV-4500L8		
Measuring	X-axis		100 mm				200 mm				
range	Z1-axis (detector)		60 mm (±30 mm from the horizontal)								
Z2-axis (column) travel range		300 mm	500	mm	700 mm	300 mm	500	mm	700 mm		
Z1-axis (Detector)	Scale type		Arc								
	Resolution		0.02 μm								
	Stylus up/down		Arc motion								
	Measuring direction		Forward / backward								
	Face of stylus		Vertical direction (up/down, available for continuous measurement)								
	Measuring force		10, 20, 30, 40, 50 mN (switching on the software)								
	Traceable angle		Ascent: 77°, descent: 83° (using the standard one-sided cut stylus*1 provided and depending on the surface roughness)								
		X-axis		Separate type linear scale							
	Scale type	Z2-axis (column)	ABS scale								
		X-axis	0.05 μm								
	Resolution	Z2-axis (column)	1 μm								
Drive unit		X-axis		0 to 80 mm/s or manual operation							
	Drive speed	Z2-axis (column)	0 to 30 mm/s or manual operation								
	Measuring speed	X-axis	0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0, 5.0, 10, 20 mm/s								
	Straightness*2	X-axis		0.8 µm/	100 mm		2 μm/200 mm				
	Inclination range	X-axis	±45°								
Accuracy (20 °C)		X-axis	±(0.8+0.01L)µm L = traverse length (mm) ±(0.8+0.02L)µm L = traverse length (mm) Wide range: 1.8 µm/100 mm Wide range: 4.8 µm/200 n Narrow range: 1.05 µm/25 mm Narrow range: 1.3 µm/25 n						nm ` ´		
		Z1-axis (detector)	$\pm (0.8 + 2H /100)\mu$ m H = probing height from the horizontal (mm)								
External dimensions (W×D×H)		Main unit*3	756×482 ×966 mm	756×482 ×1166 mm	1156×482 ×1176 mm	1156×492 ×1436 mm	766×482 ×966 mm	766×482 ×1166 mm	1166×482 ×1176 mm		
Mass N		Main unit	140 kg	150 kg	220 kg	270 kg	140 kg	150 kg	220 kg	270 kg	
	/										

- *1: SPH-71 (No. 354884)
- *2: In X-axis horizontal position
- *3: Base material of the main unit is Gabbro.

Note: While the appearance of the natural stone measuring table varies according to the source, the high stability for which this material is known can always be relied upon.

