



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).



Quick-vertical-motion stand

• The detector unit (Z1 axis) is equipped with a highly accurate arc scale. This scale directly tracks the arc locus of the stylus tip so that the most accurate compensation can be applied to the scale output, which leads to higher accuracy and resolution. Operators are free from bothersome operations such as measurement magnification switching and calibrating each magnification as required for analog instruments.

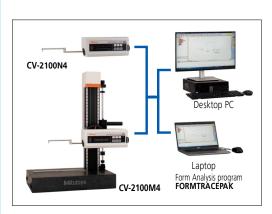




Refer to the Contracer CV-2100 Series Brochure (E15020) for more details.

Contracer CV-2100 SERIES 218 — Contour Measuring Instruments





Optional Column Stand for CV-2100N4

• Allows the use of the CV-2100N4 in a fixed configuration.

218-042 Base material: Granite Inclination range: ±45° Vertical travel: 320 mm Mass: 110 kg 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.

SPECIFICATIONS

| Model No. | | CV-2100M4 | CV-2100N4 |
|---|---------------------------------|--|------------------|
| Measuring range | X axis | 100 mm | |
| | Z1 axis (detector unit) | 50 mm | |
| Z2-axis (column) travel range | | 350 mm | |
| X-axis inclination angle | | ±45° | _ |
| Resolution | X axis | 0.1 µm | |
| | Z1 axis | 0.1 μm | |
| Drive method | X axis | Motor (0 to 20 mm/s) | |
| | Vertical travel (Z-axis column) | Manual (Quick-vertical-motion, fine) | _ |
| Measuring speed | | 0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0, 5.0 mm/s | |
| Straightness (when the X axis is horizontal) | | 2.5 μm/100 mm | |
| Accuracy (20 °C) | X axis | \pm (2.5+0.02L) μ m L = Measurement Length (mm) | |
| | Z1 axis | $\pm (2.5+ 0.1H) \mu m$ H = Measurementt height from horizontal position within ± 25 mm | |
| Measuring direction | | Both pulling and pushing directions | |
| Measuring face direction | | Downward direction | |
| Measuring force | | 30±10 mN (3 gf) | |
| Traceable angle (using the standard stylus) | | Ascent 77°, Descent 87° (according to surface property) | |
| External dimensions (W×D×H) | | 745×450×885 mm | 651×143×138.5 mm |
| Mass | | 145.8 kg | 5.8 kg |

Note 1: 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.

Note 2: For the CV-2100N4, a manual column stand (optionally available) or custom fixture is required.

