



An inspection certificate is supplied as standard. Refer to page U-11 for details.

FORMTRACER Avant C3000/4000 Series SERIES 218 — Surface Texture Measuring Instruments

- **FORMTRACER Avant C3000/4000** series are highly functional and user-friendly contour measuring systems with innovative design features.

- Often a special method of workholding, such as a custom jig, is required to measure an inclined workpiece surface but this is not needed if you select a model from the **FORMTRACER Avant C3000/4000** series since these have an inclining drive unit to handle this situation. This feature makes approaching the target surface and measurement of a large workpiece much easier.



Inclined drive unit

- The new style remote box has been developed in pursuit of operational usability. An overdrive knob controls the drive speed in real time and is very convenient when fine positioning is required. Another new feature is a part program key that strongly supports creation of measurement part programs, including a move command for manual operation and a measurement start command.

- High throughput is achieved thanks to high drive speed (X axis: Max. 80 mm/s, Z2 axis: Max. 30 mm/s) and acceleration (X axis: 30 mm/s²).

- All connecting cables are contained within the measuring instrument to eliminate any inconvenience during measurement.



Connecting cables are contained within the measuring instrument.

- Since the Z1-axis detector incorporates an anti-collision safety device, the detector unit will automatically stop if it touches a workpiece or fixture.

- A detector for measuring contours can be retrofitted.

- The arm of the detector for contour measurement has a magnetic one-touch detachable mechanism that improves usability.

- **C4000** type is a highly functional contour measuring system that has a digital detector (measuring range: 60 mm, resolution: 0.02 μm) that enables a Wide range measurement, top/bottom plane continuous measurement function, automatic variable measuring force function and stylus drop detection function.



FTA-S4C3000



FTA-S4C4000



Large sized base models and high-column models are added to the line-up.



Remote box with user-friendly operability



Detector

SPECIFICATIONS

Model No.	FTA-S4C3000	FTA-H4C3000	FTA-W4C3000	FTA-L4C3000	FTA-S8C3000	FTA-H8C3000	FTA-W8C3000	FTA-L8C3000
	FTA-S4C4000	FTA-H4C4000	FTA-W4C4000	FTA-L4C4000	FTA-S8C4000	FTA-H8C4000	FTA-W8C4000	FTA-L8C4000
Measuring range	X axis				100 mm		200 mm	
	Z1 axis				60 mm (±30 mm in horizontal situation)			
Straightness (when the X axis is horizontal)		0.8 μm/100 mm				2 μm/200 mm		
Accuracy (20 °C)	C3000	X axis	(0.8+0.01L) μm L = Measurement Length (mm)			(0.8+0.015L) μm L = Measurement Length (mm)		
		Z1 axis (detector unit)	±(1.2+ 2H /100) μm H = Measurement height from the horizontal position (mm)					
	C4000	X axis	(0.8+0.01L) μm L = Measurement Length (mm)			(0.8+0.015L) μm L = Measurement Length (mm)		
		Z1 axis (detector unit)	±(0.8+ 2H /100) μm H = Measurement height from the horizontal position (mm)					
X-axis inclination angle		±45°						
Z2-axis (column) travel range		300 mm	500 mm	700 mm	300 mm	500 mm	700 mm	
Base size (W × D)		600 × 450 mm		1000 × 450 mm		600 × 450 mm		1000 × 450 mm
Base material		Granite						

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.