

SURFCOM 2800G



Advanced Functions and Superior Operational Ease



※ Printer is optional

TiMS Integrated Measuring System (Roughness/Contour)

Simply touch the icon to change between the roughness and contour measuring modes. Measured data can be combined when printed.

AI Function (Roughness) (patented)

The AI function automatically sets the measuring conditions and executes measurement.

Automatic Operation Teaching/Playback Function (Roughness/Contour)

This function automatically stores measurement and analysis procedures in the memory, including drive unit and column movements. This enables CNC measurements to be performed.

Dimension Line Display Function (Contour)

This enables dimension lines to be drawn on the diagram along with actual measured values for parameters and geometric deviation.

Built-in Shape Merge Function

The profile synthesis function eliminates the analysis range limitation created by the stylus angle (contour).

High Precision Contour Detectors are Standard equipment

The laser optical diffraction scale is adopted, and high resolution has been achieved.

Model		SURFCOM 2800G									
		-11	-12	-13	-14	-21	-22	-23	-24		
Measuring Range	Z-axis (vertical)	Roughness 800 μ m Contour 50mm									
	X-axis (horizontal)	100mm			200mm						
Accuracy	Roughness Detectors	Measuring Resolution 0.01 μ m/800 μ m range 0.0004 μ m/25 μ m range (0.0001 μ m/6.4 μ m range) ^{*1}									
	Contour Detectors	Z-axis Indication Accuracy (vertical) $\pm(0.8+ 4H /100)\mu$ H:(Measuring length)									
		Resolution 0.025 μ m / Full range									
	Tracing driver (Roughness)	X-axis Resolution 0.04 μ m or 32,000 points (300,000 data uptake points)									
Tracing driver (Contour)	X-axis Indication Accuracy (horizontal) $\pm(1+2L/100)\mu$										
	Resolution 0.1 μ m										
Straightness accuracy		Roughness System:(0.05+1.5L/1000) μ m, Contour System:1 μ m/100mm, 2 μ m/200mm									
Sensing method	X-axis (horizontal)		Moiré striped scale			Linear scale					
	Detectors	Roughness Detector	Differential transducer								
Contour Detector		Laser optical diffraction scale									
Speed	Column up/down speed (Z-axis)		—	10mm/s (3mm/s) ^{*2}		—	10mm/s (3mm/s) ^{*2}				
	Sensor		Measuring:0.03, 0.06, 0.15, 0.3, 0.6, 1.5, 3, 6mm/s (8 speeds)								
Sensor Unit	Roughness	Stylus, Measuring Force Changeable, 0.75mN									
		Stylus radius (Stylus material) 2 μ mR(60° conical diamond), one equipped as standard									
	Contour	Stylus, Measuring Force Changeable, 10 ~ 30mN, Retract function									
		Stylus radius (Stylus material) 25 μ mR(24° conical Tungsten Carbide), two equipped as standard									
Moving Range		Pickup movement drive distance 100mm 200mm									
Stone table dimensions and weight	Dimensions		600X317mm		1000X450mm		600X317mm		1000X450mm		
	Max. load ^{*3}		40kg	35kg	26kg	41kg	35kg	29kg	20kg	35kg	
Dimensions and weight	Installation dimensions ★	Width	2000mm			2300mm		2000mm		2300mm	
		Depth	1000mm								
		Height	1700mm			1900mm		1700mm		1900mm	
	Installation dimensions		120kg	125kg	135kg	240kg	125kg	130kg	140kg	245kg	
Power source Power consumption		Single phase AC100~240V \pm 10% grounding required, 50/60Hz / 710VA									

* 1: When high-magnification pickup is used.

* 2: J/S Operation

* 3: Desktop Anti-vibration table(E-VS-S57B) is used with -11,-12,-13,-21,-22,-23. Anti-vibration table(E-VS-R16B) is used with -14,-24.

★ Optional ordinary stand, anti-vibration table, and computer rack included in dimensions.