





Standard Series

URFCOM 2800G

Advanced Functions and Superior Operational Ease



SURFCOM 1800G

Surface Texture and Contour Analysis Integrated Measuring Instrument



Al Function (Roughness)

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

Automatic Operation Teaching/Playback Function (Roughness/Contour)

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

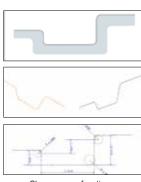
Dimension Line Display Function (Contour)

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).

With normal measuring systems, limits are imposed on the measuring angle by the detector stylus angle. ACCRETECH has solved this problem by synthesizing the data for two

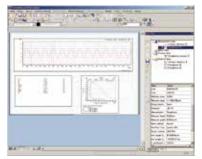


Shape merge function

SURFCOM 2800G SURFCOM 1800G

ACCTee Measurement & Analysis Software

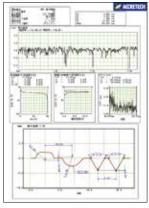
ACCTee is surface texture and contour profile measurement and analysis software with enhanced operability. Provided with wizard modes for easier operation, as well as a variety of support functions such as "Al function", "self-diagnosis function" and "peak and valley detection function", ACCTee makes all measurement tasks easier and more efficient.



Roughness analysis function (ACCTee)



Peak and Valley function (ACCTee)



Print data sheet

Specifications

Model						SURFCOM 2800G/1800G							
Model					-11	-12	-13	-14	-21	-22	-23	-24	
Measuring range Z-axis (vertical)					50 mm								
X-ax			X-axis (horizontal)		100 mm 200 mm								
Accu- racy		Roughness	Measuring range		800 μm range to 25 μm range (6.4 μm range) ²								
	S18000		Resolution		0.02 μm to 0.0004 μm (0.0001 μm) ²								
	series	Contour	Z-axis indication accuracy (vertical)		±0.25% (full scale)								
		Contour	Resolution		0.1 μm/5 mm range, 0.4 μm/20 mm range, 1 μm/50 mm range								
		Roughness	Measuring range		800 μm range to 25 μm range (6.4 μm range) ²								
	S28000		Resolution		0.02 μm to 0.0004 μm (0.0001 μm) ²								
	series	Contour	Z-axis indication accuracy (vertical)		±(0.8 + 4H /100) µm (H: Measuring height mm)								
		Contour	Resolution		0.025 μm/Full range								
	Commo	Contour	X-axis indication accuracy (horizontal)		±(1 + 2L/100) μm (L: Measuring length mm)								
Resolution					0.04 μm								
			Straightness Roughness		0.05 + 1.5L/1000 µm (L				: Measuring length mm)				
Tracing driver			accuracy	Contour		1 μm/100 mm 2 μm/200 mm							
			Sensing method		Moire striped scale				Linear scale				
			Measuring speed		0.03, 0.06, 0.15, 0.3, 0.6,			1.5, 3, 6 mm/s (8 speeds)					
			Colum up/down speed (Z-axis)		_		10 mm/s		_		10 mm/s		
			S1800G	Roughness									
		Sensing	series	Contour	Differential transducer								
		method	S2800G	Roughness									
			series	Contour	Laser optical diffraction scale								
Detector		Roughness	Stylus, measuring force		Replaceable, 0.75 mN								
		measurement	, ,		Roughness: Rtip 2 µm (60°conical diamond) Waviness: Rtip 800 µm (Ruby ball) Each stylus equipped as standard								
		Contour	Stylus, measuring force, function		Replaceable, 10 mN to 30 mN, and stepless (retraction) function								
		measurement	Stylus radius (material)		Rtip 25 µm (24°conical carbide) Two pieces equipped as standard								
			Measuring direction, position		Pull/push and Up/down directions, Max. following angle: 77°								
Operation range Tracing driver stroke				100 mm			200 mm						
3			Column up/down stroke			mm) mm		mm) mm	
			Dimensions In use of desktop anti-vibration table (E-VS-S57C/S320A)			35 kg	25 kg	1000 x 450 mm	35 kg	30 x 317 m	20 kg	1000 x 450 mr	
Granite t	toblo .		In use of desktop anti-vibration table (E-vS-S5/C/S320A) In use of large-size desktop anti-vibration table (E-VS-S321A)		50 kg	40 kg	30 kg	90 kg	50 kg	30 kg 40 kg	30 kg	85 kg	
Granite i		Permissible loading weight	In use of anti-vibration table (E-VS-R16 E)		50 kg	40 kg	30 kg	50 kg	50 kg	40 kg	30 kg	45 kg	
		loading Worgin	In use of anti-vibration table (E-VS-S286B)			40 kg	30 kg			40 kg		100 kg	
			in use of anti-vibration to	Width	50 kg		30 kg	100 kg	50 kg	2000 mm	30 kg		
			Installation		2000 mm 2300 mm 1000 mm			2000 mm 1000 m) mm	2300 mm		
Other		dimensions*1	<u> </u>	1700 mm		1900 mm		1700 mm					
		Woight	Height			1900 mm				1900 mm			
		Weight Rever supply frequency consumption											
			Power supply, frequency, consumption		Single-phase AC 100 V ±10% (grounding required), 50 Hz/60 Hz, 710 VA								

^{*1:} The dimensions of -11, -12, -13, -21, -22, -23 include the optional stand (E-VS-S13A), desktop anti-vibration table (E-VS-S57C) and computer rack (E-DK-S24A). The dimensions of -14, -24 include the optional large anti-vibration table (E-VS-R16E) and computer rack (E-DK-S24A).

^{*2:} The value is in use of high magnification pickup.