





Standard Series

URFCOM 2800G

Advanced Functions and Superior Operational Ease



SURFCOM 1800G

Surface Texture and Contour Analysis Integrated Measuring Instrument



Al Function (Roughness) patented

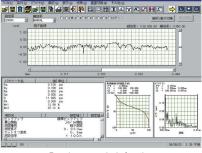
The AI function automatically sets the measurement conditions and executes measurement.

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.

1 4 4 V W X K 4 1

Dimension line display function



Roughness analysis function

Dimension Line Display Function (Contour)

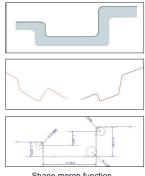
This enables dimension lines to be drawn on the diagram along with actual measured values for parameters and geometric deviation.

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 profiles.

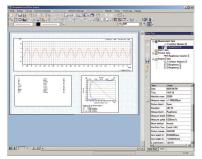


Shape merge function

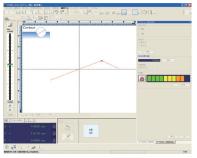
SURFCOM 2800G SURFCOM 1800G

ACCTee Measurement & Analysis Software

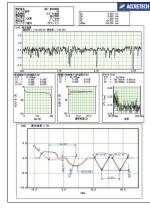
ACCTee is surface texture and contour profile measurement and analysis software with enhanced operability. Provided with wizard modes for easier operation, as well as a variety of support functions such as "Al function", "self-diagnosis function" and "peak and valley detection function", ACCTee makes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



Roughness analysis function (ACCTee)



Peak and Valley function (ACCTee)



Print data sheet

Specifications

Maria .						SURFCOM 2800G/1800G							
Model					-11	-12	-13	-14	-21	-22	-23	-24	
Z-axis (vertical)						50 mm							
Measuring range			X-axis (horizontal)		100 mm 200 mm								
		Roughness	Measuring range		800 μm range to 25 μm range (6.4 μm range) ^{*3}								
Accuracy	S1800G	Nougilliess	Resolution		0.02 µm to 0.0004 µm (0.0001 µm) ^{*3}								
	series	Contour	Z-axis indication accuracy (vertical)		±0.25% (full scale)								
			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) ^{*3}								
	S2800G	Nougilless	Resolution		0.02 μm to 0.0004 μm (0.0001 μm) ^{*3}								
	series	Contour	Z-axis indication accuracy (vertical)		±(0.8 + 4H /100) μm (H: Measuring height mm)								
			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)					n)			
Tanada a dabaa			accuracy	Contour		1 μm/100 mm 2 μm/200 mm							
Tracing driver			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 (3 mm/s)*1				— 10 mm/s (3 mm/s)*1				
			S1800G	Roughness									
		ensing ethod	series	Contour	Differential transducer								
	n		S2800G series	Roughness									
				Contour	Laser optical diffraction scale								
Detector		Roughness	Stylus, measuring force		Replaceable, 0.75 mN								
	n	neasurement	, ,		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								
		neasurement	Stylus radius (material)		Rtip 25 µm (24°conical carbide) Two pieces equipped as standard								
			Measuring direction, position		· · · · · · · · · · · · · · · · · · ·				ons, Max. following angle: 77°				
Operation range			Tracing driver stroke		100 mm			200 mm			-		
			Column up/down stroke		250 mm			mm	250 mm			mm	
			Dimensions			00 x 317 m		1000 x 450 mm		00 x 317 m		1000 x 450 mn	
			In use of desktop anti-vibration table (E-VS-S57B/S58B)		40 kg	34 kg	25 kg	-	34 kg	28 kg	19 kg	-	
Grinate ta		Permissible	In use of large-size desktop anti-vibration table (E-VS-S45A)		50 kg	40 kg	30 kg	90 kg	50 kg	40 kg	30 kg	84 kg	
	IC	pading weight	In use of anti-vibration table (E-VS-R16 B)		50 kg	40 kg	30 kg	40 kg	50 kg	40 kg	30 kg	34 kg	
			In use of anti-vibration	on table (E-VS-R21 B)	50 kg	40 kg	30 kg	100 kg	50 kg	40 kg	30 kg	100 kg	
			Installation	Width		2000 mm 2300 mm 2000 mm 2300 mm							
Other		dimensions*2	Depth	1000 mm) mm			
				Height	1700 mm		1900 mm		1700 mm		1900 mm		
			Weight		120 kg	125 kg	135 kg	240 kg	125 kg	135 kg	140 kg	245 kg	
			Power supply, frequency, consumption Single-phase AC 100 V ±10% (grounding required), 50 Hz/60 Hz, 710 VA							VA			

^{*1:} For joystick operation



^{*2:} The dimensions of -11,-12,-13,-21,-22,-23 include the optional stand (E-VS-S13A), desktop anti-vibration table (E-VS-S57B) and computer rack (E-DK-S24A). The dimensions of -14,-24 include the optional large anti-vibration table (E-VS-R16D) and computer rack (E-DK-S24A).

*3: The value is in use of high magnification pickup.