







Standard Series

SURFCOM 2800G



Printer is optional

SURFCOM 2800G

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.

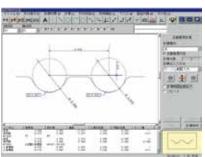
sis mn

Dimension Line Display Function (Contour)

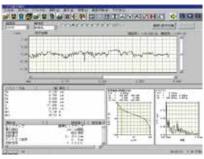
This enables dimension lines to be drawn on the diagram along with actual measured values for parameters and geometric deviation.

Built-in Shape Merge Function

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



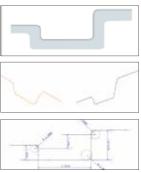
Dimension line display function (TiMS)



Roughness analysis function (TiMS)



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.

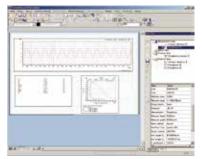


Shape merge function

SURFCOM 2800G SURFCOM 1800G

ACCTee Measurement & Analysis Software

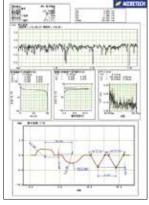
ACCTee is surface texture and contour profile measurement and analysis software with enhanced operability. Provided with wizard modes for easier operation, as well as a variety of support functions such as "Al function", "self-diagnosis function" and "peak and valley detection function", ACCTee makes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



Roughness analysis function (ACCTee)



Peak and Valley function (ACCTee)



Print data sheet

Specifications

Model						SURFCOM 2800G/1800G							
Model					-11	-12	-13	-14	-21	-22	-23	-24	
Measuring range Z-axis (vertical)					50 mm								
weasuring range			X-axis (horizontal)		100 mm 200 mm								
Accuracy	S1800G series	Roughness	Measuring range		800 μm range to 25 μm range (6.4 μm range) ³								
			Resolution		0.02 μm to 0.0004 μm (0.0001 μm) ^{*3}								
		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								
		Poughnoss	Measuring range		800 μm range to 25 μm range (6.4 μm range) ³								
	S2800G	Roughness	Resolution		0.02 μm to 0.0004 μm (0.0001 μm) ^{*3}								
	series	Contour	Z-axis indication accuracy (vertical)		± (0.8 + 2H /100) µm (H: Measuring height mm)								
			Resolution		0.025 μm/Full range								
	Common item		X-axis indication accuracy (horizontal)		± (1 + 2L/100) μm (L: Measuring length mm)								
	Common	ritem	Resolution		0.04 μm								
Tracing driver			Straightness Roughness		0.05 + 1.5L/1000 μm (L: Measuring length mm)								
			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 (3mm/s) ^{*1} — 10 mm/s (3 mm/s) ^{*1}								
			S1800G	Roughness									
		Sensing	series	Contour	Differential transducer								
	m	ethod	S2800G series	Roughness									
				Contour	Laser optical diffraction scale								
Detector		oughness	Stylus, measuring force		Replaceable, 0.75 mN								
		measurement			Roughness: 2 µmR (60° conical diamond) Waviness: 800 µmR (Ruby ball) Each stylus equipped as standard								
		ontour	Stylus, measuring force, function		Replaceable, 10 mN to 30 mN, and stepless (retraction) function								
		easurement	Stylus radius (material)		25 μmR (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 stro				oke	100 mm 200 mm								
operation range			Column up/down stroke		250	mm	450	mm	250	mm	450) mm	
			Dimensions		6	00 x 317 m	m	1000 x 450 mm	6	00 x 317 m	m	1000 x 450 mm	
			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		i cilliosibic	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	
		loading 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		-	1000					
			Height	1700) mm	1900	0 mm	1700) mm	190	0 mm		
		Weight		120 kg	125 kg	135 kg	240 kg	125 kg	135 kg	140 kg	245 kg		
			Power supply, frequency	Single-phase AC 100 V ±10% (grounding required), 50 Hz/60 Hz, 710 VA									

^{*1:} For joystick operation

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



^{*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-R16B) and computer rack (E-DK-S24A).