



Standard Series

SURFCOM 1400G

Superior Operability & Automation from Measurements to Inspection Report Creation



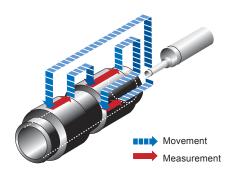


Al Function Simplifies Measurements patented

- The unit automatically selects the measuring conditions without setting them in advance (roughness measurement).
- A lesson mode is available to teach the user the operation procedures. This is a reflection of ACCRETECH's commitment to create measuring instruments that anyone can use.

Automation Enhances Measurement Efficiency

The teaching function can be used to automate a series of operations, from measurement at multiple locations to generation of an inspection report by pasting the data.



Evaluation Functions Dramatically Strengthened

Reflecting customer requests for more evaluation functions, this unit includes standards for film thickness measurement (step/area), wear volume calculation (superimposed profile area) and LCD glass substrate (special waviness).

Complies with World Standards

- This model complies with the latest ISO, JIS, DIN, ASME, CNOMO and other standards, and has cleared the requirements for the European safety standard CE marking.
- It supports operation using Japanese, Chinese, Korean English, German, French, Italian and Spanish.

Freedom to Re-Analyze

Re-analysis can be performed easily after changing the measurement standard (linear, first half, latter half, round surface, both end), configuring the evaluation range, and removing defective data from a notch.

Outstanding Expandability

The unit can be easily and efficiently upgraded to meet evolving needs. This includes upgrading from two-dimensional to three-dimensional roughness, or adding profile capability.

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Availability of a Variety of Pickups (Detectors)(Option)

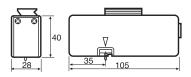
A wide variety of detectors are available in accordance with the measurement needs of customers.

*Provision of custom-made pickups will be considered upon customer request.

High-magnification pickup

Low measuring pressure and stylus with a tip radius of 1µm enable roughness measurement at a higher accuracy.

*Low measuring pressure allows measurement of easily scratched or soft materials.

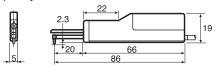


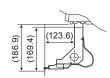
E-DT-SH01B

- Max. magnification: x500000
- Measuring force 0.2 mN
- With 0162854 stylus

Thin pickup

Can be used for horizontal trace measurement of crankshaft pins, journals, etc.

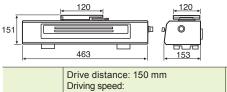




DM42001-A DM42011-A		• With 0102501 dedicated stylus DM42001-A: for S1400, S1800, S2800 DM42011-A: for S480				
E-DH-S60A	Holder for the above-mentioned pickup	Used for horizontal trace measurement of crankshaft pins, journals, etc.				

Workpiece movement tracing driver

Depending on kinds, available types vary between 50 mm drive and 300 mm drive. With leveling adjustment function in the standard specifications, this product has been used for high accuracy waviness measurement of glass plates, etc. by many customers.



E-RM-S76B

Driving speed:
0.03 mm/s to 6.0 mm/s, 8 speeds
Straightness accuracy:
(0.05 + 1.5L/1000) µm

(0.05 + 1.5L/1000) µm
Weight: about 20 kg
Load weight: 5 kg
Leveling range: ±1°

Cannot be used for Linear series. Requires pickup holder

Specifications

Madel				SURFCOM 1400G								
Model					-12	-13	-14	-21	-22	-23	-24	
Z-axis (vertical)			800 μm									
Measuring rang	е	X-axis (horizontal)		100 mm					200 mm			
Accuracy		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									
Resolution				0.04µm								
Tracing driver		Straightness accuracy		0.05 + 1.5L/1000 μm (L: Measuring length mm)								
		Sensing method		Moire striped scale			Linear scale					
		Measuring speed		0.03, 0.06, 0.15, 0.3, 0				0.6, 1.5, 3, 6 mm/s (8 speed)				
		Colum up/down	speed (Z-axis)	_	10 ו	10 mm/s (3 mm/s)*1		_	1	10 mm/s (3 mm/s)*1		
	Sensing met	ihod		Differential transducer								
Detector	Roughness	Stylus,	measuring force	Replaceable, 0.75 mN								
	measuremer	nt Stylus	Stylus radius (material) Roughness: Rtip 2 µm (60°conical diamond) Waviness: Rtip 800 µm (Ruby ball) Each stylus equipped as st							quipped as standard		
Operation range		Tracing driver stroke		100 mm				200 mm				
Operation range		Column up/down stroke		250	250 mm 450 mm) mm	250 mm		450 mm		
		Dimensions		6	00 x 317 m	nm 1000 x 450 mm		600 x 317 mn		m	1000 x 450 mm	
	Permissible loading weight	In use of desktop anti-vibra	tion table (E-VS-S57B/S58B)	48 kg	42 kg	33 kg	-	43 kg	37 kg	28 kg	-	
Grinate table		n use of large-size desktop anti-vibration table (E-VS-S45A)		50 kg	40 kg	30 kg	98 kg	50 kg	40 kg	30 kg	93 kg	
		n use of anti-vibration table (E-VS-R16 B)		50 kg	40 kg	30 kg	48 kg	50 kg	40 kg	30 kg	43 kg	
		In use of anti-vibration table (E-VS-R21 B)		50 kg	40 kg	30 kg	100 kg	50 kg	40 kg	30 kg	100 kg	
		Landalla Can	Width	2000 mm			2300 mm	2000 mm			2300 mm	
		Installation dimensions*2	Depth	1000 mm				1000 mm				
Other			Height	1700 mm		190	1900 mm		1700 mm		1900 mm	
		Weight	115 kg	120 kg	130 kg	235 kg	120 kg	125 kg	135 kg	240 kg		
		Power supply, frequency, consumption		Single-phase AC 100 V ±10% (grounding required), 50 Hz/60 Hz, 710 VA								

^{*1 :} For joystick operation.

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.



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