Surface Texture Measuring Instruments

SURFCOM 1400G

Superior Operating Easy & Automation from Measurements to Inspection Report Creation

※Printer is optional

Reanalysis After One Measurement
Data can be reanalyzed after one measurement is performed. The measurement standard (linear, first half, latter half, round surface, both end) can be changed to set the measuring range for analysis, or the defective data for a notch can be removed.

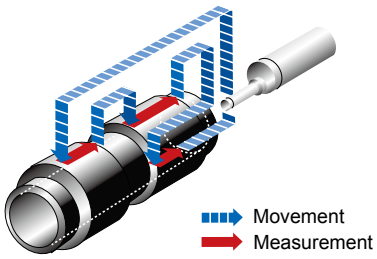
Outstanding Expandability
The unit can be easily and efficiently upgraded to meet evolving needs. This includes upgrading from two-dimensional to three-dimensional roughness, or adding profile capability.

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.

AI Function Simplifies Measurements (patented)
The unit automatically selects the measuring conditions without setting them in advance (roughness measurement). In addition, 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.

Evaluation Functions Dramatically Strengthened
A variety of customer requests for more evaluation functions have been reflected in the 1400D. These include accommodation of 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, English, German, French, Italian, Spanish, Chinese, and Korean. Contact ACCRETECH before taking this model to a country outside of Japan.



Model			SURFCOM 1400G							
			-11	-12	-13	-14	-21	-22	-23	-24
Measuring Range		Z-axis (vertical)	800μm							
		X-axis (horizontal)	100mm				200mm			
Accuracy	Detectors	Z-axis indication accuracy (vertical)	0.01μm/800μm range~0.0004μm/25μm range (0.0001μm/6.4μm range) ＊1							
	Tracing driver	Measuring Resolution	0.04μm or 32,000 points (300,000 data uptake points)							
Straightness accuracy			(0.05+1.5L/1000)μm							
Sensing method		X-axis (horizontal)	Moiré striped scale				Linear scale			
		Detectors	Differential transducer							
Speed		Column up/down speed (Z-axis)	—	10mm/s (3mm/s) ＊2			—	10mm/s (3mm/s) ＊2		
		Speed (X-axis)	Measuring : 0.03, 0.06, 0.15, 0.3, 0.6, 1.5, 3, 6mm/s(8 speeds)							
Detectors		Stylus, Measuring Force	Changeable, 0.75mN							
		Stylus radius (Stylus material)	2μmR(60°conical diamond), one equipped as standard							
Moving range		Pickup movement drive distance	100mm				200mm			
		Column up/down stroke	250mm		450mm		250mm		450mm	
Stone table dimensions and weight		Dimensions	600X317mm			1000X450mm	600X317mm			1000X450mm
		Max. load ＊3	41kg	35kg	26kg	41kg	35kg	29kg	20kg	35kg
Dimensions and weight	Installation dimensions ★	Width	2000mm			2300mm	2000mm			2300mm
		Depth	1000mm				1000mm			
		Height	1700mm		1900mm		1700mm		1900mm	
	Weight		120kg	125kg	135kg	240kg	125kg	130kg	140kg	245kg
	Power source/power consumption		Single phase AC100~240V±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.