



SURFCOM CREST Lp

ENGLISH



NEW

Surface Texture and Contour  
Non contact Measuring Instruments

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TOKYO SEIMITSU

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## Surface Texture and Contour Non contact Measuring Instrument

It enables to measure the work which can not be contacted or stylus can not be reached.

## ISO compliance

ISO25178-605-compliant autofocusing surface texture and contour measuring instrument.

## High data consistency with stylus-based instrument

This machine adopts an autofocusing, which is unsusceptible to work's reflectivity and color.

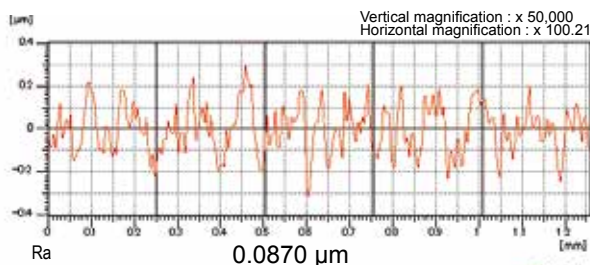
## Wide Measurement Range

Wide measuring range of Z : 10 mm and X : 200 mm. Measurement of large work is also available.

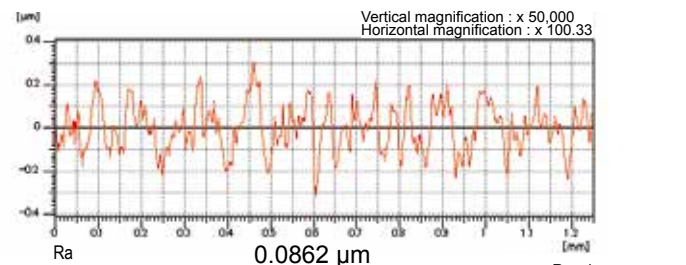
- Equipped with two measuring modes (index/scan) and select by the usage.
- Adopted advanced software ACCTee.



### Example of Standard sample measurement (Halle SN6349 : Ra=0.0860 μm)

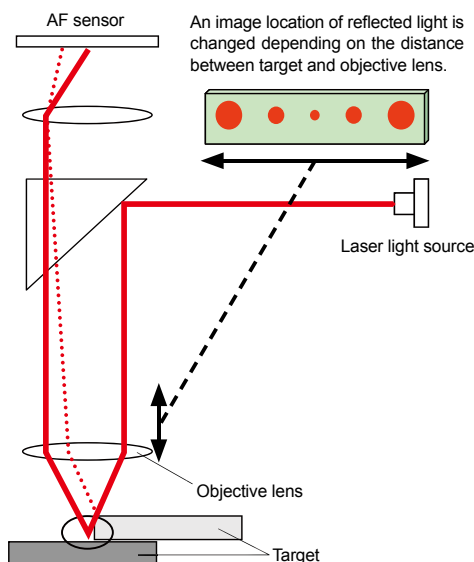


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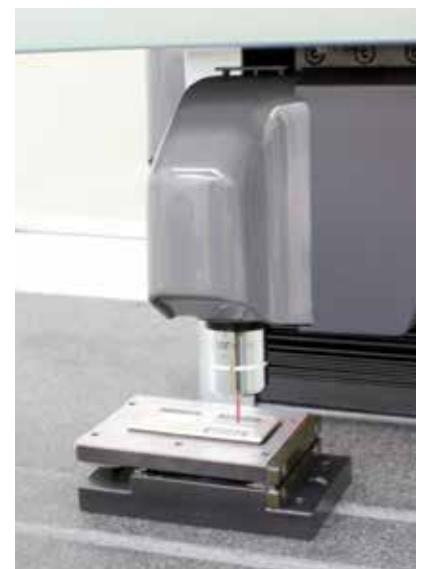
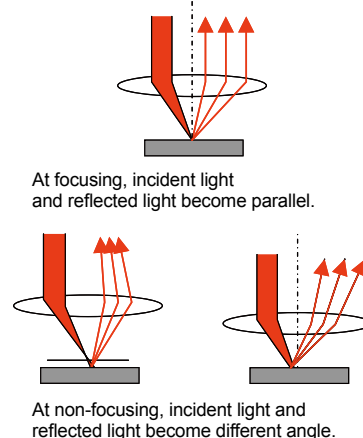


Stylus-based measurement

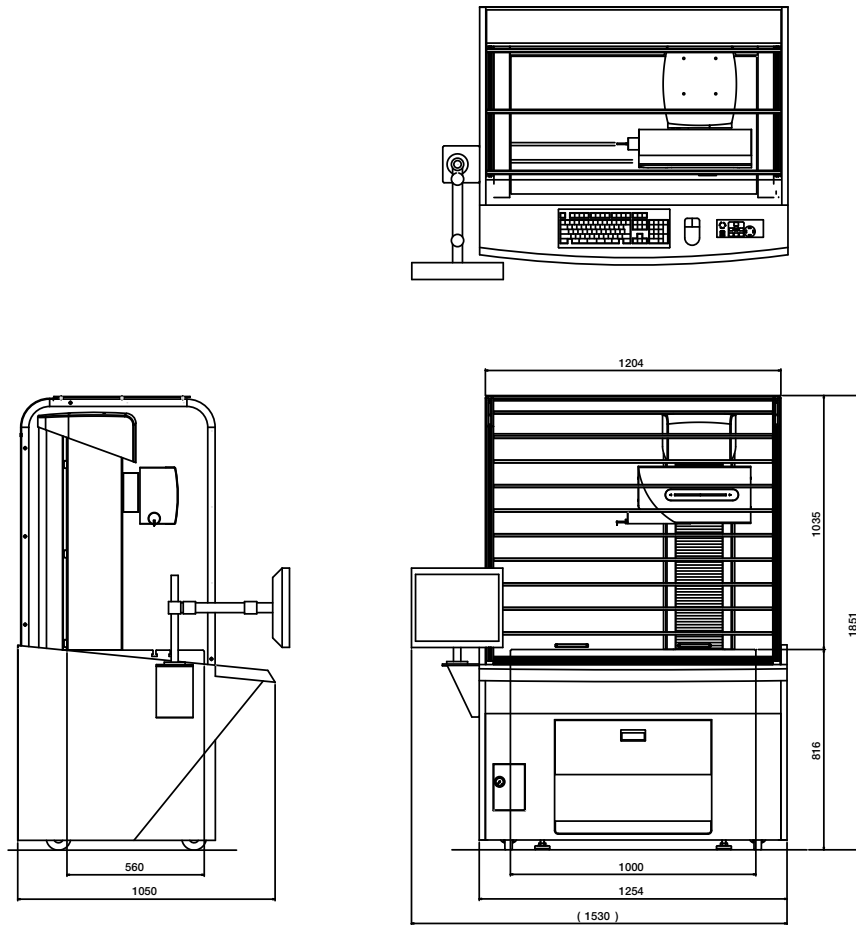
### Autofocusing principle



- ① Focus on with image location on AF sensor.
- ② Read the position of objective lens with scale.



## External View



## Specification

Model		SURFCOM CREST Lp		
Detection method	Z-axis (vertical)	Point autofocusing		
	X-axis (horizontal)	Optical diffraction scale		
Detector	Measurement range	10 mm		
	Resolution	1 nm		
	Indication accuracy (vertical) *1	$\pm(0.1 + 0.4 H/10) \mu\text{m}$ , *H: Measuring height mm 0.3 $\mu\text{m}/5 \text{ mm}$		
	measuring position	Downward		
	Laser spot diameter	1 $\mu\text{m}$ (x100 objective lens)		
	Laser light output	Below 1 mW (Class 2)		
	Working distance	4.5 mm (x100 objective lens)		
	Measuring position	Downward		
Safety function	Auto stop function, Safety stop function by contact			
Tracing driver	Measurement range	200 mm		
	Resolution	0.54 nm		
	Measurement point sampling interval	0.5 to 100 $\mu\text{m}$ *0.1 $\mu\text{m}$ unit		
	Indication accuracy	$\pm(0.3 + L/1000) \mu\text{m}$ *L: Measuring length ( $\pm 0.5 \mu\text{m}/200 \text{ mm}$ )		
	Straightness accuracy	0.12 + 1.5 L/1000 $\mu\text{m}$ *L: Measuring length (0.42 $\mu\text{m}/200 \text{ mm}$ )		
	Measurement speed	INDEX	Dependent on index pitch and work profile.	
		SCAN	0.03 to 0.15 mm/s	
Tracing driver moving speed	0.02 to 20 mm/s			
Column	Stroke	360 mm		
	Column moving speed	to 50 mm/s (Max. 10 mm/s at fall time)		
Other	Installation dimensions (W × D × H)	1530 × 1050 × 1851 mm		
	Total Weight	720 kg		
	Power supply	Single-phase AC100 to 230 V $\pm$ 10% (50/60 Hz)		
	Air supply	0.4 MPa		

\*1 Indication accuracy may be influenced by profile of surface

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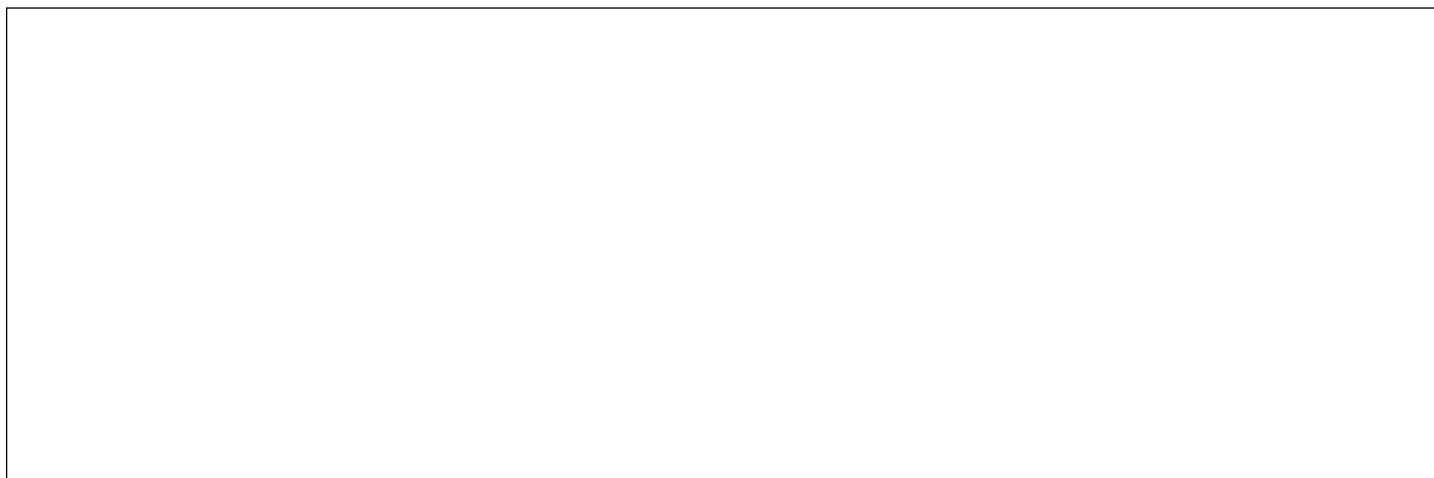
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