



SURFCOM CREST Lp

ENGLISH



NEW

Surface Texture and Contour
Non contact Measuring Instruments

SURFCOM CREST Lp

SURFCOM CREST Lp



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 insusceptible to work's reflectivity and color.

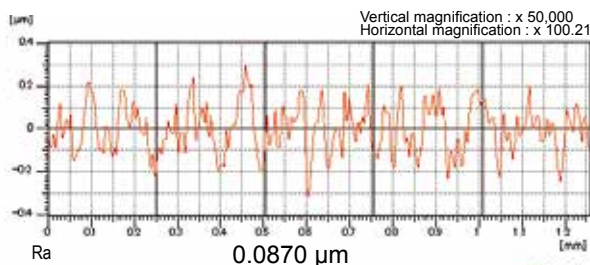
Wide Measurement Range

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

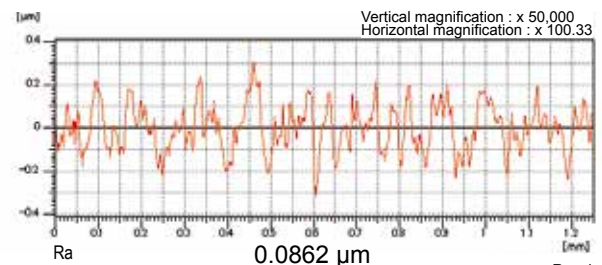
- Equipped with two measuring modes (index/scan) and select by the usage.
- Adopted advanced software ACCTee.



Example of Standard sample measurement (Halle SN6349 : Ra=0.0860 μ m)



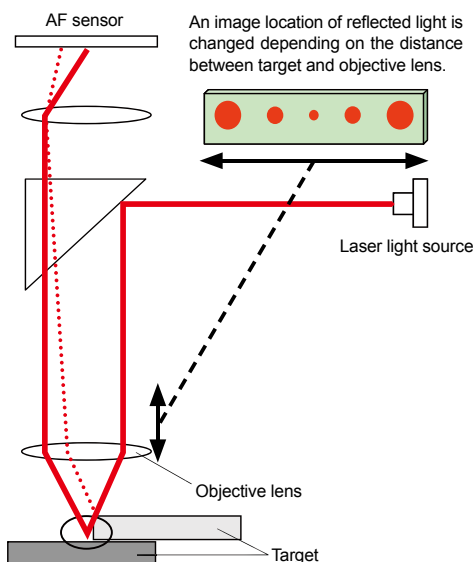
SURFCOM CREST Lp



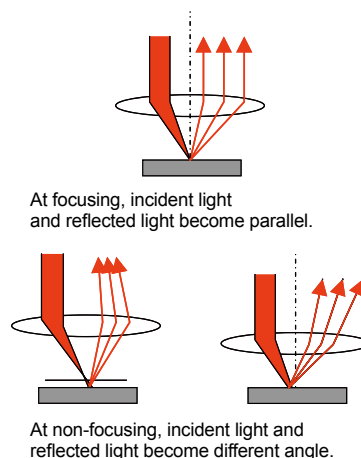
Stylus-based measurement

Roughness curve

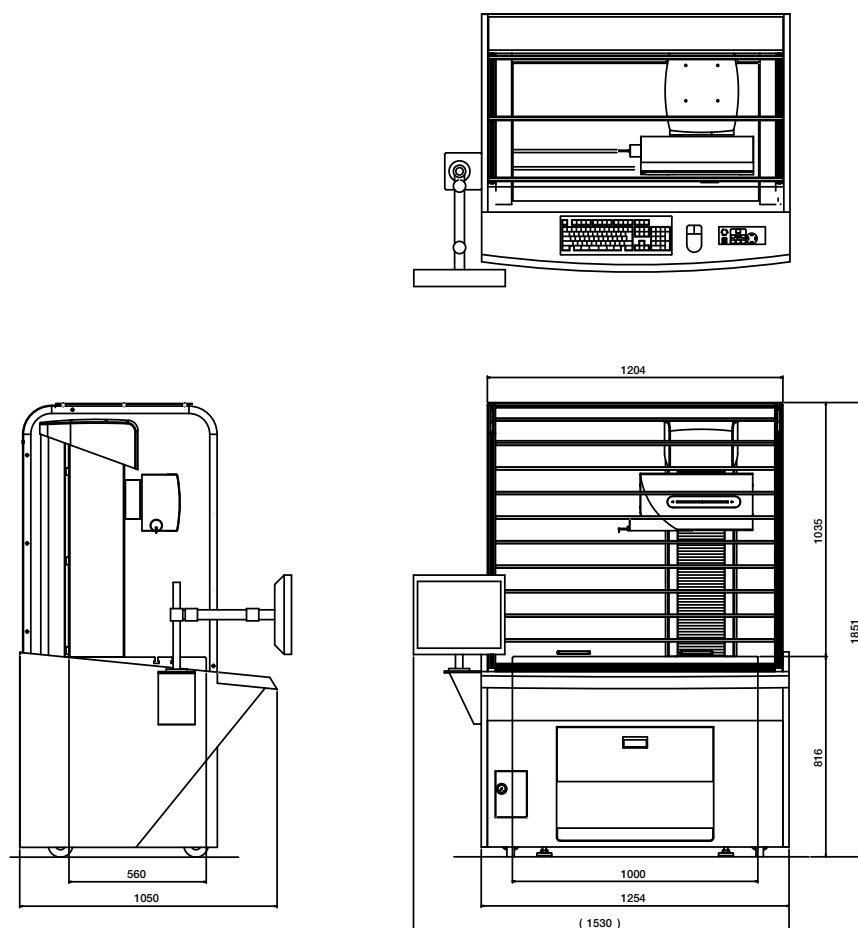
Autofocusing principle



- ① Focus on with image location on AF sensor.
- ② Read the position of objective lens at focusing 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 μm (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 μm *0.1 μm 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

World wide Sales and Service Offices

Japan / Head Office

2968-2, Ishikawa-machi, Hachioji-city,
Tokyo 192-0032, Japan
TEL: +81(0)42-642-1701 FAX: +81(0)42-642-1821

Japan / International Sales and Marketing

4, Higashi-Nakanuki-machi, Tsuchiura-city,
Ibaraki 300-0006, Japan
TEL: +81(0)29-831-1240 FAX: +81(0)29-831-1461

Germany / Accretech (Europe) GmbH

Head Office

Landsberger Str. 396, D-81241 Munich, Germany
TEL: +49(0)89-546788-0 FAX: +49(0)89-546788-10

America / Carl Zeiss Industrial Metrology, LLC

agent

6520 Sycamore Ln Maple Grove MN
TEL: +1-763-744-2400

Mexico / Carl Zeiss Mexico S.A. de C.V

agent

Av. Miguel Angel de Quevedo 496
Santa Catarina Ciudad de Mexico, Distrito Federal
TEL: +52-55-5999-0200

Brasil / Accretech do Brasil Ltda.

77 Room, 7th Floor, Rua Nove de Julho 72
Santo Amaro, Sao Paulo 04739-010, Brazil
TEL: +55(0)11-3360-9531

China / Accretech (China) Co., Ltd.

Head Office / Shanghai

Room 2101C, No 1077, Zuchongzhi Road,
Pudong New Area, Shanghai, China, 201203
TEL: +86(0)21-3887-0801 FAX: +86(0)21-3887-0805

Taiwan / Accretech (Taiwan) Co., Ltd.

Metrology Division

2F., No.199, Zhonghe St., Zhubei City,
Hsinchu County 30267, Taiwan (R.O.C)
TEL: +886(0)3-5531300 FAX: +886(0)3-5531319

Korea / Accretech Korea Co., Ltd.

Head Office / Seongnam

(3F, Fine Venture Bldg., Yatap-dong)
41, Seongnam-daero 925 beon-gil, Bundang-gu,
Seongnam-si, Gyeonggi-do, 463-828, Korea
TEL: +82(0)31-786-4000 FAX: +82(0)31-786-4090

Ulsan Office

(1F 841-8, Myeongchon-dong)
30, Myeongchon 7-gil, Buk-gu, Ulsan, 683-390, Korea
TEL: +82(0)52-268-2136 FAX: +82(0)52-268-2137

Thailand / Tokyo Seimitsu (Thailand) Co., Ltd.

HQ & Metrology

2/3 Moo 14, Bangna Tower B 1st floor, Bangna-Trad Rd.
K.M. 6.5, Bangkaew, Bangplee, Samutprakarn 10540 Thailand
TEL: +66-2-751-9573, 9574 FAX: +66-2-751-9575

Vietnam / Accretech Vietnam Co., Ltd.

Hanoi Representative Office

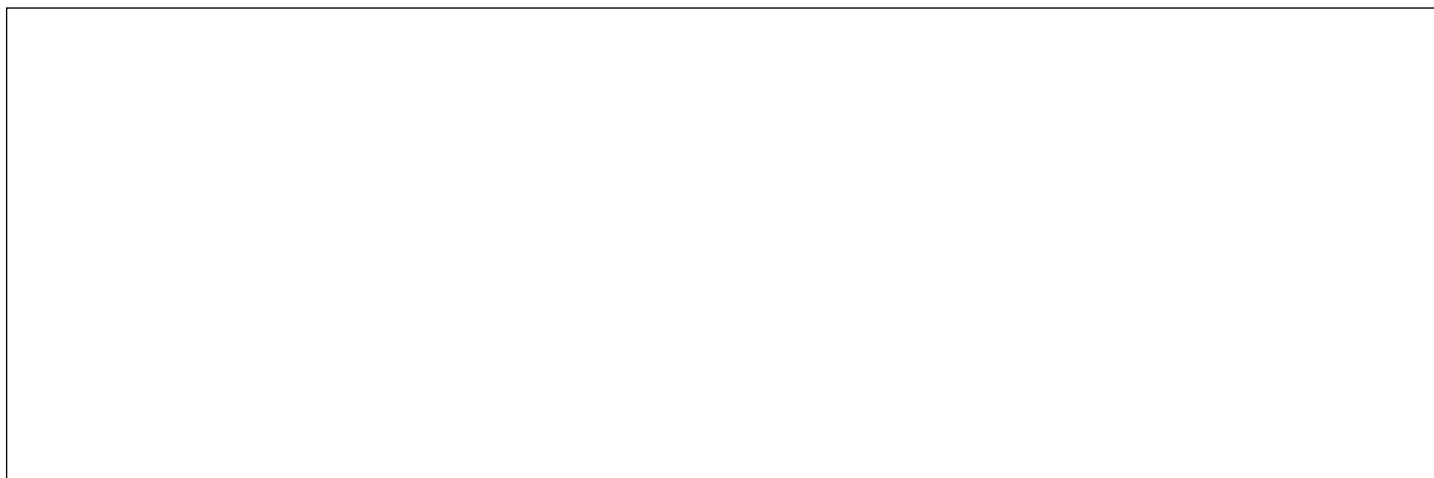
356 room, 6th Floor, Office Building, 85 Nguyen Du St,
Hai Ba Trung Dist, Hanoi, Vietnam
TEL: +84-4-3941-3309 FAX: +84-4-3941-3310

Ho Chi Minh Office

Room No.1101-1102, the 11Floor,
Broadcard Office Building, 343 Dien Bien Phu Street,
Ward, 15, Binh Thanh District, Ho Chi Minh City, Vietnam
TEL: +84-8-3512-6760 FAX: +84-4-3941-3310

Indonesia / PT Accretech Indonesia

Komplek Rukan Cikarang Square Block D No.68
JL. Raya Cikarang-Cibarusah KM 40 No.1 Cikarang
Bekasi 17530, Indonesia
TEL: +62(0)21-2961-2375 FAX: +62(0)21-2961-2376



ISO 9001 and ISO 14001 awarded to the Hachioji and Tsuchiura Plants

We reserve the right to change the contents of this catalog,
including product specifications, without notice when products are updated.

Some of our products shall be controlled by the Foreign Exchange and Foreign Trade Act,
and required an export license by the Japanese Government.
Regarding exporting the products and/or providing a non-resident with technologies,
please consult Tokyo Seimitsu.

<http://www.accretech.jp/>