



SURFCOM CREST

ENGLISH

NEW

Surface Texture and Contour
Integrated Measuring Instruments

SURFCOM CREST

ACCTee



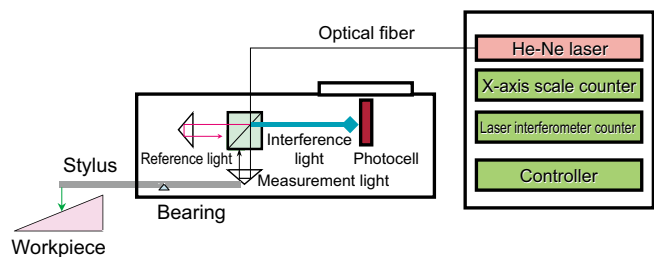
SURFCOM CREST



World No.1 Class of high accuracy, high speed and wide range.

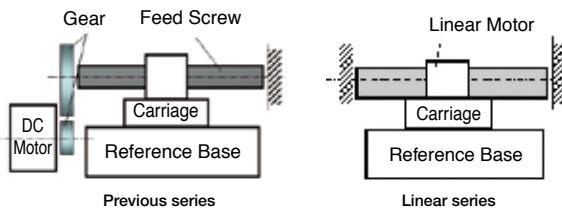
Highly Stable Optical Path Laser Interferometer (Patented)

- This measuring machine adopts an optical fiber-based laser interferometer, one of Tokyo Seimitsu's constituent technologies, and incorporates a newly developed highly stable optical path laser interferometer having a resolution of 0.31 nm.
- This system features a dynamic range as well as a resolution ratio of 42,000,000:1. This means that in a single trace you can evaluate contour profiles in wide ranges and also hidden fine surfaces.



Linear Motor Drive

- Linear motor drive ensures high accuracy and high-speed movement.
- Also, low vibration ensures more stable measurement at high magnifications.



Roughness and Contour Analyzed in a Single Measurement

- Measurement efficiency improved and high accuracy is maintained at the same time.

Wide Range

- Wide measuring range of 200 mm (horizontal direction) and 13 mm (vertical direction)
- Motorized tilting unit capable of tilting to 45° also available. *1

Software



ACCTee

**New Measurement Style with New Concept
All Measurements and Analyses Available in a Document**

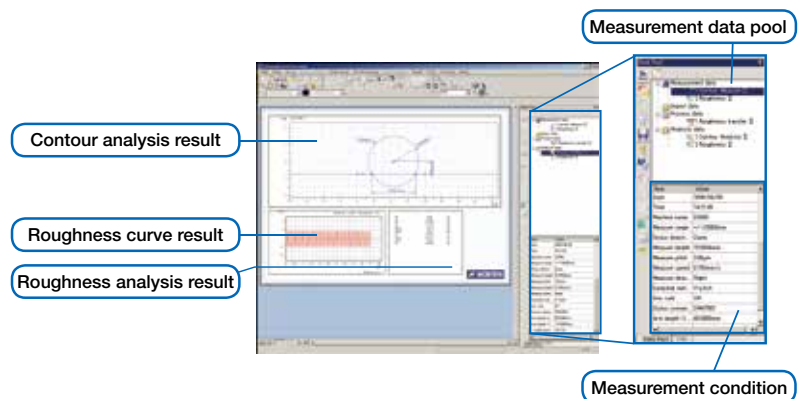
Integrated Analysis Software ACCTee

Our newly developed ACCTee software represents the next generation of integrated TMS software. Based on a new concept in measurement that combines document-based measurement and analysis with leading-edge operability and an intuitive work environment, AccTee makes all operations available in the document (measurement result sheet), and it also enables all the information to be saved with the related data.

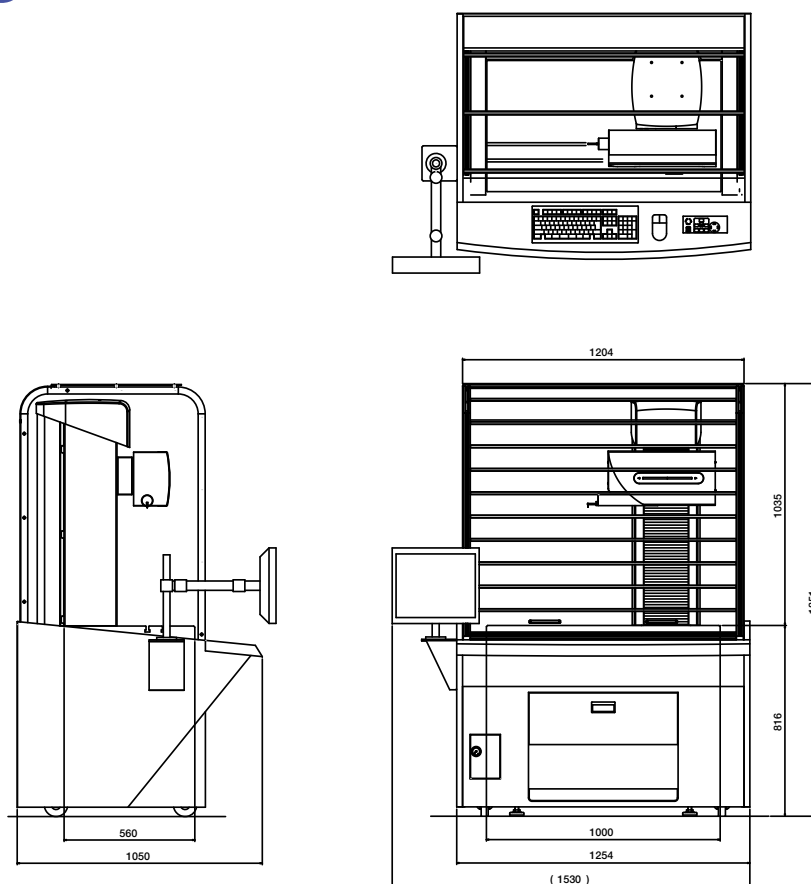
This is the "All in the Document", next generation integrated software, ACCTee.

Easy-to-Use Interface for Leading-Edge Operability

ACCTee is equipped with a Windows style user interface that is easy for anyone to understand and use. User-friendly and intuitive icons guide you through a series of operations from measurement to the printing of the analysis results.



External View



Model		SURFCOM CREST
Measuring range	Z-axis (vertical)	13 mm/50 mm arm, 26 mm/100 mm arm
	X-axis (horizontal)	200 mm
Accuracy	Z-axis indication accuracy (vertical)	$\pm 0.2 + H/1000 \mu\text{m}$ ($\pm 0.206 \mu\text{m}/H \pm 6 \text{ mm}$) H: Measuring height
	Resolution	0.31 nm/50 mm arm
	X-axis indication accuracy (horizontal)	$\pm 0.2 + L/1000 \mu\text{m}$ ($\pm 0.4 \mu\text{m}/L200 \text{ mm}$) L: Measuring length
	Resolution	0.54 nm
Straightness accuracy		$Pt \leq 0.05 + 3 L/10000 \mu\text{m}$ (0.11 $\mu\text{m}/L200 \text{ mm}$) L: Measuring length ^{*1}
Maximum permissible error	Radius measurement	$\leq \pm 1 \mu\text{m}$ ^{*2}
	Distance measurement	$\pm (1 + L/150) \mu\text{m}$ ^{*3}
	Angle measurement	$\pm 0.5 \text{ min.}$ ^{*4}
Form error		$Pt \leq 0.1 \mu\text{m}$ ^{*5}
System noise		$Rq \leq 2 \text{ nm}$ ^{*6}
		$Rz \leq 10 \text{ nm}$ ^{*6}
Sensing method	Z-axis (vertical)	Highly stable optical path type laser interferometer
	X-axis (horizontal)	Optical diffraction scale
Drive speed	Column up/down speed (Z-axis)	To 200 mm/s
	Drive unit measuring speed (X-axis)	0.03 to 3 mm/s (during roughness measurement), 0.03 to 20 mm/s (during contour measurement)
	Drive unit movement speed (X-axis)	0.02 to 60 mm/s
Drive unit tilt		$\pm 45^\circ$ (option)
Sensor unit	Stylus	Replaceable
	Measuring Force	0.75 mN
	Stylus radius	2 μm R standard accessory (50 mm arm)
	Stylus material	Diamond
	Functions	Retract function
Dimensions and weight	Power Requirements	Single-phase AC100 to 240 V $\pm 10\%$, 50/60 Hz
	Air Source	Supply Pressure; 0.4 MPa or more, Air Consumption Volume Max: 8 ℓ/min
	Installation dimensions*	1700 (W) \times 1200 (D) \times 2000 (H)
	Weight*	700 kg

*1 : $\lambda_s = 0.8 \text{ mm}$ *2 : $\phi 30 \text{ mm}$ or smaller *3 : Gage uncertainty is included *4 : $-40^\circ - 40^\circ$ *5 : $\pm 45^\circ$ deg. on $\phi 30 \text{ mm}$ sphere, $\lambda_s = 0.08 \text{ mm}$ *6 : $\lambda_c = 0.08 \text{ mm} \times 5$ on optical flat, $\lambda_s = 0.0025 \text{ mm}$

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