Catalog No. E15026

Mitutoyo

Surface Measuring System
SURFTEST
SV-3200 Series

Mitutoyo Quality

New Options Enhance Multifunctionality and User-friendliness for Higher Throughput

Form Measurement

NEW Products

Surface Measuring System
SURFTEST
SV-3200 Series

Features

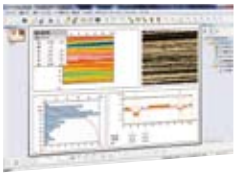
- This high-accuracy, multi-functional stylus type 2D surface roughness tester delivers best-in-class positioning speed (X-axis: up to 80mm/s, Z-axis: up to 30mm/s).
- Powerful options added to the accessory lineup allow a big reduction in total setting, measurement and evaluation time required.

New Option 1 3D Surface Roughness Measurement

It is capable of 3D Surface Roughness/Contour measurement and analysis*1 by using X-direction 2D measurement data and high accurate Y-axis positioning table, 3D/Y-axis table*2.

*1 Require option software FORMTRACEPAK-PRO or MCubeMap

*2 Does not support Y-direction 2D measurement and X/Y-direction inclined measurement.



New Option 2 Easy Drive Unit Alignment

Optional accessory that tilts the drive unit to allow its easy alignment with a large or heavy workpiece that cannot be mounted on the auto-leveling table.

New Option 3 Adaptable Detector Orientation

Optional holders are available that allow manual change of the detector's orientation.

Optional Detector Holders

Code	Type	Remarks
S-3000	–	Standard accessory
S-3000C	Crank	Option
S-3000CR	Crank, upward	Option
S-3000MR	Upward	Option, long type

The crank orientation enables surface roughness measurement of a crankshaft (in the axial direction).
The upward/downward orientation enables roughness measurement on an upper/lower surface of a hole without needing an extra setup. Furthermore, S-3000MR provides a 100mm longer reach than the other holders, thus enabling measurement in a deep hole (in its upward or downward orientation).

Specifications

Model No.		SV-3200S4	SV-3200H4	SV-3200W4	SV-3200S8	SV-3200H8	SV-3200W8
Measuring range	X axis	100mm			200mm		
	Z1 axis (detector)	800µm / 80µm / 8µm					
Z2-axis (column) traverse range		300mm	500mm		300mm	500mm	
X-axis inclination angle		±45° (only for a model with the X-axis leveling device)					
Detector detection method		Differential inductance					
Resolution	X axis	0.05µm					
	Z1 axis (detector)	0.01µm, 0.001µm, 0.0001µm					
	Z2 axis (column)	1µm (ABS scale)					
Drive speed	X axis	0 to 80mm/s and manual operation					
	Z2 axis (column)	0 to 30mm/s and manual operation					
Straightness		(0.05+0.001L) µm			(0.1+0.002L) µm		
Measuring force		Depends on model No. (suffix -1: 0.75mN; -2: 4mN)					
Stylus tip		Depends on model No. (suffix -1: 60°, R2µm; -2: 90°, R5µm)					
Base size (width x depth)		600x450mm		1000x450mm	600x450mm		1000x450mm
Base material		Gabbro					

Mitutoyo

Mitutoyo Corporation
20-1, Sakado 1-Chome,
Takatsu-ku, Kawasaki-shi,
Kanagawa 213-8533, Japan
T +81 (0) 44 813-8230
F +81 (0) 44 813-8231
http://www.mitutoyo.co.jp

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