

Surface Measuring System SURFTEST SV-3200 Series



New Options Enhance Multifunctionality for Higher Throughput.



Form Measurement



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).
- Optional accessories reduce total setting, measurement and evaluation time.

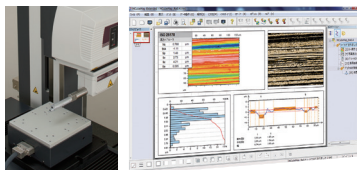


Option 1 3D Surface Roughness Measurement

Capable of 3D surface roughness/contour measurement and analysis*1 by using X-direction 2D measurement data and high-accuracy Y-axis positioning table, 3D/Y-axis table*2.

*1 Requires optional software FORMTRACEPAK-PRO or MCubeMap.

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



Option 2 Easy Drive Unit Alignment

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



Option 3 Adaptable Detector Orientation

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

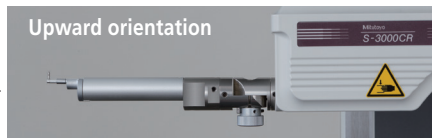


Optional Detector Holders

Code	Type	Remarks
S-3000	-	Standard accessory
S-3000C	Crank	Optional
S-3000CR	Crank, manual rotary	Optional
S-3000MR	Manual rotary	Optional, long type

The crank orientation enables surface roughness measurement of a crank-shaft (in the axial direction). The rotary-type enables roughness measurement

on an upper/lower surface of a hole without the need for 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-3200L4	SV-3200S8	SV-3200H8	SV-3200W8	SV-3200L8
Order No. (inch)	178-444-11A	178-445-11A	178-446-11A	178-484-11A	178-447-11A	178-448-11A	178-449-11A	178-485-11A
Measuring range	X-axis	4" (100mm)				8" (200mm)		
	Z1-axis (detector)	32000µin / 3200µin / 320µin (800µm / 80µm / 8µm)						
Z2-axis (column) traverse range	12" (300mm)	20" (500mm)	27.5" (700mm)	12" (300mm)	20" (500mm)	27.5" (700mm)		
X-axis inclination angle	±45° (only for a model with the X-axis leveling device)							
Detector detection method	Differential inductance							
	X-axis	1.97µin (0.05µm)						
	Z1-axis (detector)	.4µin, .04µin, .004µin (0.01µm, 0.001µm, 0.0001µm)						
Resolution	Z2-axis (column)	39.4µin (1µm) (ABS scale)						
	X-axis	0 to 3.1 "/s (0 to 80mm/s) and manual operation						
Drive speed	Z2-axis (column)	0 to 1.2 "/s (0 to 30mm/s) and manual operation						
	Straightness	(2+L)µin (0.05+0.001L) µm				20µin / 8" (0.1+0.002L) µm		
Measuring force	0.75mN							
Stylus tip	60°, R2µm							
Base size (width x depth)	23.6 x 17.7" (600 x 450mm)	39.4 x 17.7" (1000 x 450mm)	23.6 x 17.7" (600 x 450mm)	39.4 x 17.7" (1000 x 450mm)				
Base material	Gabbro							

Mitutoyo

Mitutoyo America Corporation
www.mitutoyo.com
1-888-MITUTOYO (1-888-648-8869)

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