

SURFTEST SV-3200 SERIES



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 80 mm/s, Z-axis: up to 30 mm/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 measurment measurement and analysis*1 by using X-direction 2D measurement data and highly accurate Y-axis positioning table, 3D/Y-axis table*2

*1 Requires optional software FORMTRACEPAK-PRO or

*2 178-096



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-levelling table.



New Option 3 Adaptable Detector Orientation

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







Optional Detector Holders

| Code | Description | Туре | Remarks |
|---------|-------------|---------------|--------------------|
| _ | S-3000 | - | Standard accessory |
| 178-074 | S-3000C | Crank | Option |
| 178-075 | S-3000CR | Crank, upward | Option |
| 178-076 | S-3000MR | Upward | Option, long type |



The crank orientation enables surface roughness measurement of a crankshaft or others workpieces (in axial direction).

The upward/downward orientation enables roughness measurement on an upper/lower surface of a hole without an extra setup. Furthermore, S-3000MR provides a 100 mm longer reach than the other holders, thus enabling measurement in deep holes (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 | | |
|---|--------------------|--|-----------------|-----------|-----------|-------------------|-----------|---------------|-----------|--|--|
| Measuring range X axis Z1 axis (detector) | | 100 mm | | | | 200 mm | | | | | |
| | | 800 µm / 80 µm / 8 µm | | | | | | | | | |
| Z2-axis (column) traverse range | | 300 mm | 500 mm | | 700 mm | 300 mm | 500 mm | | 700 mm | | |
| X-axis inclination angle | | ±45° (only for a model with the X-axis leveling device) | | | | | | | | | |
| Detector detection method | | Differential inductance | | | | | | | | | |
| Resolution | X axis | 0.05 µm | | | | | | | | | |
| | Z1 axis (detector) | 0.01 µm, 0.001 µm | | | | | | | | | |
| | Z2 axis (column) | 1 μm (ABS scale) | | | | | | | | | |
| Drive speed | X axis | 0 to 80 mm/s and manual operation | | | | | | | | | |
| | Z2 axis (column) | 0 to 30 mm/s and manual operation | | | | | | | | | |
| Straightness | | (0.05 + 0.001L) μm | | | | (0.1 + 0.002L) μm | | | | | |
| Measuring force | | Depends on model No. (suffix -1: 0.75 mN; -2: 4 mN) | | | | | | | | | |
| Stylus tip | | Depends on model No. (suffix -1: 60°, R2 μm; -2: 90°, R5 μm) | | | | | | | | | |
| Base size (width × depth) | | 600 × 4 | × 450 mm 1000 × | | 450 mm | 600 x 4 | 150 mm | 1000 × 450 mm | | | |
| Base material | | Gabbro | | | | | | | | | |

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