

# NEW PRODUCT INFORMATION

## Portable Surface Roughness Tester Surftest SJ-500



High precision and high performance compact surface roughness tester with a dedicated control unit, achieving user-friendly display and simple operation

# High precision measurement of surface roughness and texture analysis can be easily performed, in compliance with standards.

## User-friendly display and simple operation

Equipped with a highly visible color 7.5-inch TFT LCD, employing a color icon display and a touch panel achieves user-friendly display and simple operation.

## Easy positioning

A joystick built into the dedicated control unit allows quick and easy positioning. Fine positioning of a small stylus, required for measuring the inner side of a small hole, can be easily made using the manual knob.

## Easy setting of measuring conditions for surface roughness.

Equipped with simple input function allows inputs according to drawing instruction symbols of ISO/JIS roughness standards. Troublesome measuring condition settings can be easily input by directly selecting a drawing instruction symbol for surface roughness from the menu.

## Wide variety of analyses

Numerous form analyses (convex step, re-entrant step, superficial content, radius, angle coordinates, step and indication angle) are available, in addition to 43 type analysis parameters compliant with 1997 ISO and 2001 JIS surface roughness standards.

## Main specifications

| Model   | SJ-500   |   |
|---|--|---|
| Order No.   | 178-533-02A  | 178-533-01A   |
| Measuring range                                     | X axis (drive unit)                                    | 1.96" (50mm)  |
|   | Z1 axis (detector)                                     | 32000 $\mu$ m, 3200 $\mu$ m, 32 $\mu$ m, (800 $\mu$ m, 80 $\mu$ m, 8 $\mu$ m) |
| Vertical travel adjustment of detector              | 1.18" (30mm)   |   |
| Slope adjustment of drive unit                      | $\pm$ 1.5° (with DAT function)                         |   |
| X axis (drive unit)                                 | Traverse linearity                                     | 0.2 $\mu$ m/50mm  |
|   | Resolution   | 0.05 $\mu$ m  |
|   | X-axis drive speed                                     | 0~.79"/S (0 to 20 mm/s) and manual  |
|   | Measuring speed  | .001"~.20"/S (0.02~5mm/s)   |
| Detector  | Minimum resolution                                     | 0.004 $\mu$ m (for 32 $\mu$ m range) (0.0001 $\mu$ m (for 8 $\mu$ m range))   |
|   | Measuring force  | 4mN      0.75mN   |
| Detector measuring method/measuring plane direction | Measurement with and without a skid/downward direction |   |
| Display/operating portion                           | 7.5inch color TFT (backlight display)                  |   |
| Drive unit operation                                | Operation using joystick with manual knob              |   |
| Printer   | Built-in thermal printer                               |   |

- Coordinate Measuring Machines
- Vision Measuring Systems
- Form Measurement
- Optical Measuring
- Sensor Systems
- Test Equipment and Seismometers
- Digital Scale and DRO Systems
- Small Tool Instruments and Data Management

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