

NEW PRODUCT INFORMATION

Surface Roughness Tester Surftest SJ-310

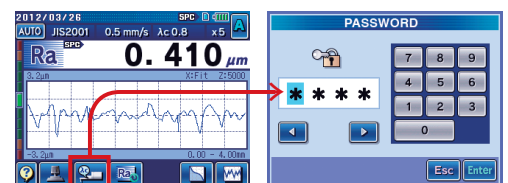


- Large 5.7" color LCD with touch screen improves operability and achieves high visibility.
- Conforms to the roughness standards JIS-B0601-2001, JIS-B0601-1994, JIS-B0601-1982, VDA, ISO-1997 and ANSI.
- Statistic measurements up to 3 parameters of 300 samples can be performed showing average, standard deviation, max, min, pass rate and histogram.
- Up to ten measurement conditions along with stored data can be displayed and printed out by the built-in thermal printer. It can also store up to 10 measurement conditions with the built-in memory.
- The SJ-310 supports a micro-SD card (optional) for storage of up to 10,000 measurement values, 500 measuring conditions, 1000 measuring data, 500 image (BMP) data, 500 statistic data or auto save up to the last 10 sets of measurement data.
- The total measurement and sectional measurement results can be displayed as well as the evaluation curve, BAC/ADC curve.
- USB, Digimatic SPC output, RS-232C and External Software connectivity is supported.
- Security is managed via a password lock to restrict function changes and unnecessary settings that could cause operation errors.
- 16 languages can be selected and are switchable.
- It corresponds to cissoidal calculation in which one measurement can evaluate two different conditions.

16 languages selectable



Easy icons for standards



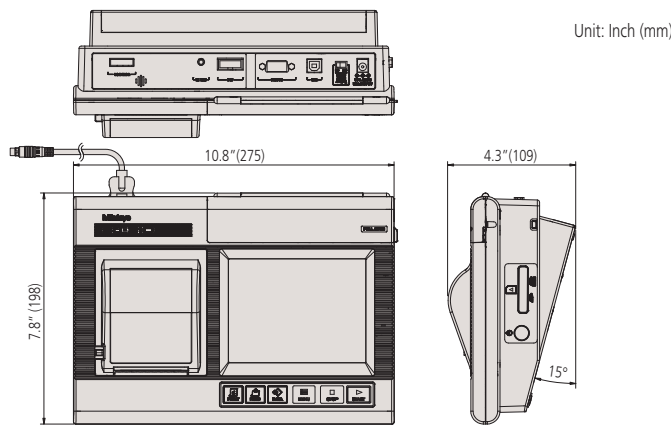
Password lock function

Specifications

Unit: Inch (metric)

Model No.	SJ-310		SJ-310R		SJ-310S		
Order No.	178-571-02A (inch/mm)	178-571-01A (inch/mm)	178-573-02A (inch/mm)	178-573-01A (inch/mm)	178-575-02A (inch/mm)	178-575-01A (inch/mm)	
Measuring range	X-axis	.5 inch (12.5mm)				.22 inch (5.6mm)	
	Z-axis	14400µin (-7900µin~ +6300µin) [360µm (-200µm~ +160µm)]					
Drive unit	Measuring speed	0.01, 0.02, 0.03 in/s (0.25, 0.5, 0.75 mm/s)					
Detector	Measuring motion	Standard		Starts measuring from detector retracted state		Transverse tracing	
	Conical-taper angle	90°	60°	90°	60°	90°	60°
	Stylus tip radius	5µm	2µm	5µm	2µm	5µm	2µm
	Measuring force	4mN	0.75mN	4mN	0.75mN	4mN	0.75mN
	Stylus tip material	Diamond					
	Skid radius of curvature	1.57 inch (40mm)					
	Skid force	400mN or less					
	Detecting method	Differential inductance					
Applicable standards	JIS'82, JIS'94, JIS'01, VDA, ISO, ANSI						
Assessed profiles	Primary profile (P), Roughness profile (R), DIN4776, MOTIF-R, MOTIF-W						
Parameters	Ra, Ry, Rz, Rt, Rp, Rq, Rv, Sm, S, Pc, R3z, mr (c), Rpk, Rvk, δc, Rk, Mr1, Mr2, Lo, Rppl, R, AR, Rx, A1, A2, Vo, HSC, mr, SK, Ku, RΔa, RΔq, Wte, Wx, W, AW, Rmax, Rz1max, RzJIS, Rlr, Rpm, tp, Htp, λa, λq (can be customized)						
Sampling length	.003, .01, .03, .1, .3 inch (0.08, 0.25, 0.8, 2.5, 8mm)						
Number of sampling lengths	x1~10, arbitrary length						
Arbitrary length	0.01~.63 inch (0.0001 inch increment) [0.3~16.0 mm (0.1 mm increment)]				0.01~.22 inch (0.0001 inch increment) [0.3~5.6 mm (0.01 mm increment)]		
Cutoff filter	2CR / PC75 / Gaussian						
Cutoff length	λc	.003, .01, .03, .1, .3 inch (0.08, 0.25, 0.8, 2.5, 8mm)					
	λs	100µinch, 320µinch, (2.5, 8µm)					
Printer	Built-in thermal printer						
Graphical printout	Bearing area curve (BAC1 BAC2), Amplitude distribution curve (ADC)						
Printing width	1.89" (48mm) (Paper width: 2.28" (58 mm))						
Recording magnification	Vertical magnification	x10, x20, x50, x100, x200, x500, x1K, x2K, x5K, x10K, x20K, x50K, x100K, AUTO					
	Horizontal magnification	x1, x2, x5, x10, x20, x50, x100, x200, x500, x1K, AUTO					
Function	Customization	Desired parameters can be selected for calculation and display.					
	Statistical processing	Maximum value, minimum value, mean value, standard deviation, pass rate, frequency distribution chart of each parameter					
	GO/NG judgment	Upper/lower limits setting: 3 parameters, GO/NG judgment rule: mean value, 16% rule, maximum value rule					
	Measurement conditions saving	Maximum 10 measuring conditions using internal memory					
	Data saving	Save/retrieval of measurement conditions, evaluation data, sampling data, and statistical data with a memory card (option).					
	Calibration	Auto-calibration with the entry of numerical value.					
Power saving function	If the auto-power-off function ON: Power turns off if not operated for 30-600 sec (Switchable)						
External input/output	RS-232C I/F, SPC output USB I/F, External SW I/F						
Power supply	Two-way power supply: battery (rechargeable Ni-H battery) and AC adapter.						
Battery	Charging time	4 hours maximum					
	Recharge cycles	Approximately 1500 times (slightly varies with the usage and environmental conditions)					
External dimensions (WxDxH)	Display unit	10.83"x4.29"x7.80" (275x109x198mm)					
	Drive unit	4.53"x.91"x1.02" (115x23x26mm)					
Mass	Display unit	3.75 lbs. (1.7kg)					
	Drive unit	.44 lbs. (0.2kg)					
LCD dimensions	5.7" (144mm) color touch screen LCD						

Dimensions



- 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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