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.

	AGES 1/2	
日本語	English	
Deutsch	Français	
Italiano	Español	
Portugues	한국어	
繁體中文	中文	ANGUAGES 2/2
		Polski
	mayya	Türkçe
	Svenska	a Nederlands

STANE	ARDS
JIS1982	JI S1994
JI S2001	I S01997
ANSI	VDA
Free	

Easy icons for standards

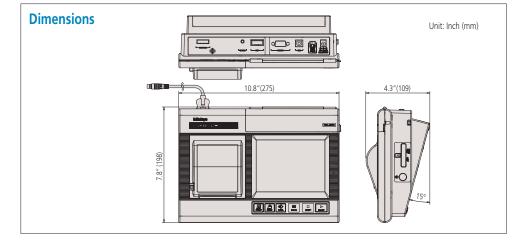


Password lock function



16 languages selectable

Specificat	ions						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	n (12.5mm)		.22 inc	ch (5.6mm)		
	Z-axis		14400µin (~7900µin~ +6300µin) [360µm (~200µm~ +160µm)]						
Drive unit	Measuring speed			0.01, 0.02, 0.03 ir	n/s (0.25, 0.5, 0.75 mm/s)				
	Measuring motion	Star	ndard	Starts measuring from detector retracted state			erse tracing		
	Conical-taper angle	90°	60°	90°	60°	90°	60°		
	Stylus tip radius	5µm	2µm	5µm	2µm	5µm	2µm		
Detector	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			Differer	tial inductance				
Applicable standard	ls			JIS'82, JIS'94, J	IIS'01, VDA, ISO, ANSI				
Assessed profiles			Prim	nary profile (P), Roughness p	rofile (R), DIN4776, MOTIF-R, M	OTIF-W			
Parameters		Ra, Ry, Rz, Rt, Rp, Rq, R	Ra, Ry, Rz, Rt, Rp, Rq, Rv, Sm, S, Pc, R3z, mr (c), Rpk, Rvk, δc, Rk, Mr1, Mr2, Lo, Rppi, R, AR, Rx, A1, A2, Vo, HSC, mr, SK, Ku, RΔa, RΔq, Wte, Wx, W, AW, Rmax, Rz1ma RzJIS, RIr, Rpm, tp, Htp, λa, λq (can be customized)						
Sampling length				.003, .01, .03, .1, .3 ind	ch (0.08, 0.25, 0.8, 2.5, 8mm)				
Number of sampling	g lengths			x1~10, a	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 / P	C75 / Gaussian				
Cutoff leasth	λς	.003, .01, .03, .1, .3 inch (0.08, 0.25, 0.8, 2.5, 8mm)							
Cutoff length	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	S	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 R:			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.							
	Charging time		4 hours maximum						
Battery	Recharge cycles		Approximately 1500 times (slightly varies with the usage and environmental conditions)						
External dimensions	Display unit			10.83″x4.29″x7	.80" (275x109x198mm)				
(W×D×H)	Drive unit		4.53*x.91*x1.02* (115×23×26mm)						
Mass	Display unit			3.75	lbs. (1.7kg)				
11/1022	Drive unit		.44 lbs. (0.2kg)						
LCD dimensions				5.7" (144mm) o	color touch screen LCD				



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