MeasurLink® ENABLED
Data Management Software by Mitutoyo

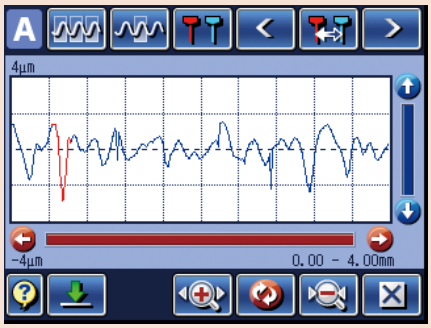
Portable Surface Roughness Tester Surftest SJ-310 SERIES 178

Advanced portable model with a built-in printer allows various kinds of measurement and analysis functions

- Great visibility makes measurement easier. <Large 5.7-inch color graphic LCD touch panel>
- The high-speed printer can output measurement results anywhere, anytime.
- It can be connected to a PC for greater convenience. <Simplified communication program>
- The simultaneous two-profile assessment function enables advanced utilization of measurement data.
- The delete function can expand the range of data utilization.
- Up to three parameters and 300 statistical measurements are supported.

Easy to carry and has a built-in printer for on-site printing.

Easy-to-operate touch panel.



The delete function can expand the range of data utilization.

SPECIFICATIONS

Model			Standard drive unit		Retractable drive unit		Transverse tracing drive unit	
			SJ-310 (0.75 mN type)	**SJ-310** (4 mN type)	**SJ-310** (0.75 mN type)	**SJ-310** (4 mN type)	**SJ-310** (0.75 mN type)	**SJ-310** (4 mN type)
Code No.		mm	**178-570-21**	**178-570-22**	**178-572-21**	**178-572-22**	**178-574-21**	**178-574-22**
		inch/mm	**178-571-21**	**178-571-22**	**178-573-21**	**178-573-22**	**178-575-21**	**178-575-22**
Measuring range	X axis		16.0 mm				5.6 mm	
	Detector	Range	360 µm (-200 µm to +160 µm)					
		Range/ Resolution	360 µm/0.02 µm, 100 µm/0.006 µm, 25 µm/0.002 µm					
Measuring force/Stylus tip shape			Depends on the code number: 0.75 mN/2 µmR 60° (when the code number ends with "**-21**") 4 mN/5 µmR 90° (when the code number ends with "**-22**")					
Applicable standards			JIS B 0601:2001, JIS B 0601:1994, JIS B 0601:1982, VDA, ISO:1997, ANSI					
Assessed profiles			Primary profile, Roughness profile, DF profile, Roughness motif profile, Waviness motif profile					
Parameters			Ra, Ry, Rz, Rq, Rt, Rmax*1, Rp, Rv, R3z, Rsk, Rku, Rc, RPc, Rsm, Rz1max*2, S, HSC, RzJIS*3, Rppi, RΔa, RΔq, Rlr, Rmr, Rmr(c), RδC, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, λa, λq, L0, Rpm, tp*4, Htp*4, R, Rx, AR, W, AW, Wx, Wte, Possible Customize					
Analysis graphs			Bearning area curve, Amplitude distribution curve					
Filters			Gaussian, 2CR75, PC75					
Cut-off length		λc	0.08, 0.25, 0.8, 2.5, 8 mm					
		λs*5	2.5, 8 µm					
Sampling length			0.08, 0.25, 0.8, 2.5, 8 mm					
Number of sampling lengths			×1, ×2, ×3, ×4, ×5, ×6, ×7, ×8, ×9, ×10, Arbitrary (0.3 to 16.0 mm: 0.01 mm Interval)				×1, ×2, ×3, ×4, ×5, ×6, ×7, ×8, ×9, ×10, Arbitrary (0.3 to 5.6 mm: 0.01 mm Interval)	
Functions	GO/NG judgment*6		Max rule/16% rule/Average rule/Standard deviation (1σ, 2σ, 3σ)					

*1 Calculation is available only when selecting the VDA, ANSI, or JIS '82 standard.
*2 Calculation is available only when selecting the ISO '97 standard.
*3 Calculation is available only when selecting the JIS '01 standard.
*4 Calculation is available only when selecting the ANSI standard.
*5 Not available when selecting the JIS '82 standard.
*6 Standard deviation only can be selected in ANSI.16% rule cannot be selected in VDA.

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