

Specifications

Model No.	(Type of detector)		Standard drive unit type		Retractable drive unit type		Transverse tracing drive unit type	
			SJ-210 (0.75mN type)	SJ-210 (4mN type)	SJ-210 (0.75mN type)	SJ-210 (4mN type)	SJ-210 (0.75mN type)	SJ-210 (4mN type)
Order No.	mm		178-560-01	178-560-02	178-562-01	178-562-02	178-564-01	178-564-02
	inch/mm		178-561-01	178-561-02	178-563-01	178-563-02	178-565-01	178-565-02
Measuring range	X axis		17.5mm				5.6mm	
	Z axis (Detector)	Range Range / Resolution	360μm (-200μm to +160μm) 360μm / 0.02μm, 100μm / 0.006μm, 25μm / 0.002μm					
Measuring speed			Measuring: 0.25mm/s, 0.5mm/s, 0.75mm/s Returning: 1mm/s					
Measuring force / Stylus tip			0.75mN type: 0.75mN / 2μmR 60°, 4mN type: 4mN / 5μmR 90°					
Skid force			Less than 400mN					
Applicable standards			JIS '82 / JIS '94 / JIS '01 / ISO '97 / ANSI / VDA					
Assessed profiles			Primary profile / Roughness profile / DF profile / Roughness profile-Motif					
Evaluation parameters			Ra, Rc, Ry, Rz, Rq, Rt, Rmax, Rp, Rv, R3z, Rsk, Rku, Rc, Rpc, Rsm, Rz1max, S, HSC, RzJIS, Rppi, RΔa, RΔq, Rlr, Rmr, Rmr(c), Rδc, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, Rpm, tp, Htp, R, Rx, AR, Possible Customize					
Analysis graphs			Bearing area curve / Amplitude distribution curve					
Filters			Gaussian , 2CR75 , PC75					
Cut off length		λ c	0.08 , 0.25 , 0.8 , 2.5mm					
		λ s	2.5 , 8μm					
Sampling length			0.08 , 0.25 , 0.8 , 2.5mm					
Number of Sampling lengths (×n)			×1, ×2, ×3, ×4, ×5, ×6, ×7, ×8, ×9, ×10, arbitrary length (0.3 to 16.0mm: 0.01mm interval)				×1, ×2, ×3, ×4, ×5, ×6, ×7, ×8, ×9, ×10, arbitrary length (0.3 to 5.6mm: 0.01mm interval)	
LCD dimensions			36.7 × 48.9 mm					
Display languages			Japanese, English, German, French, Italian, Spanish, Portuguese, Korean, Traditional Chinese, Simplified Chinese, Czech, Polish, Hungarian Turkish, Swedish, Dutch					
Calculation result display			Vertical display: 1 parameter / 3 parameter / trace to measurements Horizontal display: 1 parameter / 4 parameter / trace to measurements (Horizontal display is invertable)					
Printing function *1 (Dedicated printer is required separately.)			Measurement conditions / Calculation results / Calculation results for each sampling length / Assessed profile / Bearing area curve / Amplitude distribution curve / Environment setting infomation					
External I/O			USB I/F, Digimatic Output, Printer Output, RS-232C I/F, Foot SW I/F					
Functions	Customization		Desired parameters can be selected for calculation and display					
	GO/NG judgment *2		By max value / 16% / Standard deviation					
	Storage of measurement condition		Save the conditions at power OFF					
	Storage	Internal memory: Measurement condition (10sets), Measured profile (1set) Memory card (Option): 500 measurement conditions, 10000 measured profiles, 500 display images Text file (Measurement conditions / Measured profile / Assessed profile / Bearing area curve / Amplitude distribution curve)						
		Auto-calibration with the entry of numerical value / Average calibration with multiple measurement (Max.5 times) is available						
Calibration			Average calibration with multiple measurement (Max.5 times) is available					
Power-saving function			Auto-sleep off function (10-600sec) *3					
Power supply			Two-way power supply: battery (rechargeable Ni-MH battery) and AC adapter *Charging time: about 4 hours (may vary due to ambient temperature) *Endurance: about 1000 measurements (differs slightly due to use conditions / environment)					
Size (W×D×H)	Display unit		52.1 × 65.8 × 160mm					
	Drive unit		115 × 23 × 26mm					
Mass			About 500g (Display unit + Drive unit + Standard detector)					
Standard accessories			12BAA303 Connecting cable *4 178-601 Roughness specimen 12BAK699 Carrying case 12BAK700 Calibration stage Protective sheets for display AC Adapter Operation manual Quick reference manual Warranty				12BAA303 Connecting cable *4 178-605 Roughness specimen 12AAE643 Point-contact adapter 12AAE644 V-type adapter 12BAK699 Carrying case 12BAK700 Calibration stage Protective sheets for display AC Adapter, Operation manual Quick reference manual, Warranty	

*1: Order the SJ-210 printer (No.178-421, optional accessory) separately. See page 10 for details about the SJ-210 printer.

*2: Standard deviation only can be selected in ANSI. 16% rule cannot be selected in VDA.

*3: Auto-sleep function is invalid when AC adaptor is used.

*4: For connecting the calculation display unit and drive unit.

To denote your AC line voltage add the following suffixes (e.g. 178-560-01A).

A for 120V, C for 100V, D for 230V, E for 230V(for UK), DC for 220V(for China), K for 220V(for Korea)