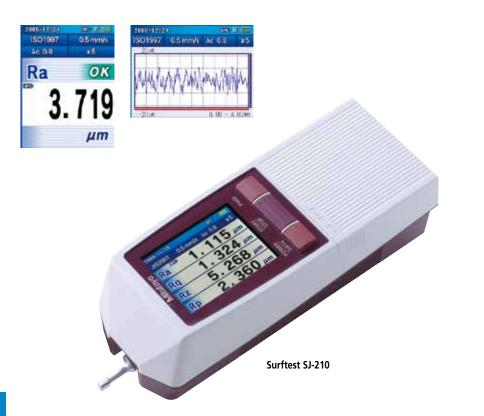
Surftest SJ-210

SERIES 178 – Portable Surface Roughness Tester

- The 2.4-inch colour graphic LCD provides excellent readability and an intuitive display that is easy to navigate. The LCD also includes a backlight for improved visibility in dark environments.
- The Surftest SJ-210 can be operated easily using the buttons on the front of the unit and under the sliding cover.
- Up to 10 setups and one measured profile can be stored in the internal memory.
- An optional memory card can be used as an extended memory to store large quantities of measured profiles and conditions.
- Access to each feature can be password-protected, which prevents unintended operations and allows you to protect your settings.
- The display interface supports 16 languages, which can be freely switched.
- An alarm warns you when the cumulative measurement distance exceeds a preset limit.
- The Surftest SJ-210 complies with the following standards: JIS (JIS-B0601-2001, JIS-B0601-1994, JIS B0601-1982), VDA, ISO-1997, and ANSI.
- In addition to calculation results, the Surftest SJ-210 can display sectional calculation results and assessed profiles, load curves, and amplitude distribution curves.



SPECIFICATIONS / CONFIGURATION

Model	SJ-210					
Code No. (inch/mm)	178-561-01E	178-561-02E	178-563-01E	178-563-02E	178-565-01E	178-565-02E
Drive unit	Standard type (178-230-2)		Retractable type (178-235)		Transverse tracing type (178-233-2)	
Detector	0.75 mN type (178-296)	4 mN type (178-390)	0.75 mN type (178-296)	4 mN type (178-390)	0.75 mN type (178-387)	4 mN type (178-386)
Display unit	Compact type (178-253*)					
Detector: Conical taper angle	60°	90°	60°	90°	60°	90°
Stylus tip radius	2 µm	5 µm	2 µm	5 µm	2 µm	5 µm
Detector measuring force	0.75 mN	4 mN	0.75 mN	4 mN	0.75 mN	4 mN
Price	£1280.00	£1280.00	£1520.00	£1520.00	£2380.00	£2380.00

Technical Data

X axis (drive unit)			
Measuring range:	17.5, 5.6 mm (Transverse tracing drive unit type)		
Measuring speed:	0.25, 0.5, 0.75 mm/s 1 mm/s (returning)		
Detector			
Range:	360 μm (-200 μm to +160 μm)		
Measuring method:	Skidded		
Measuring force:	0.75 mN or 4 mN		
Stylus tip:	Diamond, 90° / R5 μm (60° / R2 μm)		
Skid radius of			
curvature:	40 mm		
Skid force:	Less than 400 mN		
Туре:	Differential inductance		
Power supply:	Two-way power supply: battery		
	(rechargeable Ni-MH battery) and		
Changing times	AC adapter		
Charging time:	About 4 hours (may vary due to		
Endurance:	ambient temperature) About 1000 measurements (differs		
Linuurance.	slightly due to use conditions/		
	environment)		
External I/O	USB I / F, Digimatic Output, Printer		
External vo.	Output, RS-232C I / F, Foot SW I/ F		
Data storage:	Memory card (option 12AAL069)		
Dimensions (WxDxH)			
Display unit:	, 52.1 x 65.8 x 160 mm		
Drive unit:	115 x 23 x 26 mm		
Mass:	About 0.5 kg (Display unit + Drive unit		
	+ Standard detector)		

Evaluation Capability

Applicable standards: Assessed profiles:	JIS'82, JIS'94, JIS'01, ISO'97, ANSI, VDA 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, R∆a, R∆q, RIr, Rmr, Rmr(c), R&c, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, Rpm, tp, Htp, R, Rx, AR, possible to customize
Analysis graphs:	Bearning area curve / Amplitude distribution curve
Digital filters:	Gaussian, 2CR75, PC75
Cutoff length:	lc: 0.08 , 0.25 , 0.8 , 2.5 mm ls: 2.5 , 8 µm
Sampling length:	0.08 , 0.25 , 0.8 , 2.5 mm
Number of sampling	
lengths (x n):	x1, x2, x3, x4, x5, x6, x7, x8, x9, x10 arbitrary length (0.3 to 16 mm: 0.01 mm interval)
	x1, x2, x3, x4, x5, x6, x7, x8, x9, x10 arbitrary length (0.3 to 5.6 mm: 0.01 mm interval)*

*Only for Transverse tracing drive unit type

Mitutoyo

Functions

Customization:

GO/NG judgement:

Storage of setups:

Storage Internal memory:

Memory card (option):

Calibration:

Desired parameters can be selected for calculation and display. By max value / 16% / Standard deviation Save the setup at power OFF

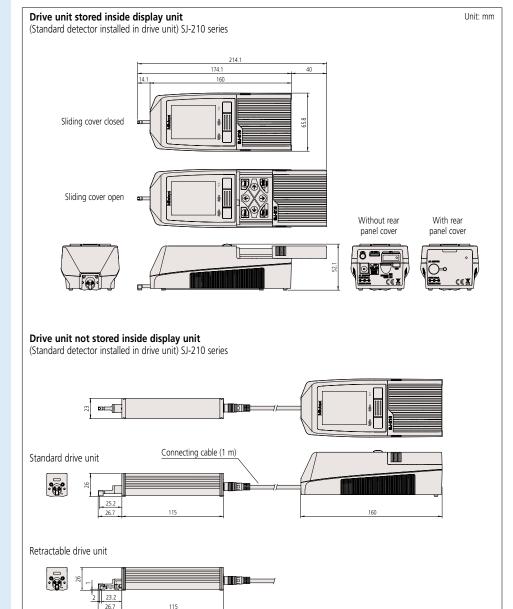
Setups (10 sets), Measured profile (1 set)

500 setups, 10000 measured profiles, 500 display images, text file (setups / 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





DIMENSIONS: Display unit, drive unit



Transverse drive unit

