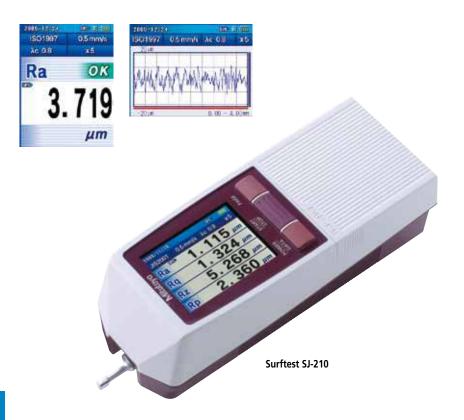
Surftest SJ-210

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 μ m (-200 μ m to +160 μ m)

Measuring method: Skidded

Measuring force: 0.75 mN or 4 mN

Stylus tip: Diamond, 90° / R5 µm (60° / R2 µm)

Skid radius of curvature:

Skid force: Less than 400 mN
Type: Differential inductance
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)

External I/O: USB I / F, Digimatic Output, Printer

Output, RS-232C I / F, Foot SW I/ F Memory card (option 12AAL069)

Data storage: Me Dimensions (WxDxH)

Display unit: 52.1 x 65.8 x 160 mm
Drive unit: 115 x 23 x 26 mm

Drive unit: 115 x 23 x 26 mm Mass: About 0.5 kg (Display unit + Drive unit

+ Standard detector)

Evaluation Capability

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, R∆a, R∆q, Rlr, Rmr, Rmr(c), Rδc, 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

Functions

Customization: Desired parameters can be selected for

calculation and display.
GO/NG judgement: By max value / 16% / Standard

deviation

Storage of setups: Save the setup at power OFF

Storage Internal memory:

nternal memory: Setups (10 sets), Measured profile (1 set)

Memory card (option):

500 setups, 10000 measured profiles,

500 display images, text file (setups / measured profile / assessed profile / bearing area curve / amplitude

distribution curve)

Calibration: Auto-calibration with the entry of numerical value / average calibration with multiple measurement (max.5

times) is available





DIMENSIONS: Display unit, drive unit

