

Surftest SJ-210

Series 178 - Portable Surface Roughness Measuring Instrument

This is a portable measuring instrument that allows you to easily and accurately measure surface roughness.

The Surftest SJ-210 offers you the following benefits:

- Skid system gives you user friendly and intuitive menu navigation.
- It works independently of mains power, allowing you to make on-site measurements.
- The **6 cm** [2,4"] colour graphic, back-lit LCD gives you excellent readability.
- It performs roughness analyses conform to various international standards (EN ISO, VDA, ANSI, JIS) and customized settings.
- Different drivers expanding the range of applications.
- Calculation results, assessed profiles, bearing and amplitude curves can be displayed.
- Support of 21 languages.
- Operation by keys on the front and under the sliding cover.



SJ-210

Metric Switchable between 16 languages: Japanese, English, German, French, Italian, Spanish, Portuguese, Czech, Polish, Hungarian, Turkish, Swedish, Dutch, Korean, Traditional Chinese, Simplified Chinese

No.	Detector measuring force [mN]	Stylus tip angle	Stylus tip radius [µm]	Description	Mass
178-560-11D	0,75	60°	2	SJ-210 model	500 g
178-562-11D	0,75	60°	2	SJ-210R model	500 g
178-564-11D	0,75	60°	2	SJ-210S model	500 g

Metric Switchable between 16 languages: Japanese, English, Russian, Slovenian, Rumanian, Bulgarian, Finnish, German, French, Italian, Spanish, Czech, Polish, Hungarian, Turkish, Swedish

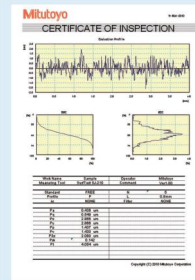
No.	Detector measuring force [mN]	Stylus tip angle	Stylus tip radius [µm]	Description	Mass
178-560-13D	0,75	60°	2	SJ-210 model	500 g



Standard

Specifications

Drive unit	
Measuring range	16 mm, 4,8 mm [S-type]
Traverse	17,5 mm, 5,6 mm [S-type]
Measuring speed	0,25 mm/s; 0,5 mm/s; 0,75 mm/s
Detector	
Measuring method	Differential inductance
Range	360 µm
Stylus	Diamond Tip
Skid radius	40 mm
Display unit	
Profiles	Roughness Profile (R), R-Motif, DF-Profile and more
Roughness standard	EN ISO, VDA, JIS, ANSI and customize settings
Digital filter	Gauss, 2CR75, PC75
Cut-off length	λc : 0,08 mm; 0,25 mm; 0,8 mm; 2,5 mm λs : 2,5 µm; 8 µm
Tolerance	Coloured upper / lower limit
Interface	
	USB, Digimatic, RS-232C, Foot switch
Power supply	AC adapter or rechargeable battery



USB COMMUNICATION TOOL as a free download on www.mitutoyo.eu registration required (refer to page Optional Software USB Communication Tool)



Refer to Surftest SJ-210 brochure



Scan QR Code with your mobile device and watch our product videos on YouTube

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The SJ-210R – Retract System is a portable measuring instrument for surface roughness that includes a safety system.

- The detector starts in a safety position, not in contact with the workpiece surface. When measurement starts, the detector is lowered onto the workpiece while the drive unit moves in X measuring direction. During the return movement, the detector lifts up from the workpiece surface before returning to the start position. This is useful for avoiding stylus damage in applications where you cannot easily see the test surface.

SJ-210S (detailed information further on in this chapter)

- The SJ-210S model is a portable measuring instrument for surface roughness that has a transverse drive capability. This allows you to test shrouded surfaces in the transverse direction, such as crankshaft bearing surfaces, flanged features or deep grooves.



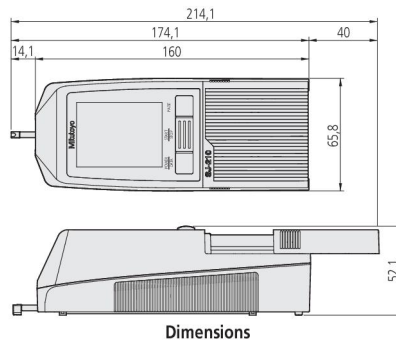
Keyboard protective cover open



Back view



SJ-210



178-029 (displayed with SJ-210)