

Mitutoyo

Surftest SJ-210S [mm] "R2 μ m; 0,75mN; S-Drive" Item number: 178-564-11D



Description

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

The Surfrest 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 **6.0 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.

Features

Detector measuring force:	0.75 mN
Stylus tip angle:	60°
Stylus tip radius:	2 μm
Mass:	500 g
Measuring range:	16 mm, 4.8 mm [S-type]
Traverse:	17.5 mm, 5.6 mm [S-type]
Measuring speed:	Measuring: 0.25 mm/s; 0.5 mm/s; Returning: 0.8 mm/s
Cable length:	1 m
Measuring method:	Induction method
Range:	360 μm
Stylus:	Diamond Tip
Skid radius:	40 mm
Profiles:	Primary Profile (P), Roughness Profile (R), DIN

	4776
Display range:	Ra, Rq: 0.01 μm - 100 μm Ry, Rz, Rt, R3z, Rvk, Rpk, Rk, Rp: 0.02 μm - 350 μm Vo: 0 - 10 (mm ³ /cm ²) S, Sm: 2 μm - 4000 μm Pc: 2.5/cm - 5000/cm Mr 1, Mr 2: 0 - 100 % mr: 1 - 100 %
Roughness standard:	DIN, ISO, ANSI, JIS
Sampling length (L):	0.25 mm, 0.8 mm, 2.5 mm
No. of sampling length (L):	x 1, x 3, x 5, x L
Digital filter:	2CR-75%, 2CR-75% (phase corrected)
Cut-off length:	lc: 0.25 mm, 0.8 mm, 2.5 mm, ls: 2.5 μm , 8 μm
Tolerance:	Upper/lower limit
Interface:	RS-232 C interface for input/output, DIGIMATIC output
Power supply:	Via AC adapter (DC 7.5 V 1.5 W) built-in or rechargeable battery
Functions:	Switchable between 16 languages: Japanese, English, German, French, Italian, Spanish, Portuguese, Czech, Polish, Hungarian, Turkish, Swedish, Dutch, Korean, Traditional Chinese, Simplified Chinese
Radius:	2 μm
Auto-sleep:	Automatic after 30 seconds
Inch-Metric:	Metric

Accessories

Optional accessories:



**Granite stand
for Surftest SJ-210 / SJ-310***
178-029
Suggested retail price: 738.00 €*



**Adapter for magnetic stand; D8mm
for Surftest SJ-210 / SJ-310**
12AAA221
Suggested retail price: 45.00 €*



**Standard drive unit 17,5 mm
for SJ-210 / SJ-310 series**
178-230-3
Suggested retail price: 669.00 €*



**S-type drive unit 5,6 mm
for SJ-210 / SJ-310 series**
178-233-3
Suggested retail price: 2,388.00 €*



**S-type drive unit set
for SJ-210 / SJ-310 series**
178-234-2
Suggested retail price: 2,494.00 €*



**S-type drive unit set
for SJ-210 / SJ-310 series**
178-234-3
Suggested retail price: 2,494.00 €*



**R-type drive unit 17,5 mm
for SJ-210 / SJ-310 series**
178-235-3

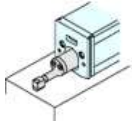


Suggested retail price: 1,295.00 €*



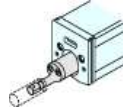
**Extension rod length 50mm
for SJ-210 / SJ-310 series**
12AAA210

Suggested retail price: 220.00 €*



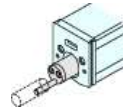
**Standard detector 2µm; 0,75mN
for SJ-210 / SJ-310 series**
178-296

Suggested retail price: 594.00 €*



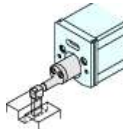
**Detector small holes D4,5; 2µm; 0,75mN
for SJ-210 / SJ-310 series**
178-383

Suggested retail price: 721.00 €*



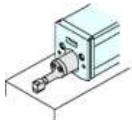
**Detector small holes D2,8; 2µm; 0,75mN
for SJ-210 / SJ-310 series**
178-384

Suggested retail price: 721.00 €*



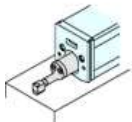
**Detector deep groove 2µm; 0,75mN
for SJ-210 / SJ-310 series**
178-385

Suggested retail price: 721.00 €*



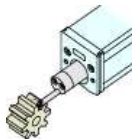
**Detector for S-drive 5µm; 4mN
for SJ-210 / SJ-310 series**
178-386

Suggested retail price: 573.00 €*



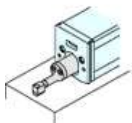
**Detector for S-drive 2µm; 0,75mN
for SJ-210 / SJ-310 series**
178-387

Suggested retail price: 637.00 €*



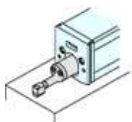
**Detector for gear tooth 2µm; 0,75mN
for SJ-210 / SJ-310 series**
178-388

Suggested retail price: 1,230.00 €*



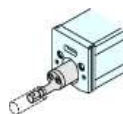
**Standard detector 5µm; 4mN
for SJ-210 / SJ-310 series**
178-390

Suggested retail price: 478.00 €*



**Detector for soft materials 10µm; 4mN
for SJ-210 / SJ-310 series**
178-391

Suggested retail price: 478.00 €*

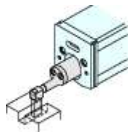


**Detector small holes D4,5; 5µm; 4mN
for SJ-210 / SJ-310 series**
178-392

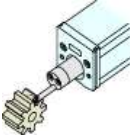
Suggested retail price: 637.00 €*



**Detector small holes D2,8; 5µm; 4mN
for SJ-210 / SJ-310 series**
178-393

Suggested retail price: **637.00 €***

**Detector deep groove 5µm; 4mN
for SJ-210 / SJ-310 series**
178-394

Suggested retail price: **637.00 €***

**Detector for gear tooth 5µm; 4mN
for SJ-210 / SJ-310 series**
178-398

Suggested retail price: **1,150.00 €***

USB communication cable for SJ-210
Length 1,8 mm
63AAA211

Suggested retail price: **15.00 €***

USB Input Tool Direct (Digimatic USB)
Flat 10-Pin Type
06ADV380D

Suggested retail price: **104.00 €***

**Connection cable for extension 1 m
for Surfrest SJ-210**
12BAA303

Suggested retail price: **75.00 €***

**RS-232C cable for printer
for Surfrest SJ-210**
12AAL067

Suggested retail price: **81.00 €***

**Communication cable for
USB/178 Series**
12AAL068

Price on application

Promotion!



U-WAVE-T Connection Cable D
Flat 10-Pin Type
02AZD790D

Promo price: 49.90 €*Suggested retail price: ~~88.00 €*~~

Digimatic Cable, Flat 10-Pin Type
1m
936937

Suggested retail price: **50.00 €***














Digimatic Cable, Flat 10-Pin Type
2m
965014

Suggested retail price: **64.00 €***

**Height adjustment feet
for Surfrest SJ-210 / SJ-310**
12AAA216

Suggested retail price: **133.00 €***

**Nosepiece for flat surfaces
for SJ-210 / SJ-310 series**
12AAA217

	Suggested retail price: 90.00 €*
	Nosepiece for cylinder for SJ-210 / SJ-310 series 12AAA218 Suggested retail price: 90.00 €*
	Adapter for vertical position for Surfrest SJ-210 / SJ-310 12AAA219 Suggested retail price: 45.00 €*
	Magnetic Stand Adaptor Ø3/8"/9.5MM(SJ201/301) 12AAA220 Price on application
	Height gauge adaptor [mm] for Surfrest SJ-210 / SJ-310 12AAA222 Suggested retail price: 90.00 €*
	Height Gauge Adaptor Imperial (SJ-201/301) 12AAA233 Price on application
	Footswitch 12AAJ088 Suggested retail price: 232.00 €*
	Protective sheet for display (5 sheets) for Surfrest SJ-210 12AAL066 Suggested retail price: 22.00 €*
	Memory card 2GB for SJ-210 12AAW452 Suggested retail price: 93.00 €*
	Battery Pack for SJ-210 from SN3 12AAP402 Price on application
	Device for cylindrical workpieces for Surfrest SJ-210 / SJ-310 178-033 Suggested retail price: 2,833.00 €*
	Device as universal fixture 178-034 Suggested retail price: 2,175.00 €*
	Device for measuring inside diameter 178-035 Suggested retail price: 2,545.00 €*



**Printer for SJ-210
with connecting cable**
178-423D
Price on application



**Printer set for SJ-210
with cable and battery**
178-421D
Price on application