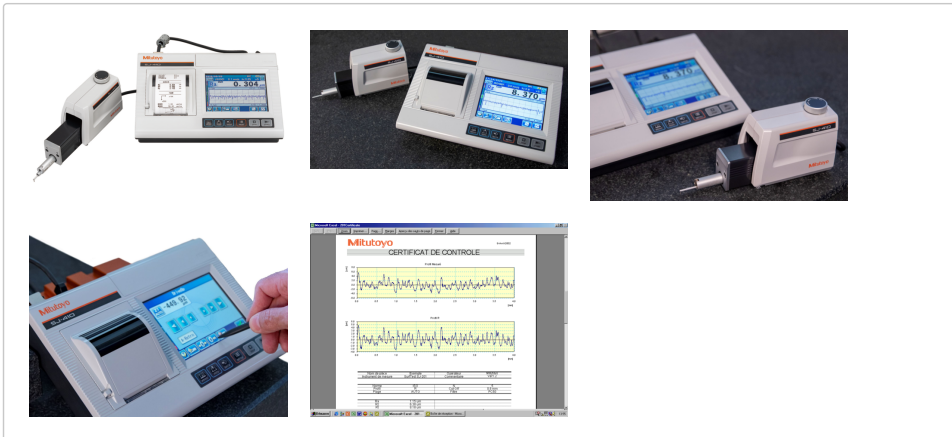# Mitutoyo

Surftest SJ-411 [mm]
"R2µm; 0.75mN; X=25mm"
Item number: 178-580-11D

Description

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

The Surftest SJ-410 offers you the following benefits:
- Skidless system with touch-screen functionality and built-in printer.
- It works independently of mains power, allowing you to make on-site measurements.
- Easy and intuitive menu navigation.
- The large **14.5 cm** [5.7"] colour LCD gives you high visibility.
- The skidless detector allows you to measure the primary profile (P), roughness profile (R), waviness profile (W) and more.
- Surface compensation of curved, radial and tilted surfaces.
- It performs roughness analyses conform to various international standards (EN ISO, VDA, ANSI, JIS) and customized settings.
- You can store up to 10 different measuring conditions inside the SJ-410, and up to 500 with an optional SD card.
- It allows two different evaluation conditions within one measurement adjustable.
- You can separately password protect many functions.
- It comes with support for 16 languages.
- Available options include an auto-set unit, X-axis fine adjustment and digital levelling unit.

Features

Detector measuring force:	**0.75 mN**
Stylus tip angle:	**60°**
Stylus tip radius:	**2 µm**
Traverse:	**SJ-411: 25 mm** **SJ-412: 50 mm**
Measuring speed:	**0.05, 0.1, 0.5, 1 mm/s**
Measuring method:	**Skidless / skidded**
Range:	**800 µm; 80 µm; 8 µm** **(up to 2,4 mm with an optional stylus)**
Positioning:	**±1.5° (tilting), 10 mm (up/down)**
Profiles:	**Primary Profile (P), Roughness Profile (R), Waviness (W),** **MOTIF (R, W) and more**
Standard:	**EN ISO, VDA, JIS, ANSI and customize settings**
Analysis graphs:	**BAC, ADC**
Digital filter:	**Gauss, 2CR75, PC75**
No. of sampling length (L):	**x 1, x 3, x 5, x L* (* = oder jeder beliebige Wert)**
Cut-off length:	**λc : 0.08 mm; 0.25 mm; 0.8 mm;** **2.5 mm; 8 mm** **λs : 2.5 µm; 8 µm; 25 µm**
Printer:	**Thermal Printer**
Tolerance:	**Coloured upper / lower limit**

Interface:	USB, Digimatic, RS-232C, Foot switch
Power supply:	Via AC adapter, rechargeable battery
Functions:	Surftest SJ-411
	Traverse : 25 mm
	Traverse straightness : 0.3 µm / 25 mm

Accessories

Optional accessories:

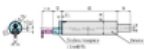**Granite stand**
for SJ-410
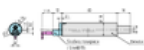178-039

Autoset Unit
for SJ-410
178-010

X-Axis Adjustment Unit
for SJ-410
178-020

Digital Leveling Unit
for SJ-410
178-030

Detector
0,75mN
178-396-2

Detector
4mN
178-397-2

Extension rod
50mm
12AAG202

Extension rod
100mm
12AAG203

Roughness specimen Ra 1µm [mm]
Ra 1µm
178-605

Step gauge
(1, 2, 5, 10)µm
178-610

Spare parts

Consumable spares:

Nosepiece skidless type
12AAB355

Touch pen
for Surftest SJ-310/410/500, SV-2100
12BAG834

Touch Panel Protecting Sheet
12BAL402

Replacement battery
for Surftest SJ-310 / SJ-410
12AAN046

Printer paper
5 rolls, for SJ-301
270732