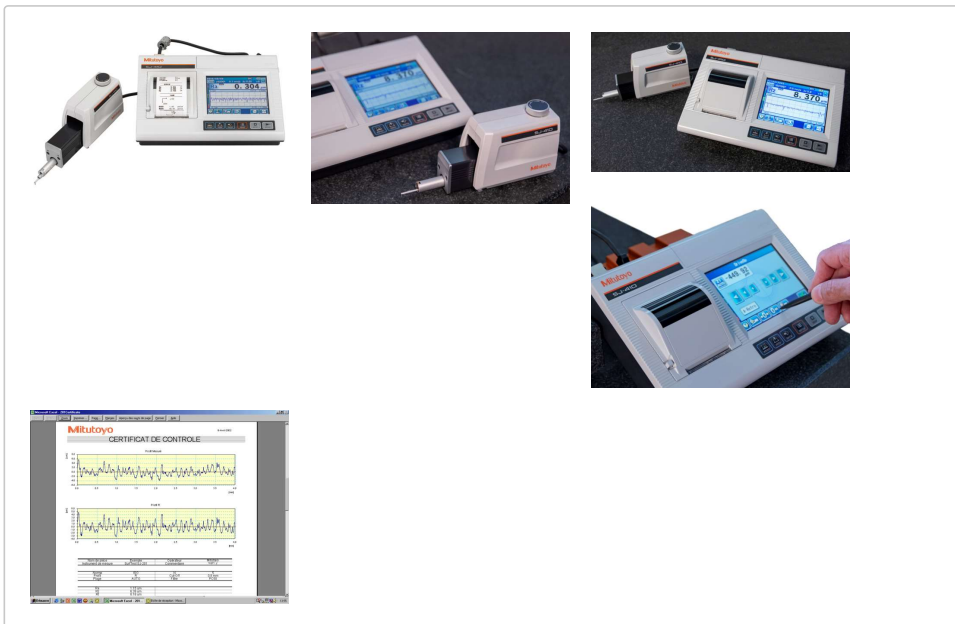




## Surftest SJ-412 [mm]

"R5 $\mu$ m; 4mN; X=50mm"

Item number: 178-582-12D



### 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:   | <b>4 mN</b>  |
| Stylus tip angle:           | <b>90°</b>   |
| Stylus tip radius:          | <b>5 <math>\mu</math>m</b>   |
| Traverse:                   | <b>SJ-411: 25 mm<br/>SJ-412: 50 mm</b>   |
| Measuring speed:            | <b>0.05, 0.1, 0.5, 1 mm/s</b>  |
| Measuring method:           | <b>Skidless / skidded</b>  |
| Range:                      | <b>800 <math>\mu</math>m; 80 <math>\mu</math>m; 8 <math>\mu</math>m<br/>(up to 2,4 mm with an optional stylus)</b> |
| Positioning:                | <b><math>\pm 1.5^\circ</math> (tilting), 10 mm (up/down)</b>   |
| Profiles:                   | <b>Primary Profile (P), Roughness Profile (R),<br/>Waviness (W),<br/>MOTIF (R, W) and more</b>                     |
| Standard:                   | <b>EN ISO, VDA, JIS, ANSI and customize settings</b>   |
| Analysis graphs:            | <b>BAC, ADC</b>  |
| Digital filter:             | <b>Gauss, 2CR75, PC75</b>  |
| No. of sampling length (L): | <b>x 1, x 3, x 5, x L* (* = oder jeder beliebige)</b>  |

|                 |  |
|-----------------|--|
| Cut-off length: | Wert)<br>$\lambda_c$ : 0.08 mm; 0.25 mm; 0.8 mm;<br>2.5 mm; 8 mm<br>$\lambda_s$ : 2.5 $\mu\text{m}$ ; 8 $\mu\text{m}$ ; 25 $\mu\text{m}$ |
| Printer:        | Thermal Printer  |
| Tolerance:      | Coloured upper / lower limit   |
| Interface:      | USB, Digimatic, RS-232C, Foot switch   |
| Power supply:   | Via AC adapter, rechargeable battery   |
| Functions:      | Surfetest SJ-412<br>Traverse : 50 mm<br>Traverse straightness : 0.5 $\mu\text{m}$ / 50 mm  |

## Accessories

### Optional accessories:



#### Granite stand for SJ-410

178-039

Suggested retail price: 732.00 €\*



#### Autoset Unit for SJ-410

178-010

Suggested retail price: 2,370.00 €\*



#### X-Axis Adjustment Unit for SJ-410

178-020

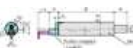
Suggested retail price: 1,220.00 €\*



#### Digital Leveling Unit for SJ-410

178-030

Suggested retail price: 1,800.00 €\*



#### Detector 0,75mN

178-396-2

Suggested retail price: 933.00 €\*



#### Detector 4mN

178-397-2

Suggested retail price: 933.00 €\*



#### Extension rod 50mm

12AAG202

Suggested retail price: 394.00 €\*



#### Extension rod 100mm

12AAG203

Suggested retail price: 454.00 €\*



#### Roughness specimen Ra 1 $\mu\text{m}$ [mm] Ra 1 $\mu\text{m}$















178-605



Suggested retail price: 800.00 €\*








#### Step gauge (1, 2, 5, 10) $\mu\text{m}$

178-610

|   |  |
|---|--|
|     | Suggested retail price: <b>626.00 €*</b>   |
|    | <b>Step gauge, mm<br/>(2, 10)µm<br/>178-611</b><br>Suggested retail price: <b>467.00 €*</b>  |
|    | <b>Precision vise<br/>178-019</b><br>Suggested retail price: <b>660.00 €*</b>  |
|    | <b>Digital XY leveling table [mm]<br/>Leveling range +/- 1,5°; 25 x 25mm<br/>178-042-1</b><br>Suggested retail price: <b>3,440.00 €*</b>             |
|    | <b>XY leveling table [mm]<br/>Leveling range +/- 1,5°; 25 x 25mm<br/>178-043-1</b><br>Suggested retail price: <b>2,690.00 €*</b>                     |
|    | <b>Digital three-axis adjustment table<br/>178-047</b><br>Price on application   |
|   | <b>Leveling table D.A.T<br/>178-048</b><br>Price on application  |
|  | <b>Cylinder attachment Ø15-60mm<br/>12AAB358</b><br>Suggested retail price: <b>239.00 €*</b>   |
|  | <b>Desktop vibration isolator pump type<br/>with max loading mass 120kg<br/>178-093-1</b><br>Suggested retail price: <b>1,770.00 €*</b>              |
|  | <b>U-WAVE-T Connection Cable D<br/>Flat 10-Pin Type<br/>02AZD790D</b><br><b>Promo price: 49.90 €*</b><br><del>Suggested retail price: 88.00 €*</del> |
|  | <b>USB cable for SJ-310 / SJ-410 series<br/>12AAD510</b><br>Suggested retail price: <b>73.00 €*</b>  |
|  | <b>Digimatic Cable, Flat 10-Pin Type<br/>1m<br/>936937</b><br>Suggested retail price: <b>50.00 €*</b>  |
|  | <b>Digimatic Cable, Flat 10-Pin Type<br/>2m<br/>965014</b><br>Suggested retail price: <b>64.00 €*</b>  |
|  | <b>RS-232C Signal Cable<br/>D-Sub9-D-Sub9, 2m, for MUX-10F and Surftest SJ<br/>12AAA882D</b>   |

|   |   |
|---|---|
|   | Suggested retail price: <b>42.00 €*</b>   |
|  | <b>Memory card 2GB<br/>for SJ-210<br/>12AAW452</b><br>Suggested retail price: <b>93.00 €*</b> |

## Spare parts

| Consumable spares:  |  |
|---|--|
|    | <b>Nosepiece skidless type<br/>12AAB355</b>                              |
|    | <b>Touch pen<br/>for Surftest SJ-310/410/500, SV-2100<br/>12BAG834</b>   |
|    | <b>Touch Panel Protecting Sheet<br/>12BAL402</b>                         |
|  | <b>Replacement battery<br/>for Surftest SJ-310 / SJ-410<br/>12AAN046</b> |
|  | <b>Printer paper<br/>5 rolls, for SJ-301<br/>270732</b>                  |