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Date: 30.06.2021

### **AUTHORIZATION OF REPRESENTATION**

To whom it may concern, Mitutoyo Romania SRL hereby certifies that

Euromarket BRD LTD.

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BG 01784 Sofia,

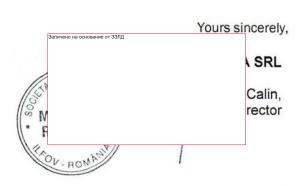
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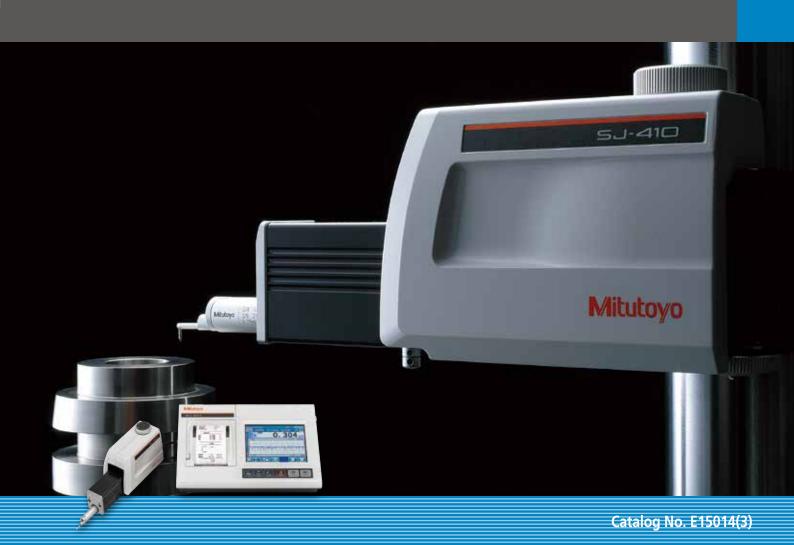
This certificate remains valid for a period of twelve months from the listed date.







Portable Surface Roughness Tester Surftest SJ-410 Series



# Mitutoyo

**Portable Surface Roughness Tester** 

# Surftest SJ-410 Series

Analysis functions that are a notch above the usual









User benefit

Easy and safe measurements that anyone can perform efficiently

User benefit

Higher level of quality control



#### Touch screen for easier operations

The high-visibility color-graphic LCD touch screen clearly displays calculated results and assessed profiles. A backlight enables comfortable viewing even under poor lighting conditions.

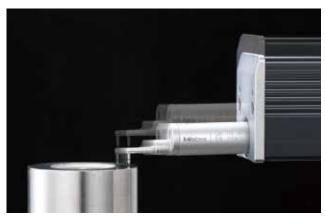




# Mitutoyo



The auto-set unit\* enables measurements to be made with a single button push, saving you time and increasing work efficiency.



The auto-set function safely controls descent of the detector, eliminating the possibility of operator error causing damage to the stylus.

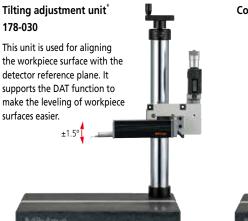
#### Auto-set unit\* 178-010

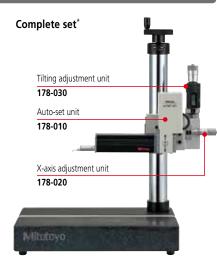
This unit automatically completes a full measurement cycle of stylus contact, measurement, stylus retraction and detector auto-return from just one button push (stylus retraction and detector auto-return can be switched on and off by operating the drive unit).



#### **Options for SJ-410 Series**







<sup>\*</sup> This is an optional accessory for the SJ-410 Series. It can only be used on the simple column stand (optional accessory, order No. 178-039). When the units are used in combination, straightness for SJ-411/412 drive unit will be degraded about 0.2 μm. Cannot be used when the tester's main unit is an older model (SJ-401/402).

#### Assessing a single measurement result under two different evaluation conditions

A single measurement enables simultaneous analysis under two different evaluation conditions. A single measurement allows calculation of parameters and analysis of filtered profiles without the need for recalculation after saving data, contributing to higher work efficiency.

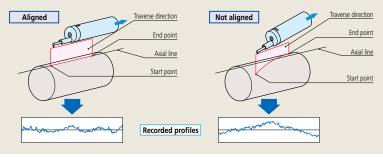




#### 3-axis Adjustment Table <Option>

This table helps make the alignment adjustments required when measuring cylindrical surfaces. The corrections for the pitch angle and the swivel angle are determined from a preliminary measurement and the Digimatic micrometers are adjusted accordingly. A flat-surfaced workpiece can also be leveled with this table.



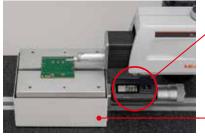


#### DAT Function for the leveling table <Option>

The levelling table can be used to align the surface to be tested with the detector reference plane. The operator is guided through the procedure by screen prompts.



Maximum load: 15 kg

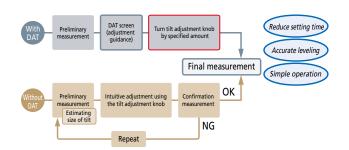


Digimatic micrometer head

Leveling table (DAT) (Option)

#### Powerful support for leveling

The height/tilt adjustment unit comes as standard for leveling the drive unit prior to making skidless measurements and, supported by guidance from the unique DAT function, makes it easy to achieve highly accurate alignment.



#### Simple column stand for SJ-410 Series < Option>



Combining (adjustment guidance)

# Mitutoyo

# User **2** benefit

# Higher level of quality control

Wireless communication and advanced analysis

# Anyone can easily perform high-level data collection.



Wireless and quick capture of measurement results on a PC. No more handwriting, and also easy data input with a single touch <Option>



# Wireless Input Tool U-WAVE

This unit allows you to remotely load Surftest **SJ-410** calculation results (SPC output) into commercial spreadsheet software on a PC. You can essentially use a one-touch operation to enter the calculation results (values) into the cells in the spreadsheet software.



U-WAVE-R (Connects to the PC) 02AZD810D



U-WAVE-T\* (Connects to the SJ-410) 02AZD880G

\* Requires the optional Surftest **SJ-410** connection cable. **02AZD790D** 



#### One-touch Input

### **USB Input Tool**

This unit allows you to load Surftest **SJ-410** calculation results (SPC output) into commercial spreadsheet software on a PC via a USB connector. You can essentially use a one-touch operation to enter the calculation results (values) into the cells in the spreadsheet software.



USB Input Tool Direct
USB-ITN-D
06AFM380D



USB keyboard signal conversion type\*
IT-016U
264-016-10

\* Requires the optional Surftest **SJ-410** connection cable.

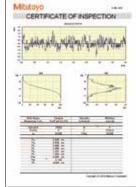
1 m: 936937 2 m: 965014 More advanced analysis with optional software. Also, easy creation of inspection record tables by transferring data to Excel

For SURFTEST SJ-410 Series

#### **Simplified Communication Program (Free software)**

The Surftest **SJ-410** Series has a USB interface, enabling setting up of measurement conditions and starting the measurement via PC. We also provide a program that lets you create inspection record tables using a Microsoft Excel\* macro.





This program can be downloaded free of charge from the Mitutoyo website. https://www.mitutoyo.co.jp/eng/

#### Required environment\*

OS: Windows 7Windows 8Windows 10

Spreadsheet software: Microsoft Excel 2010
 Microsoft Excel 2013
 Microsoft Excel 2016

 $\mbox{\ensuremath{^{\star}}}$  Windows OS and Microsoft Excel are products of Microsoft Corporation.

The optional USB cable is also required.

USB cable for SJ-410 Series 12AAD510

Contour/Roughness analysis software

#### FORMTRACEPAK-AP

More advanced analysis can be performed by loading SJ-410 Series measurement data to software program FORMTRACEPAK-AP via a memory card (option) for processing back at base.

#### Higher accuracy measurements with selectable drive unit

#### A wide range, high-resolution detector

#### Detector

Measuring range/resolution:

800 μm/0.01 μm

 $80~\mu m/0.001~\mu m$ 

 $8~\mu m/0.0001~\mu m$ 

# High straightness drive unit

#### ■ Drive unit

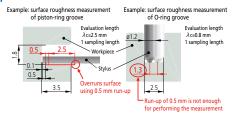
Straightness/traverse length: 0.3  $\mu$ m/25 mm (**SJ-411**) 0.5  $\mu$ m/50 mm (**SJ-412**)



#### **Extending measurement to narrow features**

Surface roughness measurement requires a run-up distance before starting the measurement (or retrieving data). When the SJ-410 Series measures, its run-up distance is normally set to 0.5 mm. However, this distance can be shortened to 0.15 mm using the narrow-part measurement function. This function extends the measurement of narrow locations to features such as piston-ring grooves and O-ring grooves.

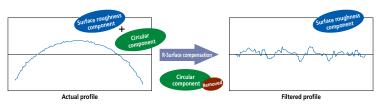
#### **Typical applications**



#### Easily measures R-surface roughness (skidless measurement)

Usually, a spherical or cylindrical surface (R-surface) cannot be evaluated, but, by removing the radius with a filter, R-surface data is processed as if taken from a flat surface.

Other curved surfaces can be processed besides cylindrical, such as parabolical and ellipsoidal.







## Supporting not only surface roughness measurement but also contour (fine contour) measurement

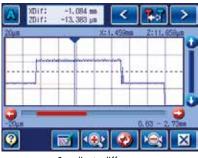


#### Simple contour analysis function

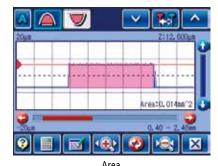
Point group data collected for surface roughness evaluation is used to perform simplified contour analysis (step, step height, area and coordinate difference). It assesses minute forms that cannot be assessed by a regular contour measuring machine.







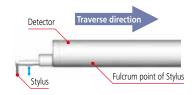
Coordinate difference



#### Your choice of skidless or skidded measurement

#### **Skidless measurement**

Skidless measurement is where surface features are measured relative to the drive unit reference surface. This measures waviness and finely stepped features accurately, in addition to surface roughnness, but range is limited to the stylus travel available.



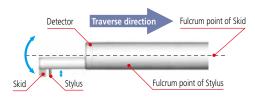
Measuring example of stepped features: Skidless



Measured profile

#### Skidded measurement

In skidded measurements, surface features are measured with reference to a skid following close behind the stylus. This cannot measure waviness and stepped features exactly but the range of movement within which measurement can be made is greater because the skid tracks the workpiece surface contour.



Measuring example of stepped features: Skidded



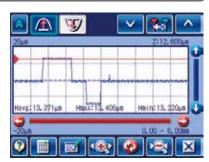
Measured profile

#### Easy to use and highly functional

This portable surface roughness tester is equipped with analysis functionality rivaling that of benchtop surface roughness testers.







Simple contour analysis function

#### Equipped with externally controllable interfaces as standard

#### A variety of interfaces supplied as standard

The external device interfaces that come as standard include USB, RS-232C, SPC output and foot switch I/F.



#### **Data storage**

#### Memory card (optional) is supported

The measurement conditions and data can be stored in a memory card (optional) and recalled as required. This enables batch analysis and printout of data after on-site measurement.



■ Measurement condition

Internal memory: 10 sets Memory card: 500 sets

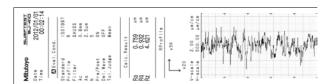
■ Measurement result
Memory card: 10000 sets

#### High-speed thermal printer built in

#### High-speed printer prints out measurement results on site

A high-quality, high-speed thermal printer prints out measurement results.

It can also print a BAC curve or an ADC curve as well as calculated results and assessed profiles. These results and profiles are printed out in landscape format, just as they appear on the color-graphic LCD.



#### Equipped with convenient carrying case as standard

The unit is easily transported in a dedicated carrying case which includes holders for the accessories as well as the tester itself. (Standard accessory)



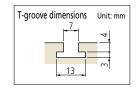


## **Other Optional Accessories**

#### XY leveling tables

The tester includes X- and Y-axes micrometer heads. This makes axis alignment much easier because the tilt adjustment center is the same as the rotation center of the table.

(Order No.178-042-1/178-043-1)







Order No.	<b>178-042-1</b> (mm) <b>178-052-1</b> (inch) with digital heads	<b>178-043-1</b> (mm) <b>178-053-1</b> (inch) with analog heads	<b>178-049</b> (mm) <b>178-058</b> (inch/mm) with digital heads		
Table dimensions	130×100 mm				
Maximum load		15 kg			
Inclination adjustment angle	±1	.5°	_		
Swiveling angle	±	±3°			
X/Y-axis travel range	±12.5 mm	±12.5 mm	±12.5 mm		
Resolution	0.001 mm	0.01 mm	0.001 mm		
Dimensions (WxDxH)	262×233×83 mm	220×189×83 mm	262×233×55 mm		
Mass	6.3 ka	6 ka	5 ka		

#### **Precision vise**

Fits on the stand.





Order No.	178-019
Clamping method	Sliding jaws
Jaw opening	36 mm
Jaw width	44 mm
Jaw depth	16 mm
Height	38 mm

#### Roughness specimen W



Display: Ra = Approx. 3 μm, Approx. 0.4 μm

#### 178-604

Note: Ra = Approx. 0.4  $\mu m$  can only be used for stylus tip checking.

#### Cylinder attachment

This block can be positioned on top of cylindrical objects to perform measurements.

#### 12AAB358

Diameter: ø15 to 60 mm

#### Configuration

- Cylindrical measurement block
- Auxiliary block
- Clamp



#### Reference step specimen

Used to calibrate detector sensitivity. **178-611** 

Step nominal values: 2  $\mu m/10~\mu m$ 



#### Optional accessories, consumables, and others for SJ-410

Printer paper (5 rolls)	270732
<ul><li>Durable printer paper (5 rolls)</li></ul>	12AAA876
Touch-screen protector sheet (10 sheets)	12AAN040
Memory card * (2 GB)	12AAW452
<ul><li>Connecting cable (for RS-232C)</li></ul>	12AAA882
Foot switch	12AAJ088

<sup>\*</sup> micro SD card (with a conversion adapter to SD card)

#### Vibration Isolator (Air cushion type)

Vibration isolator for simple column stand for **SJ-410** Series (**178-039**).



178-093-1

Note: No pump is supplied. An American-valve-compatible hand pump is required.



### **Enhanced standard functions**

#### **Sheet buttons**

#### Single button measurements

A sturdy sheet-button panel with superior durability in any environment is provided. For repeat measurement of the same work, simply pressing the start switch can complete measurement, analysis and printout.



#### Recalculating

Previously measured data can be recalculated for use in other evaluations by changing the current standard, assessed profile and roughness parameters.

Note: Some conditions are limited.

#### **Password protection**

#### Access to functions can be restricted by a password

A pre-registered password can limit use of measurement conditions and other settings to the tester's administrator.

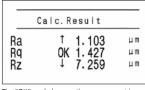
#### Arbitrary sampling length setting

This function allows a sampling length to be arbitrarily set in 0.01 mm increments (SJ-411: 0.1 mm to 25 mm, SJ-412: 0.1 mm to 50 mm). It also allows the SJ-410 Series to make both narrow and wide range measurements.

#### GO/NG judgement function

An "GO/NG" judgment symbol is displayed when limits are set for the roughness parameter. In case of "NG," the calculated result is highlighted. The calculated result can also be printed out.





The "OK" symbol means the measurement is within the limits set; "NG" means it is not, in which case an arrow points to either the upper or lower limit in the printout.

#### **Applicable standards**

#### Complies with many industry standards

The Surftest **SJ-410** complies with the following standards: JIS (JIS-B0601-2001, JIS-B0601-1994, JIS B0601-1982), VDA, ISO-1997, and ANSI.



#### **Multilingual support**

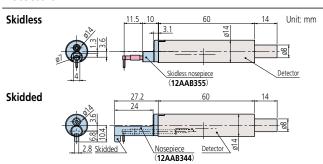
#### The display interface supports 16 languages.

(Japanese, English, German, French, Italian, Spanish, Portuguese, Korean, Chinese (simplified/traditional), Czech, Polish, Hungarian, Turkish, Swedish, Dutch)



## **Detectors/Styli**

#### **Detectors**



Order No.	Measuring force	
178-396-2*1*3	0.75 mN	'97ISO and '01JIS compliant detectors
178-397-2*1*4	4 mN	Detectors that comply with previous standards, for general use, etc.
178-396*2*3	0.75 mN	'97ISO and '01JIS compliant detectors
178-397* <sup>2*4</sup>	4 mN	Detectors that comply with previous standards, for general use, etc.
	•	

- \*1 The skidless nosepiece (12AAB355) is a standard accessory.
- \*2 The skidless nosepiece (12AAB355) and the nosepiece (12AAB344) are standard accessories.
- \*3 The standard stylus (12AAC731) is a standard accessory.
- \*4 The standard stylus (12AAB403) is a standard accessory.

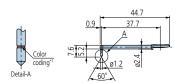
#### Styli Unit: mm

#### Standard stylus

**12AAE882** (1 μm) **12AAE924** (1 µm)\*5 **12AAC731** (2 μm) 12AAB403 (5 µm)\*5 **12AAB415** (10 µm)\*5

**12AAE883** (250 μm)\*8

( ): Tip radius

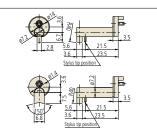


#### Nosepiece

For standard 12AAB344

Remarks ø2 to 20

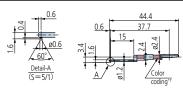
For round bar 12AAB345



#### For small hole

**12AAC732** (2 μm) 12AAB404 (5 µm)\*5 12AAB416 (10 µm)\*5

(): Tip radius

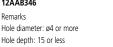


#### Nosepiece

For small hole

12AAB346

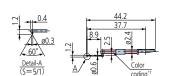
Hole diameter: ø4 or more



#### For extra-small hole

**12AAC733** (2 μm) 12AAB405 (5 µm)\*5 12AAB417 (10 µm)\*5

( ): Tip radius

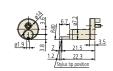


#### Nosepiece

For ultra-small hole

12AAB347

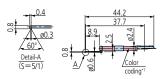
Hole diameter: ø2.3 or more Hole depth: 6.5 or less



#### For ultra-small hole

**12AAC734** (2 μm) 12AAB406 (5 µm)\*5 12AAB418 (10 µm)\*5

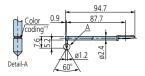
( ): Tip radius



#### For deep hole\*6

2X stylus 12AAC740 (2 µm) 12AAB413 (5 µm)\*5 12AAB425 (10 µm)\*5

( ): Tip radius

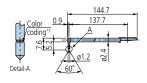


3X stylus

**12AAC741** (2 μm) 12AAB414 (5 µm)\*5

12AAB426 (10 µm)\*5

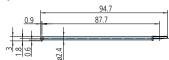
( ): Tip radius



#### Double-length for deep hole\*6

**12AAE898** (2 μm) **12AAE914** (5 μm)\*5

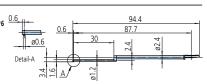
( ): Tip radius



#### For small hole/ Double-length for deep hole $^{\star 6}$

**12AAE892** (2 µm) **12AAE908** (5 μm)\*5

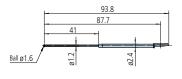
( ): Tip radius



#### For small hole\*6\*8

12AAE884

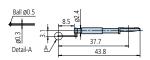
(ø1.6 mm)



#### For ultra-small hole\*8

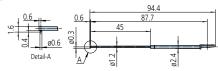
12AAJ662

(ø0.5 mm)



#### For small slotted hole\*6

**12AAE938** (2 μm) 12AAE940 (5 µm)\*5

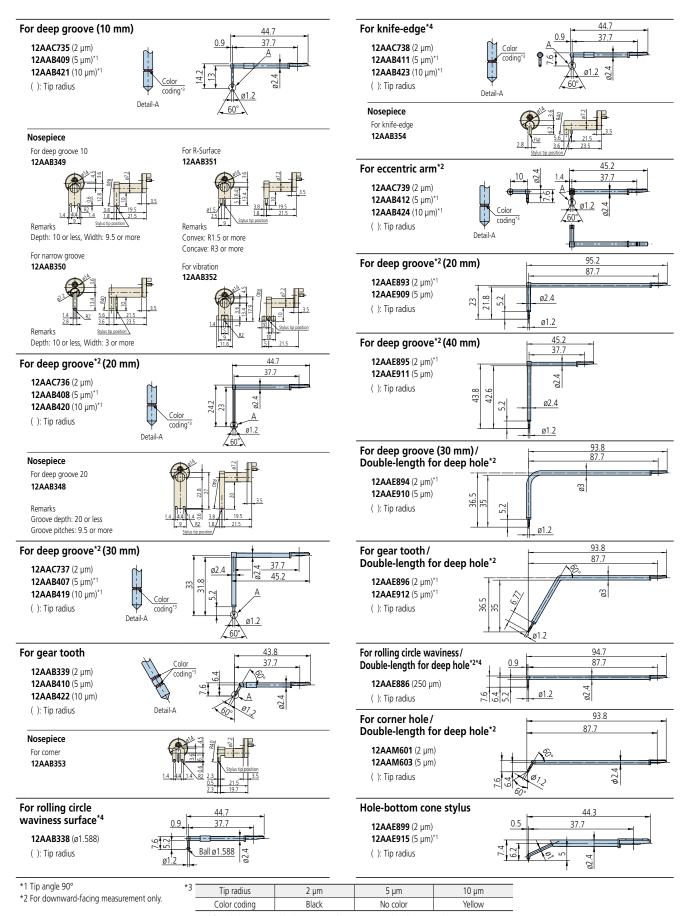


<sup>\*5</sup> Tip angle 90°

<sup>\*6</sup> For downward-facing measurement only.

Tip radius  $1\,\mu m$ 2 µm  $5\,\mu m$ 10 µm  $250~\mu m$ White Black No Color Yellow No notch or color

<sup>\*8</sup> Used for calibration, a standard step gauge (178-611, option) is also required



<sup>\*4</sup> Used for calibration, a standard step gauge (178-611, option) is also required

Note: Customized special interchageable styli are available on request. Please contact any Mitutoyo sales office for more information.



# **Specifications**

Model No.			SJ-411		-412
Order No.	mm	178-580-11	178-580-12	178-582-11	178-582-12
Order No.	inch/mm	178-581-11	178-581-12	178-583-11	178-583-12
Measuring range	X axis		25 mm	50	) mm
ivieasuring range	Z axis (detector)		800 μm, 80 μm, 8 μm Up to 2,4	400 µm when using an optional stylus	
	Detection method		Different	tial inductance	
	Resolution		0.01 μm (800 μm range), 0.001 μm	(80 μm range), 0.0001 μm (8 μm ran	ge)
Detector	Stylus tip shape (Angle/Radius)	60°/2 μm	90°/5 μm	60°/2 μm	90°/5 μm
Detector	Measuring force	0.75 mN	4 mN	0.75 mN	4 mN
	Radius of skid curvature		4	10 mm	
	Measuring methods		Skidless/Ski	dded (switchable)	
	Measuring speed		0.05, 0.1, 0	.2, 0.5, 1.0 mm/s	
Drive unit (X axis)	Drive speed		0.5, 1	, 2, 5 mm/s	
	Straightness	0.3	μm/25 mm	0.5 μr	n/50 mm
Up/down	Vertical travel		1	0 mm	
nclination unit	Inclination adjustment angle			±1.5°	
Applicable standar	ds		JIS 1982/JIS 1994/JIS	2001/ISO 1997/ANSI/VDA	
Parameter				* <sup>1</sup> , Rz1max <sup>*2</sup> , S, HSC, RzJIS <sup>*3</sup> , Rppi, R. b, Rpm, tp <sup>*4</sup> , Htp <sup>*4</sup> , R, Rx, AR, W, AW,	
Filtered profile				ess profile, Roughness motif profile, W	
Analysis graph		· ····································		eight amplitude distribution curve	р
Data compensatio	n functions		<u>'</u>	se, Circle, Tilt, No compensation	
Filter				75, Gaussian	
	λς			, 0.8, 2.5, 8 mm	
Cutoff value	$\lambda s^{*5}$			8, 25 µm	
Sampling length	7.3			0.8, 2.5, 8, 25 mm	
lumber of interva	ls	x1 x2		1, ×12, ×13, ×14, ×15, ×16, ×17, ×1	8 ×19 ×20
Arbitrary length	13		to 25 mm	<del></del>	50 mm
abidary length	Customization	0.1		luation roughness parameter	7 30 11111
	Simplified contour analysis function			Area, Coordinate difference	
	DAT (Digimatic Adjustment Table) function			prior to skidless measurement	
	Real sampling function		<u>.</u>	detector while stopping the drive unit	
	statistical processing	Calculates the maximum		e, standard deviation, pass rate and h	ictogram for each parameter
	Judament*6			alue rule, standard deviation (1 $\sigma$ , 2 $\epsilon$	
	Storing measurement condition	IVIC		ulation display unit)	0,30)
Calculation	Print function	Massurament condition / Calcu		tion result per segment/Tolerance val	us /Evaluation curso / Craphic curs
display unit	(Built-in thermal printer)			curve/Environmental setting items/St	
	•			n, French, Italian, Spanish, Portuguese	
	Display language			, Polish, Hungarian, Turkish, Swedish, I	
	Storage function	Built-in memory: N	Measurement condition (Up to 10)	10000 measured profiles, 500 display	· · · · · · · · · · · · · · · · · · ·
			500 statistical data, 1 backup fi	le of device setting data, 10 data of T	race 10
	External I/O functions		USB I/F, Digimatic outpu	t, RS-232C I/F, Foot switch I/F	
Power supply	Battery Charging time/Endurance		ng time of the built-in battery: abou	ble Ni-MH battery) /AC adapter t 4 hours (may vary due to ambient to	
117		Endur		fers slightly due to use conditions/er 50 W	wiioninent)
T. dans al	Max. power consumption  Calculation display unit			98×109 mm	
External dimensions	Up/down inclination unit			x63×99 mm	
WxDxH)	Drive unit	1203	5.8×46.6 mm		.8×46.6 mm
	Calculation display unit	120×3		1.7 kg	.0.40.0 11111
Mass	Up/down inclination unit			7.7 kg 7.4 kg	
iviuss	Drive unit		0.6 kg		54 kg
Standard Accessor		<b>270732</b> Receipt pa	s specimen (Ra3 µm) sper (Standard type: 5-roll set) sheet for the LCD (x1 sheet)	AC adapter, Power cable, Flat-bla screwdriver, Hex wrench, Strap for manual, One-sheet manual, Warr	de screwdriver, Phillips r the touch pen, Operation

<sup>\*1</sup> Calculation is available only when selecting the VDA, ANSI, or JIS 1982 standards.
\*2 Calculation is available only when selecting the ISO 1997 standard.
\*3 Calculation is available only when selecting the JIS 2001 standard.

<sup>\*4</sup> Calculation is available only when selecting the JIS 2001 standard.

\*5 Not available when selecting the JIS 1982 standard.

\*6 Only the mean value rule is available for the ANSI standard. 16 % rule is not available when selecting the VDA standard.

<sup>\*7</sup> Depending on the Order No. of the SJ-410 Series main unit, 178-396 or 178-397 is provided as standard.

\*8 Standard stylus (12AAC731 or 12AAB403) supporting the provided detector is provided as standard.

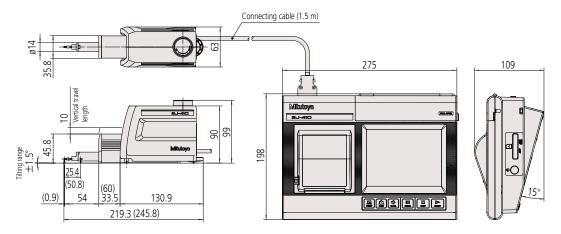
Note 1: Refer to pages 12 to 13 for details of Detector, Stylus and Nosepiece.

Note 2: To denote your AC line voltage add the following suffixes (e.g. 178-580-11A). A for 120 V, C for 100 V, D for 230 V, E for 230 V (for UK), DC for 220 V (for China), K for 220 V (for Korea)

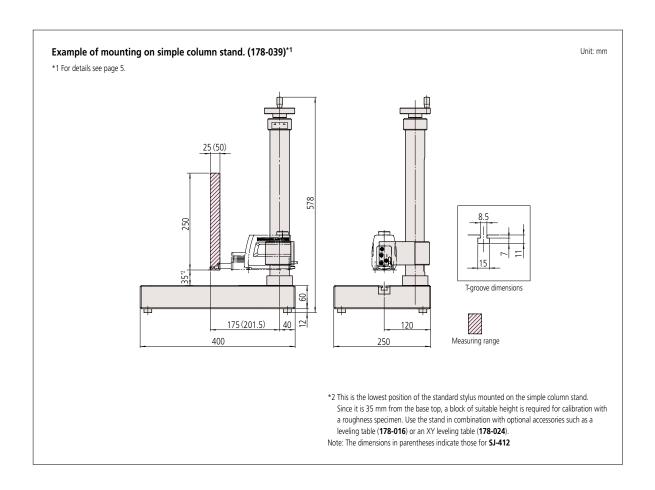


### **Dimensions**

Unit: mm



Note: Dimensions in parentheses indicate those of **SJ-412** [equipped with a 50 mm drive unit].





Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



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Приложение №2

Индикативно предложение по проведени пазарни консултации №48310 с предмет "Доставка на еталонен уред за измерване на грапавост" INDSF0000047276/07.02.2022

07

Евромаркет - БРД ЕООД, ЕИК 040186203, адрес: гр. София 1784, бул. Андрей Ляпчев 51, телефон 02 9767100 ел. поща office@euromarket.bg, лице за контак - Стефан Джелепов - Мениджър поднаправление /наименование на участника, ЕИК, адрес, телефон, ел. поща, лице за контакт, длъжност/

ОДАКК Калибрационен сертификат от акредитирана лаборатория за калибрационна в мярка за грапавост с номинална стойност Ra = 1 µm  Гранитна маса с колона за SJ-411
персонал.  Издаване на калибрационен сертификат от Издаване на калибрационен сертификат от Міtutoyo, акредитирани по ISO 17025. В цената са включени транспорт и командировачни разходи  Калибрационна мярка за грапавост с номинална стойност Ra = 0.4 µm / 3 µm  DAkkS калибрационен сертификат от акредитирана лаборатория за калибрационна мярка за грапавост с е 0.4 µm / 3 µm  Калибрационна мярка за грапавост с Калибрационна мярка за грапавост с номинална стойност Ra = 1 µm
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1 175,00 723,00 1 500,00
723,00

Срок на доставка Условие на доставка Гаранционен срок Производител

до 40 работни дни франко Ваш склад 24 месеца Mitutoyo - Япония

Декларация за произход;
Декларация за съответствие;
Сертификат за калибриране от производител или акредитирана лаборатория;
Инструкция за експлоатация, настройка и съхранение;

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