

Roughness Measuring System Surftest SJ-500/SV-2100



Easy operation, high-accuracy analysis of surface roughness and fine contours!

Dedicated data processor type

Surftest SJ-500/SV-2100

Improved operability

7.5" Color TFT LCD

The dedicated data processor has a high-visibility 7.5" color TFT LCD. Icon display and touch panel operation provide user-friendly display and easy operation.

Positioning by joystick and manual control knobs on the processor

Easy-to-operate joystick. Fine positioning of stylus required for small-hole measurements can be easily performed using the manual fine-adjustment knobs.

Multiple trace function

A machine can be programmed to take up to three traces, one after the other.

Various types of analysis

Capable of fine-contour analysis

Supports 43 types of analysis parameters, complying with surface roughness standards such as ISO 1997 and JIS 2001. Also capable of various fine-contour analysis.

* Contour analyses: Area, circle, angle, coordinate difference, step, inclination

High-durability

Ceramic guideway

A ceramic guideway, inherently free from wear and deterioration with age, is employed to maintain the traversing straightness of the drive unit (X axis) indefinitely. Maintenance-free design, since anti-corrosion treatment is not required for ceramic.

SJ-500

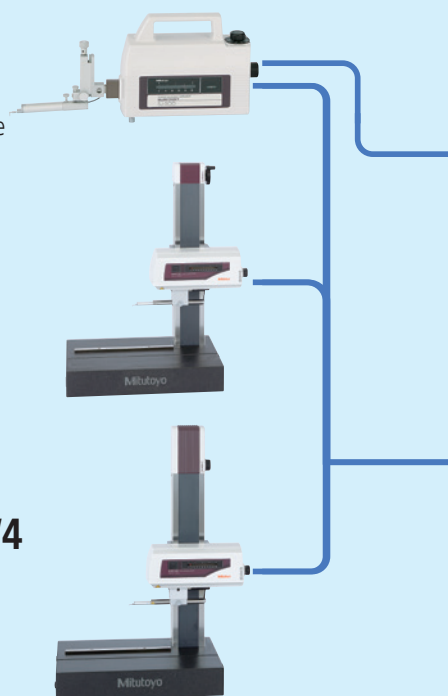
Traverse: 50 mm
Compact, high-performance type

SV-2100M4

Traverse: 100 mm
Manual column type

SV-2100S4/H4/W4

Traverse: 100 mm
Power column type



PC data-processing system

Next-level, advanced processing



Dedicated data processor

Advanced processing and easy operation



High-visibility color display panel

A high-visibility 7.5" color TFT LCD, color icon display and touch-operated panel provide user-friendly, easy operation. Built-in thermal printer. Fine contour analysis provided as standard.



Supports 16 languages

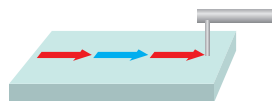
Japanese, English, German, French, Italian, Spanish, Portuguese, Korean, Traditional Chinese, Simplified Chinese, Czech, Polish, Hungarian, Turkish, Swedish, Dutch

Multiple trace programming function

A machine can be programmed to take up to three consecutive traces by one-key operation, as shown in the figure below.

• SJ-500/SV-2100M4

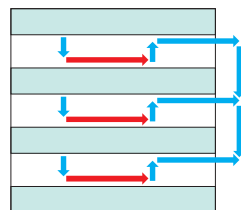
Consecutive tracing in X-axis direction only



Measurement
 Traverse

• SV-2100S4/H4/W4

X-axis tracing with programmed Z-axis shifts possible



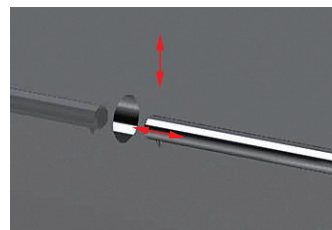
Example: SV-2100S4 input screen



Efficient positioning by joystick and adjustment knobs

Both a fast-traverse joystick (X-axis: 20 mm/s for **SJ-500**, 40 mm/s for **SV-2100**, ZZ-axis: 20 mm/s for **SV-2100S4/H4/W4**) and manual fine-adjustment knobs, essential for positioning in small hole measurement, are standard features.

〈Positioning in small hole measurement〉



Positioning in Y/Z-directions with column fine-adjustment knob (or detector elevation knob) and optional cross-travel table.



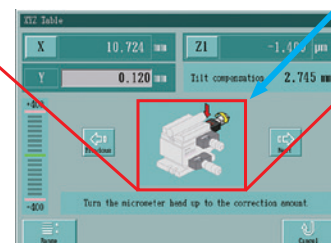
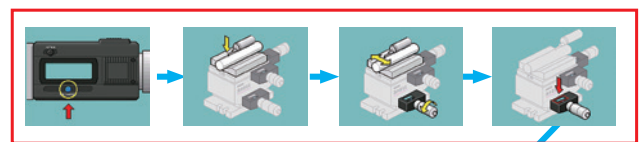
Positioning at the trace start point with X-axis fine-adjustment knob.

Navigation function aids leveling

Powerful support for leveling adjustments

When using an optional 3-axis adjustment table or leveling table, a navigation screen is available to help the operator level the surface to be tested.

Example of 3-axis adjustable table

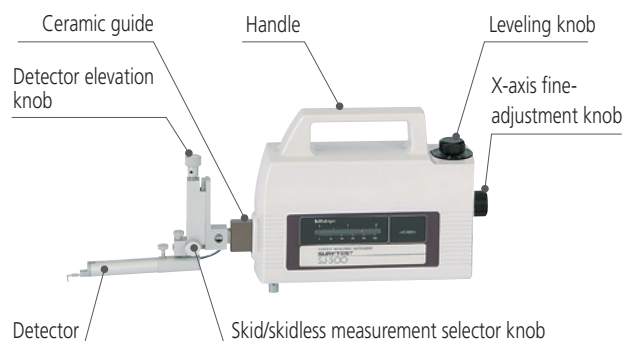


The user is guided through the leveling procedure to determine the amount of adjustment needed.

A portable tester also boasting high performance in desktop applications

Surftest SJ-500

High accuracy, high performance, user-friendly display and easy operation



Class-leading traverse straightness:
0.2 $\mu\text{m}/50\text{ mm}$

High-speed traverse at up to
20 mm/s under joystick control

Smooth positioning using the vertical
adjustment knob

Vertical adjustment knob

Essential for
positioning the
stylus close to
the workpiece!



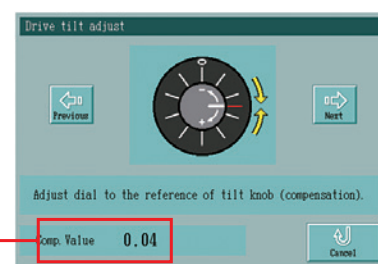
Support for testing problematic features

Supports measurement in the axial direction for shrouded features, such as found on crankshafts, by simply swiveling the detector through 90 degrees.



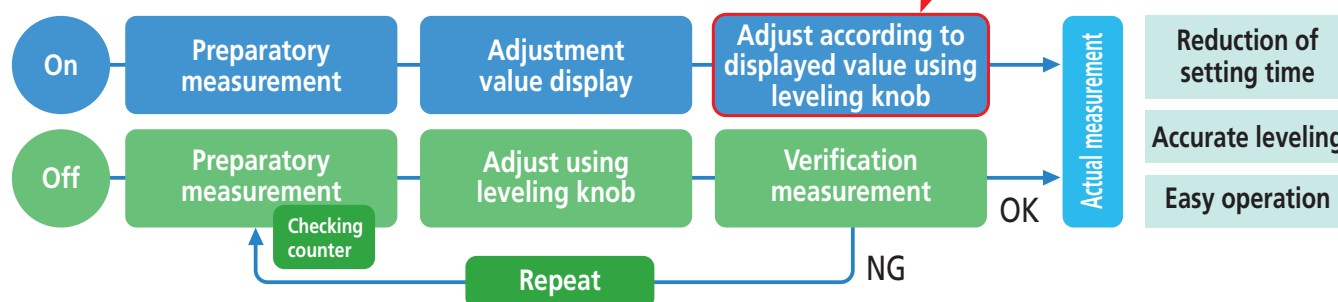
Drive unit inclination adjustment mechanism

Digital Adjustment Tilting (DAT) function is supplied as standard for efficient leveling of workpieces: $\pm 1.5^\circ$



DAT function

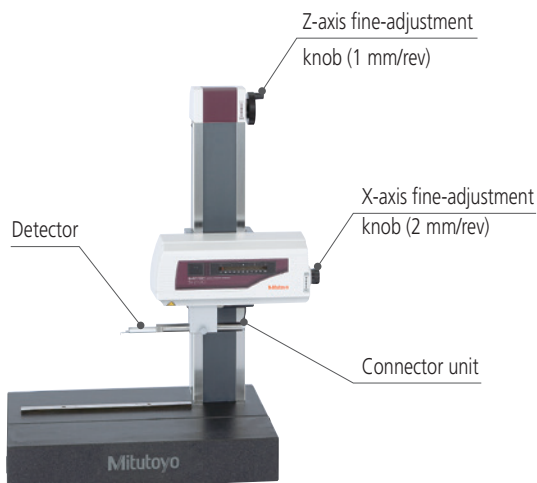
Powerful support for manual leveling!!



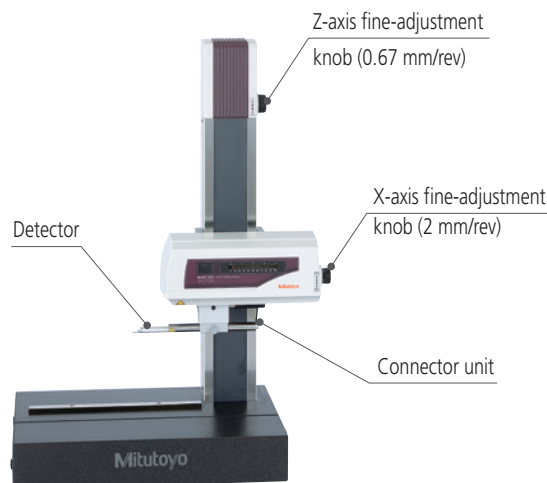
A desktop tester that's easy to use for portable applications

Surftest SV-2100

By setting the origin point at start-up, the Absolute scale system allows accurate positioning for repeated or multiple measurements.



SV-2100M4



SV-2100S4

High-speed traverse at up to 40 mm/s (X-axis) under joystick control
Smooth positioning, using the Z-axis fine-adjustment knobs
Stable, high-accuracy measurement with a traverse straightness of 0.15 $\mu\text{m}/100\text{ mm}$

1. Capable of a series of automatic measurements, plus auto leveling (optional) and stylus retraction. Accurate positioning for repeated or multiple measurements possible.

2. **SV-2100S4/H4/W4** models are equipped with an emergency stop button.



Measurement setup screen

3. Base sizes and vertical travel range on column

Model No.	Vertical travel range	Vertical traverse method	Base size
SV-2100S4	350 mm	Power and manual	600×450 mm
SV-2100H4	550 mm		1000×450 mm
SV-2100W4			
SV-2100M4	350 mm	Manual only	600×450 mm

Dedicated data processor

Data processing unit

- Data saving (internal memory)
- High-speed printing
- Expansion slot for external memory (CF card)
- Display supports 16 languages
- Key panel

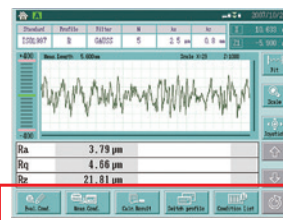


- High-visibility 7.5" color LCD
- Touch panel with color icon display
- Joystick

Customizable menu screen

The menu customization function allows display of frequently used menu icons

One-touch display of various screens



Home screen



Evaluation setup screen



Measurement setup screen



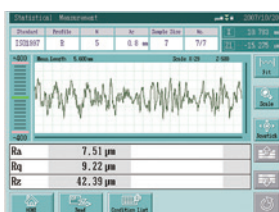
Calibration screen



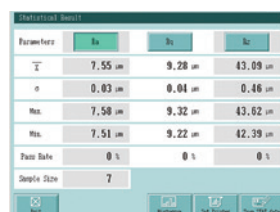
Contour analysis screen

Statistical processing

Statistical data processing possible (up to 300 data samples)
Statistical processing items: MAX., MIN., average, standard deviation, histogram, probability of acceptance.



Statistical data input

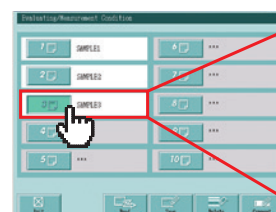


Statistical results

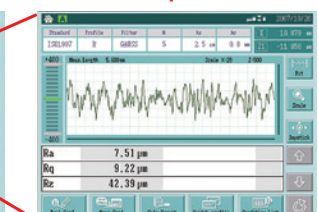
Saving and recalling measurement setups

Up to 10 measurement setups can be saved to and recalled from internal memory.

One-touch recall of stored setups



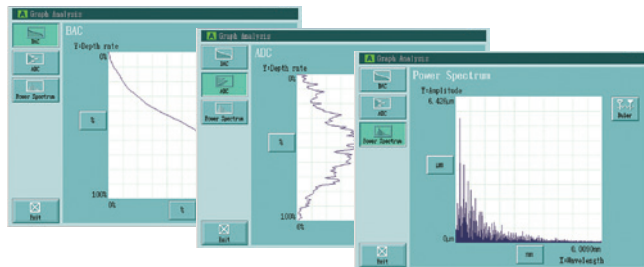
Click the desired measurement setup file



Measurement screen opens

Analysis to international standards

Evaluates surface roughness using up to 43 parameters complying with international standards such as ISO 1997 and JIS 2001. Bearing Area Curve (BAC), Amplitude Distribution Curve (ADC), and power spectrum (wavelength display) are readily available in graph form.



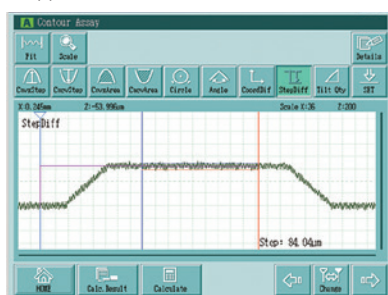
A large variety of optional accessories

Options supporting measurement including an auto leveling table, a 3-axis adjustment table, and a leveling table. Furthermore, these can be easily operated via a navigation function. (Supported accessories differ depending on the model.)



Fine-contour analysis

Various contour analyses (area, circle, angle, coordinate difference, step, inclination) are supplied as standard.



Select desired analysis icon and then specify the range.

Easy, icon-based input of setup conditions

Note: Patent registered in Japan, U.S.A., China, Germany, U.K., and France.

Setups are aided by icons representing ISO/JIS roughness standard parameters with appropriate values selected from recommended lists.

Typical surface roughness symbol on drawing

Grinding

$Ra\ 1.5$
 $\perp\ 0.0025-0.8/Rz8max\ 3.3$

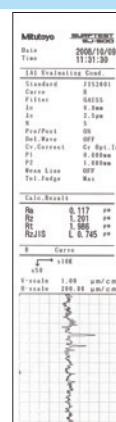
Typical result of icon-based setup

U"X"0.0025—0.8/Rz8max 3.3



Clicking a parameter icon displays the recommended cut-off value, etc.

Built-in thermal printer



Measurement data is printed by the high-definition, high-speed thermal printer. In addition to calculation results and evaluation results, BAC, ADC and other curves can also be printed.



Simplified communication program for SURFTEST SJ-500/SV-2100

The SurfTest **SJ-500/SV-2100** Series has a USB interface, enabling data to be transferred to a spreadsheet or other software. 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>

- OS: Windows XP-SP3
Windows Vista
Windows 7
Windows 8
Windows 10
Windows 11
- Spreadsheet software:
Microsoft Excel 2000, Microsoft Excel 2002
Microsoft Excel 2003, Microsoft Excel 2007
Microsoft Excel 2010, Microsoft Excel 2013
Microsoft Excel 2016, Microsoft Excel 2021

* Windows OS and Microsoft Excel are products of Microsoft Corporation.

The optional USB cable is also required.
USB cable for **SJ-500/SV-2100** Series **12AAH490**

PC data processing type

Surftest SJ-500P

A superior data processing tester with PC data analysis for higher efficiency.

Note 1: If a power column type with PC data-processing is required, consider the **FORMTRACER Avant S3000**

Note 2: Printer is optional.



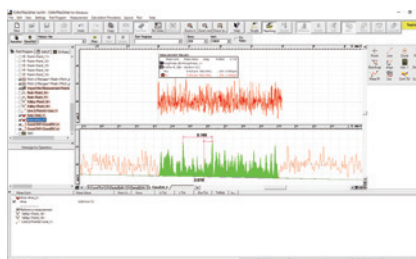
SJ-500P

FORMTRACEPAK: Best-seller for surface roughness and contour analysis

• Surface Roughness analysis function

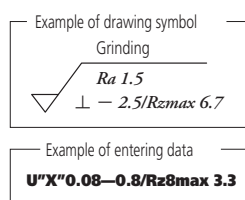
FORMTRACEPAK can perform surface roughness analyses that conform to various standards such as ISO, JIS, ANSI, and VDA. For comparing the measurement values with the tolerance limits, you can use the 16% rule or the maximum value rule.

Furthermore, since FORMTRACEPAK comes with parameter calculation functions as well as a rich set of graphic analysis functions, it can be widely utilized for everything from routine quality control to R&D applications. It also includes many other functions, such as the function for eliminating (compensating) shapes, such as slopes and R-surface, and a data deletion function.



• Simple input using drawing symbols

You can easily set up cumbersome measurement conditions by simply entering data according to the drawing symbols of the ISO/JIS roughness standard.

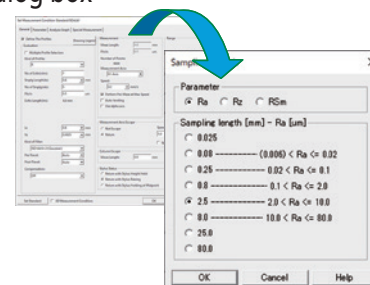


• Microscopic contour analysis function

This function can calculate steps and surface areas from the roughness data. Furthermore, as with the contour analysis function, a rich set of calculation commands that combine various elements, such as points, lines, and circles, to calculate angles, pitches, and distances are provided as standard features.

• Reference length dialog box

When setting up the reference length in a measurement condition, you can display the standard values defined by the ISO/JIS standards by selecting the applicable standard.



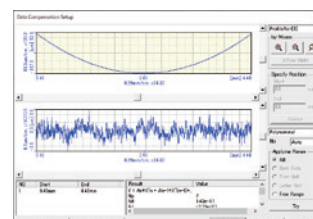
• Analysis condition modification with a preview function

You can easily modify various types of analysis conditions such as the standard to be used, curve type, and filter. Furthermore, before eliminating (compensating) shapes such as slopes, R-surfaces, and parabolas, the preview function allows you to check the impact on the spot.

Before compensation



After compensation



Specifications

Type of data processing		Dedicated data processor					PC system
Model No.		SJ-500	SV-2100M4	SV-2100S4	SV-2100H4	SV-2100W4	SJ-500P
Order No.*	with 0.75 mN detector inch/mm	178-533-11	178-637-11	178-681-01A	178-683-01A	178-685-01A	178-534-23
	with 4 mN detector inch/mm	—	—	—	—	—	—
Measuring range	X axis	50 mm (2 in)	100 mm (4 in)				50 mm (2 in)
	Z axis (detector)	800 μm, 80 μm, 8 μm (32000 μin, 3200 μin, 320 μin)					
Detector	Detection method	Differential inductance					
	Resolution	0.01 μm (800 μm range), 0.001 μm (80 μm range), 0.0001 μm (8 μm range) (0.4 μin <32000 μin range>, 0.04 μin <3200 μin range>, 0.004 μin <320 μin range>)					
	Stylus tip shape (Angle/Radius) Measuring force	60°/2 μm, 0.75 mN 90°/5 μm, 4 mN					
	Measuring speed	0.02 - 5 mm/s					
Drive unit (X axis)	Drive speed	0 - 20 mm/s or manual	0 - 40 mm/s or manual				0 - 20 mm/s or manual
	Straightness	0.2 μm/50 mm*1	0.15 μm/100 mm				0.2 μm/50 mm*1
	Resolution	0.05 μm (1.97 μin)					
Drive unit (Z axis)	Travel	—	350 mm (H4, W4: 550 mm)				—
	Drive speed	—*2	Manual	0 - 20 mm/s or manual			—*2
	Resolution	—		1 μm (39.4 μin)			—
Applicable standards		JIS1982/JIS1994/JIS2001/ISO1997/ANSI/VDA					
Parameter		Pa, Pq, Pz, Pp, Pv, Pt, Psk, Pku, Pc, PSm, PΔq, Pmr, Pmr(c), Pδc, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Rmax, Rz, Pmax, PzJIS Ra, Rq, Rz, Rp, Rv, Rt, Rsk, Rku, Rc, RSm, RΔq, Rmr, Rmr(c), Rδc, Ry, R3z, RPC, Pc, Sm, S, HSC, Rmax, RzJIS, Rppi, RΔa, Rλa, Rλq, Rlo, Rlr, tp, Htp, Vo Wa, Wq, Wz, Wp, Wv, Wt, Wsk, Wku, Wc, WSm, WΔq, Wmr, Wmr(c), Wδc, Wy, W3z, WPC, Wmax, WΔa, Wλa, Wλq, Wlo, Wlr R, Rx, AR, W, Wx, AW, Wte				Pa, Pq, Psk, Pku, Pp, Pv, Pz, Pt, Pc, PSm, PΔq, Pmr(c), Pmr, Pδc, Ppq, Pvg, Pmq, PPC, PzJIS, PPI, Ra, Rq, Rsk, Rku, Rp, Rv, Rz, Rt, Rc, RSm, RΔq, Rmr(c), Rmr, Rδc, Rpq, Rvg, Rmq, Rmax, RzJIS, Wa, Wq, Wsk, Wku, Wp, Wv, Wz, Wt, Wc, WSm, WΔq, Wmr(c), Wmr, Wδc, Wst, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Rx, AR, R, Wx, AW, W, Wte, Ry, RyDIN, RzDIN, R3y, R3z, S, HSC, Lo, Ir, Δa, λa, λq, Vo, Htp, NR, NCRX, CPM, SR, SAR, NW, SW, SAW	
Filtered profile		Primary profile, Roughness profile, Waviness profile, DF profile, Roughness motif profile, Waviness motif profile				Primary profile, Roughness profile, Waviness profile, Filtered waviness profile, Band waviness profile, Rolling circle waviness profile, Rolling circle center line waviness profile, envelope residual profile, DIN4776 profile, Roughness motif profile, Waviness motif profile	
Analysis graph		ADC, BAC, power spectrum graph				ADC, BAC Graph, power spectrum graph, auto-correlation graph, Walsh power spectrum graph, Walsh auto-correlation graph, local peak distribution graph, slope distribution graph, parameter distribution graph	
Data compensation functions		Inclination (Entire, Arbitrary), Circular compensation, Elliptical compensation, Parabolic compensation, Hyperbolic compensation, Conic compensation, Stylus circular-arc compensation				Inclination (Entire/start/end/Arbitrary), R-surface correction, Elliptical compensation, Parabolic compensation, Hyperbolic compensation, Conic compensation, Polynomial correction	
Filter		Gaussian, 2CR75, PC75, Robust-Spline				Gaussian, 2CR75, 2CR50, 2CRPC75, 2CRPC50, Robust-Spline, Robust-Gaussian	
Cutoff value		λs: 0.25/0.8/2.5/8/25/80/250 μm/None λc: 0.025/0.08/0.25/0.8/2.5/8/25/80 mm*3 λf: 0.08/0.25/0.8/2.5/8/25/80 mm/None				λs: 0.8/2.5/8/25/80/250/800 μm/Arbitrary λc: 0.025/0.08/0.25/0.8/2.5/8/25/80 mm/Arbitrary λf: 0.08/0.25/0.8/2.5/8/25/80/250 mm/Arbitrary	
Sampling length		0.025/0.08/0.25/0.8/2.5/8/25/80 mm*3				0.025/0.08/0.25/0.8/2.5/8/25 mm/Arbitrary	
Number of intervals		1 - 20				- 700 (max.)	
Arbitrary length		0.02 - 50 mm (0.01 mm interval)	0.02 - 100 mm (0.01 mm interval)			0.025 - 50 mm (0.001 mm interval)	
Display language		16 languages (Japanese, English, German, French, Italian, Spanish, Portuguese, Korean, Chinese (traditional/simplified), Czech, Polish, Hungarian,Turkish, Swedish, Dutch)				18 languages (Japanese, English, German, French, Italian, Spanish, Portuguese, Korean, Chinese (traditional/simplified), Czech, Polish, Hungarian,Turkish, Swedish, Dutch, Russian, Thai)	
External dimensions (WxDxH)	Main unit	425x94x160 mm	716x450x863 mm	S4: 766x450x966 mm H4: 766x450x1166 mm W4: 1166x450x1176 mm			425x94x160 mm
	Display unit	330x270x124 mm					—*4
	Electronic unit	—		372x245x71.8 mm			—
	PC I/F unit	—					350x263x86 mm
Mass	Main unit	2.7 kg	140 kg	S4: 140 kg H4: 150 kg W4: 220 kg			2.7 kg
	Display unit	4.0 kg					—*4
	Electronic unit	—		3.0 kg			—
	PC I/F unit	—					3.8 kg

*1 When using the simplified stand (optional): 0.4 µm/50 mm

When using the manual column stand (optional): 0.3 µm/50 mm

*2 The simplified stand or manual column stand is available as an optional accessory. (Refer to page 11 for details.)

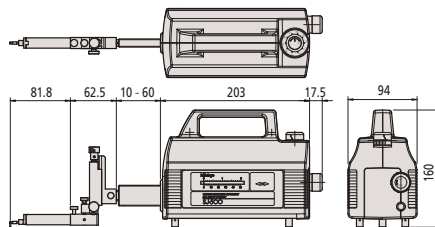
*3 80 mm only for the SV-2100 Series.

*4 Varies depending on the PC system.

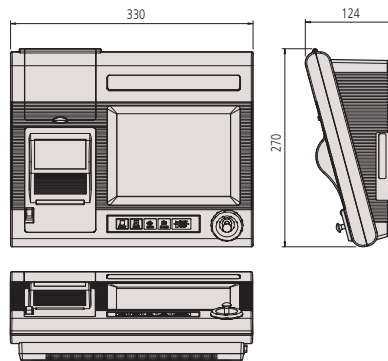
External Dimensions

Unit: mm
25.4 mm = 1"

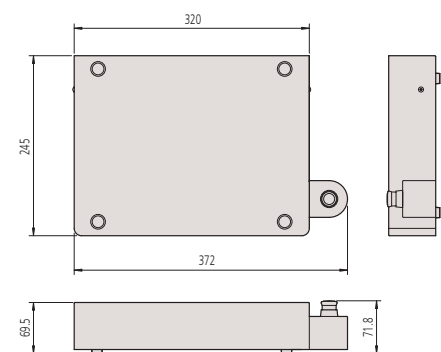
SJ-500



Dedicated data processor

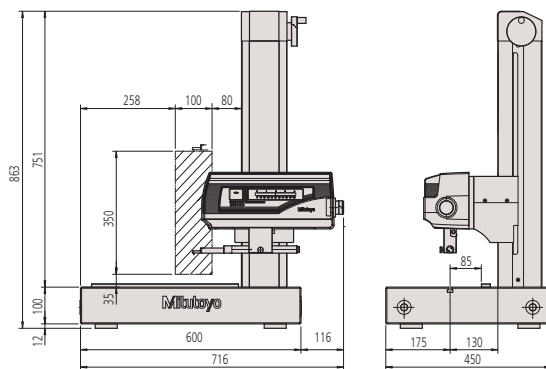


Electronic unit

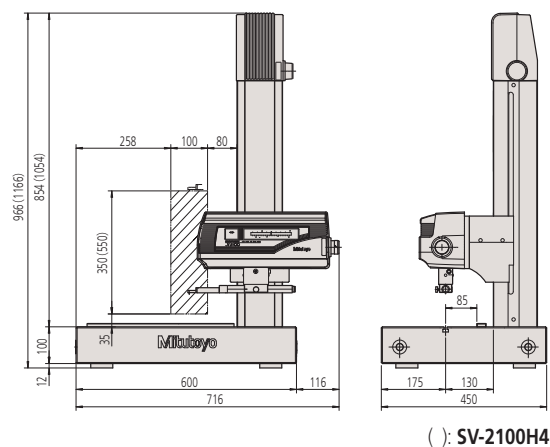


Only for SV-2100S4/H4/W4

SV-2100M4

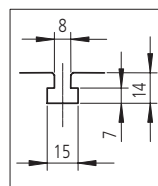
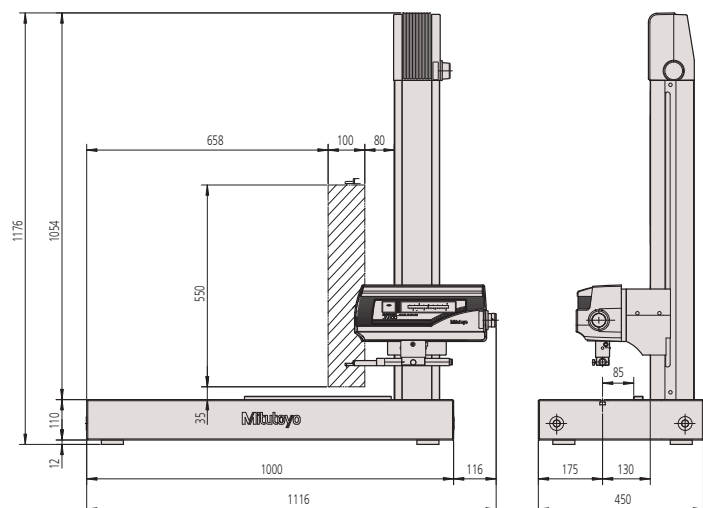


SV-2100S4 / SV-2100H4



() : SV-2100H4

SV-2100W4



T-groove dimensions
(common to SV-2100 Series)



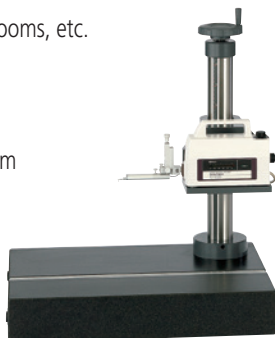
Measuring range

Optional Accessories

Manual column stand: 178-085 (for SJ-500)

Suitable for desktop use in inspection rooms, etc.

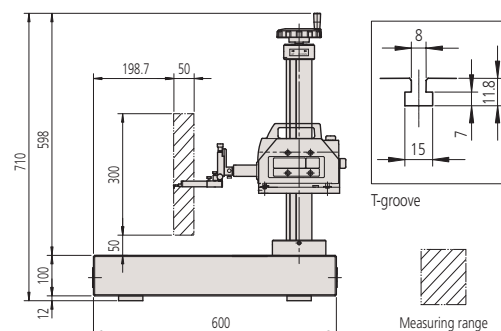
178-085 Except for measuring unit
Vertical adjustment range: 300 mm
Dimension (WxDxH): 600x450x710 mm
Mass: 110 kg



Note: While the appearance of the natural stone stand varies according to the source, the high stability for which this material is known can always be relied upon.

■ Dimensions of **SJ-500** with manual column stand

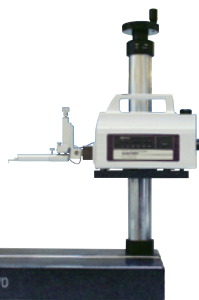
Unit: mm
25.4 mm = 1"



Simple column stand: 178-089 (for SJ-500)

A portable simple column stand.

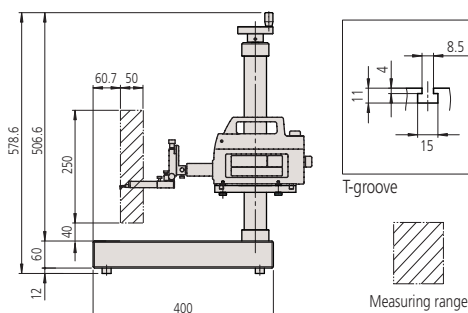
178-089 Except for measuring unit
Vertical adjustment range: 250 mm
Dimension (WxDxH): 400x250x578.6 mm
Mass: 20 kg



Note: While the appearance of the natural stone stand varies according to the source, the high stability for which this material is known can always be relied upon.

■ Dimension of **SJ-500** with simple column stand

Unit: mm
25.4 mm = 1"



DAT leveling table: 178-196

This table can be used by itself or in conjunction with other leveling tables.



Inclination adjustment angle	$\pm 1.5^\circ$
Maximum load	15 kg
Table dimensions	130x100 mm

XY leveling tables 178-183/178-185



178-183



178-185

Order No.	178-183 (mm) 178-184 (in) *with analog heads	178-185 (mm) 178-186 (in) *with digital heads
Table dimensions	130x100 mm	
Maximum load	15 kg	
Inclination adjustment angle	$\pm 1.5^\circ$	
Swiveling angle	$\pm 3^\circ$	
X/Y-axis travel range	± 12.5 mm	
Resolution	0.01 mm	0.001 mm
Dimensions (WxDxH)	220x189x83 mm	262x233x83 mm
Mass	6 kg	6.3 kg

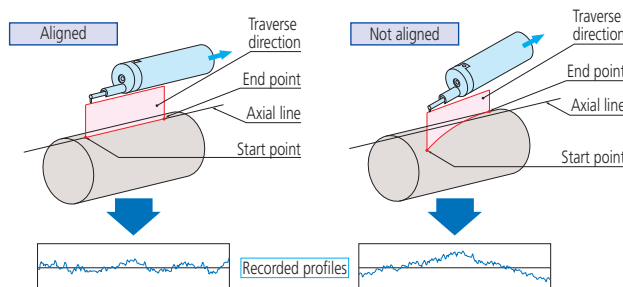
Optional Accessories

3-axis adjustment table: 178-182

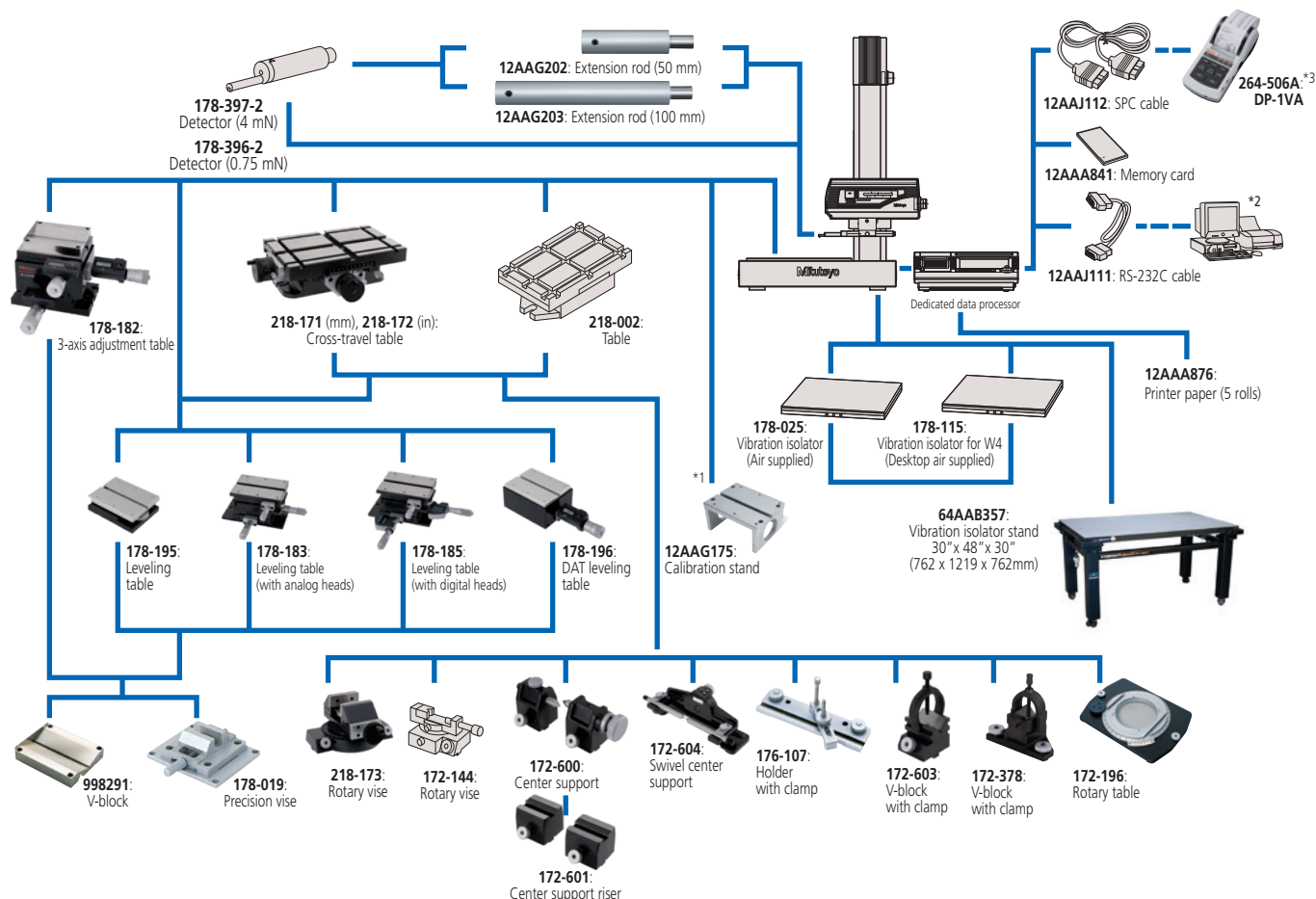
This table helps make the alignment adjustments required when measuring cylindrical surfaces. The corrections for the pitch angle and the swivel angle are determined from a preliminary measurement and the Digimatic micrometers are adjusted accordingly. A flat-surfaced workpiece can also be leveled with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



Inclination adjustment angle	$\pm 1.5^\circ$
Swiveling angle	$\pm 2^\circ$
Y-axis range	± 12.5 mm
Resolution of heads	0.001 mm
Table dimensions	130x100 mm
Maximum load	15 kg



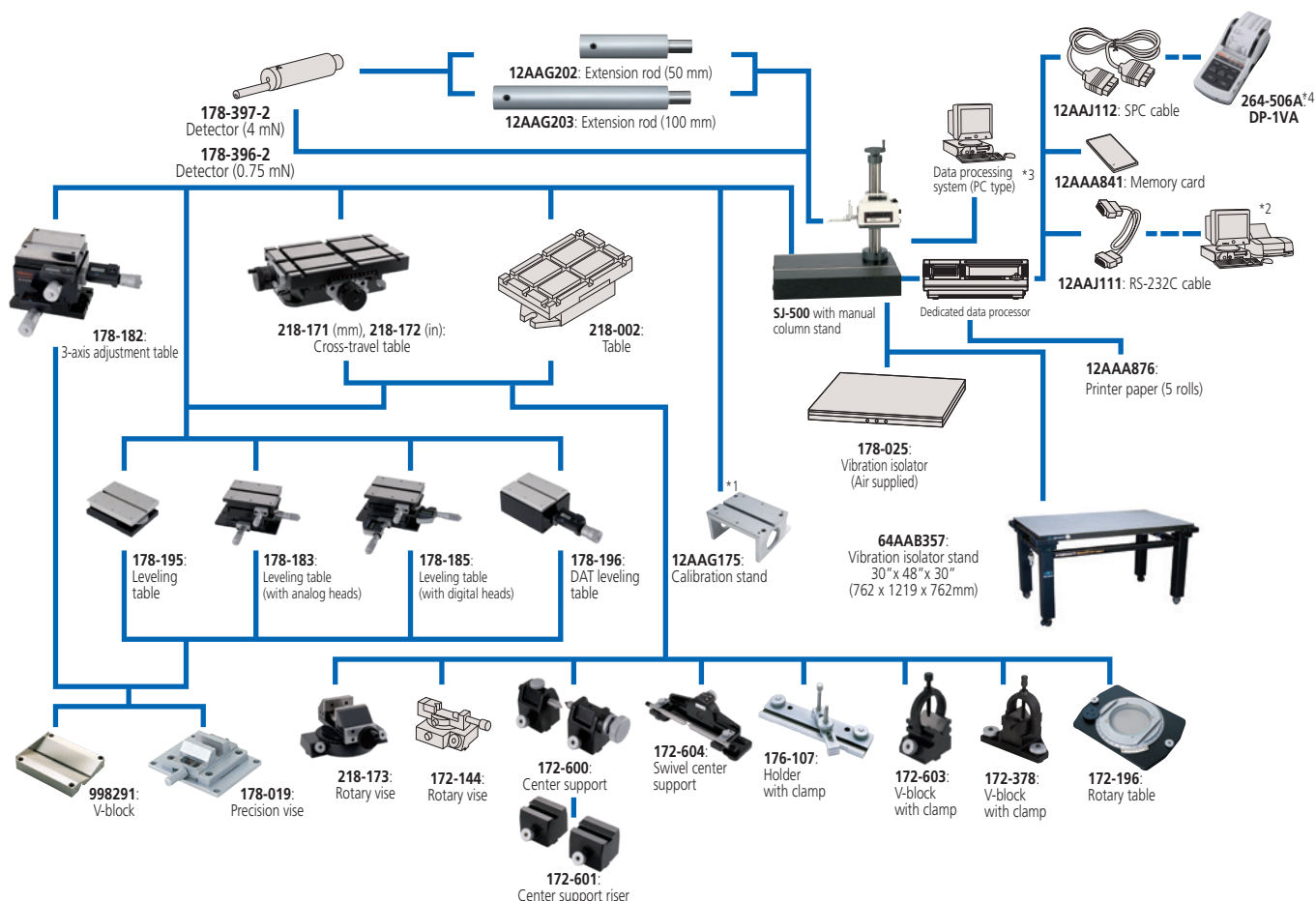
System configuration including optional accessories (for SV-2100M4/S4/H4/W4)



*1 70 mm stage to be mounted onto the base required for calibration of roughness specimen.
 Not required when using cross-travel table, plain stage, cross-travel stage, or 3-axis adjustment table.
 *2 PC for managing the analysis result externally output from the dedicated data processor.
 *3 Since print of unit does not support 'μm', use DP-1VA without print set of unit.

Optional Accessories

System configuration including optional accessories (for SJ-500 with optional manual column stand)



*1 70 mm stage to be mounted onto the base required for calibration of roughness specimen.

Not required when using cross-travel table, plain stage, cross-travel stage, or 3-axis adjustment table.

*2 PC for managing the analysis result externally output from the dedicated data processor.

*3 Only **SJ-500P** can be connected. Use a USB cable when connecting the **SJ-500P** main unit and a PC. A USB cable is a standard accessory of the **SJ-500P**.

*4 Since print of unit does not support 'µm', use **DP-1VA** without print set of unit.

Roughness specimen (standard accessory): 178-602 (inch / mm)

Display	Ra=about 3 µm
Material	Ni (Cr surface coating)



Roughness specimen: 178-607 (inch / mm)

Display	Ra=about 3 µm, about 0.4 µm
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Note: Ra=Approx. 0.4 µm should only be used for stylus tip checking.



Reference step specimen: 178-611 (mm), 178-612 (in)

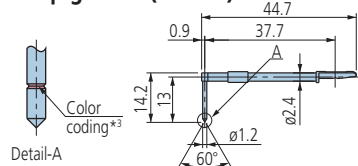
For sensitivity calibration of detector

Nominal value of step	2 µm (79 µin), 10 µm (394 µin)
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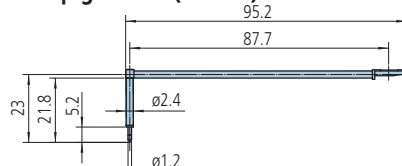
Styli

For deep groove (10 mm)



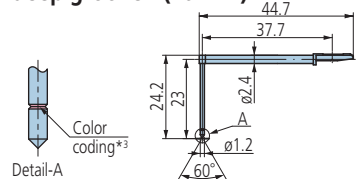
12AAC735 (2 μm)
12AAB409 (5 μm)*1
12AAB421 (10 μm)*1
(): Tip radius

For deep groove*2 (20 mm)



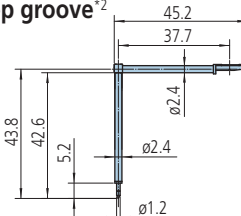
12AAE893 (2 μm)
12AAE909 (5 μm)*1
(): Tip radius

For deep groove*2 (20 mm)



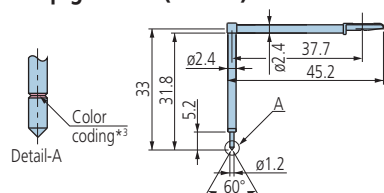
12AAC736 (2 μm)
12AAB408 (5 μm)*1
12AAB420 (10 μm)*1
(): Tip radius

For deep groove*2



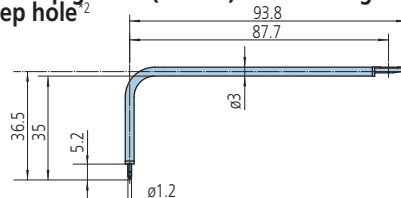
12AAE895 (2 μm)
12AAE911 (5 μm)*1
(): Tip radius

For deep groove*2 (30 mm)



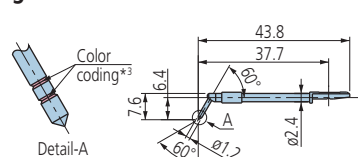
12AAC737 (2 μm)
12AAB407 (5 μm)*1
12AAB419 (10 μm)*1
(): Tip radius

For deep groove (30 mm)/Double-length for deep hole*2



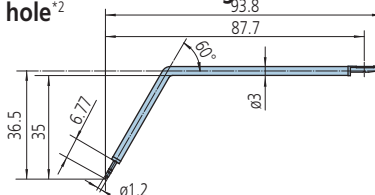
12AAE894 (2 μm)
12AAE910 (5 μm)*1
(): Tip radius

For gear tooth



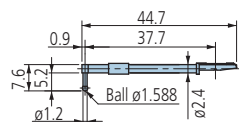
12AAB339 (2 μm)
12AAB410 (5 μm)
12AAB422 (10 μm)
(): Tip radius

For gear tooth/Double-length for deep hole*2



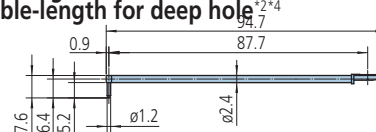
12AAE896 (2 μm)
12AAE912 (5 μm)
(): Tip radius

For rolling circle waviness surface*4



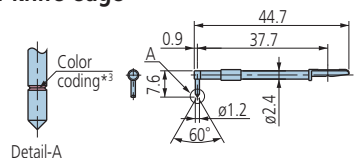
12AAB338 (φ1.588)

For rolling circle waviness/Double-length for deep hole*2*4



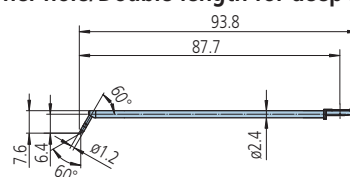
12AAE886 (250 μm)

For knife-edge



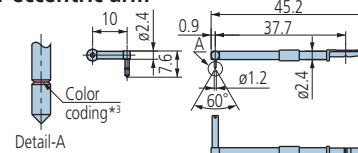
12AAC738 (2 μm)
12AAB411 (5 μm)*1
12AAB423 (10 μm)*1
(): Tip radius

For corner hole/Double-length for deep hole*2



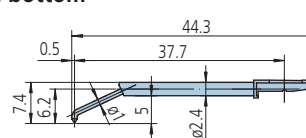
12AAM601 (2 μm)
12AAM603 (5 μm)
(): Tip radius

For eccentric arm*2



12AAC739 (2 μm)
12AAB412 (5 μm)*1
12AAB424 (10 μm)*1
(): Tip radius

For hole bottom



12AAE899 (2 μm)
12AAE915 (5 μm)*1
(): Tip radius

*1 Tip angle 90°

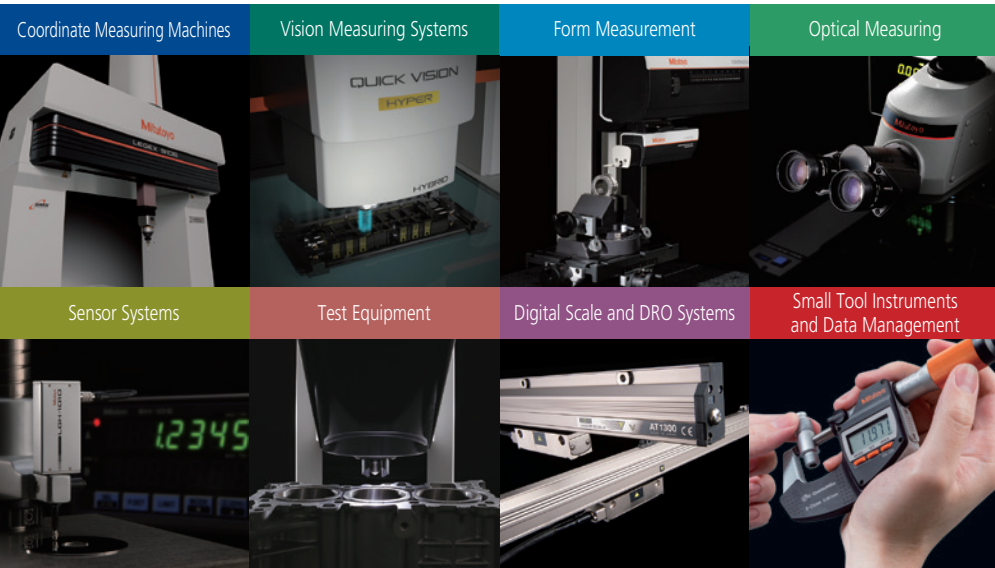
*2 For downward-facing measurement only.

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

*3

Tip radius	2 μm	5 μm	10 μm
Color coding	Black	No color	Yellow

*4 Used for calibration, a "Reference step specimen" (178-611 or 178-612, optional) is also required



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