English

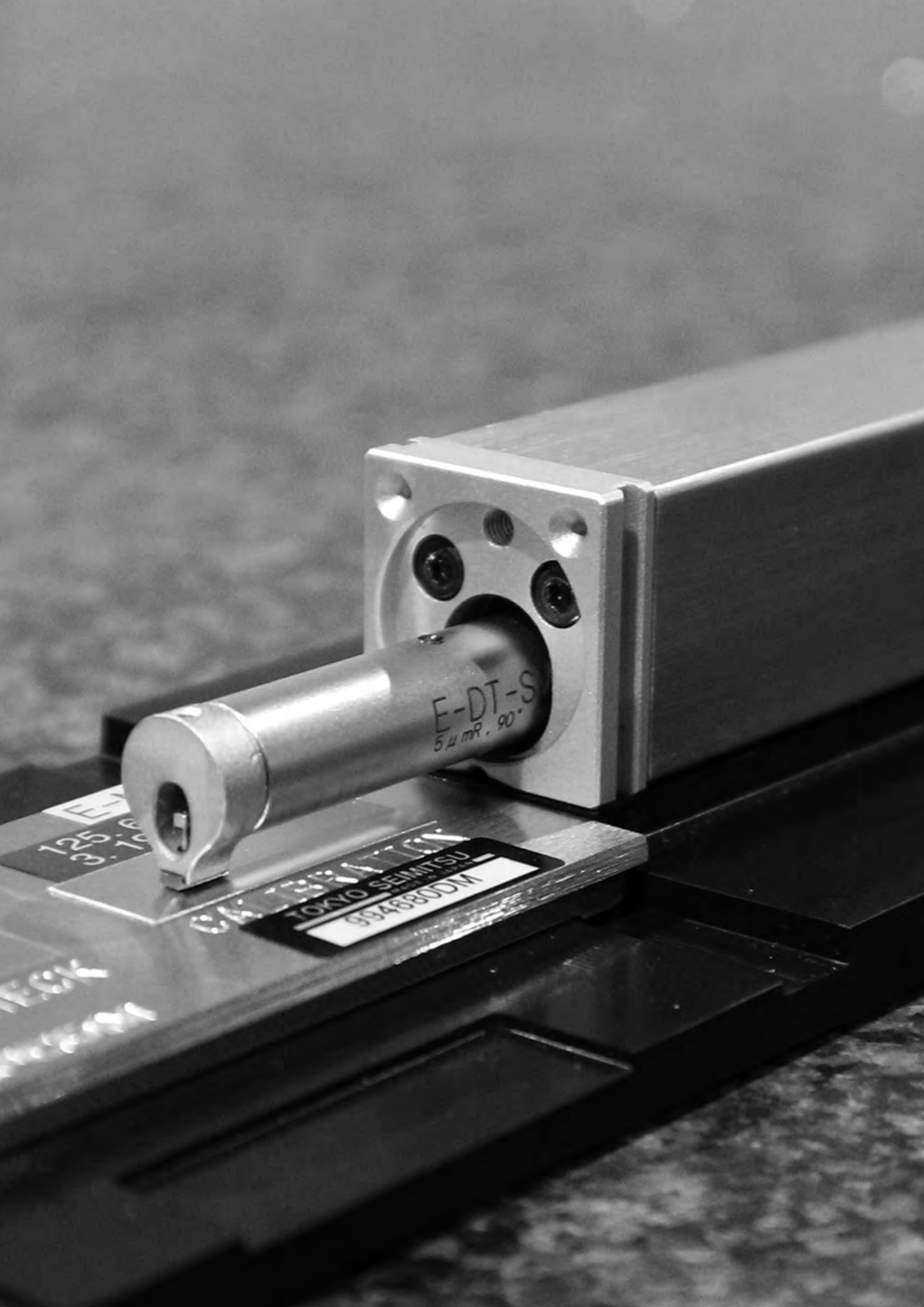
Intuitively Operated Surface Texture
Measuring Instrument

SURFCOM TOUCH Series

ACCRETECH | EUROPE

Excellent Op
Sophisticated

erability and User Interface


E-DT-S
5μmR, 90°
TOKYO SEIMITSU
994880DM

SURFCOM TOUCH 35/40/45

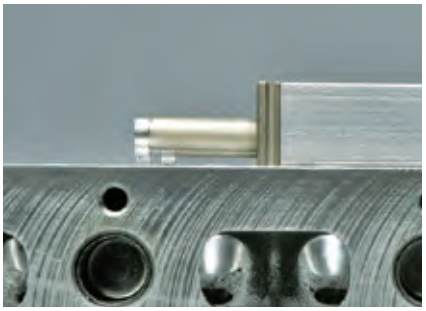
Portable-type entry model in the SURFCOM TOUCH series useful in any measurement situation

**Small and light tracing drivers selectable for application.
In addition to horizontal surface, measurement on vertical surface with the driver and in narrow areas with transverse trace can be performed.
Skid-measurement-type for measurement with different attitudes.**

Palm-sized(Handy sized) tracing drivers selectable for workpieces and measurement areas

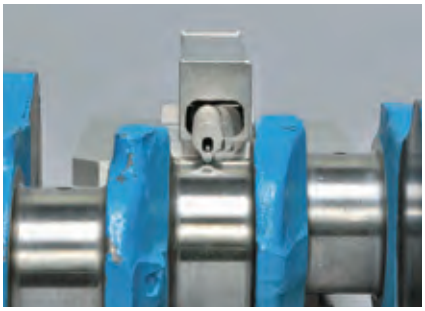
35 (Standard type)

The standard-type with different attitudes to measure horizontal, inclined, vertical and ceiling surfaces.



40 (Retraction type)

Retract-type that reduces damage to the stylus and pick-up by raising the pick-up while waiting for measurement or at ending. It can be used as a detector incorporated into an automatic machine.



45 (Horizontal tracing type)

The transverse trace-type where the pick-up moves sideways. Narrow areas, such as crankshaft pins and journals, that were difficult to measure before can now be measured.

A calibration table provided as standard accessory makes calibration work easy

A roughness specimen for surface texture and a driver selected above are set to the standard calibration table.
Calibration can be conducted easily without need of height and inclination adjustment of the driver as before.

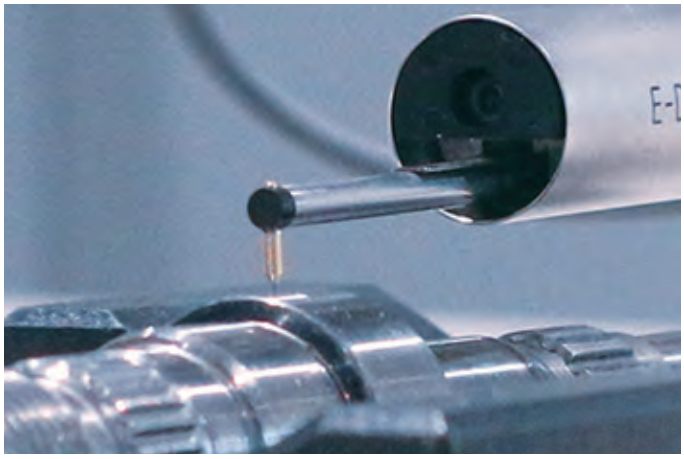
Optional pick-ups allow for various types of measurement

The pick-up, that comes in contact with the workpiece is replaceable.
Various types of workpieces can be measured by using optional pick-ups such as those for small or extremely small holes, deep grooves, etc.

SURFCOM TOUCH 50

High-level compact-type model in the SURFCOM TOUCH series with high resolution and straightness

The skidless measurement-type with a high performing pick-up having high resolution and wide range. Various types of workpieces can be measured by changing the stylus for deep, long, or small holes or round surface.



Extended Z-axis measurement range from 800 to 1,000 µm (25% increase)

The high performing pick-up with a measurement range of 1,000 µm and a Z-axis minimum resolution of 0,0001 µm allows for wide-range and high resolution skidless measurement. No need to consider measurement range. In addition to flat surfaces, the roughness or waviness on undulating surfaces such as stepped or round surfaces can be evaluated with one trace. Levelling and zeroing before measurement can also be performed easily.

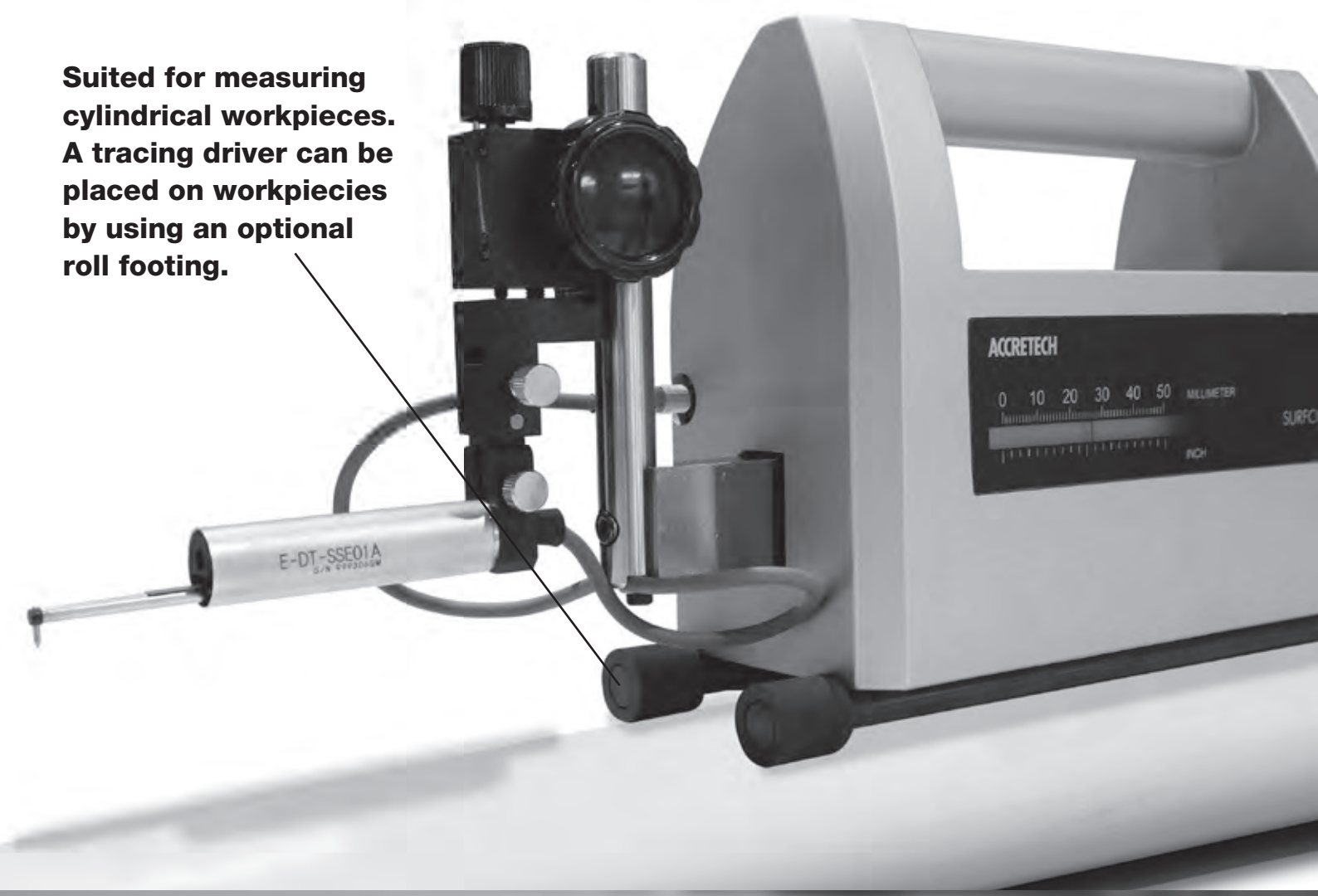
A compact high performing tracing driver

The portable compact size tracing driver for easy instalment has an X-axis measurement range of 50 mm, a straightness accuracy of 0.3 µm/50 mm, and a detector vertical movement volume of 50 mm.
Safe positioning at a constant speed is possible by operating the tracing driver in the X direction from the screen of the amplifier.

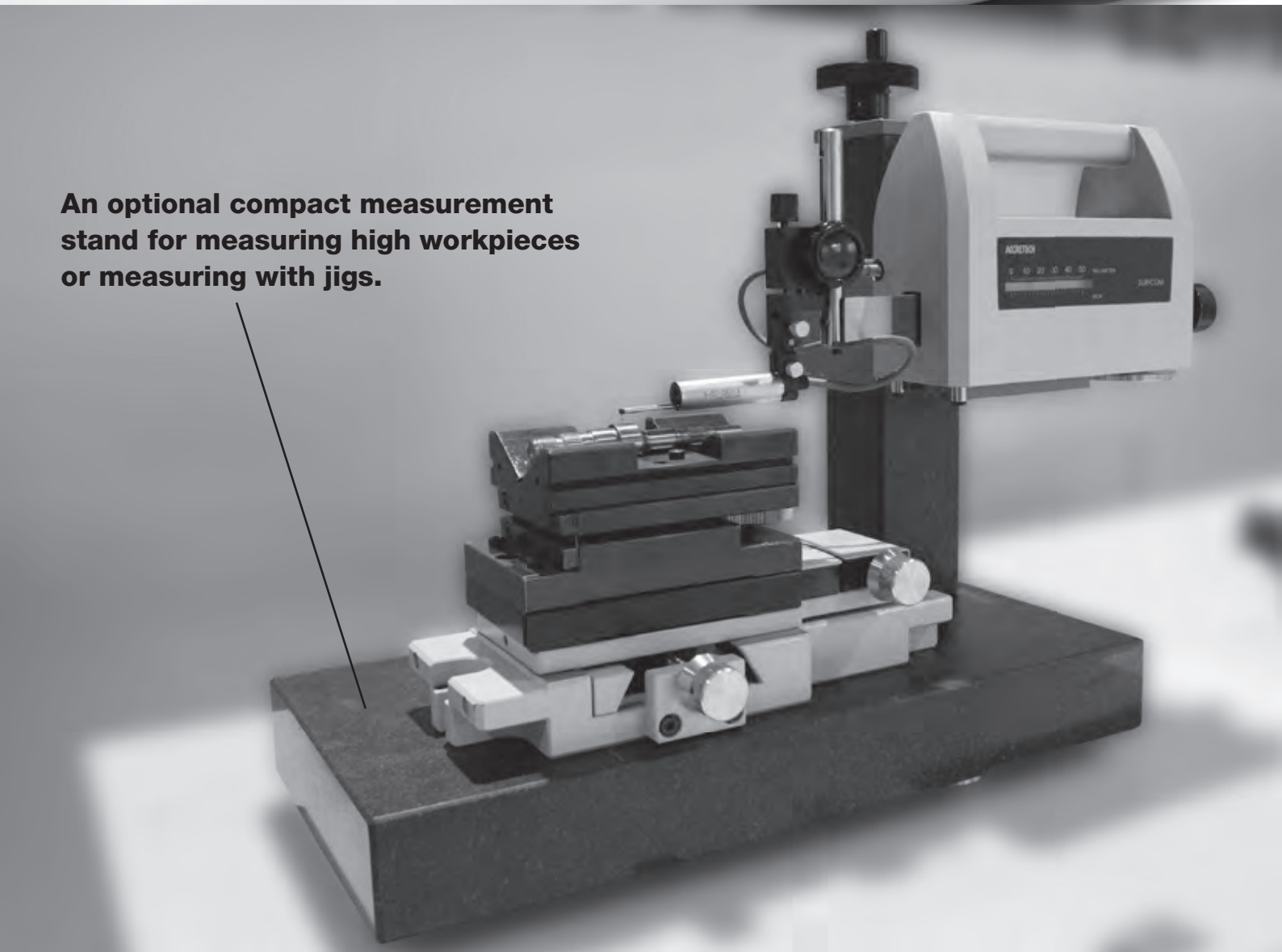
A handy-type driver can be attached

SURFCOM TOUCH 50 can be connected with a handy-type tracing driver*.
Measurement on vertical or ceiling surface and in narrow areas can be performed.

*Tracing driver attached to SURFCOM TOUCH 35/40/45, HANDYSURF E-35B/40A/45A, and SURFCOM FLEX-35B/40A/45A.
An optional dedicated cable is required for connection.



Suited for measuring cylindrical workpieces. A tracing driver can be placed on workpiecies by using an optional roll footing.



An optional compact measurement stand for measuring high workpieces or measuring with jigs.

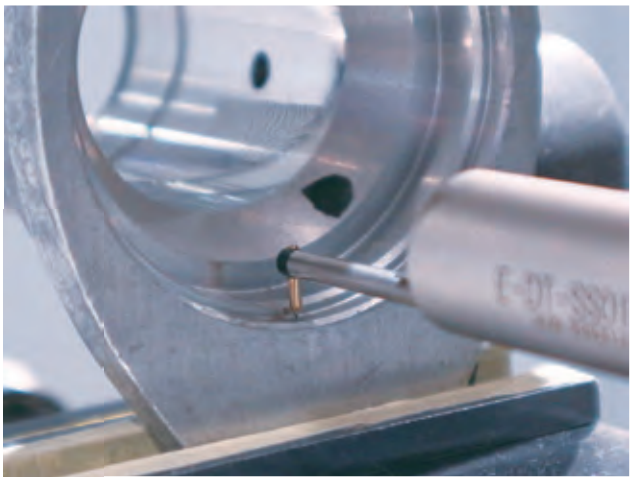

ACCRETECH
SURFCOM TOUCH 550


Cancel
Control
Reset Z value
Back
Pickup Type
Standard
Meas. range
±500µm
+C
+X
-X
-C
X: -16.79 mm
0 set
Z: --------µm
0 set
C: -2.07 mm
0 set
MEAS
STOP

SURFCOM TOUCH 550

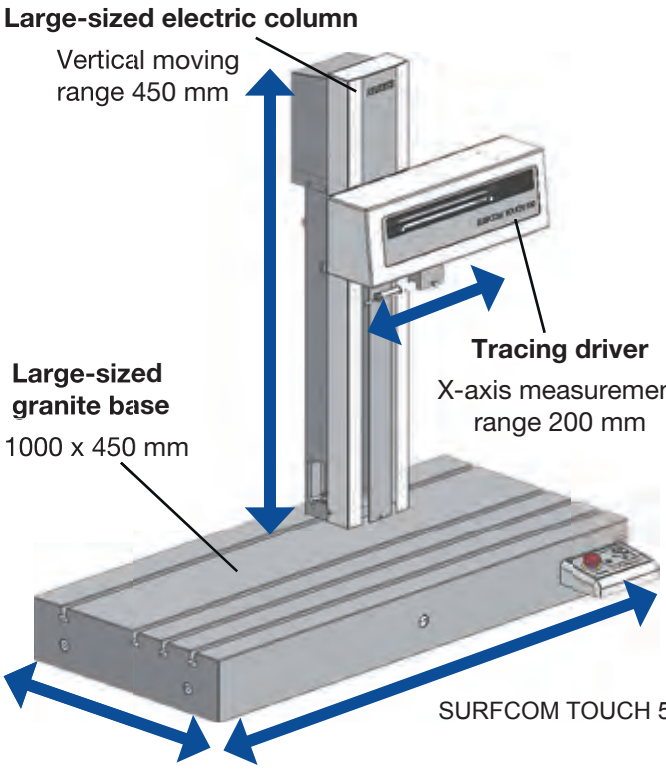
High-end model in the SURFOM TOUCH series with an electric column offering high accuracy and size variation

Equipped with a high performing pick-up having high resolution and wide range. It offers high flexibility where granite base size, column height, and X-axis drive range can be selected depending on needs.



Extended Z-axis measurement range from 800 to 1,000 µm (25% increase)

The high performing pick-up with a measurement range of 1,000 µm and a z-axis minimum resolution of 0,0001 µm allows for wide-range and high resolution skidless measurement. No need to consider measurement range. In addition to flat surfaces, the roughness or waviness on undulating surfaces such as stepped or round surfaces can be evaluated with one trace. Levelling and zeroing before measurement can also be performed easily.



SURFCOM TOUCH 550-24 example

Size variations for various types of workpieces

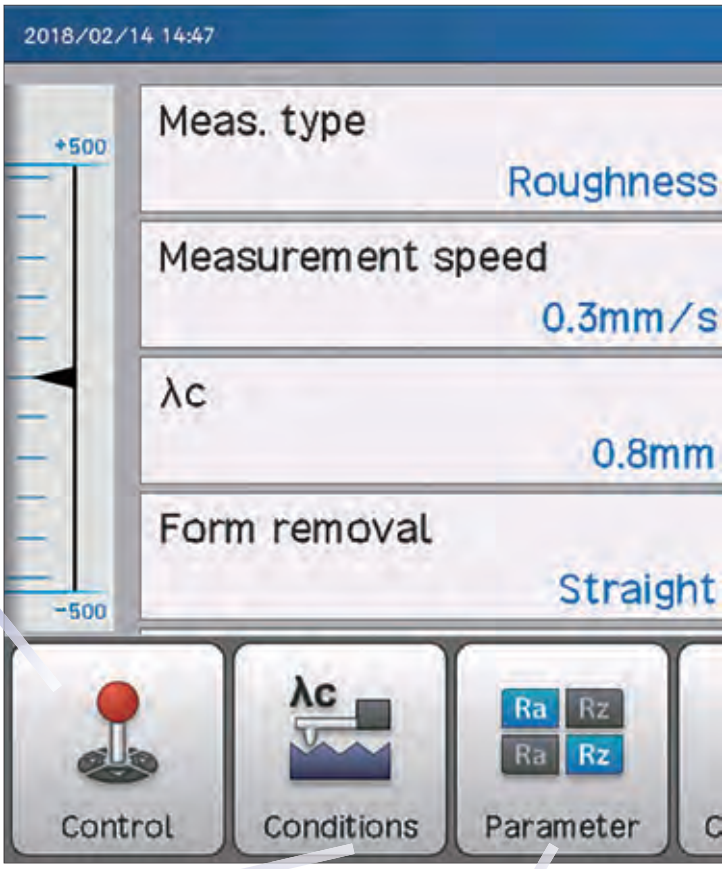
SURFCOM TOUCH 550 allows users to select a combination of the size of the granite base, the height and type of the column and the drive range in the X axis direction.
(refer to p.15)
This meets diverse customer needs such as "we want to reduce the installation space","we want to reduce initial costs","we want to measure high workpieces" and "we want to measure large flat workpieces".

SURFCOM TOUCH Common Functions

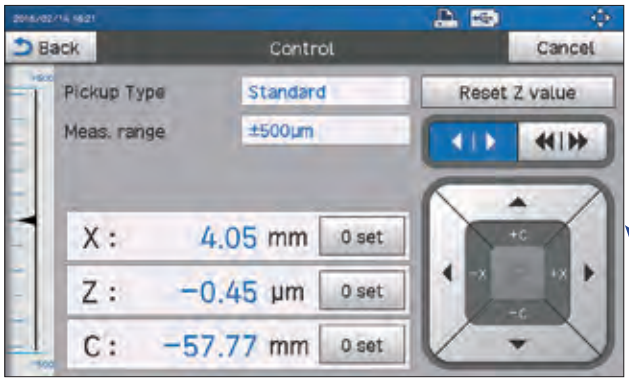
Intuitive and easy-to-use screen for condition setting, calibration, measurement and analysis

An amplifier with a 7-inch wide touch panel and easy-to-use new interface provides higher operability.
Easy-to-use operation eliminates the need of instructions.

Main Screen



Control screen of the driver



- It shows the level meter (Z) (contact level of the stylus with the workpiece), and horizontal (X) and vertical (C) positions of the tracing driver. (Z is shown on all models, X on TOUCH 50/550, C on TOUCH 550)
- The pick-up can be moved horizontally and the tracing driver can be moved vertically from the screen. (TOUCH 50 can move the pick-up, and TOUCH 550 can move the pick-up and tracing driver)
  Two moving speeds are available for selection.

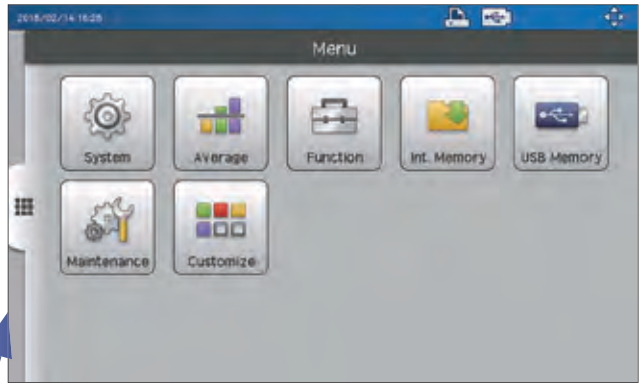
Setting Condition Screen

- Measurement/analysis conditions can be set.

Parameter Selection Screen

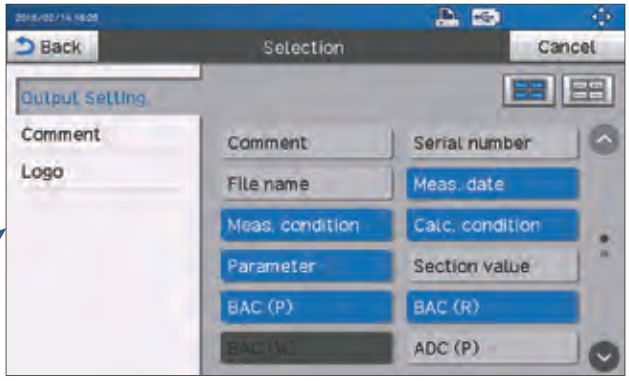
- Parameters to be evaluated in measurement can be selected.

Menu Screen



• Settings can be performed such as language, icon layout, management of internal/USB memories.

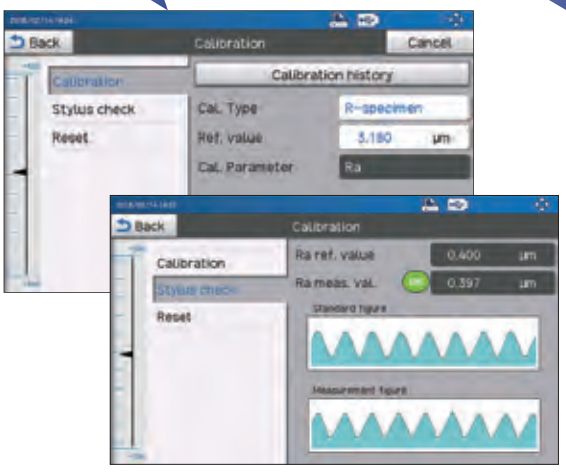
Output Item Screen



• Output items can be set for printing with the small printer attached to SURFCOM TOUCH*.

*Some TOUCH 35, 40, 45 and 50 types have no printer.

Calibration Screen



• Calibration can be performed before measurement.
• Any wear or chip of the stylus tip can be checked with the waveform and values.

Measurement Result Screen

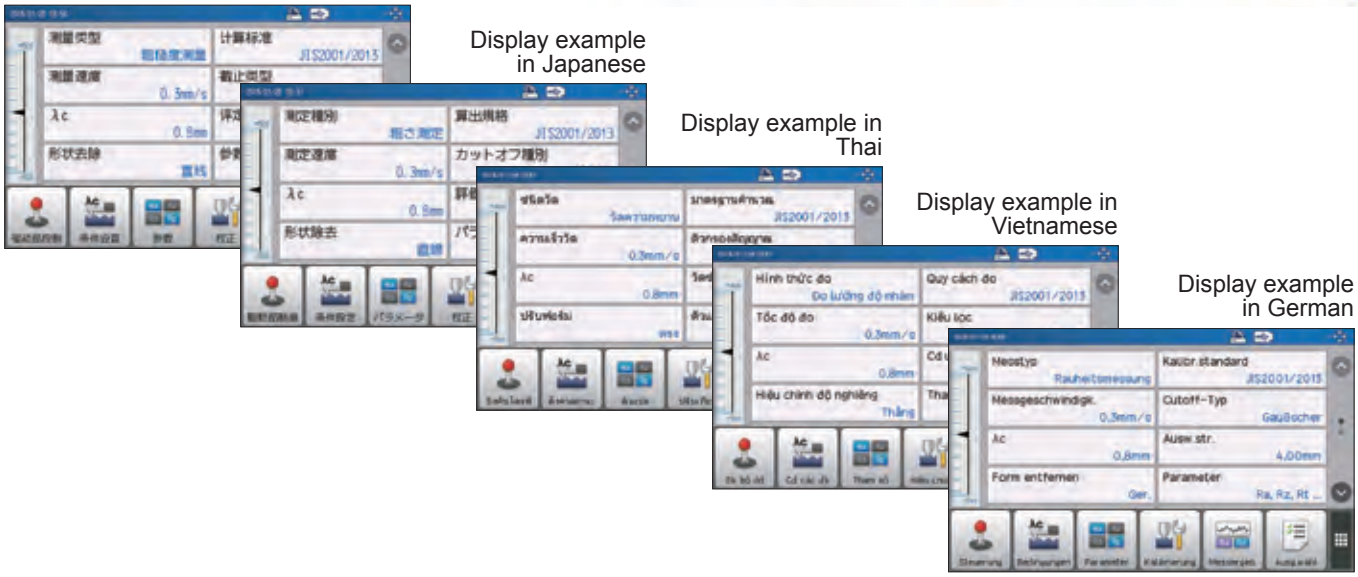
• Measurement results are shown in waveform and selected parameters. Horizontal and vertical display magnification for waves can be changed intuitively with zoom-in or zoom-out by fingers. No need to specify magnification in number (although it is also possible).
• OK/NG is easily identified by setting acceptance/rejection criteria in advance.

SURFCOM TOUCH Common Functions

Multi-language support available worldwide

20 Asian and European languages including Japanese, English and German are provided as standard.
Language can be changed easily with one touch.

Display example in (simplified) Chinese



Display example in Japanese

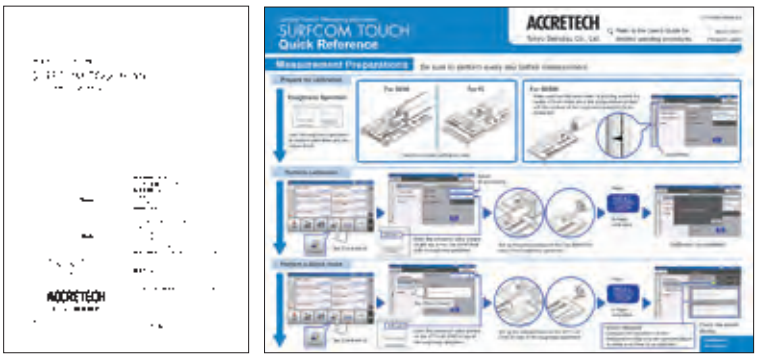
Display example in Thai

Display example in Vietnamese

Display example in German

Easy-to-follow user's guide/quick reference guide

The user's guide is easy to understand like that for home appliances.
A quick reference guide showing basic operation procedures is also available so that users do not need to create written procedures.

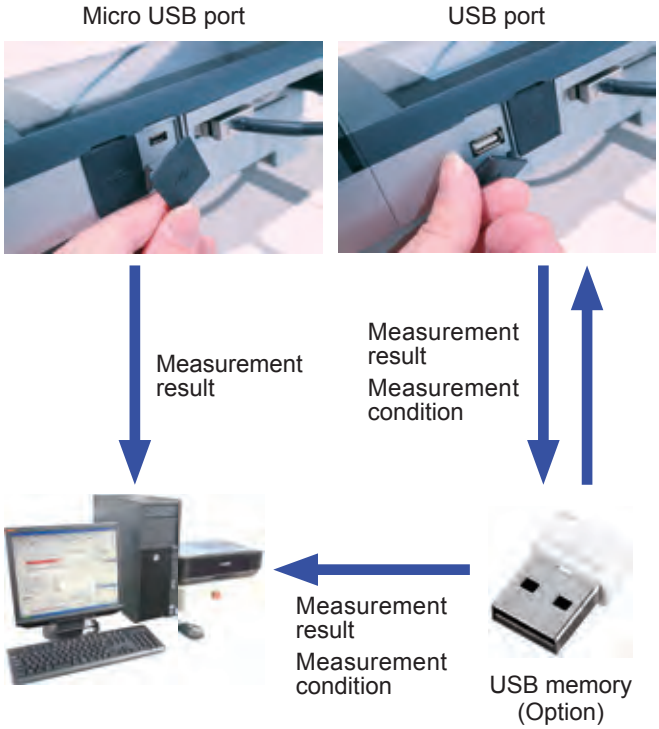


User's guide (left) and quick reference guide (right)

USB/micro USB ports as standard equipment

15 measurement conditions and 20 measurement results can be stored in the SURFCOM TOUCH amplifier.
More conditions and results can be stored by connecting a USB memory to the standard USB port.

The amplifier is also equipped with a micro USB port.
Measurement data can be transferred to the computer when connected with a USB cable, and a simple inspection report can be created using attached SupportWare II.



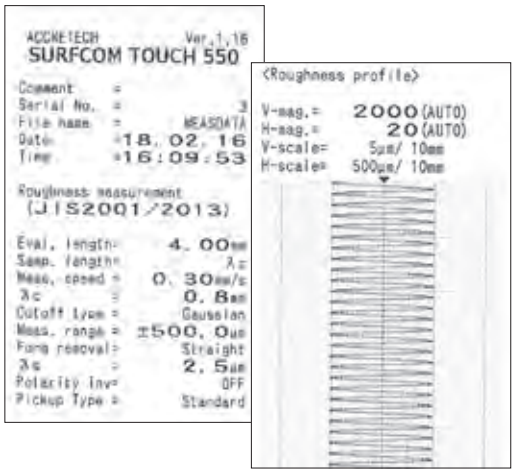
SupportWare II

Measurement results can be printed quickly

The dedicated printer allows for quick printing of measurement results.
Of course, any measurement data saved in the amplifier or USB memory can be output.

- TOUCH 550 has a built-in printer.
- TOUCH 35 to 50 have two models: with/without printer
  Models without printer can be connected with an external printer unit.

Measurement results output example



TOUCH 550

With a built-in printer

TOUCH 35 to 50

Printer-equipped model

Model without printer

Model without printer and a printer unit (optional)

SURFCOM TOUCH 35/40/45 Specifications

Model			SURFCOM TOUCH				
			35		40		45
			Tip radius 5 µm	Tip radius 2 µm	Tip radius 5 µm	Tip radius 2 µm	Tip radius 5 µm
Measurement range	Z direction		-210 to +160 µm				
	Drive axis		X direction 16 mm				Y direction 4 mm
Tracing driver	Movement type		Standard type		Retraction type		Horizontal tracing type
	Evaluation length		0.2 to 16 mm				0.2 mm to 4.0 mm
	Measurement speed		0.5, 0.6, 0.75, 1.0 mm/s				0.6 mm/s
Pick-up	Sensing type		Differential inductance				
	Measurement method		Skid				
	Z direction resolution		0.0007 µm/-210 to 160 µm				
	Model		E-DT-SM10A	E-DT-SM49A	E-DT-SM10A	E-DT-SM49A	E-DT-SM39A
	Stylus	Measurement force	4 mN	0.75 mN	4 mN	0.75 mN	4 mN
		Tip radius	r_{tip} = 5 µm	r_{tip} = 2 µm	r_{tip} = 5 µm	r_{tip} = 2 µm	r_{tip} = 5 µm
		Tip angle	90°cone	60°cone	90°cone	60°cone	90°cone
		Tip material	Diamond				
Analysis item	Calculation standards		Comply with JIS2013/2001, JIS1994, JIS1982, ISO1997/2009, ISO13565, DIN1990, ASME2002/2009, ASME1995, CNOMO				
	Parameter	Profile curve	Pa, Pq, Pp, Pv, Pc, PSm, PΔq, PPc, Psk, Pku, Pt, Pmr(c), Pmr, Pδc, Rz82, TILTA, AVH, Hmax, Hmin, AREA, Rmax, Rz, Sm, Δa, Δq, λa, λq, Lr, Rsk, Rku, Rk, Rpk, Rvk, Mr1, Mr2, Vo, K, tp, tp2, Hp				
		Roughness curve	Ra, Rq, Rz, Rv, Rc, Rt, RSm, RΔq, Rsk, Rku, Rmr(c), Rmr, Rδc, Rz94, R3z, RΔa, Rλa, Rλq, Ry, Lr, Sm, S, tp, tp2, PC, RPc JIS, RPc ISO, RPc EN, Pc, PPI, Rp, Rmax, Rz.I, RS, Rmr2, Mr1, Mr2, Rpk, Rvk, Rk, Vo, K, A1, A2, Rpm, Δa, Δq, Htp				
		Motif	R, Rx, AR, W, Wx, AW, Rke, Rpke, Rvke, NCRX, NR, CPM, SR, SAR, Wte, NW, SAW, SW, Mr1e, Mr2e, Vo, K				
	Evaluation curve		Profile curve, roughness curve, ISO13565 special roughness curve, roughness motif curve, waviness motif curve, upper envelope waviness curve				
	Characteristics graph		Abbot curve, amplitude density function, power graph				
Filter	Filter type		Gaussian, 2RC (phase compensation), 2RC (non-phase compensation)				
	Cut-off value	λc	0.08, 0.25, 0.8, 2.5 mm				
		λs	None, 2.5, 8, 25 µm				
Amplifier	Display		7-inch colour liquid crystal touch panel				
	Data output		USB connectors for USB memory : x 2 (model without printer), x 1 (model with printer), Micro USB connector for USB communication x 1				
	Print output		Standard function for models with printer and optional for models without printer (external printer unit)/Thermal recording paper width: 58 mm (recording width: 48 mm)				
	Language		Japanese, English, Chinese (Traditional Chinese/Simplified Chinese), Korean, Thai, Malay, Vietnamese, Indonesian, German, French, Italian, Czech, Polish, Hungarian, Turkish, Swedish, Dutch, Spanish, Portuguese				
Specifications	Power supply	Charging	Built-in battery (to be charged using AC adaptor), charging period: 3 hours (about 600 measurements can be take when fully charged)				
		Power supply	AC100 to 240 V ±10%, 50/60 Hz, single phase				
		Power consumption	Maximum 80VA				
	External dimensions (W x D x H)/Weight	Printer-equipped model	Amplifier: 320 x 167 x 44 mm/about 2 kg for the entire system				
		Models without printer	Amplifier: 252 x 167 x 44 mm/about 1.6 kg for the entire system				
Standard accessories			Roughness specimen (E-MC-S24C), calibration table (E-WJ-S1045A), touch pen (E-MA-S112A), printing paper (E-CH-S25A)*1, instruction manuals, SupportWare II nose-piece (V-type) (E-WJ-S536A)*2				

*1 For models with printer only
*2 For SURFCOM TOUCH 45 only

SURFCOM TOUCH 50 Specifications

Model			SURFCOM TOUCH
			50
Measurement range	Z direction		±500 µm
	X direction		50 mm
Tracing driver	Evaluation length		0.1 to 50 mm
	Straightness accuracy		0.3 µm/50 mm
	Detector vertical movement volume		50 mm
	Measurement Speed		0.15, 0.3, 0.6, 1.5, 3 / 0.05, 0.1, 0.2, 0.5, 1 mm/s (switching)
Pick-up	Sensing type		Differential inductance
	Measurement method		Skidless/Skid (optional)
	Z direction resolution		0.0001 µm/±40 µm, 0.00125 µm/±500 µm
	Stylus (standard accessory)	Model	DM43801
		Measurement force	0.75 mN
		Radius	r_{tip} = 2 µm
		Angle	60°cone
		Material	Diamond
Analysis item	Calculation standards		Comply with JIS2013/2001, JIS1994, JIS1982, ISO1997/2009, ISO13565, DIN1990, ASME2002/2009, ASME1995, CNOMO
	Parameter	Profile curve	Pa, Pq, Pp, Pv, Pc, PSm, PΔq, PPc, Psk, Pku, Pt, Pmr(c), Pmr, Pδc, Rz82, TILTA, AVH, Hmax, Hmin, AREA, Rmax, Rz, Sm, Δa, Δq, λa, λq, Lr, Rsk, Rku, Rk, Rpk, Rvk, Mr1, Mr2, Vo, K, tp, tp2, Hp
		Roughness curve	Ra, Rq, Rz, Rv, Rc, Rt, RSm, RΔq, Rsk, Rku, Rmr(c), Rmr, Rδc, Rz94, R3z, RΔa, Rλa, Rλq, Ry, Lr, Sm, S, tp, tp2, PC, RPc JIS, RPc ISO, RPc EN, Pc, PPI, Rp, Rmax, Rz.I, RS, Rmr2, Mr1, Mr2, Rpk, Rvk, Rk, Vo, K, A1, A2, Rpm, Δa, Δq, Htp
		Waviness profile curve	Wa, Wq, Wt, Wp, Wv, WSm, WPc, Wsk, Wmr(c), Wmr, Wδc, Wz, Wc, Wku, WΔq, WEM, WEA, WE-a, WE-q, WE-p, WE-v, WE-Sm, WEC-q, WEC-m, WEC-p, WEC-v, WEC-Sm
		Motif	R, Rx, AR, W, Wx, AW, Rke, Rpke, Rvke, NCRX, NR, CPM, SR, SAR, Wte, NW, SAW, SW, Mr1e, Mr2e, Vo, K
	Evaluation curve		Profile curve, roughness curve, filtered waviness curve, waviness profile curve, ISO13565 special roughness curve, roughness motif curve, waviness motif curve, upper envelope waviness curve, rolling circle waviness curve
	Characteristics graph		Abbot curve, amplitude density function, power graph
Filter	Filter type		Gaussian, 2RC (phase compensation), 2RC (non-phase compensation)
	Cut-off value	λc	0.08, 0.25, 0.8, 2.5, 8, 25 mm
		λs	None, 2.5, 8, 25 µm
Amplifier	Display		7-inch colour liquid crystal touch panel
	Data output		USB connectors for USB memory : x 2 (model without printer), x 1 (model with printer), Micro USB connector for USB communication x 1
	Print output		Standard function for models with printer and optional for models without printer (external printer unit)/Thermal recording paper width: 58 mm (recording width: 48 mm)
	Language		Japanese, English, Chinese (Traditional Chinese/Simplified Chinese), Korean, Thai, Malay, Vietnamese, Indonesian, German, French, Italian, Czech, Polish, Hungarian, Turkish, Swedish, Dutch, Spanish, Portuguese
Specifications	Power supply	Charging	Built-in battery (to be charged using AC adaptor), charging period: 3 hours (about 600 measurements can be take when fully charged)
		Power supply	AC100 to 240 V ±10%, 50/60 Hz, single phase
		Power consumption	Maximum 80 VA
	External dimensions (W x D x H)/Weight	Printer-equipped model	Amplifier : 320 x 167 x 44 mm/about 4.2 kg for the entire system
		Models without printer	Amplifier : 252 x 167 x 44 mm/about 3.8 kg for the entire system
Standard accessories			Roughness specimen (E-MC-S24C), touch pen (E-MA-S112A), printing paper (E-CH-S25A)*1, instruction manuals, SupportWare II

*1 For models with printer only

SURFCOM TOUCH 550 Specifications

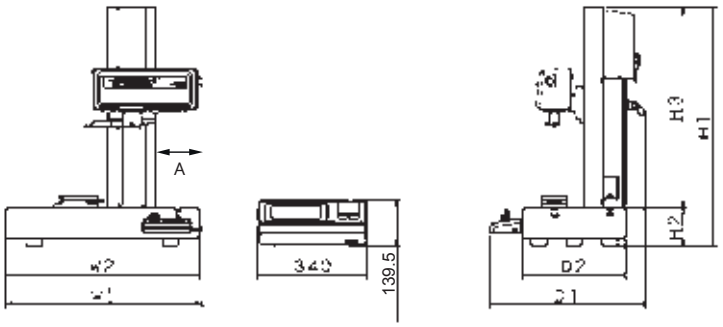
Model			SURFCOM TOUCH 550							
			-11	-12	-13	-14	-21	-22	-23	-24
Measurement range	Z direction		±500 µm							
	X direction		100 mm				200 mm			
Tracing driver	Drive distance		100 mm				200 mm			
	Straightness accuracy		(0.05 + 1.5L/1000) µm (L: measurement length (mm))							
	Speed	Measurement Speed	0.03, 0.06, 0.15, 0.3, 0.6, 1.5, 3, 6 / 0.05, 0.1, 0.2, 0.5, 1, 2, 5 mm/s (switching)							
		Moving speed	to 3 mm/s (when operating the amplifier touch panel), to 6 mm/s (when using the joystick)							
Pick-up	Sensing type		Differential inductance							
	Measurement method		Skidless/Skid (optional)							
	Z direction resolution		0.0001 µm/±40 µm, 0.00125 µm/±500 µm							
	Stylus (standard accessory)	Model	DM43801							
		Measurement force	0.75 mN							
		Radius	r_{tip} = 2 µm							
		Angle	60°cone							
		Material	Diamond							
Measurement stand	Column	Drive distance	250 mm		450 mm		250 mm		450 mm	
		Moving speed	-- (Manual)	to 3 mm/s (when operating the amplifier touch panel), to 10 mm/s (when using the joystick)			-- (Manual)	to 3 mm/s (when operating the amplifier touch panel), to 10 mm/s (when using the joystick)		
	Base	Size	600 mm x 317 mm			1000 mm x 450 mm	600 mm x 317 mm			1000 mm x 450 mm
		Material	Granite							
	Maximum allowable load weight*1		Approx. 48 kg	Approx. 42 kg	Approx. 33 kg	Approx. 48 kg	Approx. 43 kg	Approx. 37 kg	Approx. 28 kg	Approx. 43 kg
Analysis item	Calculation standards		Comply with JIS2013/2001, JIS1994, JIS1982, ISO1997/2009, ISO13565, DIN1990, ASME2002/2009, ASME1995, CNOMO							
	Parameter	Profile curve	Pa, Pq, Pp, Pv, Pc, PSm, PΔq, PPc, Psk, Pku, Pt, Pmr(c), Pmr, Pδc, Rz82, TILTA, AVH, Hmax, Hmin, AREA, Rmax, Rz, Sm, Δa, Δq, λa, λq, Lr, Rsk, Rku, Rk, Rpk, Rvk, Mr1, Mr2, Vo, K, tp, tp2, Hp							
		Roughness curve	Ra, Rq, Rz, Rv, Rc, Rt, RSm, RΔq, Rsk, Rku, Rmr(c), Rmr, Rδc, Rz94, R3z, RΔa, Rλa, Rλq, Ry, Lr, Sm, S, tp, tp2, PC, RPc JIS, RPc ISO, RPc EN, Pc, PPI, Rp, Rmax, Rz.I, RS, Rmr2, Mr1, Mr2, Rpk, Rvk, Rk, Vo, K, A1, A2, Rpm, Δa, Δq, Htp							
		Waviness profile curve	Wa, Wq, Wt, Wp, Wv, WSm, WPc, Wsk, Wmr(c), Wmr, Wδc, Wz, Wc, Wku, WΔq, WEM, WEA, WE-a, WE-q, WE-p, WE-v, WE-Sm, WEC-q, WEC-m, WEC-p, WEC-v, WEC-Sm							
		Motif	R, Rx, AR, W, Wx, AW, Rke, Rpke, Rvke, NCRX, NR, CPM, SR, SAR, Wte, NW, SAW, SW, Mr1e, Mr2e, Vo, K							
	Evaluation curve		Profile curve, roughness curve, filtered waviness curve, waviness profile curve, ISO13565 special roughness curve, roughness motif curve, waviness motif curve, upper envelope waviness curve, rolling circle waviness curve							
	Characteristics graph		Abbot curve, amplitude density function, power graph							
Filter	Filter type		Gaussian, 2RC (phase compensation), 2RC (non-phase compensation)							
	Cut-off value	λc	0.08, 0.25, 0.8, 2.5, 8, 25 mm							
		λs	None, 2.5, 8, 25 µm							
Amplifier	Display		7-inch colour liquid crystal touch panel							
	Data output		USB connector for USB memory x 1, Micro USB connector for USB communication x 1							
	Print output		Standard function/Thermal recording paper width: 58 mm (recording width: 48 mm)							
	Language		Japanese, English, Chinese (Traditional Chinese/Simplified Chinese), Korean, Thai, Malay, Vietnamese, Indonesian, German, French, Italian, Czech, Polish, Hungarian, Turkish, Swedish, Dutch, Spanish, Portuguese							
Specifications	Power supply	Power supply	AC100 to 240 V±10%, 50/60 Hz, single phase, D-type grounding							
		Power consumption	Maximum 110 VA							
	External dimensions (W x D x H)/Weight		Measurement unit: See the external view below. Amplifier: 340 x 214.5 x 139.5 mm/about 4.1 kg							
Standard accessories			Roughness specimen (E-MC-S24C), levelling adjustment table (E-AT-S02A), touch pen (E-MA-S112A), printing paper (E-CH-S25A), instruction manuals, SupportWare II							

*1 This maximum allowable load weight is for the case when using the optional anti-vibration table (E-VS-S57B for -11, -12, -13, -21, -22, -23 system, and E-VS-R16B for -14, -24 system)

SURFCOM TOUCH 550 External view

		Dimension of the main body (mm)				Measurement range(mm)		Base (mm)				Weight (kg)	
		Maximum Width	Depth	Height	Column height	X axis (tracing driver)	C axis (column)	Width	Depth	Base height	Column set position	Weight of main body	Maximum load weight*
Model		W1	D1	H1	H3	---	---	W2	D2	H2	A	---	---
SURFCOM TOUCH 550	-11	610	481	667	552	100	250	600	317	115	(140)	89	48
	-12	610	481	738	623	100	250	600	317	115	(140)	95	42
	-13	610	481	938	823	100	450	600	317	115	(140)	104	33
	-14	1000	586	963	823	100	450	1000	450	140	(240)	209	48
	-21	670	481	667	552	200	250	600	317	115	(140)	94	43
	-22	670	481	738	623	200	250	600	317	115	(140)	100	37
	-23	670	481	938	823	200	450	600	317	115	(140)	109	28
	-24	1000	586	963	823	200	450	1000	450	140	(240)	214	43

* This maximum load weight is for the case when using the optional anti-vibration table (E-VS-S57B for -11/12/13/21/22/23 system, and E-VS-R16B for -14/24 system)



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