

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



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



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

A compact high performing tracing driver

The portable compact size tracing driver for easy install-ment has an X-axis measurement range of 50 mm, a straightness accuracy of 0.3 μ m/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+ 35/40/45, HANDYSURF E-35B/40A/45A, and SURFCOM FLEX-35B/40A/45A. An optional dedicated cable is required for connection.

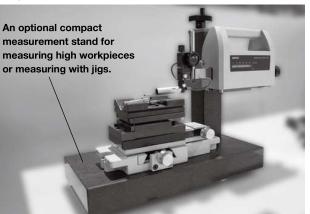


SURFCOM TOUCH 50

Usage example of roll footing



Usage example of compact measurement stand



Roll footing (Option)



Roll footing (Option)



Compact measurement stand (Option)



SURFCOM TOUCH 50 Specifications

Model			SURFCOM TOUCH
			50
Measurement	Z direction		±500 µm
range	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)
	Sensing type		Differential inductance
Pickup	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, Ηtp
		Waviness Profile Curve	Wa, Wq, Wt, Wp, Wv, WSm, WPc, Wsk, Wmr(c), Wmr, Wδc, Wz, Wc, Wku, W∆q, WEM, WEA, WE-a, WE-a, WE-v, WE-Sm,
			WEC-q, WEC-m, WEC-y, 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 Characteristics graph		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
			Abbot curve, Amplitude density function, Power graph
Filter	Filter type		Gaussian, 2RC (phase compensation), 2RC (non-phase compensation)
	Cutoff value	λα	0.08, 0.25, 0.8, 2.5, 8, 25 mm
		λs	None, 2.5, 8, 25 μm
Amplification indicator	Display		7-inch color 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	Amplification indicator: 320 x 167 x 44 mm/about 4.2 kg for the entire system
		Models without printer	Amplification indicator: 252 x 167 x 44 mm/about 3.8 kg for the entire system
Standard accessories			Roughness specimen (E-MC-S109A: For Japan (indication in millimeters), E-MC-S24D: For outside Japan (indication in millimeters / inches)),
			touch pen (E-MA-S112A), printing paper (E-CH-S25A)*1, instruction manuals, SupportWare II

*1 For models with printer only