

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 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 pickup by raising the pickup 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 pickup moves sideways. Narrow areas, such as crankshaft pins and journals, that were difficult to measure before can now be measured.

Optional pickups allow for various types of measurement (See next page)

The pickup, that comes in contact with the workpiece is replaceable.

Various types of workpieces can be measured by using optional pickups such as those for small or extremely small holes, deep grooves, etc.

A calibration plate 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 plate. Calibration can be conducted easily without need of height and inclination adjustment of the driver as before.

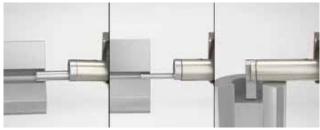


Replaceable Displacement Pickup



Usage example of dedicated calibration plate

Usage example of various pickup (Option)



Pickup for fine hole E-DT-SM11B / SM50B

E-DT-SM12A / SM51B

Pickup for extra fine hole Pickup for deep groove E-DT-SM13A / SM52B

Usage example of various adapter (Option)



Long Hole Extension Adapter DM57506

Adapter for horizontal measurement DM57507

Adapter for bore measurement E-WJ-S86A

Usage example of magnetic stand (Option)



Nose Piece for Flat Surfaces / Cylinders (Option)

For Flat Surfaces E-WJ-S88A For Cylinders E-WJ-S85A

Enables handheld measurement of planes and cylinders with very small surfaces to be measured.







SURFCOM TOUCH 35/40/45 Specifications

		SURFCOM TOUCH					
Model			35		40		45
		Tip radius 5 µm	Tip radius 2 µm	Tip radius 5 µm	Tip radius 2 µm	Tip radius 5 µm	
Measurement	Z direction		-210 to +160 µm				
range	Drive axis		X direction 16 mm Y direction 16 mm				
	Movement type		Standard type		Retraction type		Horizontal tracing type
Tracing Driver	<u> </u>		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				
	Sensing type		Differential inductance				
Pickup	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	$r_{tip} = 5 \mu m$	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, ISO13565Special 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)				
	Cutoff value λc λs		0.08, 0.25, 0.8, 2.5 mm				
			None, 2.5, 8, 25 μm				
	Display		7-inch color liquid crystal touch panel				
Amplification indicator	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	Printer-Equipped Model	Amplification indicator: 320 x 167 x 44 mm/about 2 kg for the entire system				
	(W x D x H)/Weight	Models without printer	Amplification indicator: 252 x 167 x 44 mm/about 1.6 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)), calibration table (E-WJ-S1045B), touch pen (E-MA-S112A), printing paper (E-CH-S25A)*1, instruction manuals, SupportWare II, nosepiece (V-type) (E-WJ-S536A)*2				

^{*1} For models with printer only

^{*2} For SURFCOM TOUCH 45 only