

• Surface Texture Measuring Instrument



Can be Used Anywhere in the World

C€ RoHS HandySurf conforms to JIS (2001, 1994, 1982), ASME, CNOMO and other international standards. It supports operation using English, Japanese, German, French, Italian, Spanish and Portuguese. It has cleared the European safety standard requirements for CE marking,and the restriction of the use of certain hazardous substances in European Union for RoHS divective



HANDYSURF

Replaceable Displacement Pickup



A displacement pickup provides exact and faithful surface roughness measuring. Since the pickup is replaceable, dedicate optional pickups also can be used for very small holes and deep grooves, facilitating a wide range of measurements.

Data Transfer to a Computer

Computer Connectable *Notebook computer connection cable (E-SC-S366A) is an option. Macro program is included.



Measurements from Any Orientation A serial port (RS-232C) provided as standard makes it possible to transfer measuring conditions, parameter values, and profile curve data directly to a computer.



Inspection Report Creation Data can be imported into a Microsoft EXCEL spreadsheet and used to create an inspection report.



TiMS Light (Option) High-level analysis can be performed using ACCRETECH TiMS Light integrated measuring system.

The compact, lightweight design of the HANDYSURF unit enables measuring in horizontally, vertically, tilted, or in any other orientation. The display and drive units can be used together in an integrated configuration or separated to meet specific measuring needs.





Functions to Support On-site Operation Data Storage/Rechargeable Battery



On-board memory can store 10 sets of measured data for unrestricted output whenever it is required. Both the HANDY-SURF unit and the printer have built-in rechargeable batteries, making them ideal for onsite measuring where measuring where power is not available.



Sample of a printout when all functions are selected



TOKYO SEIMITSU





Long Hole Extension Adapter DT57506 For long hole measuring with pickup extended 50mm



Adapter for Side Direction Measurements DM57507 For measuring 68mm inside from the side of the drive unit



Nose Piece (For Flat Surfaces) E-WJ-588A For handheld measuring of a flat surface whose measuring surface is too small.



* Option accessories of E-45A is not on this catalog.

Nose Piece (For Cylinders) E-WJ-585A For handheld measuring of a cylinder whose measuring surface is too small



Adapter for Hole Measurements E-WJ-S86A For handheld measuring of holes and grooves that run at a right angle to the object being measured.

Specifications

specifications					
Model			HANDYSURF E-35B	HANDYSURF E-40A	HANDYSURF E-45A
Measuring Range	Z-axis(vertical)		±160μm		
	Drive axis		X-axis (horizontal) 12.5mm		Y-axis 4.0mm
Resolution	Z-axis(vertical)		0.01µm/±20µm~0.08µm/±160µm		
Analysis items	Standards		Complies with JIS-2001, JIS-1994, JIS-1982, ISO-1997, ISO-1984, DIN-1990, ASME-1995, CNOMO		
	Parameters	JIS-2001	Pt, Ra, Rq, Rz, Rzmax, Rp, Rt, R3z, RSm, Pc, Rk, Rpk, Rvk, Mr1, Mr2, VO, K, Rmr		
		Motif	R, Rx, AR, W, Wx, AW, Wte		
	Evaluation curves		Profile curve, roughness curve, ISO13565 special curve, roughness motif curve, waviness motif curve, envelope waviness curve		
Filter	Cut-off		Gaussian filter, 2RC filter		
	Cut-off values		λ c:0.08 、0.25 、0.8 、2	.5mm λ s:2.5 、8μm	λ c:0.08 、0.25 、0.8mm λ s:2.5 μ m
Evaluation length	Fixed mode		Cut-off value x 5		
	Arbitrary mode		0.4 to 12.5mr	n(unit:0.1mm)	0.4 to 4.0mm(unit:0.1mm)
Drive speed			0.6mm/s(return sped 1mm/s)		
Pickup	Movement system		Standard type	Retraction type	Horizontal tracing type
	Sensing method		Differential inductance(displacement type)		
	Stylus		Diamond,90° cone, 5µmR	Measuring force 4mN or less Skid S	apphire,32mmR(trace direction)
Dimensions,	Power source		Built-in rechargeable battery(charged with AC adapter) Power consumption Approx. 1VA		
weight & etc.,	External dimensions & Weight		210(W) x70(D) x60(H)mm Aprox. 600g		
Standard accessories			Reference specimen (E-MC-S24B), AC adapter, instruction manual		
			Rear adjustment p Extension cable Handy case ((E-SC-S255A),	Specimen stand (EWJ-S558A), V Nose piece (E-WJ-S536A), Extension cable (E-SC-S466A), Handy case (E-MA-S97A)

Pickups Specifications



Printer (Option)

Name & Model	Compact Printer E-RC-S29A(DPU-H245)					
Printing method	Thermal line dot					
Recording curves	Profile curve, roughness curve, load curve, rougghness motif curve, waviness motif curve, envelope waviness curve					
Recording magnification	Vertical direction(V) 100,200,500,1k,2k,5k,10k,AUTO	Horizontal direction(H) 1,2,5,10,20,50,100,200,AUTO				
Weight & Dimensions	Approx. 390g	External dimensions 140(W) x 100(D) x 40(H)mm				
Accessories	Recording paper:E-CH-S25A,Connection cable:E-SC-S365A					

Please contact the following branch to order.



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