SURFCOM FLEX

Small	Easy	Flexible
Advantage 1 Anywhere !	**Advantage 2 Anybody !**	**Advantage 3 Any measurement**
●Easy to carry by compact design ●Use anywhere ●Output quickly by built-in printer	●Easy to recognize by large color LCD ●Easy operation by large color LCD	●Select tracing driver according with workpiece. Measure flexible, from simple measurement to waviness measurement. ●Use current tracing driver* combination with FLEX amplifier. ＊Tracing driver for E-35A/B, E-40A, E-45A and S130A.

Select tracing driver according with workpiece

SURFCOM FLEX 50A
Small genuine type

Measurement method : Skid/Skidless measurement
Measurement range : X-axis 50mm (Tracing driver)
Measurement speed : 0.15～1.5mm/s

Model combination with small genuine type 50mm tracing driver of S130A.
Small tracing driver, available skidless measurement and waviness measurement.
Achieve class highest straightness accuracy 3um/50mm
Easy levelling adjustment by tilting support function

SURFCOM FLEX 50A combination with optional compact stand.

SURFCOM FLEX 35B
Standard type

Model combination with standard tracing driver of Handysurf.
Measure any orientation, flat, vertical, tilt and ceiling surface.

Measurement method : Skid measurement
Measurement range : X-axis 12.5mm (Tracing driver)
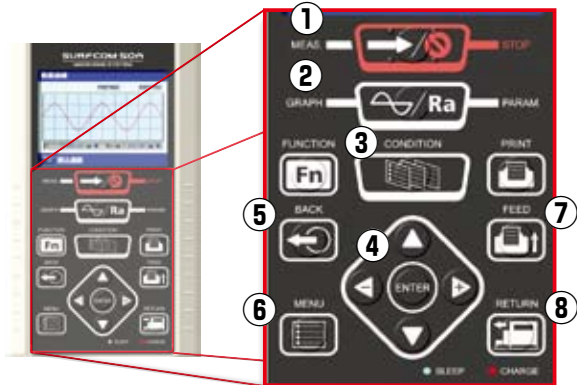Measurement speed : 0.6mm/s

SURFCOM FLEX 45A
Side trace type

Model combination with side trace type tracing driver of Handysurf.
This type is suitable to measure narrow surface like, pin and journal of crankshaft.

Measurement method : Skid measurement
Measurement range : X-axis 4mm (Tracing driver)
Measurement speed : 0.3mm/s

SURFCOM FLEX 40A
Retract type

Model combination with retract type tracing driver of Hadysurf.
Pickup retract at the stand by or the end of measurement to protect the damage against the stylus and pickup. Also it is suitable for built-in measurement system.

Measurement method : Skid measurement
Measurement range : X-axis 12.5mm (Tracing driver)
Measurement speed : 0.6mm/s

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● Small & Lightweight design, Potable roughness analysis data processor with built-in printer.
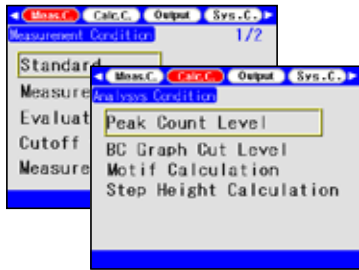

◆Able to operate in hand

Arrange 3 frequently used key at upper side of operation panel

① MEAS. / STOP   :Start/Stop key
② GRAPH / PARAM   :Diplay graph/Parameter key
③ CONDITION   :Measurement condition setting key
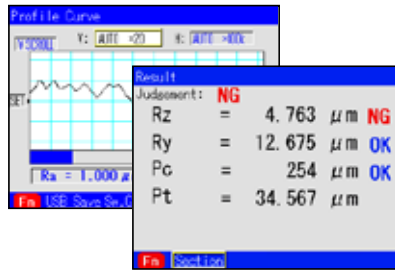
Arrange other key at boutom of operation panel

④ Up/down/Left/right・ENTER   :Move/Select key
⑤ BACK   :Return upper menu key
⑥ MENU   :Setting menu display key
⑦ PRINT・FEED   :Print/Feed key
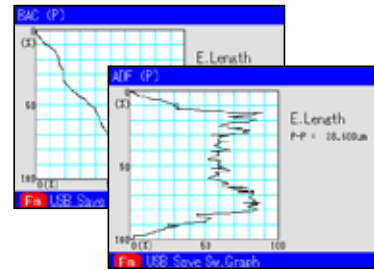⑧ RETURN   :Return tracing driver key (for FLEX 50A)

● 3.5" Color LCD display shows measuring result and condition clearly.

Menu screen for measuring and analysis condition
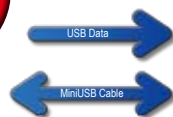

Curve and parameter of measurement result

Graph of measuremnt result (BAC and ADF)

● Correspond USB memory and USB data communication

Save up to 5 measurment condition and 30 measurment result into internal memory of Surfcom FLEX.
Additionaly USB memory can be connected in Surfcom FLEX to save more data.
(USB memory in picture is optional)

Mini USB connector is equipped with Surfcom FLEX and able to connect with PC. The data can be sent to PC and various analysis is available with ACCTee software.

● Built-in tilt stand

Surfcom FLEX can be tilted at 15deg. or 36deg. and can be fold when it is not necessary.

36°
15°

Attachment holder for handysurf tracing driver (Optional)

Tracing driver of Handysurf E35B or E40A can be attached in Surfcom FLEX with optional attachement holder.
It makes easier to store tracing driver and to carry.

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● Specifications

Model			SURFCOM FLEX			
			-50A	-35B	-40A	-45A
Measuring Range	Z-axis(vertical)		±400μm	±160μm		
	Drive axis		X-axis 50mm	X-axis 12.5mm		Y-axis 4.0mm
Resolusion	Z-axis(vertical)		0.00016μm/±4μm～0.016μm/±400μm	0.01μm/±20μm～0.08μm/±160μm		
Analysis items	Standards		Complies with JIS-2001,JIS-1994,JIS-1982,ISO-1997,DIN-1990,ASME-1995,CNOMO			
	Parameters	JIS-2001	Ra,Pa,Pq,Pt,Rz,Rz.J,Rzmax,Rq,Rp,Rt,R3z,RSm,Pc,AVH,Hmax,Hmin,Pmr,Rmr,Rk,Rpk,Rvk,Mr1,Mr2,VO,K			
		Motif	R,Rx,AR,W,Wx,AW,Wte			
	Evaluation curves		Section profile curve, roughness curve, ISO13565 special curve, roughness motif curve, waviness motif curve, envelope waviness curve			
		Filterd waviness profile, Waviness profile		—		
	Characteristics graphs		Bearing area curve, Amplitude distribution(ADF)curve			
Filter type	Cut-off		Gaussian filter , 2RC filter(phase correct type) , 2RC filter(non phase correct type)			
	Cut-off values		λ c:0.08,0.25,0.8,2.5,8,25mm λ s:0.25,0.8,2.5,8,25μm	λ c:0.08,0.25,0.8,2.5mm λ s:2.5,8μm		λ c:0.08,0.25,0.8 λ s:2.5μm
Evaluation length			0.1～50mm(unit:0.1mm)	0.4～12.5mm(unit:0.1mm)		0.4～4.0mm(unit:0.1mm)
Drive speed			0.15～1.5mm/s	0.6mm/s		0.3mm/s
Pickup	Movement system		Small genuine type	Handy standard type	Handy retract type	Handy side tracing type
	Sensing method		Differential transducer	Differential inductance(displacement type)		
	Measuring force		0.75mN or less	4mN or less		
	Stylus		60˚ cone, 2μmR, Diamond	90˚ cone, 5μmR, Diamond ,Skid Sapphire,32mmR(trace direction)		
Dimensions, weight & etc.,	Power source		Built-in rechargeable battery(charged from AC adapter),Charging time：3hour Power consumption abou 30VA (Measurement is possible about 600 times at the full charge.)			
	External dimensions & Weight		FLEX(Amplifire):132(W)×58(D)×214(H)mm ,About 90g			
Standard accessories			Reference specimen(E-MC-S24B),AC adapter,Hand belt,Recording paper(E-CH-S25A),Instruction manual			
			Pickup(E-DT-SE19A), Stylus(DM43801), Tracing driver cable(E-SC-S517A)	Pickup(E-DT-SM10A), Rear adjustment piece(E-WJ-S64A), Tracing driver cable(E-SC-S518A)		Pickup(E-DT-SM39A), Stand for specimen(E-WJ-S558A), V type nose piece(E-WJ-S536A), Tracing driver cable(E-SC-S519A)

TOKYO SEIMITSU CO., LTD.

Head Office　　　　　　　　　　　2968-2, Ishikawa-machi, Hachioji-city,Tokyo 192-8515, Japan　　　　　TEL.81(42)642-1701　　　FAX.81(42)642-1821

International Marketing Dept.　　4, Higashi-Nakanuki-cho,Tsuchiura-city, Ibaraki 300-0006, Japan　　　TEL.81(29)831-1240　　　FAX.81(29)831-6676

http://www.accretech.jp

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