SURFCOM FLEX

Portable Surface Texture Measuring Instrument

ZEISS

We make it visible.

SURFCOM FLEX

Select tracing driver according with workpiece

Small

- Easy to carry by compact design
- Use anywhere
- Output quickly by built-in printer

Easy

- Easy to recognize by large color LCD
- Easy operation by large color LCD
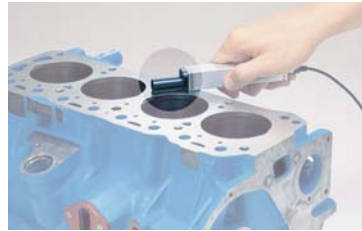
Flexible

- 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.
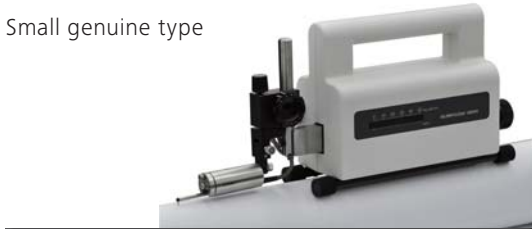
SURFCOM FLEX 35B
Standard type

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

SURFCOM FLEX 50A
Small genuine type

SURFCOM FLEX 50A combination with optional compact stand.

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 45A
Side trace type
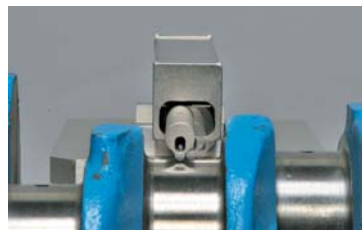
Model combination with retract type tracing driver of Hadysurf. Pickup retract at the stand by or the end of measurement to protect the damage against the stylus and pickup. Also it is suitable for built-in measurement system.

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
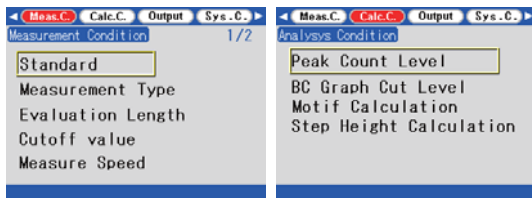**3** CONDITION: Measurement condition setting key

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
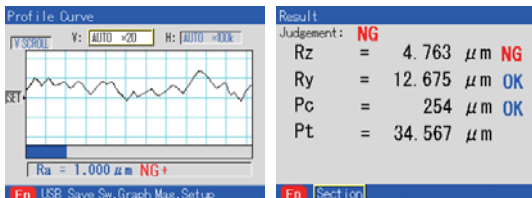**8** RETURN: Return tracing driver key (for FLEX 50A)

Small & Lightweight design, Potable roughness analysis data processor with built-in printer.
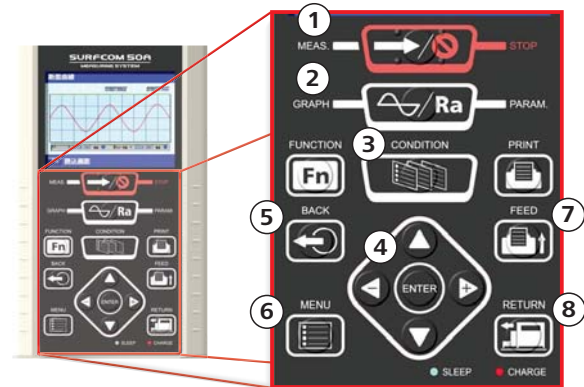
3.5" Color LCD display shows measuring result and condition clearly.

Menu screen for measuring and analysis condition

Curve and parameter of measurement result
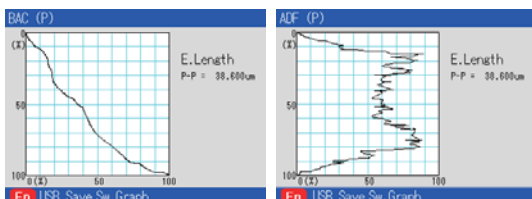
Graph of measuremnt result (BAC and ADF)

Correspond USB memory and USB data communication

Save up to 5 measurment condition and 30 measurment result into internal memory of Surfcom FLEX.
Additionally 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.

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			
	Param-eters / 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			
	Param-eters / 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	λc:0.08,0.25,0.8,2.5,8,25mm λs:0.25,0.8,2.5,8,25µm	λc:0.08,0.25,0.8,2.5mm λs:2.5,8µm		λc:0.08,0.25,0.8 λs: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 time3hour 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)

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