SURFCOM 130

Mobile surface measuring instrument

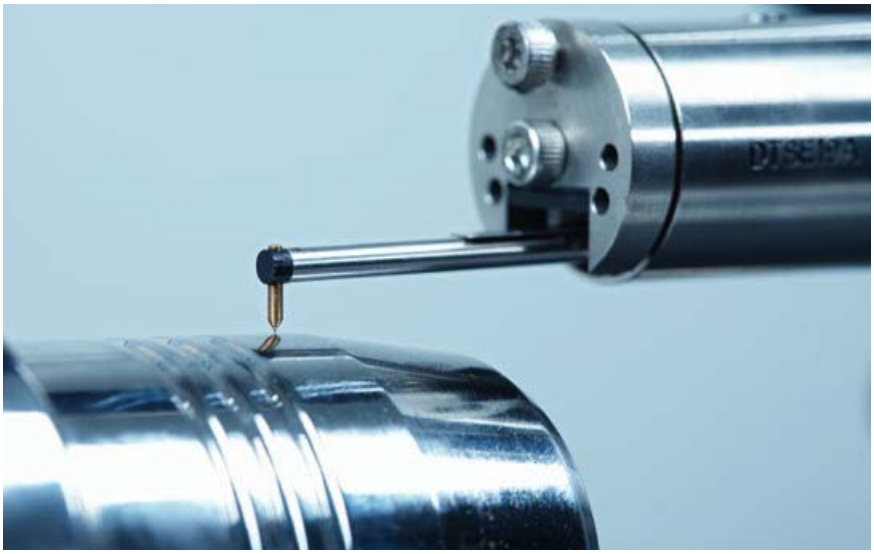
The SURFCOM 130 is designed for mobile use in production. The separate control and analysis unit features a touchscreen display and a printer. An interface enables external data storage and professional analysis with ACCTee PRO on a computer.

Compact tracing driver

- Highly accurate free stylus-and-arm system
- 50 mm traversing length for measuring waviness
- Large deflection range of up to 1.6 mm for measuring roughness on radii
- Easy to exchange the sensing arm

International analysis parameters

Select the required standard: ISO, CNOMO; ASME, JIS



Straightness accuracy	0.3 µm/50 mm
Traversing length	50 mm

Touchscreen control unit with integrated printer

The user-friendly touchscreen display is available in color. Thanks to the integrated printer, reports, graphics and notes can be printed easily.

Virtual notepad

The touch pen allows you to record notes and drawings on the display.

Configurable user interface

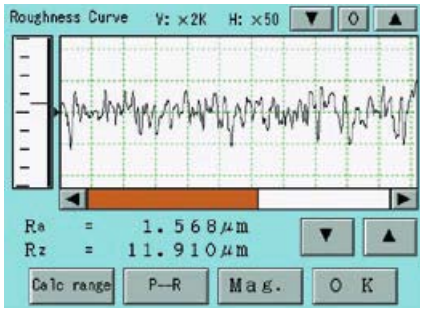
Create a customized menu that only contains the functions you use most.

User guidance
Helps measuring technicians configure all measuring conditions.

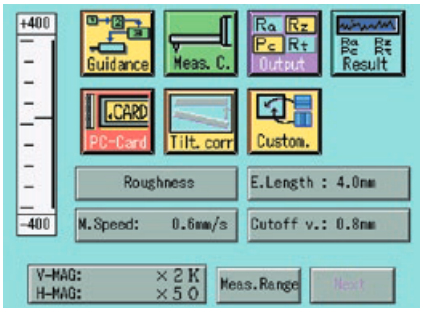
Automatic function
The measuring range, overall measuring length, cut-off and display magnification are automatically configured based on the surface quality.

Extensive analysis functions
- Evaluate all roughness values as per the standards: Ra, Rz, Rt, Rsm, etc.
- All waviness parameters
- Various filters, profile types and characteristics

Tilt correction
Six tilt correction methods for profile analysis: line, curve (ARC), first half, second half, beginning / end, spline.



Profile display and parameter results



User-defined main menu

Special evaluations
Each parameter can be recalculated for selected profile areas. The corresponding area is easily configured via the cursor in the profile.

Memory card slot
A PCMCIA slot for saving and managing profiles, results, measuring programs and special programs.

PC interface
RS-232C for professional evaluation with ACCTee PRO roughness software

Language selection
German, English, French, Spanish, Portuguese and Japanese

SURFCOM 130
Accessories

Roll foot, flat
E-MA-S62A
Attachment for easy positioning on shafts. For measurable exterior diameters of 60 mm and more

Roll foot, raised
E-MA-S63A
Raised attachment for easy positioning on shafts. For measurable exterior diameters of 60 mm and more

Universal stylus mount
E-DH-S107A
Stylus mount for measurements on non-flat surfaces
Z = –50 mm

Perpendicular stylus mount
E-DH-S17A
For lateral tracing in the feed direction

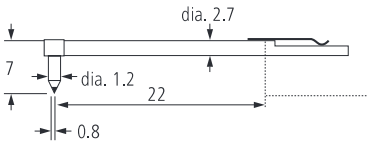
Battery set
E-MA-S65A
AC adapter, battery, charger

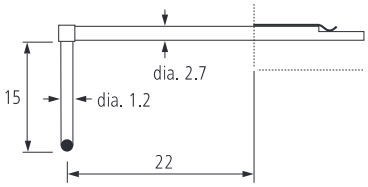
PCMCIA memory cards up to 1 GB
E-MU-S50C
Memory card for up to 7000 measuring conditions and measurement data

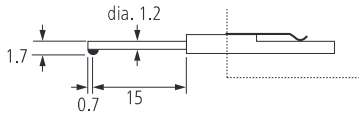
Measuring columns
Measuring columns for quickly and accurately adjusting the height and tilt of the tracing driver
Base plate (granite): 400 x 240 x 50 mm
Max. height (Z): 300 mm

SURFCOM FLEX
Compact control and analysis unit
(see p. 22)

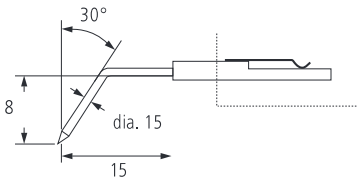
Sensing arms
Excerpt from our stylus catalog

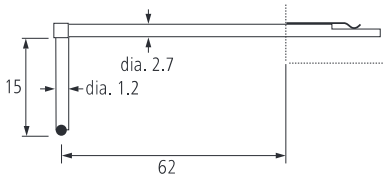






Cat. no.	1059-167	1079-358	1079-356
Length of sensing arm	22 mm	22 mm	15 mm
For boreholes larger than	dia. 7.5 mm	-	dia. 2 mm
For groove depths	<4 mm	<15 mm	-
Measuring range	± 400 µm	± 400 µm	± 400 µm
Stylus tip	2 µm/60°, diamond	2 µm/60°, diamond	2 µm/60°, diamond





Cat. no.	1084-495	1128-388	1054-833
Length of sensing arm	62 mm	15 mm	62 mm
For boreholes larger than	dia. 2 mm	-	-
For groove depths	-	-	<15 mm
Measuring range	± 800 µm	± 400 µm	± 800 µm
Stylus tip	2 µm/60°, diamond	2 µm/60°, diamond	2 µm/60°, diamond

SURFCOM FLEX

Mobile control and evaluation unit

The SURFCOM FLEX is an easy-to-use control and evaluation unit with an integrated printer. It can be used in combination with the HANDYSURF and SURFCOM 130 tracing drivers. Thanks to its ease of use and robustness, the SURFCOM FLEX is at home in the workshop.

The SURFCOM FLEX with optional clamping device for the E-35B or E-40B tracing driver

Small, lightweight and flexible

Thanks to its compact size and robust design, the SURFCOM FLEX controller can be easily transported and used anywhere. The small device also houses a printer. The 8.9 cm color display is very easy to read. Measuring results can be displayed numerically and graphically. They can also be printed using the report printer.

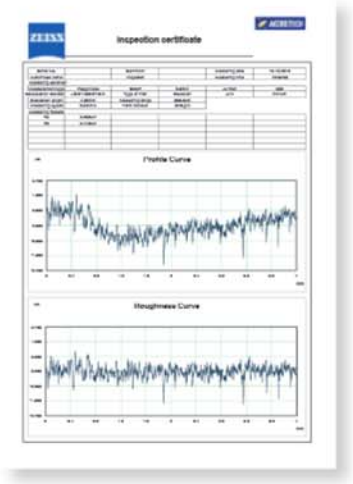
The SURFCOM FLEX can also be operated using a battery. A power supply unit is also included.

Memory and interfaces

Measuring conditions and results can be stored on the internal memory or on the enclosed 8 GB memory card (standard USB). A mini USB interface enables data evaluation on a computer. Excel-based evaluation software is included.

Options

- Holder for the E-35 or E-40 tracing driver
- Data transmission to CALYPSO coordinate measuring machine software for roughness, size, form and position in one report

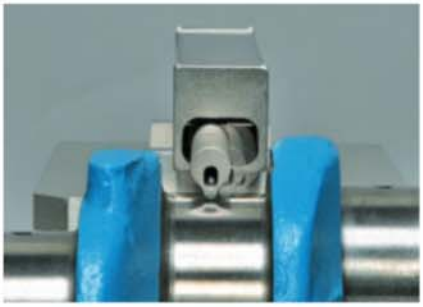


SURFCOM FLEX report

System combination

SURFCOM FLEX 35/40

For surface measurements on all flat surfaces – even vertically and overhead.



SURFCOM FLEX 45

For surface measurements in the axial direction in tight spaces, e.g. to measure crankshaft pins.

SURFCOM FLEX 50

Surface measurements with the SURFCOM 130 tracing driver. To capture roughness, profile and waviness parameters.

SURFCOM FLEX
POWER
MEMORY
COM
MEAS
GRAPH
PARAM
FUNCTION
CONDITION
PRINT
BACK
FEED
MENU
RETURN
ENTER
SLEEP
CHARGE