

HANDYSURF

Mobile surface measuring instrument



Q-PLUS Labs

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The simple, handy solution for measuring, evaluating and documenting surface roughness. Be it incoming goods, production or final inspection: with HANDYSURF, quality assurance becomes mobile – the measuring instrument goes to the workpiece and not vice versa.

Measuring in different positions

HANDYSURF not only allows measurements on flat surfaces, but also on vertical and overhead surfaces. Furthermore, it is possible to separate the tracing driver for greater flexibility when using the display unit or optional holding devices.

Freedom of motion

In order to work without cables, the mobile system is powered by rechargeable batteries. A charger is included.

Automatic function

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

Data storage

Ten complete data sets can be stored on the internal memory and accessed at any time.

PC interface

USB and RS 232C interfaces make it possible to transfer the measured values as well as parameters and profile points

directly to a PC. CALYPSO software allows users to merge roughness, form and position in one report.

All common interface standards

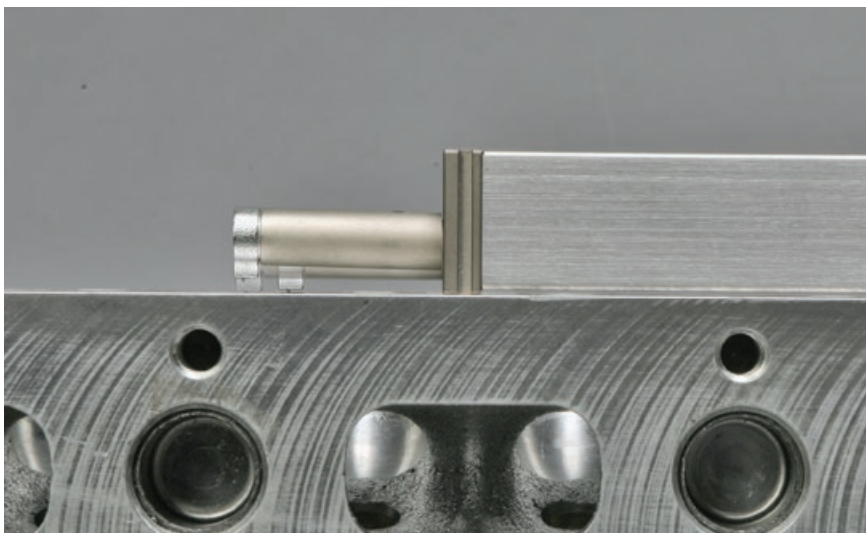
ISO, DIN, CNOMO, JIS and ASME standards are fulfilled. Users can switch between seven languages: German, English, French, Italian, Spanish, Portuguese and Japanese.

Measuring range (Z axis)

±160 µm

Resolution (Z axis)

0.01 µm at ±20 µm/0.08 at ±160 µm



Flexible in mobile operations: the tracing driver can be used separately from the display unit



Standard model
E-35B tracing driver

With retraction unit
E-40A tracing driver

To minimize the risk of damage to the stylus, the detector is retracted into the housing when not in use.

With horizontal driver
E-45A tracing driver

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



Exchangeable styli

Various styli can be used and easily exchanged as needed to fit the application. (see p. 63)

| | |
|-----------------------|------------------------------------|
| Probing force: | 0.7 mN/4 mN |
| Stylus tip: | Diamond 2 µm/60° or 5 µm/90° |
| Skid: | Sapphire |

| | | | | |
|--------------------|-----------------|----------------|----------------|------------------------|
| Type | E-DT-SM10A | E-DT-SM11A | E-DT-SM12A | E-DT-SM13A |
| Application | Standard stylus | dia. from 6 mm | dia. from 3 mm | Grooves max. 7 mm deep |

HANDYSURF

Accessories



High-speed thermal printer
with high resolution



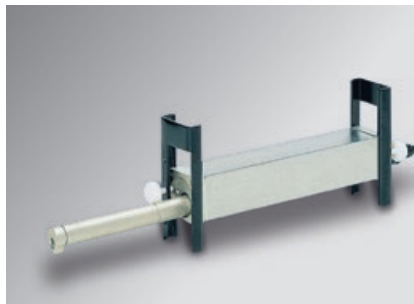
Column with granite base
Stable column with massive granite base plate (see also image to the right)



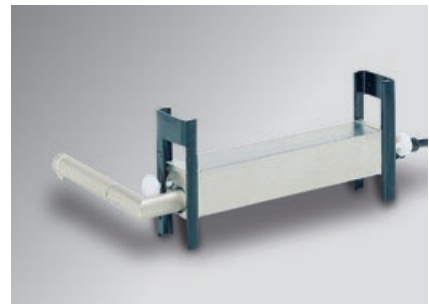
SURFCOM FLEX
Compact control and analysis unit with integrated printer and Excel-based evaluation software



Magnetic column with ball joints
Flexible magnetic columns with two ball joints and one swivel joint



DT57506 extension
Extension of the sensing arm by 50 mm, e.g. for measuring deep boreholes



DT57707 extension adapter
The 90° offset extension enables lateral probing



E-WJ-S88A surface attachment
Attachment for manual measurement of flat surfaces



E-WJ-S85A shaft attachment
Attachment for manual measurement of shafts and cylinders



E-WJ-S86A orthogonal attachment
Alignment aid for reliable alignment at right angles to the bearing surface