

WARPsurf RUGO-PROFILOMETER

Roughness and profile together, when and where you want



Bluetooth, USB and Wi-Fi connection



Magnetic arm holder



The WARPsurf roughness tester marks a turning point in the global panorama of surface analysis instruments, because it combines with its all-in-one construction philosophy the possibility of analyzing both roughness and profile completely and in a single portable device, without the aid of a fixed PC. The brilliant 7" touch screen color display combined with the icon interface allow for great ease of use.



Thanks to the powerful microprocessor, the instrument always has a fluid behavior and a rapid processing of even the most complex profiles.

Extremely compact and easy to handle, the WARPsurf allows, with great simplicity, to position itself even on large parts thanks to its integrated positioning micrometric system with a useful stroke of 110 mm, furthermore the system of interchangeable probes with magnetic coupling, guarantees reliability and safety, and in the event of accidental impact they release automatically thus avoiding possible breakages.

For the most difficult measurements it is possible to rotate the probe by 90° and thus easily reach areas that are difficult or normally impossible to measure.



The USB interface also allows you to connect any pen drive to save images and reports in PDF. You can also connect a classic desktop printer and print directly on an A4 sheet.

For a more in-depth and detailed analysis, simply connect the WARPsurf in Bluetooth or USB mode to the computer and use the advanced analysis software Profile Studio. Among the accessories, there is also a Wi-Fi connection to the company network to save measurement data and print reports in real time and share them within the company.

Measuring sensor for profilometry with 20mm field - code: 1.428

New measurement sensor for the characterization of profiles with a wide measuring range up to 20mm that allows the WARPsurf to be a small portable profilometer for the measurement of large profiles.

The heart of this sensor is a digital reading line with an optical system, this allows to reach great precision exactly like a laboratory profilometer.

The kit includes sensor, chisel probe and certified calibration sample.

Profile Studio Software for Advanced Analysis - Code: 1.407

The Profile Studio software has been developed to be extremely intuitive and easy to use for the operator; all the functions necessary for the characterization of the profile and roughness are grouped in a convenient toolbar and are divided into families, each of which has a different color.

On the same acquired profile, it is possible to insert dimensional and roughness analyses that coexist in the same screen, guaranteeing the operator the complete analysis of the particular with a single measurement.



Stativi

Diabase stand ST2
code: 1.401
630x400 h3000 mm



Stand with column with manual positioning.
Accessories:
Micrometric sliding table with "V" centering (code: 1.425) or the vice (code: 3.403).

ST3 Aluminum Stand
code: 1.413
800x400 h500 mm



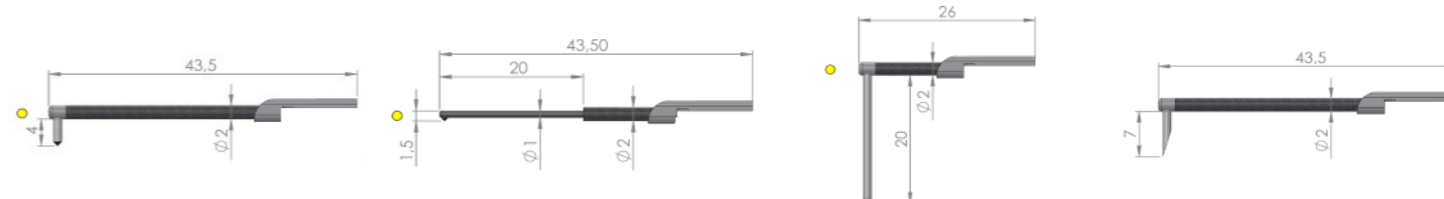
Stand with manual positioning column, useful range of 300 mm. Oxidized aluminum top with thickness, integrated "T" slot. Accessories: 3 or 4-axis positioners (3-axis code: 3.400 and 4-axis code: 3.401)

Diabase stand ST4 motorized column
code: 1.418
600x250 h3800 mm

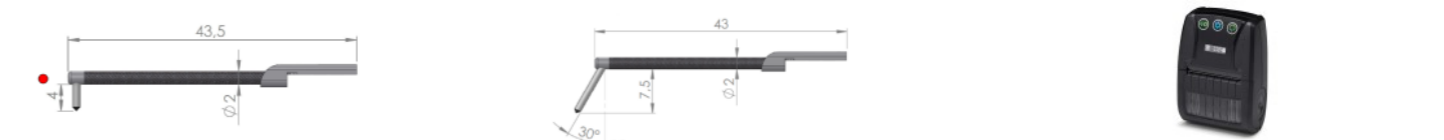


Stand with diabase top, integrated "T" slot and motorized column. Ergonomic support inclined towards the operator.

Roughness - Stylus 1-Y - code: 1.721 Roughness - Stylus 2-Y - code: 1.723 Roughness - Stylus 3-Y - code: 1.724 Profilometry - Stylus 4-S - code: 1.725



Roughness - 2µm/60° - Stylus 1-R - code: 1.722 Roughness - Stylus 5-Y - code: 1.728 Stampante termica Bluetooth - codice: 1.422



Technical data and dimensions

- Product code:** WARPsurf (code: 1,105)
- Measuring range:** ±1500µm (±2500µm on request)
- Resolution:** 0,0001 µm - (0,1nm)
- Accuracy class:** 1° ISO/DIN
- Cut-off length:** 0,08 - 0,25 - 0,8 - 2,5 - 8 mm
- Number of cut-offs:** Selectable from 1 to 20 (for cut-off 8 mm from 1 to 6)
- Exploration ride:** Up to 60 mm
- Probe:** Inductive, rotatable by 90° for lateral measurements and interchangeable magnetic styles
ISO 4287 / ISO 21920 / ISO 12085
67 parameters
ISO: Ra, Rz, Rq, Rp, Rv, Rt, Rsk, Rku, Rsm, Rc, Rdq, Rda, Rpc, Rdc, Rcm, Rmr rel., Wa, Wz, Wq, Wp, Wv, Wt, Wsk, Wku, Wsm, Wc, Wdq, Wpc, Wdc, Pa, Pq, Pp, Pv, Pt, Psk, Pku, Psm, Pc, Pdq, Ppc, Pdc, Rk, Rpk, RvRak1, Rak2, Rmrk1, Rmrk2
- Measurement parameters:** JIS: Ra, Rq, Ry, RzJIS, tp, RSm, S
ASME: Rp, Rpm, RPC, Rsk, tp
MOTIF: Pt, R, AR, Rx, Ppc
- Graphs displayed:** Roughness, undulation, dominant, primary, total undulation, lift curve and ordinate distribution.
- Unit of measure:** Millimeters and inches
- Interface:** 7-inch TFT touch screen color graphic display and 3 waterproof membrane buttons
- Languages:** Italian, French, English, German, Spanish, Portuguese, Japanese, Chinese, Korean
- Memory:** Up to 4000 in roughness - Up to 1000 in profilometry
- CAD:** Integrated profile processing functions:
- Points: Cartesian - on the profile - of intersection - extreme - maximum - minimum
- Lines: best-fit - polar - interrupted - between two or more points - parallel
- Arcs: best-fit - interrupted - for three or more points - center and radius - tangent
- Dimensions: Aligned - vertical - horizontal - radius - angle - point line distance
- Advanced: Alignment - Scale in Z
- Display: Pan - Zoom
- Printer:** Integrated PDF creator, optional printer: standard A4 printer* or thermal printer (code: 1.422)
- Standard equipment:** WARPsurf roughness tester with SB300 magnetic sensor and Stylus 1-Y for roughness, 110-230V battery charger, roughness specimen, transport case, touch pen, user manual.

