

# PGS100 PROFILOMETER

Measuring system for 2D profiles



USB connection



The PGS100 profilometer allows to acquire 2D profiles in an extremely simple and intuitive way, thanks also to its measuring range of 130 mm in length (X) and 50 mm in height (Z).

The use of the instrment is very simple and intuitive, all commands can be managed from the graphic interface or from the keyboard.

The Profile Studio analysis program is equipped with all the CAD functions necessary for the dimensioning of your pieces, it also allows you to create programs to automate the characterization of the elements, for example during series measurements.

The standard configuration that includes the work table with "T" slot and the 32 mm chisel measuring probe, can be enriched and completed with various accessories, including the positioner with 3 or 4 degrees of freedom on bearings and the precision vice that it allows to firmly lock the pieces during the measurements.

The calibration, thanks to the dedicated calibration specimen, takes place guided by the software.

## Vice - code: 3.403



The ground vice for clamping the pieces has a useful opening of 48mm and is the perfect accessory to complete the 3 or 4 axis positioner essential for a precise and reliable measurement.



## Positioning systems

Various other accessories are available, including the magnetic chuck (code 3.409), tiltable from 0° to 90° or the "V" supports (code 3.408) for shafts, with fixed guide height of 125mm and movable guide height adjustable from 120mm up to 155mm.

## 3-axis positioner - code: 3.400



The 3-axis positioner, equipped with sliding on bearings and coupling with "T" slot, allows rapid positioning of the pieces to be measured and thanks to the positioning micrometers, finding the MAX or MIN point of your parts will be very simple thanks to the guided function via software.



## Measuring arms

The PGS100 is able to satisfy any measurement need thanks to the carbon measuring arms, standard (code: 3.305), special (eccentric code: 3.308) and for small holes (code 3.304).

## 4 axis positioner - code: 3.401



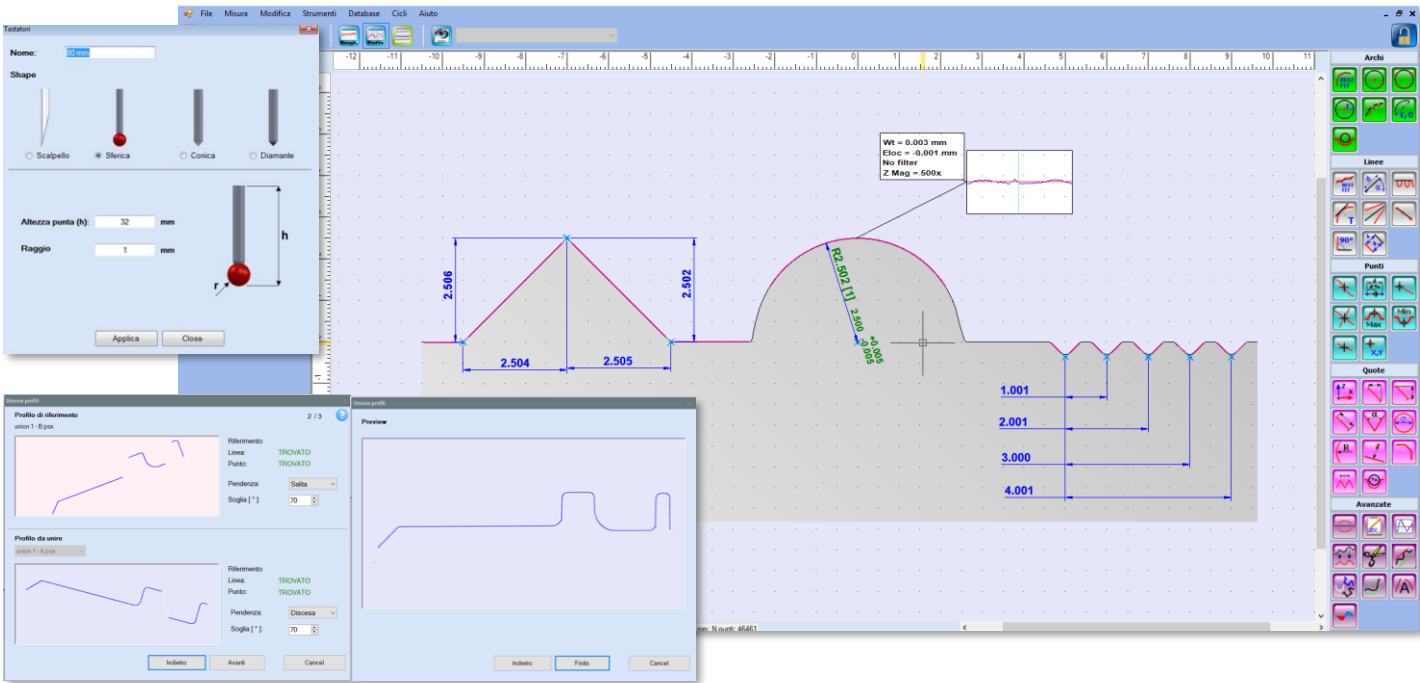
The 4-axis positioner, in addition to all the features of the 3-axis, offers the possibility of tilting the work surface by +/- 30°, making it possible to measure grooves or o-ring seats through the dedicated function of joining the profiles.



## Chisel, ball and miniature probes

The measuring probes are available in different types and in different heights, in metal, ceramic or ruby. The standard is chisel and on request it is possible to supply ball, conical or miniaturized probes with a diameter of 1mm. Available heights: 6,8,12,21,31,41,51mm.

## Profile Studio Basic Software



## Technical data and dimensions

Product code:	PGS100 (code: 3.102)
Unit of measure:	Millimeters and inches
Exploration stroke (X):	130 mm (5,12 in)
Measuring range (Z):	50 mm (1,97 in)
Column travel (Y):	320 mm (12,6 in) manual
Sampling interval (X):	0,5 µm (0,02 µin)
Z axis resolution:	0,2 µm (0,008 µin)
Positioning speeds:	0-10 mm/s (0-7 in/s)
Measurement speed:	From 0,2 mm/s to 2 mm/s (from 0,008 in/s to 0,08 in/s )
Tip radius:	20 µm (0,8 µin)
CNC cycles:	Automatic CNC measuring and positioning cycles with self-comparison of the measured profiles
Connection:	USB interface to Windows PC (©)
Languages:	Italian, French, English, German, Spanish, Portuguese and Slovenian
Dimensions:	1013 x 400 x 679 mm (L x P x H)
Total weight:	34 kg (75 lbs)
Supply voltages:	110-240 V ; 50-60 Hz
Working temperatures:	15 - 25°C (59 - 77°F)
Software:	Profile Studio Basic

