

# 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 instrument takes place through the commands given by the software or from the PC keyboard in a very intuitive way. The Profile Studio analysis software 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 worktable with "T" slot and the 32 mm chisel measuring probe, can be enriched and completed with various accessories, like the positioning system on bearings with 3 or 4 movements and the precision vice that it allows to firmly lock the pieces during the measurements.

The calibration, thanks to the dedicated calibration sample, is guided by the software.

<b>TECHNICAL DATA:</b>	PGS100 (code: 3.102)
<b>Unit of measure:</b>	Millimeters and inches
<b>Exploration range (X):</b>	130 mm (5,12 in)
<b>Measuring range (Z):</b>	50 mm (1,97 in)
<b>Column travel (Y):</b>	320 mm (12,6 in) positioning manual column
<b>Sampling interval (X):</b>	0,5 $\mu\text{m}$ (0,02 $\mu\text{in}$ )
<b>Z axis resolution:</b>	0,2 $\mu\text{m}$ (0,008 $\mu\text{in}$ )
<b>Positioning speed:</b>	0-10 mm/s (0-7 in/s)
<b>Measurement speed:</b>	From 0,2 mm/s to 2 mm/s (from 0,008 in/s to 0,08 in/s)
<b>Tip radius:</b>	20 $\mu\text{m}$ (0,8 $\mu\text{in}$ )
<b>CNC cycles:</b>	Automatic CNC measuring and positioning cycles with self-comparison
<b>Connection:</b>	USB interface to PC Windows <sup>(C)</sup>
<b>Languages:</b>	Italian, French, English, German, Spanish, Portuguese and Slovenian
<b>Dimensions (L x W x H):</b>	1030 x 410 x 660 mm (41 x 16 x 26 in)
<b>Total weight:</b>	34 kg (75 lbs)
<b>Power supply:</b>	110-240 V ; 50-60 Hz
<b>Working temperature:</b>	15 - 25° C (59 - 77° F)
<b>Software:</b>	Profile Studio Basic



3-axis positioner - code: 3.400



4-axis positioner - code: 3.401



Vice with tightening up to 42 mm - code: 3.403



Special probes and small hole probes - codes: 3.308 and