Code	Description	
PROTOS C/1	TOOL PRESETTER PROTOS C/1	
PROTOS C/15	TOOL PRESETTER PROTOS C/15	

Quick and accurate determination of tool geometry
Accurate user's friendly construction

Main functions:

- Zero-setting
- Automatic conversion for mm⇔inch measurements
- Measurements:
  - Height calculation
  - Radius calculation
- LCD readout
- Adapters to other chucks available upon request

Technical data:

Measuring range X Axis (diam)	300 mm
Measuring range Z Axis (height)	285 mm
Reading system	Electronic scales
Scale resolution	0,01 mm
Chuck connection	ISO 40 for Protos C/1 ISO 50 for Protos C/15
Chuck rotation	☞
Base in high quality aluminium	☞
X / Z axis manual movements	☞
Overall dimensions	420x150x610 mm

Code	Description	
PROTOS P	**TOOL PRESETTER** **PROTOS P** **Quick and accurate determination of tool geometry**	

Accurate mechanical construction, advanced high-quality electronic components, optical projection system of utmost precision for very bright and clear images on the screen

Main functions:

- Zero-setting available in three options:
  1. with reference master
  2. free positioning
  3. absolute positioning with reference to the optical scales of instrument axes
- Automatic conversion for radius⇔diameter measurements
- Measurements:
  - Height calculation
  - Radius/ diameter calculation
  - Angle determination
  - Internal distance
  - External distance
  - Taper calculation
  - Determination of tool profile radius
- Data storage for up to 2000 tools:
  - Machine tool Reference No.
  - Measured values
- RS232 output to printer and PC or machine tool connection
- LCD readout:
  - Contrast adjustment
  - Automatic stand-by
- Adapters to other chucks available upon request

Technical data:

Measuring range X Axis (diam)	300 mm
Measuring range Z Axis (height)	430 mm
System for tool geometry determination	Optical Projector
Projector screen diameter	135 mm
Optical Magnification	20X
Reading system	Codified optical scales
Optical scale resolution	0,005 mm
Chuck connection	ISO 50
Chuck rotation	✓
Vacuum pump for chuck centring	✓
Base in ductile cast iron	✓
X axis manual movement	✓
Z axis manual movement	✓
Overall dimensions	610x390x800 mm
Voltage	220 V/50 Hz