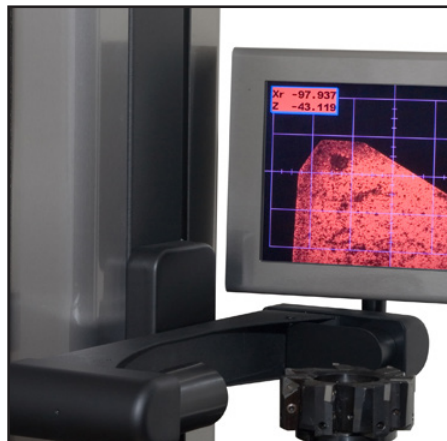# E450N

E450N - OVERVIEW

Our new E450N Tool Presetting machine has been developed as the second level option for our new generation of advanced tool presetting machines.

Designed to be bench mounted the E450N features a ground granite base and column, stainless steel construction and ergonomic design combined with large (212mm x 160mm) TFT Vision System. This system is combined with a Linux based TFT Touch Screen which provides full operator control and selection of options and functions via an intuitive menu system – these new electronics provide operational and functional simplicity that is second to none.

The precision spindle system is fully interchangeable and utilises a one piece cartridge - eliminating the need for adaptors and the errors associated with their use. The new system also provides a vacuum clamping system for positive location and security of the tool location within the spindle.

Also included with our E450N model is our ToolingUp software package. Working via your DNC system ToolingUp converts measured tool data into CNC code for direct loading into the machine controller and associated tool offset pages.

Exclusive software designed for multi-function measuring of many tool features rather than just simply measuring the length and diameter.

- Automatic measurement (Automatic scanning of the tool edge)
- Display of angular grid (1 degree incremental) for checking the tool edge
- Display of reference circles for quick checking of Nose Radius
- Multiple calculation functions
  e.g. calculation for radius from 5 points, angle from 2 lines, or distance between 2 points.

E450N CONSTRUCTION
Bench model
Natural granite base & column
Stainless steel mechanical elements
MEASURING RANGE
X Axis: Diameter of tool ø0 - ø400mm
Z Axis: Length of tool 0 - 500mm
TOOL MEASURE
CNC machine origin management
Toolset management - also via 'tooling-up'
SPINDLES
Interchangeable vacuum clamp spindles
Spindles: ISO / BT / IT / HSK / Capto / VDI
MIN. READING INCREMENT
X Axis: 0.001mm (radius / diameter)
Y Axis: 0.001mm
OPERATING SYSTEM
Flash® 32 bit Micro Processor
Linux operating system
Data storage on SD card
2 x RS232 (1 printer port & 1 PC port)
POWER
AC 100~230V
VISION SYSTEM
10.4" TFT LCD colour monitor
5.7" TFT LCD colour touchscreen
35 x magnification
Auto measure X & Z focus control bars