

E46L

TOOL PRESETTER

Advanced Measure & Inspect | Floor Model



- ▶ Advanced measurements & inspections
- ▶ Precision spindle system fully interchangeable, one piece cartridge eliminates the need for adapters and the errors associated with their use
- ▶ Automatic tool clamping
- ▶ Elbo Controllii proprietary high resolution vision system
- ▶ Elbo Controllii designed optical scales and slideways guarantees the highest degree of accuracy
- ▶ Can store unlimited NC machine specifications and tool sets
- ▶ Advanced Tool Data Management Software for basic tool measurement, inspection, and label printing to high end networking integration, geometric scanning and tool DXF profile acquisition





PRECISION SPINDLE SYSTEM

Fully interchangeable precision spindle system with cartridges available for all types of machine tapers: CAT, ISO, BT, HSK, CAPTO, VDI One-piece cartridge eliminates the need for adapters and the errors associated with their use. Elbo Controlli's patented Spindle-holder identification system (SP-ID) with NFC technology automatically identifies the spindle holder in the presetting machine.



NATURAL GRANITE

All Elbo Controlli tool presettters utilize natural granite for the column and base to insure the best thermal stability. Larger granite base for increased accuracy and rigidity.



SOFTWARE

Also included is DNC Connection software that allows the transfer of the tool offset data directly into the tool table of the numerical control (depending on CNC controller capabilities)

E46L CONSTRUCTION

Integrated Stand
Natural Granite Base & Column
Stainless Steel Mechanical Elements
Dimensions 1,282mm L x 672mm D x 1,874mm H
Weight 295Kg / 650 lbs.

AXIS MOVEMENT

X Axis (Radial) = 200mm / 7.87in
X Axis (Diameter) = 400mm / 15.75in
Z Axis = 600mm / 23.62in
Resolution X & Z Axis - 1 µm
Manual Rapid & Fine Adjustment Movement (Zero Backlash)

SPINDLE

Interchangeable Rotating Spindles
Pneumatic Mechanical Brake with Radial Compensation of Clamping Force
Tool Clamping - Automatic Pull-Stud Recognition
Spindle-holder identification system (SP-ID)
Concentricity - 2 µm
Maximum Tool Weight 40kg / 88 lbs.

OPERATING SYSTEM

Full HD LCD 22" Color Touchscreen Monitor
Intel I3 Quad Core Processor
UBUNTU 14.04 LTS LINUX operating system
SSD Data Storage
4 USB ports (keyboard, mouse, printer and one spare)
1 Network LAN port

CAPABILITIES

Optical Autofocus to determine largest and widest X + Z dimensions
Measure - radial and axial runout
Measure - Full Screen Auto Targeting
Measure - X&Z Axis Focusing Control Bar
Measure - Automatic Radius & Angle Computing Cycle
Measure - Radius/Diameter, MM/Inches,
Absolute/Incremental Modes
Measure - Analog & Digital Visualization
Measure - Tool Profile Photograph - Difference Between Cutting Edges
Inspection - 4 Color Tool Inspection

VISION SYSTEM

C-MOS sensor - Framed image area 10 x 10mm.
32X Magnification
Cutting Edge Inspection for wear and tear
Diascopic Illuminator for Greater Contrast and Enhanced Clarity for Geometrical Profiling when Measuring
Episcopic Illuminator to Best Expose Tool Surfaces for Inspection

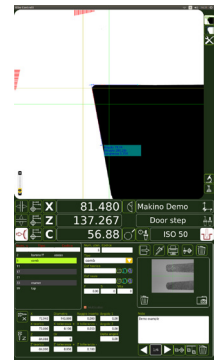
PRESETTER SOFTWARE

Tool List Management / Tool Sets & Post / Tool Graphics Processor Universal Generator
Printable tool set report
Theoretical measurements and tolerances management.
Free software upgrades



ERGONOMICALLY DESIGNED CONTROLS

Ergonomically designed micrometric hand wheels. Micrometric Adjustments - 2 fine adjustment hand wheels for the X and 1 fine adjustment hand wheel for the Z axis. Precise and smooth fixed-target and auto adjustment measurements. The axis can be moved simultaneously or independently.



USER FRIENDLY INTERFACE

Ergonomic design combined with a 22" HD Color LCD Touch Screen. This system provides full operator control and selection of options and functions with simplicity that is second to none. Unit comes standard with 2 graphical icon layouts. ISO 7000 or Elbo Controlli's Graphical Interface.

SLIDEWAYS / OPTICAL SCALES

Elbo Controlli designed optical scales incorporated with a double rail system for the X axis movement with 3 double recirculating ball bearing sliding block grant the highest degree of accuracy. Both X & Z axes have a resolution of 1 µm.

PROPRIETARY VISION SYSTEM

High resolution camera system utilizing Elbo Controlli's realized technology. The double lit, variable LED arrangement in combination with a C-MOS sensor and telecentric lens produces the most accurate lighting system available.

**MECHANICS
ELECTRONICS
OPTICS
SOFTWARE**
by

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