

KOMA



E46L TW

elbo controlli 

E46L TW CONSTRUCTION

Integrated Stand with 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 - Radius/Diameter, MM/Inches,

Absolute/Incremental Modes

Measure - Analog & Digital Visualization

Measure - Tool Profile Photograph - Difference Between Cutting Edges

VISION SYSTEM (MAIN CAMERA)

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

VISION SYSTEM (SECOND CAMERA)

C-MOS sensor - Framed image area 4 x 4mm.

90 degree, rotating camera support

60X Magnification 2x and 4x digital zoom

Cutting Edge inspection for wear and tear

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

FEATURES



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 presetters utilize natural granite for the column and base to insure the best thermal stability. Larger granite base for increased accuracy and rigidity.

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.

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)

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. The new E46LTW is equipped with 3 cameras for the front view and side view of the tool. The system allows tool manufacturers and tool regrinders to measure all the geometrical features of the tool.



E46L TW

ADVANCED LARGE CAPACITY. TWIN CAMERAS. FLOOR MODEL.





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