KOMA

68B

elbo controlli

68B CONSTRUCTION

Floor Model

Natural Granite Base & Column

Stainless Steel Mechanical Elements

Dimensions - 1,865mm L x 687mm D x 1,957mm H

Weight Z 600 - 300 Kg / 660 lbs / Z 800 - 310 Kg / 682 lbs

AXIS MOVEMENT

X Axis (Radial) = 300mm (11.81in)

Z Axis = 600mm (23.6in) or 800mm (31.50in) Max.

Resolution X & Z Axis - 1 μm

Double Pneumatic Axis Clamping

Servo Motor Rapid & Fine Adjustment Movement

SPINDLE

Interchangeable ISO40 or 50 for Different Tapers

Optional Interchangeable Holders Available - HSK, VDI, Capto

Pneumatic Mechanical Brakes with Radial Compensation of Clamping Force

Concentricity - 2μm

Maximum Tool Weight 50kg / 110 lbs.

Tool Clamping - Automatic Pull-Stud Recognition

OPERATING SYSTEM

15" Color TFT Saga Monitor / Keyboard / Mouse

Celeron M Processor

Connectivity - 1 USB / 10/100 Ethernet Card / Integrated WiFi

Ubuntu LINUX

Printer Support

Capable of Storing Unlimited Machine Origins & Tool Specifications

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

Telecentric Lens for Accurate Dimensional Measurements / 1.3 Mega Pixel / C-MOS Image Sensor with 0.001mm resolution

Diascopic Illuminator for Greater Contrast and Enhanced Clarity for Geometrical Profiling when Measuring

Episcopic Illuminator to Best Expose Tool Surfaces for Inspection

Cutting Edge Inspection for wear and tear

30x Magnification

TD SIX SOFTWARE

Tool List Management / Tool Sets & Post Processor Universal Generator

CNC Machine Origin Management

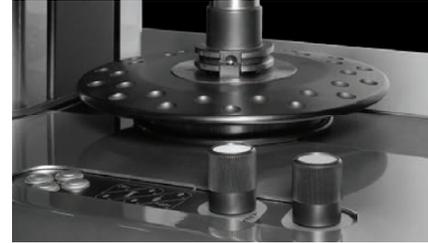RFID Tool Detection Designed for Systems Like Balluff, etc.

Free Software Upgrades

PRODUCT DESIGN

ERGONOMICALLY DESIGNED CONTROL

Step-by-step motors servo control the axes movements and provide two operation modes: rapid (2.5 m/min) and fine micrometric mode (positioning accuracy 0.8 μm).


MICROMETRIC MOVEMENTS

Micrometric movements (electronic handwheels) are used to collimate the tool profile and to acquire the measurement. The automatic clearance recovery system is patented.

PATENTED SPINDLE

Spindle body with double ball retainer. Patented interchangeable spindle (run-out error < 2 μm). Patented universal shank locking system. Rotation brake. Angular index.
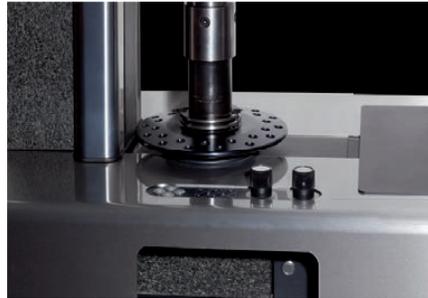
NATURAL GRANITE

Base and column made of natural granite. The low thermal inertia of the material assures non-deformability in time and the possibility to directly install the machine in the workshop.

NEW FEATURES

ELECTRONIC CONTROL

A powerful PC with Linux operating system for the integrated management of the functions of measurement / inspection tools, machine origins and toolsets. Ease of use thanks to the integrated touch screen.

LARGE 15" TOUCH SCREEN

Large 15" touch screen for the best visualization of the tools and simple management functions to operate the measuring machine.

68B

ADVANCED LARGE CAPACITY. FLOOR MODEL.