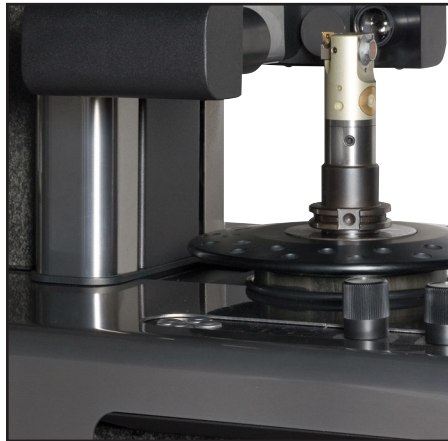# AMON RA

elbo controlli

AMON RA - OVERVIEW

Our 'Top of the range' Amon Ra Tool Presetting machine has been developed from the ground up as the 'top level' specification option for our new generation of advanced tool presetting machines. Compared to the lower specification models, all quite capable in their own right, the construction, performance and design (particularly the electronic and software capability) provides considerable advantages.

Designed completely free-standing on its own integral base; Amon Ra features ground granite and stainless steel construction combined with a large Twin Screen digital camera system with full industrial PC architecture - these electronics and software provide operational and functional simplicity that is second to none.

The high precision spindle system is fully interchangeable and utilises a one piece cartridge with full mechanical tool clamping (pneumatically drawing the tool pullstud into the taper cone) - eliminating the need for adaptors and the errors associated with their use. The construction of this system has to be 'seen to be believed' and is more akin to a machine tool spindle than a tool presetter spindle!

All axis movements on the Amon Ra (like it's sister the Ankh) are servo controlled with absolutely no operator contact with the column. This drastically increases machine accuracy and repeatability over similar machines which incorporate the movement via a manual handle mounted on the column.Integrated within the innovative software package is a complete tool management system and network port. 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.

Further capabilities include the ability to import and export .dxf CAD profiles for detailed checking and comparison on the twin screen camera system.

Q-Presetter TDM Software with Elbo Controlli Realized Vision System

- The software performs basic tool management, inspection and label printing to high-end networking integration with geometric scanning and DXF profile acquisition
- DXF files can be superimposed in real-time to check a tool's outline and whole tool profiles can be captured and exported in DXF format
- Also included is an innovative measurement function for angle head tools to calculate the radius / diameter of the tool, while coordinating the axis rotation center.

AMON RA QUICK FACTS
Free standing model
Natural granite base & column
Stainless steel mechanical elements
MEASURING RANGE
X Axis: Diameter of tool ø0 - ø600mm
Z Axis: Length of tool 0 - 600mm
TOOL MEASURE
CNC machine origin management
Built-in toolset management
SPINDLES
Patented interchangeable spindle
Spindles: ISO / BT / IT / HSK / Capto / VDI
MIN. READING INCREMENT
X Axis: 0.001mm (radius / diameter)
Y Axis: 0.001mm
OPERATING SYSTEM
Ubuntu Linux with printer support
Integrated WiFi & 10/100 Ethernet Card
Industrial PC with Celeron M® Processor
19" TFT LCD monitor, keyboard & mouse
POWER
AC 100~230V
106V VISION SYSTEM
10.4" TFT LCD colour monitor
1280 x 1024 resolution
35 x magnification, 1.3 Mega Pixel (USB)
Multiple measure functions, cutting edge inspection & geometric scanning