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Tool PreSetters 2012 Range

THE SECRET **BEHIND** THE WORLD'S BEST ENGINEERING



E236N

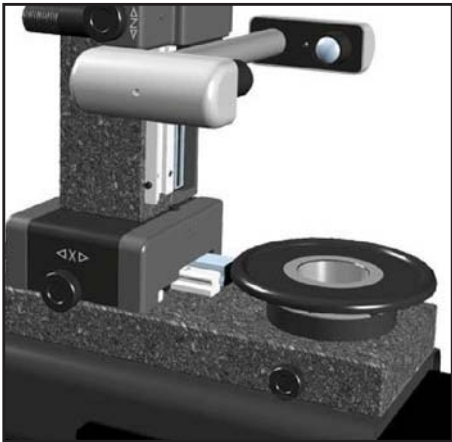
E236N - OVERVIEW

Our new E236N Tool Presetting machine has been developed as the entry level option for our new generation of advanced tool presetting machines.

Designed to be bench mounted the E236N features a ground granite base and column, stainless steel construction and ergonomic design combined with a 5.7" TFT LCD Touch Screen. This system provides full operator control and selection of options and functions via an intuitive icon system allowing 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.

Also included with our E236N model is our DPP software package. Working via your DNC system DPP converts measured tool data into CNC code for direct loading into the machine controller and associated tool offset pages (1st twenty uses free - Dongle option).



Exclusive operating software designed to be easy and straight forward to use straight out of the box!

- Simple and intuitive icon driven menu system
- Automatic measurement (Automatic scanning of the tool edge with focus indicators)
- Display of reference circles for quick checking of Nose Radius
- Multiple machine origins - 9 total
- Multiple tool sets - 9 total (99 tools for each)
- Tool data stored; T, Lx, Lz and R
- Optional print mode (in conjunction with 'S'Print' compact label printer) allows printing of labels for specific individual tools
- DPP capability. Installed on Windows PC via USB connection. This allows for the backup of machine & tool data; post processing of tools stored on presetter; updating of the presetter operating BIO
- Free for the life of the machine!

E236N QUICK FACTS
Bench model
Natural granite base & column
Stainless steel mechanical elements
MEASURING RANGE
X Axis: Diameter of tool $\varnothing 0 - \varnothing 260\text{mm}$
Z Axis: Length of tool $0 - 360\text{mm}$
TOOL MEASURE
9 x origins
9 x toolsets
SPINDLES
Fixed or interchangeable spindle
Spindles: ISO / BT / IT / HSK / Capto / VDI
MIN. READING INCREMENT
X Axis: 0.001mm (radius / diameter)
Y Axis: 0.001mm
OPERATING SYSTEM
RISC 32Bit Processor
Integrated vision system. C-MOS Sensor
1 x RS232 printer port
1 x USB PC link port
POWER
24V
VISION SYSTEM
5.7" TFT LED Touchscreen Matrix Display
90mm x 120mm image size
20 x magnification
Auto measure X & Z focus control bars



E450N

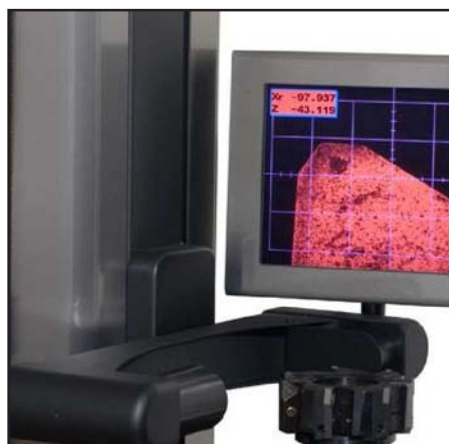
E450N - OVERVIEW

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 QUICK FACTS

Bench model

Natural granite base & column

Stainless steel mechanical elements

MEASURING RANGE

X Axis: Diameter of tool $\varnothing 0 - \varnothing 400\text{mm}$

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

5.7" TFT LCD colour touchscreen

Flash® 32 bit Micro Processor with Linux

256Mb data storage on SD card

2 x RS232 (1 printer port & 1 PC port)

POWER

AC 100~230V

206V VISION SYSTEM

10.4" TFT LCD colour monitor

640 x 480 Resolution

C-MOS Sensor, 35 x magnification

Auto measure X & Z focus control bars



KHYAN

KHYAN - OVERVIEW

This tool presetting machine has been developed as a more cost effective equivalent of our top specification Amon Ra presetter.

Designed completely free-standing on its own integral base; Khyan features ground granite and stainless steel construction combined with a large Twin Screen digital camera system with full industrial PC architecture - these new electronics and software 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. Incorporated within the spindle is our innovative universal mechanical clamping system with electronic tool clamping confirmation.

Integrated within the innovative software package is a complete tool management system and network port. Working via your DNC system this can convert measured tool data into CNC code for direct loading into the machine controller and associated tool offset pages. Also included with the system as standard is full WI-FI connectivity.

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.

KHYAN QUICK FACTS

Free standing model

Natural granite base & column

Stainless steel mechanical elements

MEASURING RANGE

X Axis: Diameter of tool $\varnothing 0 - \varnothing 400\text{mm}$

Z Axis: Length of tool 0 - 500mm

TOOL MEASURE

CNC machine origin management

Built-in toolset management

SPINDLES

Interchangeable mechanical clamp spindles

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

17" 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



KHYAN-TW

KHYAN TW - OVERVIEW

This tool presetting machine has been developed as a more cost effective equivalent to competitor tool inspection machines.

Designed completely free-standing on its own integral base; Khyan-TW features ground granite and stainless steel construction combined with a single high-definition screen, linked to two outstanding optical cameras with digital zoom capabilities. The system employs industrial PC architecture providing operational and functional simplicity that is simple to learn and even incorporates additional capabilities focussed specifically on tool geometry .

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. Incorporated within the spindle is our innovative universal mechanical clamping system with electronic tool clamping confirmation.

Integrated within the innovative software package is a complete tool management system and network port. Working via your DNC system this can convert measured tool data into CNC code for direct loading into the machine controller and associated tool offset pages. Also included with the system as standard is full WI-FI connectivity.

Further capabilities, on both cameras, include the ability to import and export .dxf CAD profiles for detailed checking and comparison on the full high-definition 23" screen.



90 degree swivel secondary camera system (TW_{in})

- The innovative 90° swivel secondary camera system allows any cutting tools to be viewed from the top (tool end) and also from the side of the tool
- It is possible to measure the tool in the traditional manner with the traditional first camera and then to check / inspect the geometry of the tool at up to an incredible 70x zoom with the second swivel camera
- Using digital enhancements on both cameras it is possible to achieve digital zoom of 56x & 112x on the first camera plus 140x and 280x on the secondary swivel camera

KHYAN TW QUICK FACTS

Free standing model
Natural granite base & column
MEASURING RANGE
X Axis: Diameter of tool $\varnothing 0 - \varnothing 320\text{mm}$
Z Axis: Length of tool 0 - 500mm
TOOL MEASURE
CNC machine origin management
Built-in toolset management
SPINDLES
Interchangeable mechanical clamp spindles
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
23" Full HD monitor, keyboard & mouse
POWER
AC 100~230V
VISION SYSTEMS
Camera One <ul style="list-style-type: none">- 28x optical magnification- 1.3 Mega pixel CMOS-Sensor (10 x 10)
Camera Two (swivel) <ul style="list-style-type: none">- 70x optical magnification- 1.3 Mega pixel CMOS-Sensor (4 x 4)- 3.9 μm / pixel
Both cameras have digital zoom (2x & 4x)
Multiple measure functions, cutting edge inspection & geometric scanning



AMON RA

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 $\varnothing 0 - \varnothing 600\text{mm}$

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



HATHOR

HATHOR - OVERVIEW

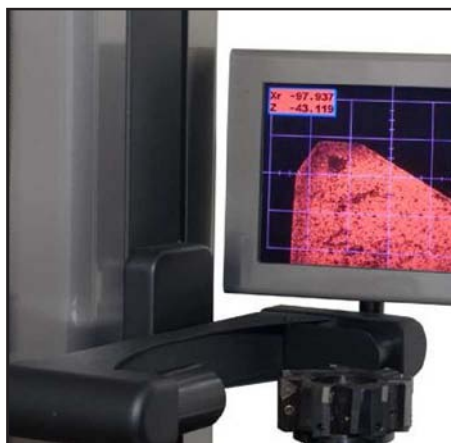
Our new Hathor Tool Presetting machine has been developed as the second level option for our new generation of advanced tool presetting machines.

The free standing Hathor presetter 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 mechanical clamping system for positive location and security of the tool location within the spindle.

Also included with the Hathor 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.

HATHOR QUICK FACTS

Free standing model

Natural granite base & column

Stainless steel mechanical elements

MEASURING RANGE

X Axis: Diameter of tool $\varnothing 0 - \varnothing 400\text{mm}$

Z Axis: Length of tool 0 - 500mm

TOOL MEASURE

CNC machine origin management

Toolset management - also via 'tooling-up'

SPINDLES

Interchangeable mechanical clamp spindles

Spindles: ISO / BT / IT / HSK / Capto / VDI

MIN. READING INCREMENT

X Axis: 0.001mm (radius / diameter)

Y Axis: 0.001mm

OPERATING SYSTEM

5.7" TFT LCD colour touchscreen

Flash® 32 bit Micro Processor with Linux

256Mb data storage on SD card

2 x RS232 (1 printer port & 1 PC port)

POWER

AC 100~230V

206V VISION SYSTEM

10.4" TFT LCD colour monitor

640 x 480 Resolution

C-MOS Sensor, 35 x magnification

Auto measure X & Z focus control bars



ANKH

ANKH - OVERVIEW

The Ankh Tool Presetting machine has been developed as the 'entry level' higher spec option for our advanced tool presetting machines.

Designed completely free-standing on its own integral base; Ankh features ground granite and stainless steel construction combined with a large digital camera and touch screen menu system – these new electronics 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 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.

Also included with our Ankh 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.

ANKH QUICK FACTS

Free standing model

Natural granite base & column

Stainless steel mechanical elements

MEASURING RANGE

X Axis: Diameter of tool $\varnothing 0 - \varnothing 600\text{mm}$

Z Axis: Length of tool 0 - 600mm

TOOL MEASURE

CNC machine origin management

Toolset management - also via 'tooling-up'

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

5.7" TFT LCD colour touchscreen

Flash® 32 bit Micro Processor with Linux

256Mb data storage on SD card

2 x RS232 (1 printer port & 1 PC port)

POWER

AC 100~230V

506V VISION SYSTEM

10.4" TFT LCD colour monitor

640 x 480 Resolution

C-MOS Sensor, 35 x magnification

Auto measure X & Z focus control bars

STANDARD STOCK MODELS

E236N

E450N

KHYAN

KHYAN-TW

AMON RA

OPTIONAL MODELS (SUBJECT TO MANUFACTURING LEAD TIMES)

SETHY (Budget E450N)

HATHOR

ANKH



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