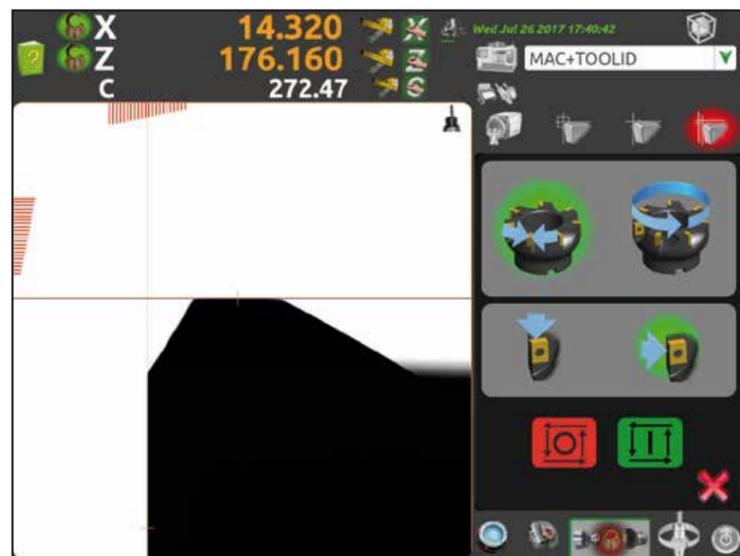


# HathorSIX A Autofocus



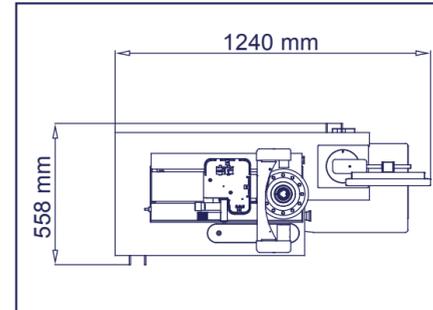
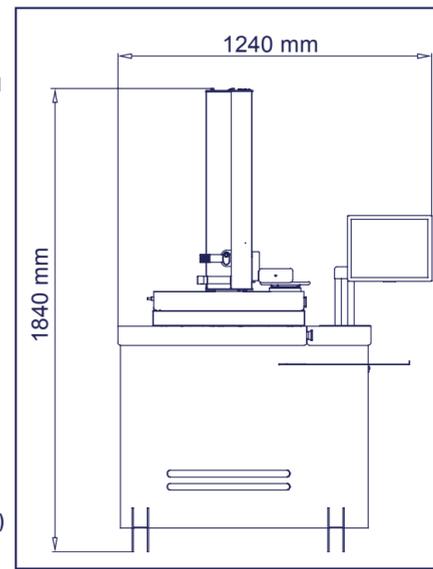
**Autofocus** function: all new operating mode and capability that allows the machine to measure automatically the tools, without operator presence.



Possibility to acquire X and Z values with automatic recognition of the cutting edge.  
Possibility to set the measuring priority for X or Z axis.  
Absolute maximum measurement automatic searching with complete revolution of the spindle.

## TECHNICAL FEATURES

- Measuring range: diameter max 400 mm (radius 200 mm); height max 600 mm
- Machine structure in stainless steel offering high mechanical and long life, floor mounted with self-levelling supports in non-deformable steel
- Base and column made of ground granite: linearity max error 2 µm/Mt certification with Taylor Hobson res.1 µm/Mt electronic millesimal level
- ISO/BT/HSK/VDI ..... etc. Interchangeable rotating spindle-holder (to be selected) max run-out error < 2 µm
- Spindle index in four angular positions: 0°-90°-180°-270°
- C Axis display: spindle holder angular position with 0.01° resolution
- Motor providing automatic rotation of the spindle with pneumatic engagement or the motion transmission for zero backlash (patented system)
- Spindle-holder Identification System (SP-ID) for additional spindle-holder, mounted on the interchangeable spindle
- Double vault arc prismatic slideways: n°2 X axis slideways, n°1 Z axis slideway
- Double re-circulating ball bearing slides (three in total), lubricated for life (preloading slides/slideways: P/H class)
- Universal electro-mechanical tool clamping (ISO/BT only)
- Pneumatic-mechanic braking of the spindle-holder rotation
- Constant load Archimedean spiral spring (as opposed to a mass counter-balance system)
- Vision-system for tool measuring and cutting inspection consisting of:
  - C-MOS sensor - Framed image area 6,4 x 6,4 mm
  - Magnifications about 30X
  - Bi-telecentric lens
  - Red light episcopic leds illuminator with ring lens, red light diasopic led puntiform illuminator
- Machine operator interface through:
  - TFT 15" colour Touch Screen.
  - Intel I3 Quad Core Processor
  - UBUNTU 14.04 LTS LINUX operating system
  - Data storage on solid state disk SSD
  - X and Z axes lock management for a translation speed lower than 2 mm/sec
  - Three USB ports and one LAN networking port
- Standard software:
  - CNC machine origin and spindle adaptor management.
  - Tool list creation and/or single tool.
  - Automatic change of CNC machine origin allocation.
  - Td SIX (Tool Data SIX) to manage:
    - Tools set and Post Processor universal generator;
    - Magnetic chip code-holders (Balluff for example, hardware not included);
    - Printable tool set report;
    - Theoretical measurements and tolerances management.
  - Spindle holder auto rotation with automatic tool measurement cycles
  - TLA technology (Tool Link App) for tool data transmission directly to numerical control memory (DNC)
  - Ready for TID infrastructure for tool identification with Datamatrix code
- ELBO CONTROLLI Linear Transducers in optical glass type SLIDE 371 certified HP laser:
  - Axes resolution: X= 1 µm, Z= 1 µm.
- Anti-dust cover provided for when not in use.
- Overall dimensions: Length = 1240 mm, Height = 1840 mm, Depth = 558 mm
- Net weight: 190 Kg



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