

NEW

ZAYER shows the **30° AUTOMATIC HEAD**

It is a two CNC axis controlled head that can work in 5 axis machining both positioning and continuous. The arrangement of the two axis allows to machine in negative angles up to 30° with regards to the ram.

This head is an evolution of the Zayer 45° automatic head used with great success by a considerable number of users around the world. Maintaining the features that gave prestige to 45° head, improvements have been incorporated to meet new market demands.

- Working in continuous:
 - Allows machining with simultaneous movements of the 5 axis for complex surfaces
 - Allows machining in positioning with rapid movements with the head unclamped in order to improve the machining times when drilling in different angles, etc.
- Positioning in negative angles: it allows to work in negative angles (towards the ram) with a maximum of 30 °
- Turning point of front head and elbow on the position of the tool: the axis of the head has been moved backwards so when the head turns, the tool remains at the same point. This improves the accuracy preventing sudden movements of the machine axis when the angles of the tool are changed.
- Accessibility for machining inside corners: The arrangement of the axis allows machining the internal corners without the head colliding with the sidewall.

Up to now the 5 axis machining jobs were made with milling heads with rotary axis at 90° (orthogonal or twist). This milling head adds the following advantages.

- Higher accuracy: The turning point of the cutting tool allows higher accuracy because does not need sudden movements of the machine axis to adjust to the geometry of the surface.
- Higher rigidity: The angle of the front head and elbow distribute the cutting forces in an optimal way to avoid direct forces over the clamping system or the axis mechanisms.
- Greater accessibility: the smaller size of the milling head allows the head to get inside limited areas. The arrangement of the axis allows machining the internal corners without the head colliding with the sidewall



GANTRY TYPE MACHINING CENTER, NEOS MODEL

This machine is provided with the 30° automatic head and corresponds to the new range of ZAYER machines.

This new range commits to modern machines that increase the productivity and accuracy by minimizing consumption through optimizing the design of the moving structural parts and drives.



The NEOS machine has the best features of accuracy and very high dynamics. All axis, both linear and rotary, are with double motor drive and direct reader allowing acceleration (up to 5 m/sec²) speeds (50 m/min.)

This machine is equipped with all the technological developments that have given prestige to ZAYER machines all over the world.



BOX

BOX IN BOX: ram supported by all sides with numerous points of support to obtain a great rigidity.



VDP

VOLUMETRY: symmetrical and robust design to ensure the tool position in all the working volume of the machine.



ROLL

ADJUSTABLE ROLLER PACKS: they allow a robust support and easy adjustment in the guiding ram.



iCAL

iCAL: it is possible to adjust the machine automatically.



ECO

ECO: residual oils have been eliminated by changing to grease. Driving systems optimized to reduce energy consumption.



0.001°

Head 360.000 positions: 30° head with continuous rotation and positioning.



ZMH

Exchangeability of heads: Selection of milling heads according to the type of machining.

In this model it is possible to change the dynamic adjustment of the machine from the CNC program. In this way it will allow the machine to work optimizing speed, finishing or accuracy depending on the interested in each moment.