



Neptune 4020 5-Axis

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Product Description

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NEPTUNE 3

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Product Description

Neptune 3 - 3 Axes Waterjet Modular structure machine is made up of a series of rigid pedestals (modules), subjected to heat treatment, with structure of the type to "drawbridge" with fixed table. The modules of multiple strokes by the two / three meters, thanks to its particular constructive concept are connected to each other until reaching the required stroke in Y; equally tubs, and always with modular worktops self-supporting, are inserted and installed between the two shoulders. The Mobile Bridge flowing in the longitudinal direction (Y axis), supported by two trolleys lateral (right-left) which slide guides with double ball. At the edge of the bridge runs the X carriage (transverse movement): The vertical axis Z positioning (controlled by CN) is on board the wagon X. One of our characteristics concerning the handling of the bridge based on 'setting "gantry mastermaster" of the axis Y1-Y2: two brushless motors controlled by the CNC independently manage the synchronization of the two engines of parallel axes (Y1-Y2). The whole structure "Bases, Front, Bridge" is heat-treated to ensure over time the appearance of kinematic structural - This approach allows more accelerations / decelerations, control of orthogonality along its entire dimension X-Y1/Y2, then constant accuracy over the work area. The raceways are made with precision guides and skates double ball bearing, the transmission of motion with rectified racks tilted teeth (19 ° 42 "41 ') to ensure the accuracy and repeatability even on very long runways. We guarantee an accuracy class H5. The movements of the axes of the machine are fully protected by special crankcase labyrinth and waterproof bellows which prevent water, dust of abrasive, and any foreign matter intrusion between the elements of the handling. Technical features: Structure with mobile Bridge Y AXES (mm) 5400 (213") X AXES (mm) 3200 (126") Z AXES (mm) 220 (8,66") -CNC handling Brushless digital Gantry Y1-Y2 Brushless digital X Brushless digital Z-C-A Speed 0 40.000 m/m Tolerance +/- 0.05 m/m +/- 0.05 m/m +/- 0.05 m/m Positioning repeatability +/- 0,005 m/m +/- 0,005 m/m +/- 0,005 m/m Planetary gearboxes 1/10 NM N° 2 Y1-Y2 1/10 NM absolute. TANK TABLE WORKING The system is supplied with a water table to curb the power of the jet, and deaden the noise. The tub support pieces is separated from the structure and is supported by legs 12 for each module (3x2), and is made of sheet media with the center of the tub-support blades. The blades of support are removable individually in order to be able to replace only the worn-out parts from the jet. The comb blades are available in different models depending on the type of material to be cut: all models have been designed to ensure a minimum return of the jet (reflux) and to allow a simple and partial replacement when needed at low cost.

Normally the comb support blades are in the shape of "Wave", such as to reduce the mechanical backflow of water