



GRANI ROC

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PRODUCTO



MEM Profiling in a factory in Spain.

DIAMOND WIRE SAW CUTTING MACHINE

Type: Factory / Stationary
Model: MEM Profiling
Purpose: Blocks dressing
Slabbing
Profiling

The MEM Profiling machine from GRANI ROC is designed for a high precision dressing of blocks, slabbing and profiling production from stone blocks. The machine is mobile and all the movements are controlled by a CNC panel board. The friendly automation and control of all the systems of the machine along with the characteristic of being mobile, make the machine being very versatile and time saving in loading and unloading operations as well as changing the thickness and shapes to be cut.

- The movements of the machine are controlled by a 2 axes CNC. The data can be input directly in the CNC or by an ISO code file generated by the CAD-CAM software GraniCAD supplied with the machine. This software allows to design the pieces to be profiled, to transfer the *.dxf files to the CNC, to define the parameters of cutting in each step of the cut (speed of cutting, speed of the wire, etc.) and to simulate the path of the wire during the cut.
- Once the profiling file has been input in the machine board, the operator will have the possibility of modifying parameters such as cutting speed, wire speed with a full system of security on possible water shortage, wire broken, wire short or any kind of failure the machine may have.
- The machine has an electric system for bringing closer the small guide wheels that allows the operator to adjust the cutting width until the one desired, reducing the arch value when cutting with diamond wire and thereby increasing its speed.
- The tensioning of the wire is made pneumatic and automatically with indication of wire breakage or shortage. In this way the machine controls automatically the down movement of the machine, adapting it to the optimum working tension of the wire, avoiding possible breakages and optimizing its behaviour.
- All the main pulleys –drive and tensioning– and guiding wheels are protected by rubber liners in order to get the necessary traction of the wire. Such liners can be easily changed once they are worn out
- The machine is equipped with an automatic cooling system for the diamond wire with detection of constant water pressure. This system stops the machine in the case of lack or insufficient water flow, protecting the tool and preventing possible deterioration or damage of the equipment.
- All the up and down screws are protected with hoods against dust and water
- The machines has an automatic greasing system that injects lubricating liquid in the critical parts of the machine ensuring their correct functioning and the long life of the spare parts.
- The control panel is situated in the lateral part of the machine and moves with it. It has all the drive and protection components and devices of all control and safety equipment of the machine. All these components are standard, allowing easy and quick maintenance and / or replacement.

DESCRIPTION OF THE MACHINE

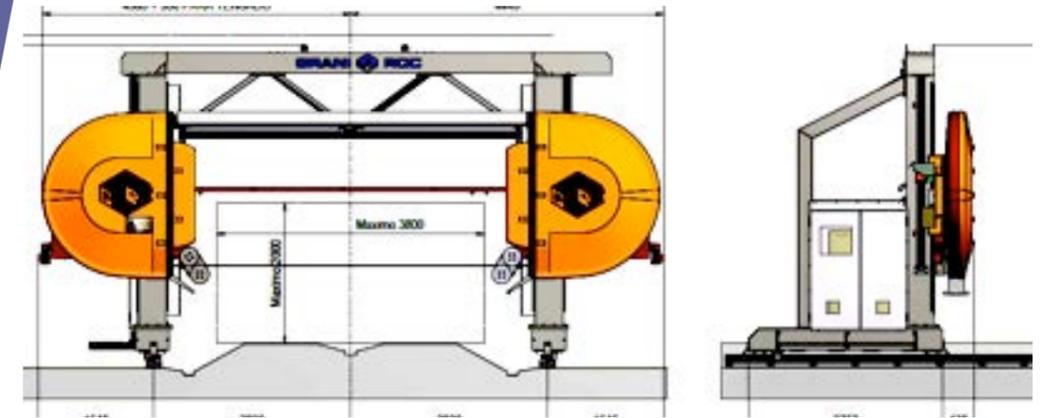


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Front and side views of the MEM Profiling machine from Grani Roc.



TECHNICAL DATA

Maximum useful cutting width	3.800 mm
Minimum useful cutting width	1.800 mm
Maximum height of the block	2.000 mm
Downfeed speed of the wire	0 – 675 mm/min
Forward speed of the machine	0 – 3.000 mm/min
Linear speed of the wire	0 – 40 m/s
Length of the wire (approx.)	19,65 m
Diameter of the guiding wheels	250 mm
Total width of the machine (approx.)	9.200 mm
Total height of the machine (approx.)	4.800 mm
Total length (approx.)	Rails + 2.000 mm
Total weight (approx.)	7.500 kg
Power of the main motor	15 kW
Total installed power	21 kW
Guiding wheels approaching system minimum / maximum	2.000 / 4.000 mm
Guiding wheels approaching system	Electric
Electric connection	3 x 380 V + T + N
Diameter of the main wheels	6 m
Water connection	1" gas
Flow of water	20 l / min a 4 bar