The Two-Wires Saw Machine of Grani Roc is designed for a high slabbing production from stone blocks. The machine is mobile and has an automatic system for thickness changing. These characteristics make the machine being very versatile and time saving in loading and unloading operations as well as changing the thickness of each cut. In this machine the user can input up to 10 different measurements for the thickness of the slabs and the machine will move automatically the wires and also will adapt the movement of the trolley to obtain the desired cuts.

- The bridge structure and pillars of the machine are built in laminated steel. All surfaces of contact between the different parts are machined for guaranteeing high precision in assembly and also in the cutting process.
- All the steel elements of the structure are subjected to a surface finishing consisting of a deep cleaning and degreasing treatment, a metallization treatment and corresponding protective layers and painting. These treatments enhance the durability of the machine against aggressive weather and working conditions.
- The main motor is direct in the main pulley, and it is controlled by an electronic frequency variator –inverter-, that permits to apply progressive linear speed to the wire and its adjustment to optimize the behaviour and performance of the tool.
- The tensioning of the wire is made pneumatic and automatically and independent for each wire, with indication of wire breakage or shortage.
- The machine has an automatic system for adjusting the distance between wires, instead of having manual devices or having to remove all the wheels manually for changing the thickness of the slabs to be cut.
- 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 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.
- The machine has its own mobile compressor, necessary for the pneumatic system for tensioning the wire.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Product</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Factory / Gantry / Multiwire</td>
</tr>
<tr>
<td>Number of wires</td>
<td>2</td>
</tr>
<tr>
<td>Model</td>
<td>DUOMATIC GANTRY</td>
</tr>
<tr>
<td>Purpose</td>
<td>Slabbing</td>
</tr>
</tbody>
</table>

**Useful cutting width** | 3,800 mm
**Maximum height of the block** | 1,980 mm
**Minimum thickness between wires** | 20 mm
**Maximum thickness between wires** | 120 mm
**Thickness controlling system** | Automático
**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.)** | 18,65 m
**Total width of the machine (approx.)** | 9,000 mm
**Total height of the machine (approx.)** | 5,100 mm
**Total length (approx.)** | Rails + 2,000 mm
**Total weight (approx.)** | 9,000 kg
**Power of the main motor** | 22 kW
**Total installed power** | 29 kW
**Electrical connection** | 3 x 380 V + T + N
**Water connection** | 1” gas
**Water flow** | 40 l / min a 4 bar