



# MINING & QUARRYING EQUIPMENT

Equipment, accessories & expansive mortar for mining, drilling, quarrying and stone cutting



### Diamond Wire

Available for Accessories  
 Quarry: Rubberised / Stationary: Plasticized  
 Beads Granite and Marble 11x6  
 Joints 8 H 20 and 9 H 25  
 Crimp Machine, Tool case, Head (complete) and  
 MK 8 Kit for crimp machine and spares  
 Diamond wire sawing machines  
 Standard Pulley i320mm or 400mm for diamond wire.  
 Flywheel Rubber for diamond wire sawing machines  
 Springs for assembling diamond wire for marble sawing



**Spares for Rock Drill (Complete range available)**



### Diamond Blades

**Available in:**

- Turbo/Turbo Wave 115mm / 230mm
- Continuous 150mm / 180mm / 200mm / 230mm / 300mm
- Segmented 115mm / 125mm / 180mm / 200mm / 230mm / 300mm
- Laser Segmented 230mm / 300mm / 350mm / 400mm / 500mm / 600mm / 800mm / 900mm / 1200mm
- Curved concave (for circular out-outs) 125mm and 180mm



**Rubber Lining for Fly Wheel**  
3.66m length



**Diamond Beads for Granite**



**Ferrules for Marble Wire**



**Crimping Machine HD45**  
Spare parts kit available



**Standard Pulley**  
400mm Diameter



**Springs for Marble Wire**

**Rock Drill  
Y24**



800mm

**Wedges/Plugs & Feathers**  
For splitting blocks



Available in sizes:  
250mm  
350mm  
450mm

**DRILL STEEL  
TAPER ROD 11°**



1200mm  
1600mm  
2400mm  
3000mm  
4000mm  
4800mm



**Ballistic & Spherical  
Button Bits**  
32mm and 34mm

90/11 COP 32



**Down-the-Hole  
Hammer Bits**

High  
Pressure  
ZDT



Bull Rock  
BR3



**Down-the-Hole Hammer**  
90mm Diameter

**Pneumatic EP 95 Rotation Unit & Pipe**



**Down the Hole Extension Rods**  
76mm Diameter x 1,5m

## Star Crack



**Hydraulic expansive mortar for splitting solid rock and concrete.**

### Hole Pattern

1. Holes must be drilled so as to allow a free face for the STAR-CRACK to push forward. For example, drilling at a 45° angle in a flat surface of ledge will push it upwards, but drilling straight down might not allow anywhere for the pressure to act.
  2. To demolish a slab without pushing out the walls which surround it, drill a cone shaped pattern at the centre and fill these holes first. The cone will pop upwards and create a free face.
  3. Hole pattern depends on tensile strength of what you're breaking, amount of rebar if any, and size of the pieces you want when you're done. This can often be determined by experiment.
- Full technical specifications and instructions available - please request catalogue



# Hydro Bag



Hydro Bag Pump

Hydro Bag  
1000x1000mm

Male and Female  
Connectors

## Function:

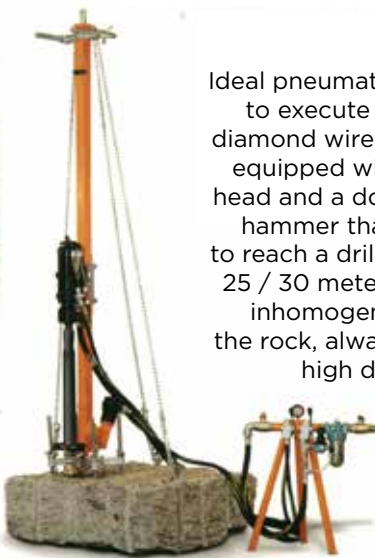
Used for separating a block of granite from the quarry face after diamond wire sawing.

## Specs on Hydro-Bag

Hydro-Bag plant with pushing steel bags, made of :  
Power pack with pump for water inlet into bags (working pressure 30 bar) powered by electric motor (400 V/50 Hz). Possibility to use 3 bags simultaneously, obtaining a total capacity of 900 tons  
Steel Bag 1000 H 1000mm with 300 ton capacity.



# Pneumatic Driller (Perforator)



Ideal pneumatic perforator to execute the holes for diamond wire passing. It is equipped with a rotating head and a down-the-hole hammer that allows one to reach a drilling depth of 25 / 30 meters, even with inhomogeneities within the rock, always keeping a high drilling speed.

“Driller” pneumatic perforator to execute holes with down-the-hole hammer for diamond wire passage, complete with:  
Column MC for drilling stock 1.6m  
Pneumatic rotating head EP 95  
3 Chains for anchoring  
3 Wrenches (for drilling rods and down-the-hole hammer)  
Down jack for quick positioning  
Drill steel 22 H 108 diam. 40mm L 400mm for down jack fixing hole  
Control panel with centralized lubrication  
Drilling Tools: Drilling rod diam. 76mm, L 1000m / API 2”3/8  
Button Bit for DTH Hammers diam. 90mm



# Hydraulic Pushing Unit

## Function:

Used for pushing a block of granite from the quarry after diamond sawing and hydrobag preliminary movement.

## Made up of:

Hydraulic power pack, with pump powered by 2.8Kw Electric motor (400 V/50 Hz)  
Independent distributors for the simultaneous use of 2 piston jacks  
1 Hydraulic piston jack double effect, stroke 65mm, capacity 160 tons  
1 Hydraulic piston jack double effect, stroke 120mm, capacity 160 tons  
4 high pressure hydraulic pipe tubes 10m length each, complete with joints

**Dia Star  
Diamond Wire Saw  
DNS 55AX**

Main Motor Power 55kw

Flywheel diameter 800mm

Linear Cutting Speed 20-40m/sec

Diamond wire length 20-120mt

The electronic inverter allows the linear speed to be varied from 20-40m/sec.

The electronic feed control system guarantees constant diamond wire tension which increases the life expectancy of the diamond beads. The 360° rotation of the flywheel holder head is motorized and allows simple and quick positioning of the machine and permits two paralleled cuts 1600mm apart without moving the machine.

Both horizontal and vertical cuts can be made. Uniquely designed feed system has a central rack with gears on steel cylinders, which is maintenance free, mounted on the rail which avoids slipping due to mud deposits, and permits accurate positioning of the machine even on steep slopes.



**Granfil Super Electronic**

Diamond wire sawing machine equipped with a 50HP electric motor and an inverter, which allows to vary the linear speed from 14 to 30m/sec. The backward speed is controlled by a special electronic divide as a function of cutting stress which values are pre-selected in order to keep a constant tensioning on wire and to stop the machine and flywheel rotation in case of malfunction or wire breakage. Auxiliary motors controls a quick machine movement on rails for positioning, the 360° rotation of main flywheel (diam. 960mm), lateral movement (stroke 500mm) and the device for the linear wire speed variation. A special device allows to increase greatly the torque during the start-up of diamond wire. The control panel, controlling all principal functions, can be positioned at distance from working area. The machine is supplied with 2 tracks of 3m length each.



**Marini Pneumatic Drilling Machine  
GM1 (MARPNEDRIGMI)**

A heavy series pneumatic block cutting machine, suitable for carrying out primary vertical (or horizontal) drilling and bank-side squaring in the quarry. Prearranged to be used with one or two Y24 rock-drills or a 100kg heavy duty rock-drill. Thanks to its robust structure, its column translation quickness and easy lifting of the machine represent the best compromise between use and practicality and high performances. Devices of the column allow an easy adaptation to the desired drilling lines, both in cross and side direction as high as 25 degrees. A set of manual control stabilisers allows an easy and quick levelling with respect to the ground.

A column with 2,40 or 3,20m first starting drill steel is recommended. The special model RUSTICA SARDEGNA is provided with a 4,00m drill steel-starting column, intermediate drill guide and water pump.

