

### Diamond Wires for Marble slabs splitting

More than often the slab splitting require more efficiency tools , the diamond wire must be faster and its diameter the smaller you can. We present our electroplated diamond wirer for slabs splitting as the faster and the thinner in the world for onyx, calcareous material and marble.

**VIP** and **BRN** are the two cylindrical diamond beads we produce for this application. Our Electroplated diamond wires are produced by the exclusive patented technology named **Oriented Crystal®**. The diamond grains are oriented and almost all cutting edges are positioned in the best way to start the cut. The nickel bond has the maximum resistance to permit the maximum cutting performance and longest life.

**Assembly:** The particular and exclusive assembly with the **SHX** polymeric coating and springs is born with the purpose to increase the safety on the job site. If correctly used the diamond wire doesn't need to be reassembled until the whole exhaustion of the diamond beads, avoiding problems such as wire breakages. Then the SHX assembly assures the maximum safety, in accidental case of breakage no bead is thrown out.

Normally these diamond wires are assembled with 28, 30 or 32 beads per meter, but it's possible to change the number to fit all customers' needs.

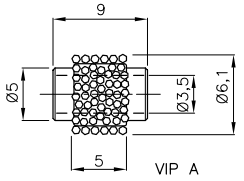
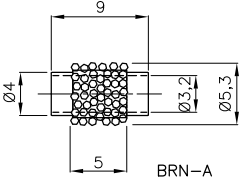
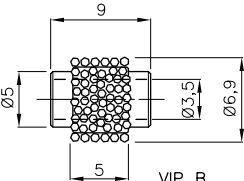
### Specifications

**Bead Type:** Electroplated

**Bead Shape:** Cylindrical

**Material to cut:** Marbles, Calcareous stones, Limestones, Sandstones, Onix

**Twist:** 0,75 torsion per meter. The diamond wire is sold in *endless loop*, so the customer doesn't need to twist it.

| Diamond | Diamond Size              | VIP<br>Internal rope 3,5mm  | BRN<br>Internal rope 3,2mm   |
|---------|---------------------------|---|--|
| A       |                           | Ext. $\varnothing$ 6,1mm  | Ext. $\varnothing$ 5,3mm   |
|         | UsMesh 40/50<br>Fepa D426 |  |  |
| B       |                           | Ext. $\varnothing$ 6,9mm  | $\varnothing$ ,4mm   |
|         | UsMesh 25/30<br>Fepa D711 |  |  |

### VIP Cutting Performances

| <b>Material</b>   | <b>Average Cutting Speed [m<sup>2</sup>/h]<br/>On Guglielmi Machine</b> | <b>Average Cutting Speed [m<sup>2</sup>/h]</b> | <b>Average Life[m<sup>2</sup>/lm]</b> | <b>Peripheral speed [m/sec]</b> |
|-------------------|---|--|---------------------------------------|---------------------------------|
| Marbles           | 2 ÷ 3   | 0,6 ÷ 0,9                                      | 20                                    | 30                              |
| Calcareous Stones | 2 ÷ 2,5   | 0,5 ÷ 0,7                                      | 16                                    | 30                              |
| Limestones        | 2 ÷ 2,5   | 0,5 ÷ 0,7                                      | 16                                    | 30                              |
| Sandstones        | 2 ÷ 2,5   | 0,5 ÷ 0,7                                      | 16                                    | 30                              |

Average data for **VIP-A**

### BRN Cutting Performances

| <b>Material</b>   | <b>Average Cutting Speed [m<sup>2</sup>/h]</b> | <b>Average Life[m<sup>2</sup>/lm]</b> | <b>Peripheral speed [m/sec]</b> |
|-------------------|--|---------------------------------------|---------------------------------|
| Marbles           | 0,4 ÷ 0,8                                      | 20                                    | 30                              |
| Calcareous Stones | 0,4 ÷ 0,6                                      | 16                                    | 30                              |
| Limestones        | 0,4 ÷ 0,6                                      | 16                                    | 30                              |
| Sandstones        | 0,4 ÷ 0,6                                      | 16                                    | 30                              |

Average data for **BRN-A**

