

LSR diamond wires for Monowire machine

LSR-A and LSR-B are the faster diamond wires for all monowire machines for all Marbles and stones.

Its characteristic **tapered** (conical) shape increases Cutting Speed and Life due these:

- **Reduced Contact Area.** Only a few parts of diamond grains are in contact with the material so the reduced Contact Area of the diamond increases the cutting pressure and the diamond can cut faster due the higher pressure. The conical shape permits a faster cutting speed on all materials.
- **Progressive usage of the diamond.** The diamond is used progressively, from the external diameter to the inner. When a diamond is completely crashed it's pulled out and a new diamond in the inner part is immediately ready. The conical shape increase the life on all materials.

These aren't the only features we have. Our electroplated beads are made by 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.

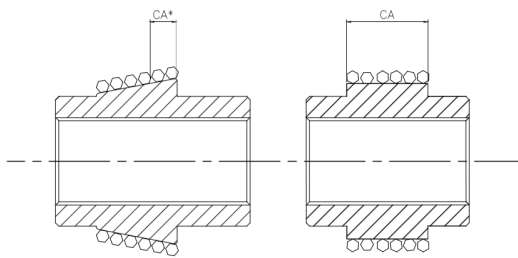


Figure 1: Reduced Contact Area

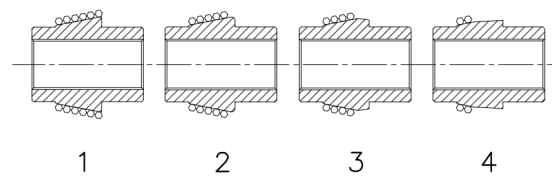


Figure 2: Progressive usage of the diamond

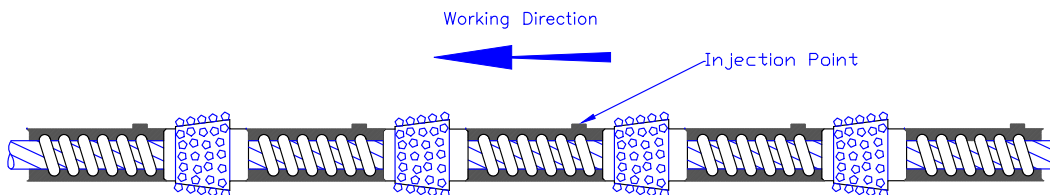


Figure 3: Unique cutting direction

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 none bead is thrown out.

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

