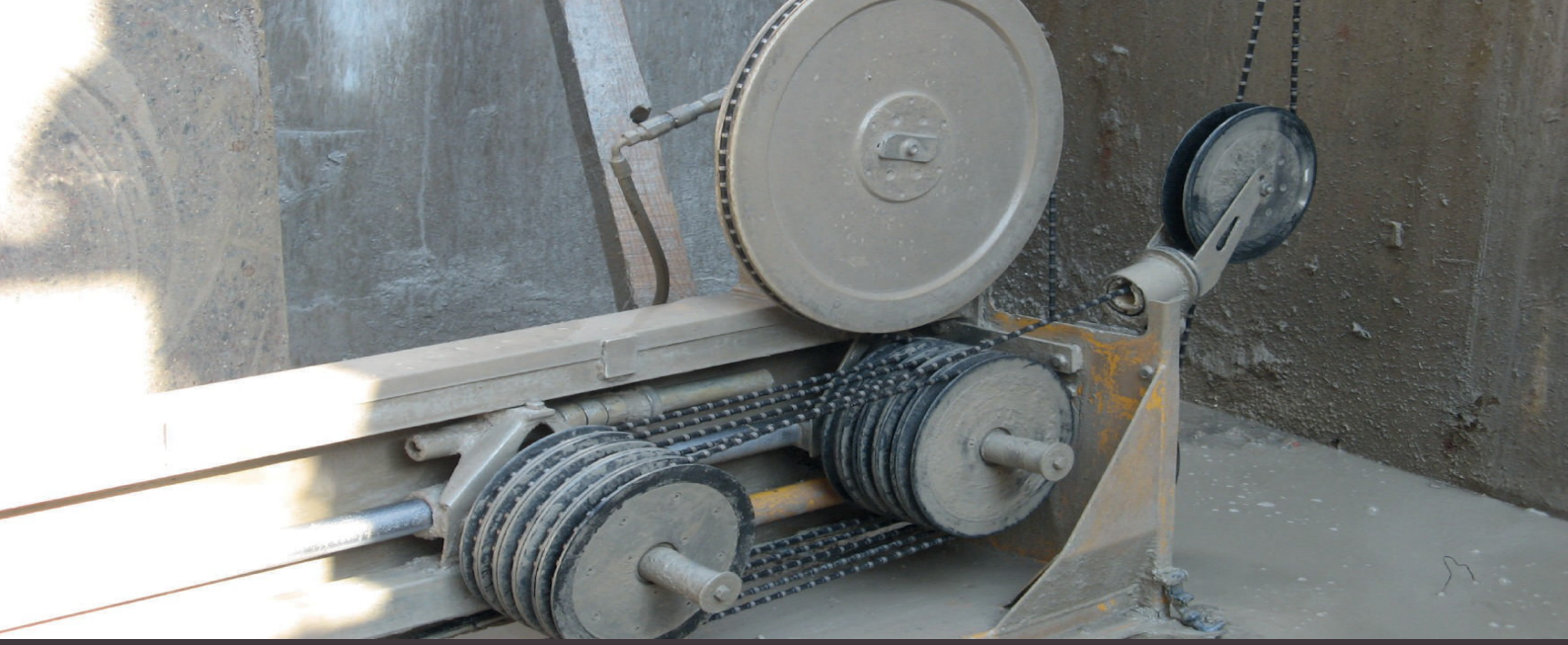
04

SOLGA
DIAMANT

DIAMOND WIRE FOR CONSTRUCTION



DIAMOND WIRE

DIAMOND WIRE CUTTING

To perform cuts in concrete or steel structures with diamond wire, it is necessary to have specific equipment consisting of a multi-pulley machine. This machine is equipped with pulley sets that allow the storage of the wire collected during the cut, and one or more drive pulleys that rotate the wire.

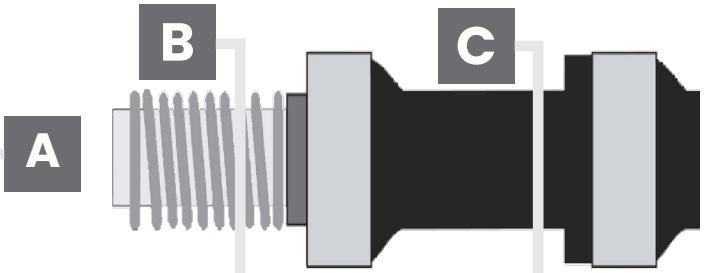
The wire, when rubbing against the material to be cut, generates wear on the material. This friction is kept constant by tensioning the wire, which is achieved by moving the storage pulleys.

It is necessary to cool the wire with water to obtain good results, although there are special equipment that allow dry work, please consult us.

SOLGA DIAMANT manufactures a complete range of diamond wires, to provide solutions for any type of diamond wire cutting, from concrete structures, reinforced concrete to metal structures and various metal alloys. Our sales team will advise you to choose the best wire for each application.

DIAMOND WIRE STRUCTURE:

wire for construction is designed to facilitate your diamond wire cutting work, offering high safety thanks to its high level of quality in its materials and manufacturing processes.



A – ROPE

Its constructive form, as well as the quality of the wires used, provide high resistance and flexibility. Designed for long life even when working with small pulleys. It easily transmits the torsion in the cable allowing a homogeneous use of the periphery of the beads, reducing the risk of wire planing.

B – HIGH RESISTANCE SPRINGS

The placement of high resistance springs increases the strength of the cable, especially against the possibility of loose rods in concrete structures.

C – RUBBER

Rubber coating by injection and subsequent vulcanization. The high adhesion and flexibility of our rubber makes Solga wire a very safe product. High protection of the cable against breakage, corrosion by contact with water and strongly fixes the beads to prevent displacements.

SPEED AND PERFORMANCE

Speed ●●●●●
Life ●●●○○

PYTHON

Characteristics: Nº Beads/m : 40, Ø:10,5mm. Manufactured with sintered beads.

SINTERING BEADS: These beads provide high cutting speed, even in non-abrasive or very hard concrete, preventing the beads from stopping cutting due to glazing.

%REINFORCEMENT STANDARD:

CODE: 404M9FZ0

REINFORCED CONCRETE

Speed ●●●●●
Life ●●●●○

BOA

Characteristics: Nº Beads/m : 44, Ø:10,5mm. Manufactured with Multi-layer beads.

MULTI-LAYER BEADS: Produced through a two-phase process involving multi-layer pre-sintering to achieve uniform diamond dispersion, followed by vacuum sintering for superior diamond adhesion.

%REINFORCEMENT STANDARD:

CODE: 404M9U4CB

HEAVY REINFORCED CONCRETE AND IRON

Speed ●●●●●
Life ●●●●●

GOLD

Characteristics: Nº Beads/m : 40, Ø:10,5mm. Manufactured with HIP beads.

HIP BEADS: High performance. Production by HIP (HOT ISOSTATIC PRESSURE) sintering guarantees high diamond retention even with soft alloys, allowing high cutting speeds with high performance in heavily reinforced concrete, even suitable for cutting irons or alloys.

%REINFORCEMENT STANDARD:

CODE: 404M9TZ4

VACUUM TECHNOLOGY

Speed ●●●●●
Life ●●●●○

VACUUM

Characteristics: Nº Beads/m : 48, Ø:10,5mm. Manufactured with Vacuum beads.

VACUUM BEADS: Wire easy-to-use since the bead does not need to be regenerated and does not lose diameter during work. For this reason, it is easy to change the wire in a simple and quick way when it wears.

%REINFORCEMENT STANDARD:

CODE: 404M9V8C

HOW TO USE DIAMOND WIRE RECOMMENDATIONS

1. Round the corners of the cutting area.

2. Before initiating the cut, rotate the wire at low speed and low pressure to ensure uniform transmission of rotation along its entire length.

3. A wire length exceeding 7 meters is recommended.

Important Reminders:
Clearly mark the working area and thoroughly inspect the wire before each use.
Store the wire in a dry, shaded location, away from direct sunlight.

WIRE TORSION AND CONNECTOR PLACEMENT

Essential for efficient cutting and even bead wear across its surface.

1. CUTTING THE WIRE AND REMOVING THE RUBBER
• Using shears, cut the cable approximately 13 mm from the diamond bead (10 mm is required for the connector).
• Once cut, completely remove the rubber from the cable surface where the connector will be placed.

2. WIRE TORSION
• Hold one end of the cable and apply between 1,5 and 2,5 twists per meter of cable. (It is advisable to apply half the twists from each end.)

3. PLACING THE CONNECTOR
• Connect according to the instructions provided with your crimping tool.
• Ensure there are no gaps or areas without rubber immediately before and after the connector

DIAMOND TOOLS

1.CORE DRILLS

2. FLOR SAW BLADES

3. WALL SAW DIAMOND BLADES

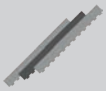
4. DIAMOND WIRE FOR CONSTRUCTION

5.DIAMOND BLADES FOR NATURAL AND ARTIFICIAL STONES

6. DIAMOND WIRE FOR NATURAL STONE

7. POLISHING TOOLS FOR NATURAL STONE

8. ROUGHING CUTTERS FOR MARBLE AND GRANITE



9. GANG SAW FOR MARBLE AND SANDSTONE

10. SURFACE PREPARATION

11. DRY CUTTING BLADES

12. TABLE SAW BLADES (WET CUTTING)

13. GRINDING RINGS FOR CALIBRATING

14. PRECAST DIAMOND BLADES

AUTHORIZED POINT OF SALE

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