



DIAMOND TOOLS

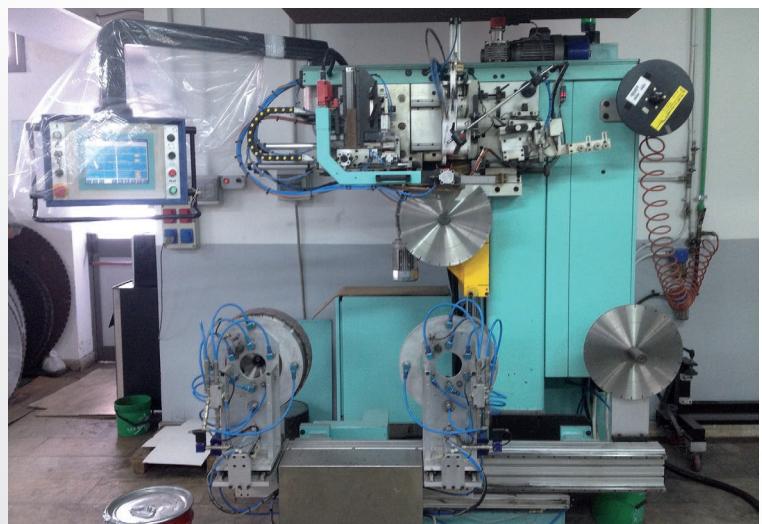


## ABOUT US

Our firm is based on long years of deep knowledge of stone product, tools and materials for their processing. In 1982 we decided to put our experience to the service of all the operators in Trapani: so LED came into being which soon became a specialist in diamond tools production. All kinds of marble, granite, stones and travertine processing are possible with LED diamond tools: quarry cutting, blocks and slabs cutting, chamfering, polishing, capitals, volutes, molding, holes in any diameter and in any thickness. We produce and sell diamond wires, multiblade saws, circular blades, corers, milling cutters, and attachments in a wide range of types, sizes and pitches.

LED ensures an advice service which guarantees the best results and the optimum use of our tools. Before choosing LED diamond tools, please give our advice service specifications about the material to be worked and the type and technical features of the machine which the tool is to be fitter to. Led circular blades are used for marble, travertine, granite, sandstone, ceramics, asphalt and concrete cutting. LED produces fine-toothed circular blades for clean cuttings on fragile material, and circular blades with special teeth for deep cuttings. In mass production, LED circular blades range from 100 to 3500 mm in diameter.

LED diamond blades make stone materials cutting easier and guarantee clean end product. LED supplies diamond blades and multi-blades 180x3 mm and 180x3,5 mm in depth and in thickness for frames. Lengths varies according to the customer's need. LED diamond wires are produced through sintering and electrodeposition processes which ensure a perfect adhesion of diamond powders to the bead. LED springs and spacers complete this tool which is largely used at our quarries for cutting blocks and stones. LED diamond tools used for marble, granite, concrete and asphalt drilling are produced in the type of continuous crown ranging from 20 at 400 mm in diameter and, o, request, in any other diameter. LED range includes polishing ring cutters, shaped milling cutters and grinding wheels in any shape and diameter, which give craftsmen and architects a wide horizon of uses and formal results.



This is a diamond tool installed on marble-gang saw cutting machines and used for production and sawing of marble slabs and similar materials. Through its in-house stone testing laboratory, LED can study the composition of the material to be worked and offer the best performing diamond product suited to meet the customer's needs. LED tools are designed and built with the most modern technologies and are for wet use only.

#### Stone to be processed

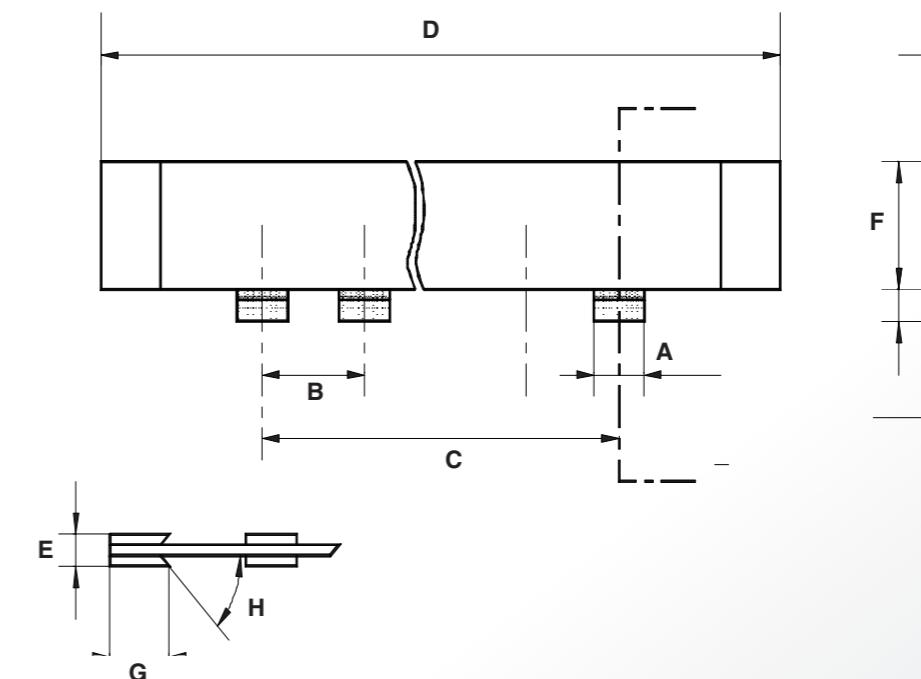
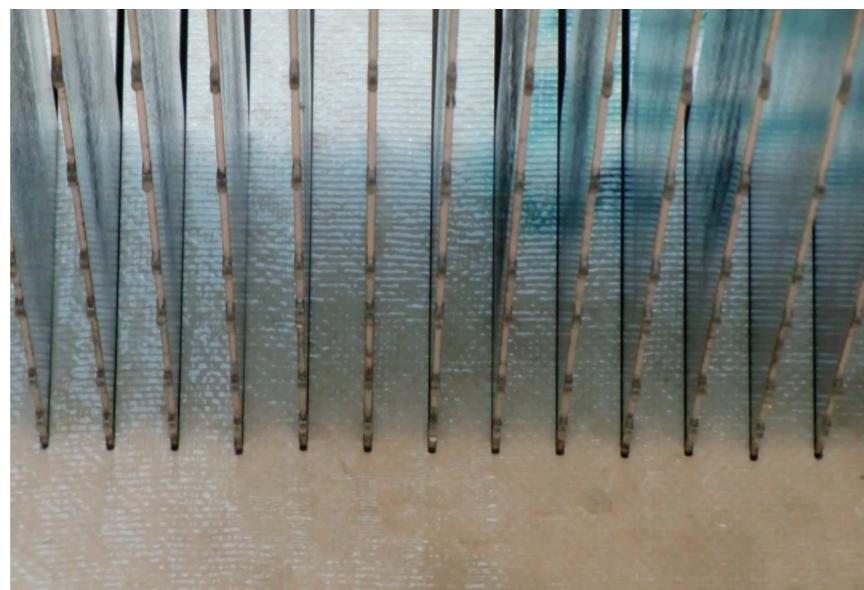
Marble Agglomerate

#### Stone processing to be done

Cutting

#### Machine to be used

Multi-blade gangsaw cutting machine



#### Glossary

- A • length of the segment
- B • pitch of the segment
- C • working length
- D • length of the blade
- E • blade thickness
- F • blade height
- G • length of the connectors
- H • reinforcement angle
- I • total height of the sector

#### Steel dimensions

Blade with 180 x 3.0 mm connections  
Blade with 180 x 3.5 mm connections

#### Segment dimensions

Length x Width x Height (mm)  
20 x 4.8 x 8-10  
20 x 5.2 x 8-10  
20 x 5.5 x 8-10  
20 x 4.1 x 8-10

#### TECHNICAL DATA REQUESTED

The technical data that needs to be provided in order to identify the most suitable disc is:

- Type of frame saw (brand - type);
- Length of the blade (mm);
- Effective cutting size/length;
- Blade thickness;
- Materials to be cut (% for each material)
- Number of blades

The quarrying wire is used mainly for cutting directly in the quarries or for squaring the blocks.

**Stone to be processed**

Marble

**Stone processing to be done**

Cutting

**Machine to be used**

Quarry machine



Springs assembly



Rubber assembly



Steel Electroplated beads



Sintered beads

STANDARD PROPERTIES				
Diameter Bead (mm)	Diameter Wire (mm)	No. Beads Per Metre	Type Assembly	Material
11,0 - 10,5	4,9	36-38-40	Rubber	Sanstone
11,0 - 10,5	4,9	27-28-30-32	With Springs	Marble
11,0 - 10,5	4,9	27-28-30-32	With Springs	Limestone

**TECHNICAL SPECIFICATIONS**

Apart from its versatility, the LED diamond wire offers many advantages:

- no vibration while cutting
- low noise
- excellent precision
- high cutting speed
- energy consumption reduced to the minimum
- low consumption of water

This disc is a large diamond tool used in disc block cutter, for cutting marble, granite or agglomerate strips. Through its in-house stone testing laboratory, LED can study the composition of the material to be worked and offer the best performing diamond product suited to meet the customer's needs. LED tools are designed and built with the most modern technologies and are for wet use only.

#### Stone to be processed

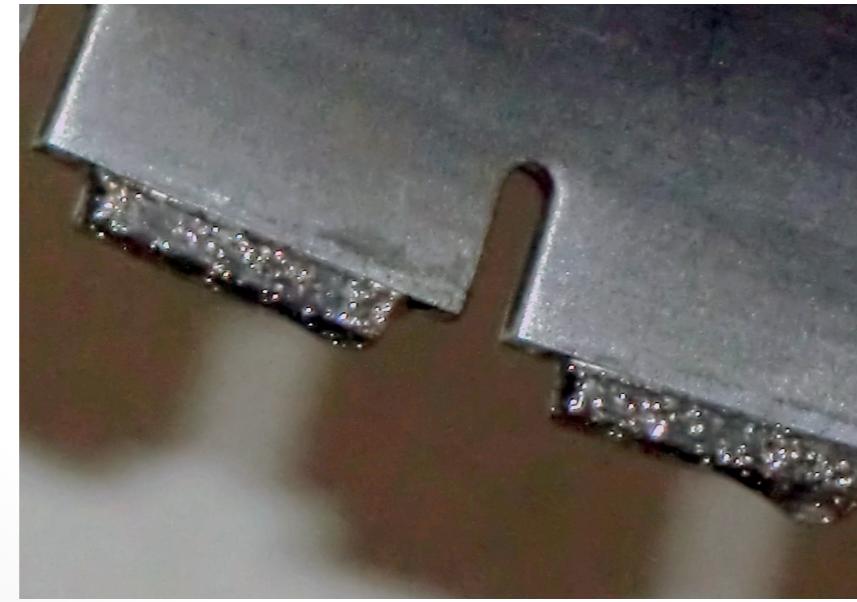
Marble Agglomerate Construction

#### Stone processing to be done

Cutting

#### Machine to be used

Disc block cutter



#### BIG DIAMETER

Diameter (mm)	Thickness (mm)	Wide tooth (L) No. of Segments	Segment Dimensions Length x Width x Height
900	5.0	64	24 x 7.5 x 7.0
1000	5.0	70	24 x 8.0 x 7.0
1050	5.0	72	24 x 8.0 x 7.0
1100	5.0	74	24 x 8.5 x 7.0
1200	5.5	80	24 x 8.5 x 7.0
1300	6.0	88	24 x 9.0 x 8.5
1400	6.5	92	24 x 9.5 x 8.5
1600	7.0	104	24 x 9.5 x 8.5

#### TECHNICAL DATA REQUESTED

The technical data that needs to be provided in order to identify the most suitable disc is:

- Disc diameter
- Bore
- Narrow or wide slots
- Core type (normal or silent)
- Type of material to be cut
- Machine model and manufacturer

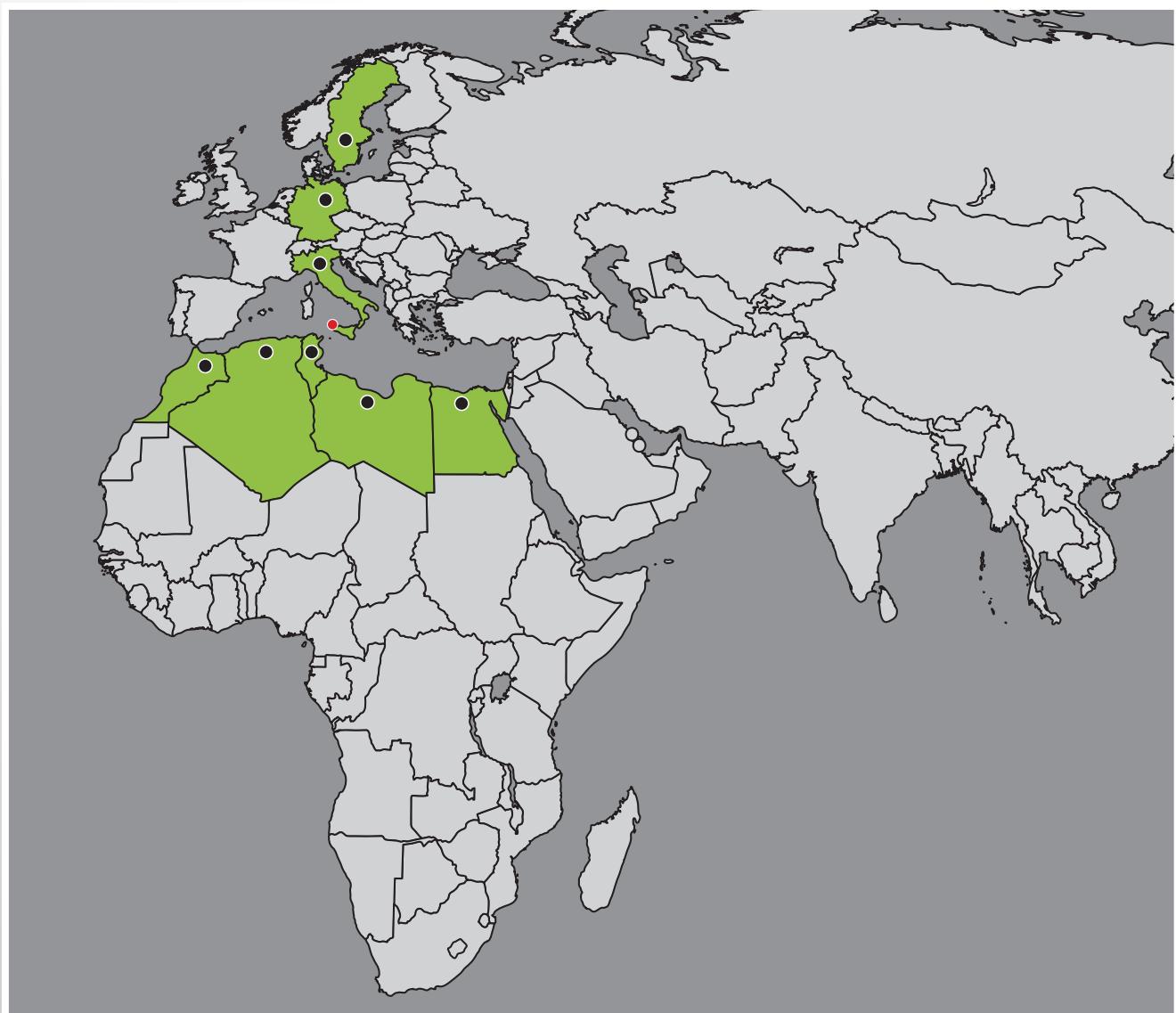
#### SMALL DIAMETER

Diameter (mm)	Thickness (mm)	Narrow tooth (S) No. of Segments	Wide tooth (L) No. of Segments	Segment Dimensions Length x Width x Height
350	3,5	25	21	40 x 5.0 x 7
400	3,5	28	24	40 x 5.0 x 7
450	3,5	32	26	40 x 5.0 x 7
500	3,5	36	30	40 x 5.5 x 7
600	3,5	42	36	40 x 6.2 x 7
625	4,5	42	36	40 x 6.2 x 7
650	4,5	46	38	40 x 6.5 x 7
725	4,5		40	40 x 6.5 x 7



## WHERE WE WORK

**T**rapani is LED's administrative and production seat. A favourable geographical position and the great marble resources and production plants in the the productive resources of the area of Custonaci, where it produces the Perlato of Sicily marble, LED the most remarkable presence in the Mediterranean, in the field of diamond tools. The diamonds used for sintering are selected and produced by the prestigious De Beers. The steel which circular blades, blades and wires are made of is the best produced in the Federal Republic of Germany and in Sweden. Our products are distributed by LED suppliers all over Italy. We export and products to the Tunisia, Marocco, Egypt, Libya, Algeria.





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