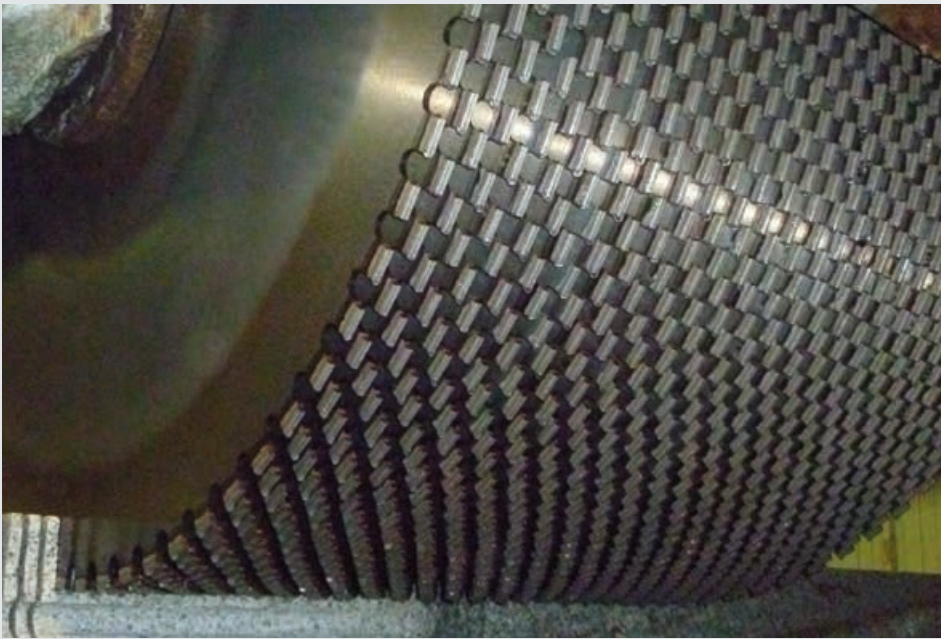


# DIAMOND BLADES FOR NATURAL AND ARTIFICIAL STONES



# DIAMOND BLADES

## INTRODUCTION

We design and manufacture our blades from the characteristics of the machine and the requirements of the customers. In this way we ensure that the cutting results and performance are optimal.

## EUROPEAN DESIGN AND MANUFACTURING OF DIAMOND TOOLS

SOLGA DIAMANT, after more than 60 years in the field of diamond tools, shares with their costumers their technology and experience of diamond blades for wet cutting in fixed installations.

The experience gained from throughout these years, developing new alloys together with our customers, assures us a high degree of competitiveness, with blades optimized to the requirements of each job. We manufacture blades for cutting all kind of natural stones; granites, marbles, sandstones, basalt, slates and also for artificial materials like Terrazzo, glass, etc.

Our range includes from 300 mm diameter blades up to 3.000 mm, both for its individual use as for multiblade or horizontal cuts, adapting the blades to the different machine fixings

Use the QR code to directly access the digital format of SOLGA DIAMANT catalogs and see our products in detail.



## BLADE CONFIGURATION

We have available different blade geometries that adapt to each need:

- Notch geometry: Open, closed, closed reinforced and closed notch with split segment
- Steel center type: Standard or silent sandwich or soundproof by laser cutting
- Segment geometry: Different heights of the segment (from 7 to 30 mm. Depending on the material to be cut), widths and lengths







## SPEEDS

It is important to establish the different parameters of the machine that take place during the cut for the correct use of the blades. An important parameter that directly affects the result of the blade is the peripheral speed, which will be adjusted, if possible, depending on the material to be cut, since the alloys and the type of diamond have been designed according to these variables.

### PERIPHERAL CUTTING SPEEDS ADVISED ACCORDING TO THE TYPE OF MATERIAL

MARBLE	High performance	60 to 70 mts.
	Thick crystals	50 to 60 mts.
	Medium hardness	40 to 50 mts.
	Hard and compact	40 to 45 mts.
	Very hard or with quartz	35 to 40 mts.

SLATE	Hard	30 to 35 mts.
	Medium	35 to 40 mts.
	Soft	45 to 55 mts.

TERRAZZO	Calcareous	50 to 60 mts.
	Media	40 to 50 mts.
	Siliceous	30 to 40 mts.

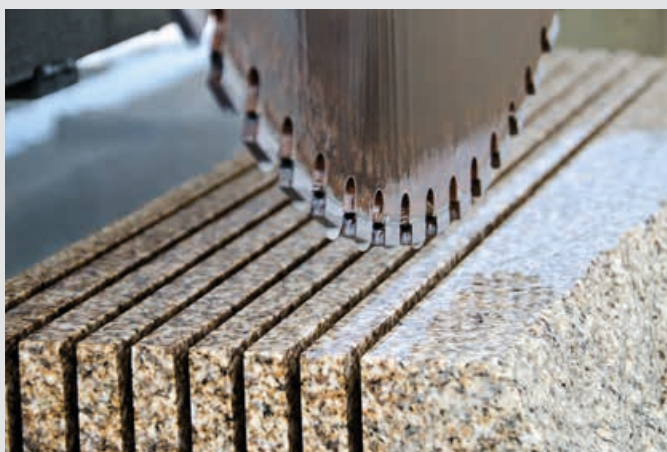
SANDSTONE	Hard	35 to 40 mts.
	Medium	40 to 45 mts.
	Soft	45 to 50 mts.

GRANITES	Low content of quartz	35 to 40 mts.
	High content of quartz	25 to 30 mts.

BASALT	Hard	30 to 35 mts.
	Medium	35 to 40 mts.

REFRACTORY		40 to 50 mts.
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LIMESTONES	Hard	35 to 40 mts.
	Medium	40 to 50 mts.
	Soft	50 to 60 mts.



### ROTATION SPEEDS (R.P.M.) DEPENDING ON PERIPHERAL SPEED AND BLADE Ø

ROTATION SPEED	Ø300	Ø350	Ø400	Ø450	Ø500	Ø550	Ø600	Ø625	Ø700	Ø725	Ø800	Ø900	Ø1000	Ø1100	Ø1200	Ø1300	Ø1400	Ø1500	Ø1600	Ø1800	Ø2000	Ø2500	Ø2700	Ø3000
25 m/s	1600	1400	1200	1100	950	870	800	760	680	660	600	530	480	430	400	370	340	320	300	270	240	190	180	160
30 m/s	1900	1600	1400	1300	1100	1000	950	920	820	790	720	640	570	520	480	440	410	380	360	320	290	230	210	190
35 m/s	2200	1900	1700	1500	1300	1200	1100	1100	950	920	840	740	670	610	560	510	480	450	420	370	330	270	250	220
40 m/s	2500	2200	1900	1700	1500	1400	1300	1200	1100	1100	950	850	760	690	640	590	550	510	480	420	380	310	280	250
45 m/s	2900	2500	2100	1900	1700	1600	1400	1400	1200	1200	1100	950	860	780	720	660	610	570	540	480	430	340	320	290
50 m/s	3200	2700	2400	2100	1900	1700	1600	1500	1400	1300	1200	1100	950	870	800	730	680	640	600	530	480	380	350	320
55 m/s	3500	3000	2600	2300	2100	1900	1800	1700	1500	1400	1300	1200	1100	950	880	810	750	700	660	580	530	420	390	350
60 m/s	3800	3300	2900	2500	2300	2100	1900	1800	1600	1600	1400	1300	1100	1000	950	880	820	760	720	640	570	460	420	380

# TOOLS



1. CORE DRILLS



5. DIAMOND BLADES FOR NATURAL AND ARTIFICIAL STONES



10. SURFACE PREPARATION



2. FLOOR SAW BLADES



6. DIAMOND WIRE FOR NATURAL STONE



11. DRY CUTTING BLADES



3. WALL SAW AND PRECAST DIAMOND BLADES



7. POLISHING TOOLS FOR NATURAL STONE



12. TABLE SAW BLADES (WET CUTTING)



4. DIAMOND WIRE FOR CONSTRUCTION



8. ROUGHING CUTTERS FOR MARBLE AND GRANITE



13. GRINDING RINGS FOR CALIBRATING



9. GANG SAW FOR MARBLE AND SANDSTONE

**AUTHORIZED SELLING POINT**



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