

02



SOLGA

BLADES

FLOOR SAW MACHINES





DIAMOND BLADES

FLOOR SAW BLADES

Classification by materials

SOLGA DIAMANT offers colour coding according to the type of material to be cut, which will allow you to quickly identify what type of material each tool has been designed for.



Cured concrete

pag.4

Cured concrete range designed for cutting high strength cured concrete floors and reinforced concrete. With a soft alloy, which allows good diamond regeneration, offering ease of cutting in hard materials.



Asphalt + Concrete

pag.5

Asphalt + concrete range designed for cutting concrete and asphalt alternately or asphalt on concrete. These blades are of medium hardness, allowing ease of cutting and maintaining durability on asphalt.



Asphalt

pag.6

Asphalt range designed for cutting asphalt, asphalt on concrete and asphalt on soft surfaces. Range with different hardnesses of the blade to be able to work in different abrasiveness or hardness independently of the aggregates. Blades with hard alloy to withstand abrasion.



Concrete fresh

pag.7

Fresh concrete range designed for cutting highly abrasive materials, such as fresh concrete. Its abrasion is related to the setting time and the aggregates that compose it. High hardness blades to withstand the high abrasion of the material.



Milling

pag.8

Blade designed to make cuts of different thicknesses on concrete and asphalt. For cutting grooves, special joints, repairing joints, grooves, undercuts, etc.



Rollers

pag.9

The drums composed of diamond blades allow us to work on large surfaces, with multiple finishes, such as surface milling, grooving for airport, runway, drainage, execution of non-slip floors, etc.

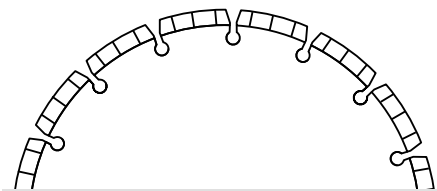


SOLGA DIAMANT, as a European manufacturer of diamond tools, offers a complete range for cutting, drilling and surface treatment for the **construction and natural** stone sectors

Our tools are manufactured in **our production centers located in Barcelona**, where our engineers develop solutions by mixing and sintering metal alloys with the right diamond for each application. Our laser, induction and welding centers optimize **each product to ensure maximum durability and safety**.

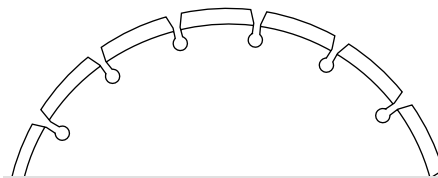
We have a colour coding system according to the material that needs to be cut and different designs of the profiles of the diamond area, depending on the characteristics of the work to be carried out. Our commercial team and our network of distributors will accompany you at all times both in the choice of the tool and in the work parameters that will allow you to obtain the best results

Diamond area profiles



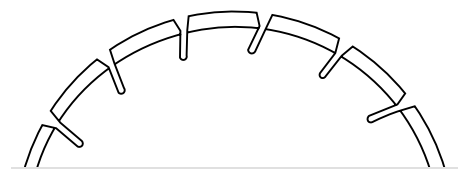
SEGMENTED TURBO (LAR)

The **LAR** profile with **turbo-laser** segment is characterised by the combination of the **LAR** notch to increase speed with a **turbo segment**, which increases the performance and speed of the blade. The design is designed to work on low, medium and high power machines, regardless of effort or depth.



SEGMENTED LAR

The **segmented LAR** profile is designed to achieve greater strength and durability. It is characterised by its LAR notch and laser-welded segments, to give it greater resistance. This blade is designed for medium and high power machines.

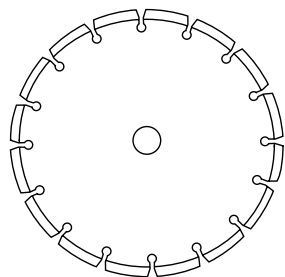


SEGMENTED BLZ

The **segmented BLZ** profile is characterised by its BLZ slanted notch to help evacuate sediment and increase cutting speed. In addition, its laser-welded segment makes it more resistant. This blade is designed for medium and high power machines.

Clasification by colours

STEEL CORE COLOUR

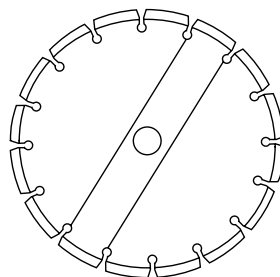


LOW POWER (BP)
(>13 CV) (>9,6 KW)

MEDIUM POWER (MP)
(9-20 CV) (7-15 KW)

HIGH POWER (HP)
(< 13CV) (9,6KW)

BAND COLOUR



Red Cured concrete

Light Blue Asphalt + Concrete

Black Asphalt

Green Fresh Concrete

LOW POWER. Blades designed for hand-held machines and light floor saws, with plastic water tank.



MEDIUM POWER. Blades designed for most of the machines in the rental fleet, they can be with plastic or metal tank.



HIGH POWER. Blades designed for heavy machines with metal tanks or powerfull engines, where larger diameter blades are required or increased performance on smaller diameter blades.





FLOOR SAW

CURED CONCRETE

RECOMMENDED MATERIALS

EXPANSION JOINTS IN CURED LIME CONCRETE AND SILICEOUS CONCRETE OF MEDIUM AND HIGH HARDNESS (H25, H30 AND HIGHER).

CURED CONCRETE

Concrete that has reached its maximum hardness. Depending on their composition and strength, the type of blade for cutting joints or concrete structures will determine the type of blade used. Depending on the aggregates used, there are concretes with a calcareous base (without abrasion) and with a siliceous base (with abrasion). Depending on their design, concretes are classified as low, medium or high strength.

OTHER MATERIALS NON INTENSIVE CUT

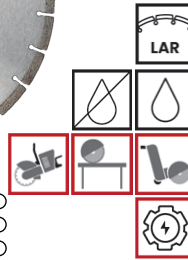
Cutting in a non-intensive way and alternating materials:

Artificial stone, brick (solid, facing, tongue and groove), ceramic tile, calcareous sandstone, calcareous terrazzo, thermo-clay, granite, terrazzo, slate, cobblestone, Silestone, basalt, quartzite, corundum, porphyry, pumice stone, refractory up to 30% alumina, hollow bricks, gero concrete, concrete tile, antacid brick.

FAST CUTTING



Finish ●●●●○
Speed ●●●●○
Life ●●●●○



BLADE LAR SINTER SEG.

Characteristics: LAR notch gives performance, durability and cutting finish.

Advantages: Fast cutting.

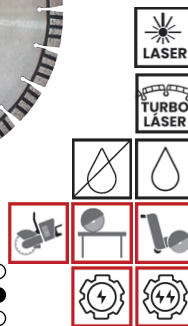
REF	Ø	Width	Height	Shaft	Nº seg.
230BG6300	300	3,2	10,0	25,4	20
230BG6350	350	3,2	10,0	25,4	23

EXTRA HARD MACHINE-Reinforced concrete



SWIFT SOFT

Finish ●●●●○
Speed ●●●●○
Life ●●●●○



BLADE LAR LASER SEG. TURBO

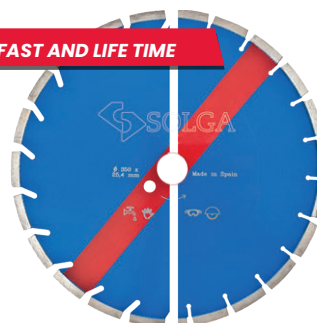
Characteristics: LAR notch and turbo-laser segment offer performance, durability, good cut finish and speed. Laser welding for greater safety in use.

Advantages: Versatile for all types of machines, fast cutting even on extra hard materials and reinforced concrete.

REF	Ø	Width	Height	Shaft	Nº seg.
231S7300	300	2,6	15,0	25,4	20
231S7350	350	3,2	15,0	25,4	23
231S7400	400	3,2	15,0	25,4	26

*Available in 20 and 25,4 mm shaft

FAST AND LIFE TIME



Finish ●●●●○
Speed ●●●●○
Life ●●●●○



BLADE BLZ AND LAR LASER SEG.

Characteristics: They are available in BLZ and LAR notch, in case we need speed or improved life time.

Advantages: This model of blade can cut most stone materials on site.

REF	Ø	Width	Height	Shaft	Nº seg.	Ent.
24306300	300	2,8	10,0	25,4	19	BLZ
24306350	350	3,0	10,0	25,4	22	BLZ
24306400	400	3,4	10,0	25,4	24	BLZ
24306450	450	3,6	10,0	25,4	29	BLZ
24306500	500	3,8	10,0	25,4	32	BLZ

REF	Ø	Width	Height	Shaft	Nº seg.	Ent.
23906300	300	2,8	10,0	25,4	20	LAR
23906350	350	3,0	10,0	25,4	23	LAR

SPECIAL CURED CONCRETE



Finish ●●●●○
Speed ●●●●○
Life ●●●●○



BLADE BLZ AND LAR LASER SEG. LISO

Characteristics: They are available in BLZ and LAR notch, in case we need speed or improved life time.

Advantages: Ideal for cutting reinforced and high-strength concrete (H 30<).

REF	Ø	Width	Height	Shaft	Nº seg.	Ent.
24606300	300	3,0	10,0	25,4	19	BLZ
24606350	350	3,2	10,0	25,4	23	BLZ
24606400	400	3,4	10,0	25,4	26	BLZ
24606450	450	3,6	10,0	25,4	29	BLZ

REF	Ø	Width	Height	Shaft	Nº seg.	Ent.
23606300	300	3,0	10,0	25,4	21	LAR
23606350	350	3,2	10,0	25,4	23	LAR
23606400	400	3,4	10,0	25,4	28	LAR
23606450	450	3,6	10,0	25,4	32	LAR

We have diameters from Ø500 up to Ø800 in both models



FAST CUTTING



Finish ●●●●○
Speed ●●●●○
Life ●●●●○

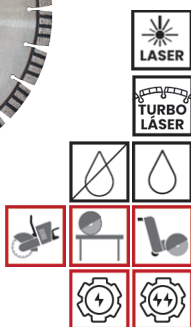
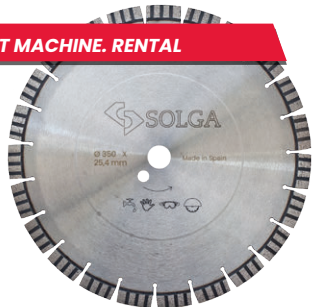
BLADE LAR SINTER SEG. LISO

Characteristics: Notch LAR gives us performance, durability and cutting finish.

Advantages: Fast cutting.

REF	Ø	Width	Height	Shaft	Nº seg.
232BG6300	300	3,2	10,0	25,4	20
232BG6350	350	3,2	10,0	25,4	23

LIGHT MACHINE. RENTAL



SWIFT

Finish ●●●●○
Speed ●●●●○
Life ●●●●○

BLADE LAR LASER SEG. TURBO

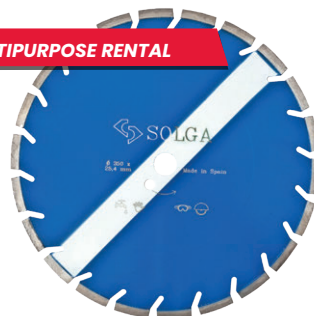
Characteristics: LAR flange and turbo-laser segment offer performance, durability, good cutting finish and speed. Laser welding for greater safety in use.

Advantages: Ideal for rental bussines, it cuts fast and well in all situations, without forcing the machine (saving on belt breakages).

REF	Ø	Width	Height	Shaft	Nº seg.
23117300	300	2,8	15,0	25,4	20
23117350	350	3,0	15,0	25,4	23
23117400	400	3,2	15,0	25,4	26

*Available in shaft 20 y 25,4 directly

MULTIPURPOSE RENTAL



Finish ●●●●○
Speed ●●●●○
Life ●●●●○

BLADE BLZ LASER SEG

Characteristics: Use of BLZ inclined notch to aid in the evacuation of sediments and increase cutting speed. Ideal if the cut does not have to be perfect.

Advantages: Suitable for all types of abrasive materials, with high performance in abrasive pavements, asphalts and siliceous concretes.

REF	Ø	Width	Height	Shaft	Nº seg.
24506300	300	3,0	10,0	25,4	19
24506350	350	3,2	10,0	25,4	22
24506400	400	3,4	10,0	25,4	24
24506450	450	3,6	10,0	25,4	29
24506500	500	3,8	10,0	25,4	32

HIGH PERFORMANCE VERY ABRASIVE MATERIALS



Finish ●●●●○
Speed ●●●●○
Life ●●●●○

BLADE BLZ LASER SEG

Characteristics: Use of BLZ inclined notch to aid in the evacuation of sediments and increase cutting speed. Ideal if the cut does not have to be perfect.

Advantages: High performance in soft floors and abrasive special siliceous concretes.

REF	Ø	Width	Height	Shaft	Nº seg.
24806300	300	3,0	10,0	25,4	19
24806350	350	3,2	10,0	25,4	23
24806400	400	3,4	10,0	25,4	26
24806450	450	3,6	10,0	25,4	29
24806500	500	3,8	10,0	25,4	32
24806600	600	4,5	10,0	25,4	40

FLOOR SAW ASPHALT CONCRETE

RECOMMENDED MATERIALS

CURED CONCRETE, CURED CONCRETE+ASPHALT, ASPHALT.

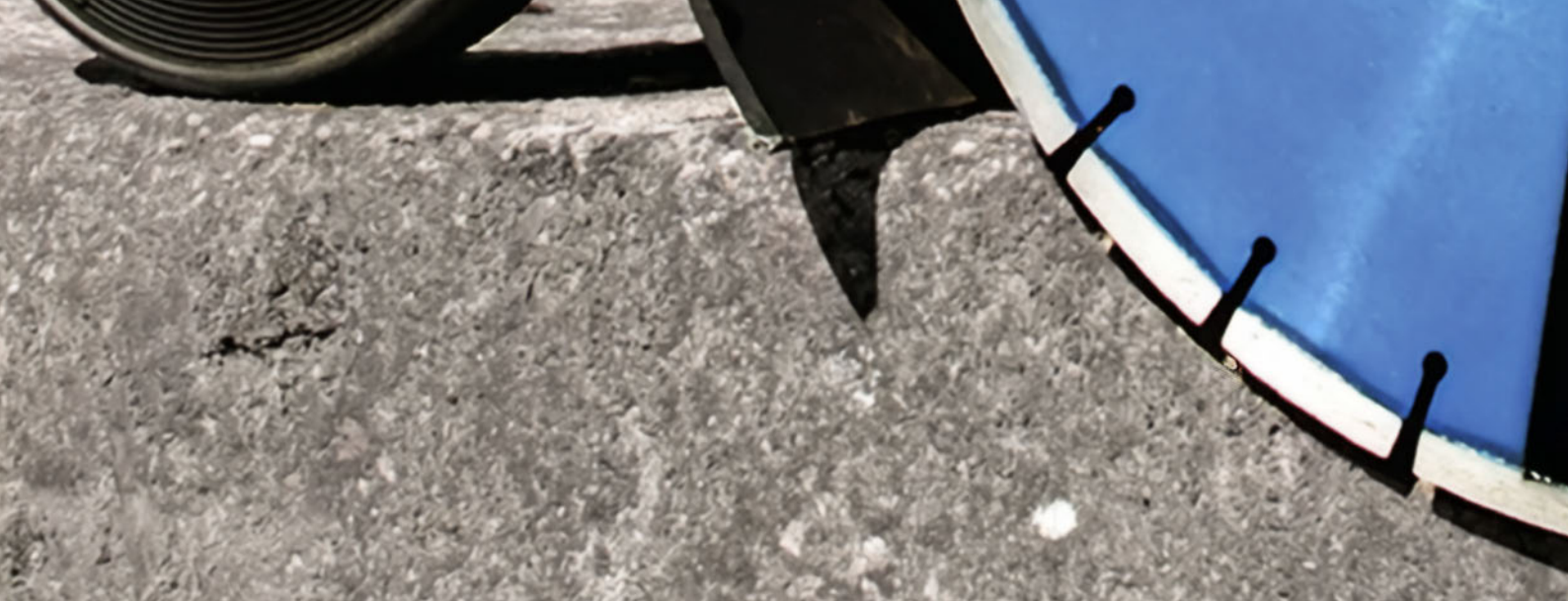
BLADE RANGE

A range designed to work on different concrete and/or asphalt pavements alternately. Ideal for both calcareous-based (low abrasion) and siliceous based (high abrasion) aggregate compositions.

**OTHER MATERIALS
NON INTENSIVE CUT**

Cutting in a non-intensive way and alternating materials:

Low to medium abrasion fresh concrete, refractories, silicon carbide, concrete blocks, Klinker, extruded.



FLOOR SAW ASPHALT

RECOMMENDED MATERIALS

CUTTING ALL TYPES OF ASPHALT, ASPHALT + CONCRETE AND ASPHALT + SAND.

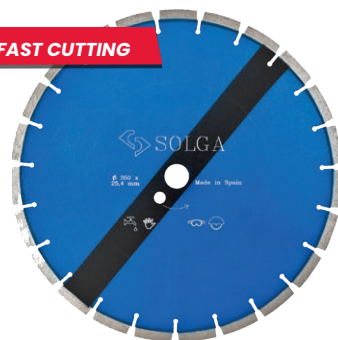
Asphalt is a mixture of pitch, a viscous, sticky and lead-coloured material, together with sand or gravel. Its final appearance is solid and brittle, as well as being insoluble in water. It is usually an abrasive material, due to the mixture of aggregates and gravel.

OTHER MATERIALS NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:

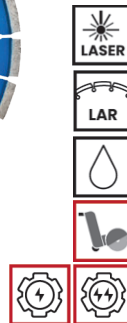
Refractory 90% alumina, silicon carbide, fresh concrete, silica sandstone.

FAST CUTTING



Finish Speed Life

●	●	●	●	○
●	●	●	●	○
●	●	●	●	○



BLADE BLZ LASER SEGMENTED

Characteristics: LAR notch offers the blade performance, durability and high resistance. Laser welding for greater safety in its use.

Advantages: Blade designed for cutting all types of abrasive and concrete-derived materials.

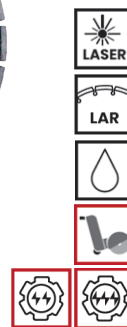
REF	Ø	Width	Height	Shaft	Entalla	Nº seg.
23506300	300	3,0	10,0	25,4	LAR	20
23506350	350	3,2	10,0	25,4	LAR	23
23506400	400	3,4	10,0	25,4	LAR	27
23506450	450	3,8	10,0	25,4	LAR	32
23506500	500	3,8	10,0	25,4	LAR	36

HIGH PERFORMANCE BLADE



Finish Speed Life

●	●	●	●	○
●	●	●	●	○
●	●	●	●	○



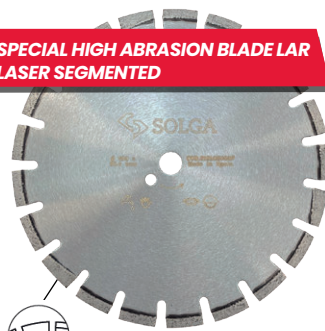
BLADE LAR LASER SEGMENTED

Characteristics: LAR notch offers the blade performance, durability and high resistance. Laser welding for greater safety in its use.

Advantages: High performance in high abrasion materials and low resistance concrete.

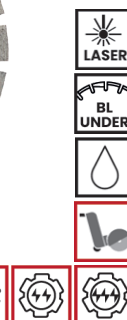
REF	Ø	Width	Height	Shaft	Nº seg.
23806300	300	3,0	10,0	25,4	20
23806350	350	3,2	10,0	25,4	23
23806400	400	3,4	10,0	25,4	27
23806450	450	3,6	10,0	25,4	32
23806500	500	3,8	10,0	25,4	36
23806600	600	4,5	10,0	25,4	42
23806700	700	5,5	10,0	60,0	50
23806800	800	6,0	10,0	60,0	57

SPECIAL HIGH ABRASION BLADE LAR LASER SEGMENTED



Finish Speed Life

●	●	●	●	○
●	●	●	●	○
●	●	●	●	○

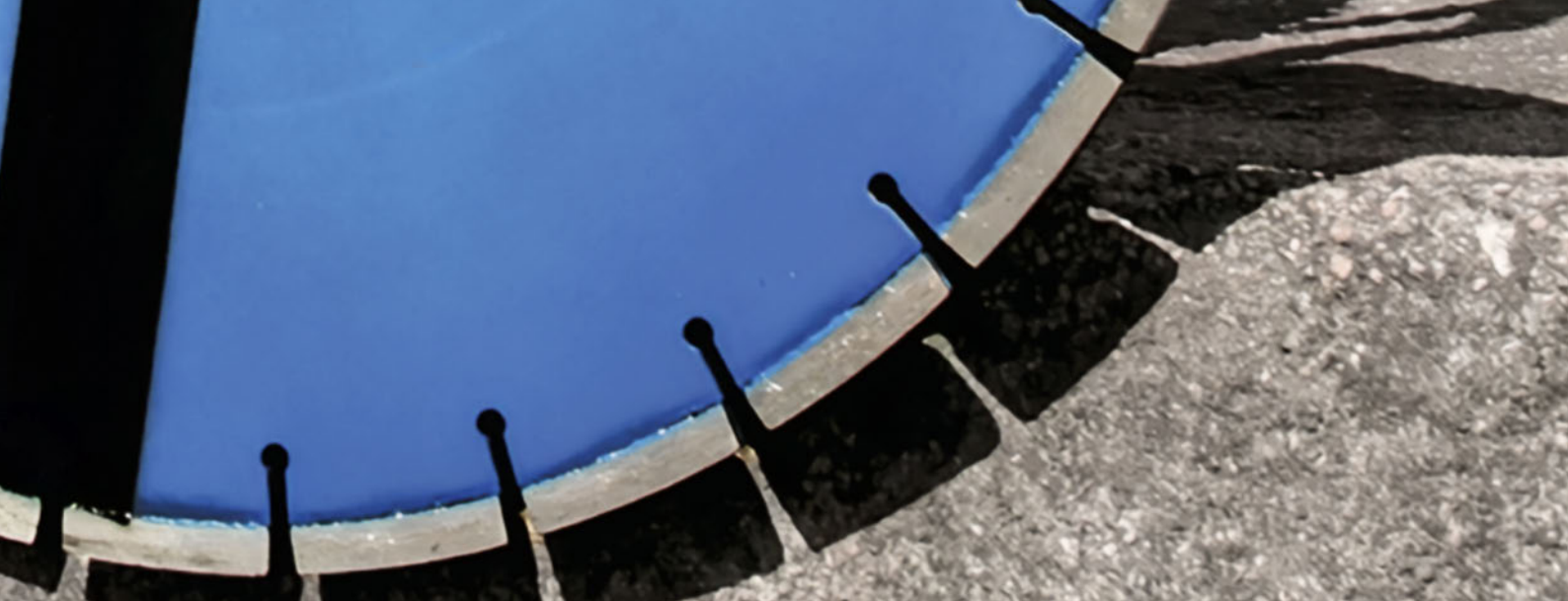


BLADE LAR LASER SEG. + UNDERCUT SEG.

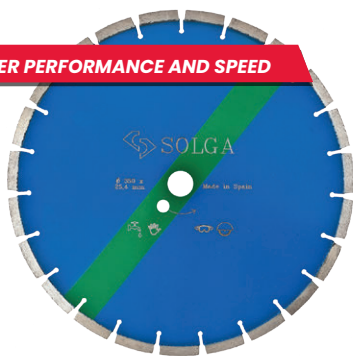
Characteristics: Notch BL offers to the blade quick cut.

Advantages: Reinforcements in the welding area with undercut segment, to prevent breakage due to excessive abrasion. Adaptable to all types of abrasive surfaces.

REF	Ø	Width	Height	Shaft	Nº seg.
212L66300P	300	3,0	10,0	25,4	18
212L66350P	350	3,0	10,0	25,4	21
212L66400P	400	3,0	10,0	25,4	24
212L66450P	450	3,3	10,0	25,4	27
212L66500P	500	3,3	10,0	25,4	30



HIGHER PERFORMANCE AND SPEED



Finish ●●●●●○
Speed ●●●●●○
Life ●●●●●○



BLADE LAR LASER SEGMENTED

Characteristics: LAR notch gives us performance, durability and high resistance of the blade. Laser welding for greater safety in its use.

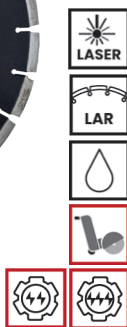
Advantages: Adaptable for all types of high-resistance calcareous and siliceous fresh concrete.

REF	Ø	Width	Height	Shaft	Entalla	Nº seg.
23006300	300	3,0	10,0	25,4	LAR	20
23006350	350	3,2	10,0	25,4	LAR	23
23006400	400	3,4	10,0	25,4	LAR	27
23006450	450	3,8	10,0	25,4	LAR	32
23006500	500	3,8	10,0	25,4	LAR	36
23006600	600	4,5	10,0	25,4	LAR	42

HIGH ABRASION FLOORS



Finish ●●●●●○
Speed ●●●●●○
Life ●●●●●●



BLADE LAR LASER SEGMENTED

Characteristics: LAR notch gives us performance, durability and high resistance of the blade. Laser welding for greater safety in its use.

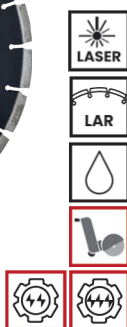
Advantages: Adaptable for all types of medium abrasion siliceous concrete.

REF	Ø	Width	Height	Shaft	Entalla	Nº seg.
23806300	300	3,0	10,0	25,4	LAR	20
23806350	350	3,2	10,0	25,4	LAR	23
23806400	400	3,4	10,0	25,4	LAR	27
23806450	450	3,8	10,0	25,4	LAR	32
23806500	500	3,8	10,0	25,4	LAR	36

HIGH AND VERY HIGH ABRASION FLOORS



Finish ●●●●●●
Speed ●●●●●○
Life ●●●●●●



BLADE LAR LASER SEGMENTED

Characteristics: LAR notch gives us performance, durability and high resistance of the blade. Laser welding for greater safety in its use.

Advantages: Adaptable for all types of high abrasion siliceous concrete, including sandstone aggregate.

REF	Ø	Width	Height	Shaft	Entalla	Nº seg.
23756300	300	3,0	10,0	25,4	LAR	20
23756350	350	3,2	10,0	25,4	LAR	23



FLOOR SAW CONCRETE FRESH

RECOMMENDED MATERIALS

CALCAREOUS-BASED (WITHOUT ABRASION) AND SILICA-BASED (WITH ABRASION) CONCRETE. HIGH, MEDIUM AND LOW RESISTANCE.

Concrete ready to be used on site. Depending on its composition and its resistance, the type of blade for cutting expansion joints or concrete structures will determine the blade type.

Depending on the aggregates used and their size, there are calcareous-based (without abrasion) and silica-based (with abrasion) concretes. They are classified as high, medium and/or low resistance. It must be cut the same day or the next, depending on the temperature. In summer it sets earlier, otherwise the pavement will crack. Fresh concrete does not achieve 70% strength for about a month.

OTHER MATERIALS NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:

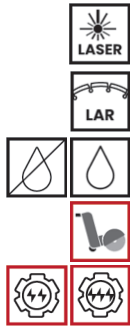
Refractory 90% alumina, silicon carbide, fresh concrete, silica sandstone.



SPECIAL ROAD CALIBRATION



Finish ● ● ● ● ○
 Speed ● ● ● ● ○
 Life ● ● ● ● ○



BLADE LAR LASER SEGMENTED

Characteristics: LAR notch offers the blade performance, durability and high resistance. Laser welding for greater safety in its use.

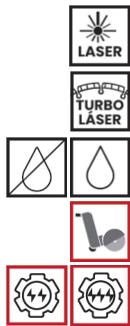
Applications: milling and calibrating concrete roads.

REF	Ø	Width	Height	Shaft	Taladro	Nºseg.
13303230T	230	2,6	8,0	90	3	19

MILLING OF ALL TYPES OF PAVEMENTS



Finish ● ● ● ● ○
 Speed ● ● ● ● ○
 Life ● ● ● ● ○

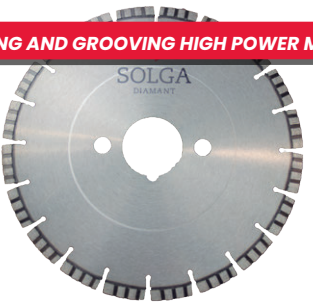


BLADE LA LASER SEGMENTED TURBO

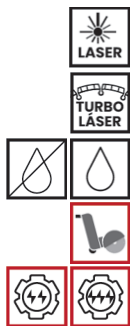
Characteristics: LAR notch and turbo-laser segment offer performance, durability, good cut finish and speed. Laser welding for greater safety in its use.

REF	Ø	Width	Height	Shaft	Taladro	Nºseg.
13466255G	255	2,3	10,0	Hex	6	17

MILLING AND GROOVING HIGH POWER MACHINES



Finish ● ● ● ● ○
 Speed ● ● ● ● ○
 Life ● ● ● ● ○



BLADE LAR LASER SEGMENTED TURBO

Characteristics: LAR notch and turbo-laser segment offer performance, durability, good cut finish and speed. Laser welding for greater safety in its use.

REF	Ø	Width	Height	Shaft	Taladro	Nºseg.
23126300	300	2,6	10,0	60	2	20

ROLLERS

RECOMMENDED MATERIALS
 CONCRETE, ASPHALT, RESIN,
 PAINT, GRANITE, TERRAZZO ETC





A roller is a set of blades fixed on a shaft in which from one to a multitude of blades can be mounted to work at the same time and cover a large work surface in the same pass. These blades can be combined to work in different widths and formats, spaced apart by spacer washers. The rollers made up of diamond blades, allow us an infinity of solutions for the treatment of surfaces such as the milling of concrete pavements, asphalt, erasure of road markings, removal of semi-elastic coatings, epoxy resin, calibration of surfaces and roads of concrete, execution of non-slip floors, anchoring for screeds, etc.

REMARKS

We make diamond blades to fit all types of drums with a variety of solutions and applications. We adapt the blades to any type of machine, application and diameter.

Check with our commercial team for more information.



SOLGA DIAMANT
Web site and RRSS

BIG SIZE DISPLAYS
Dimensions:
120x220

SOLGA Displays

Vertical display & Cupboard display

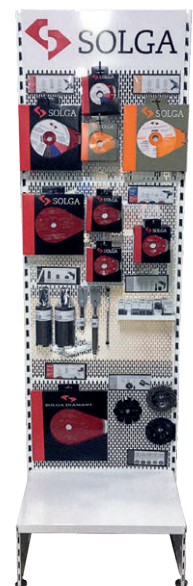
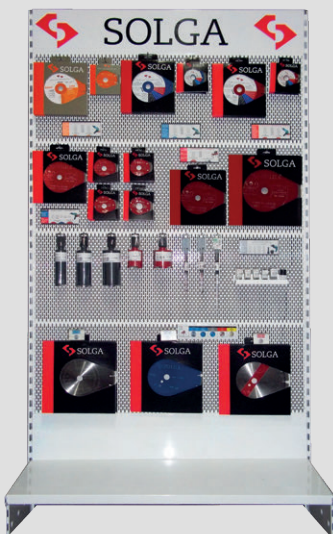
SOLGA Diamant has displays for all kinds of diamond tools. Consult with our sales team the model that suits your needs.

For all our distributors we offer the possibility of installing displays at the points of sale to promote SOLGA Diamant dry cutting tools. Ideal for giving visibility and promotion in a small space.

The vertical display allows quick and clear visibility of the available range of blades, providing information on the use and application of each tool, thus facilitating the correct choice of tools.

Contact our commercial agents to obtain information on how to acquire the displays and current offers.



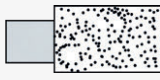
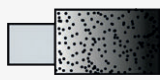
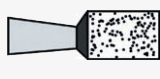
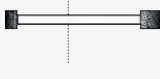

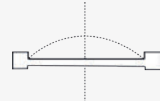

MEDIUM SIZE DISPLAY
Dimensions:
60X220

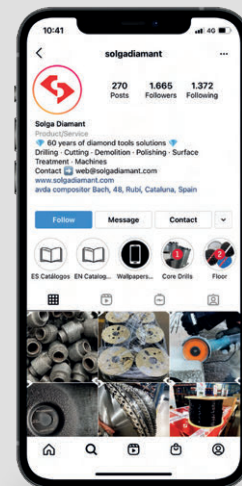




TROUBLESHOOTING

SOLGA Diamant has at your disposal the solution to a series of possible problems that any operator can find when working.

What we observe	Possible cause	Solution
Fast segment wear 	<ul style="list-style-type: none"> Inappropriate type of blade. Low cooling or peripheral speed. 	<ul style="list-style-type: none"> Change type of the blade. Increase cooling and/or peripheral and forward speed.
Segment side wear 	<ul style="list-style-type: none"> Curved / arched cuts. The blade has roughed up. Flange area dirty or incorrectly positioned. 	<ul style="list-style-type: none"> Suitable blade for application. Clean flange and blade.
Polish and closed segments 	<ul style="list-style-type: none"> Type of blade not suitable for the material. Excessive speed. 	<ul style="list-style-type: none"> Open the diamond using the blade on an abrasive material. Slow down.
Dark segments 	<ul style="list-style-type: none"> Lack of refrigeration. Blade not suitable. High peripheral speed. 	<ul style="list-style-type: none"> Increase cooling. Change type of blade. Decrease peripheral or advance speed.
Segment base wear 	<ul style="list-style-type: none"> Very abrasive material. Blade not suitable. Great depth of cut and poor cooling. 	<ul style="list-style-type: none"> Change blade type. Increase cooling.
Irregular radial wear 	<ul style="list-style-type: none"> Incorrect shaft. Incorrect or worn reduction ring. Damaged machine shaft. 	<ul style="list-style-type: none"> Check the blade shaft. Use a suitable reduction ring. Check the shaft of the machine.
Cracks in the steel body 	<ul style="list-style-type: none"> Lack of refrigeration. Shaft not centered. Loss of support rigidity. 	<ul style="list-style-type: none"> Change blade type. Check shaft. Increase cooling.
Blade with deformed or stressed support 	<ul style="list-style-type: none"> The blade has suffered a fall or accident. Overheating 	<ul style="list-style-type: none"> Use the tool correctly. Increase cooling.
Segment break 	<ul style="list-style-type: none"> Support deformation. Overheating. Hooked. 	<ul style="list-style-type: none"> Increase cooling. Remove loose items from the cut.



Check out our complete catalogue in our website or contact with us for more information about our products and services.

All our news will be available in our social networks, **follow us!!**



DIAMOND TOOLS



1. CORE DRILLS



2. FLOOR SAW BLADES



3. WALL SAW 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 SANDSTON



10. SURFACE PREPARATION



11. DRY CUTTING BLADES



12. TABLE SAW BLADES (WET CUTTING)



13. GRINDING RINGS FOR CALIBRATING



14. PRECAST DIMAOND BLADES

AUTHORIZED POINT OF SALE



V 1.0.1



FÁBRICA / ADMINISTRACIÓN

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