

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

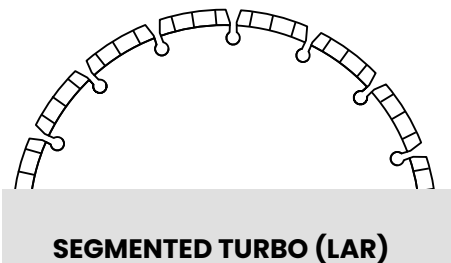
The drums composed of diamond blades allow us to work on large surfaces, with multiple finishes, such as surface milling, grooving for airport, runway, drainage, execution of non-slip floors, etc.

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

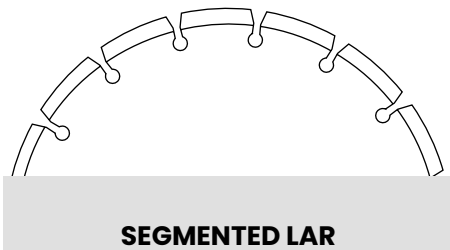
Our tools are manufactured in **our production centers located in Barcelona**, where our engineers develop solutions by mixing and sintering metal alloys with the right diamond for each application. Our laser, induction and welding centers optimize **each product to ensure maximum durability and safety**.

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

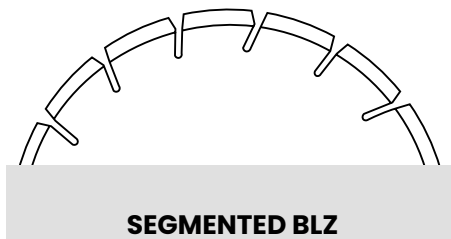
Diamond area profiles



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.



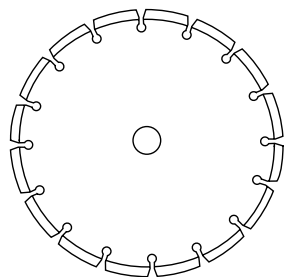
The **segmented LAR** profile is designed to achieve greater strength and durability. It is characterised by its LAR notch and laser-welded segments, to give it greater resistance. This blade is designed for medium and high power machines.



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.

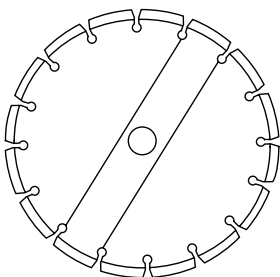
Clasification by colours

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



- Cured concrete
- Asphalt + Concrete
- Asphalt
- 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

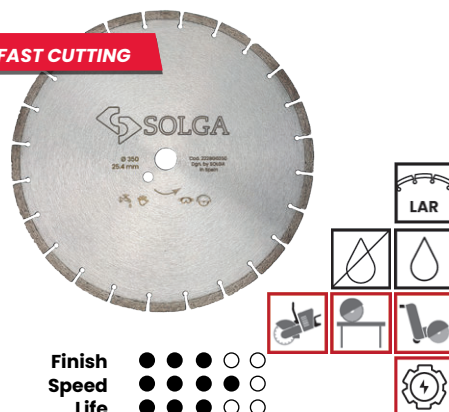
Concrete that has reached its maximum hardness. Depending on their composition and strength, the type of blade for cutting joints or concrete structures will determine the type of blade used. Depending on the aggregates used, there are concretes with a calcareous base (without abrasion) and with a siliceous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

OTHER MATERIALS
NON INTENSIVE CUT

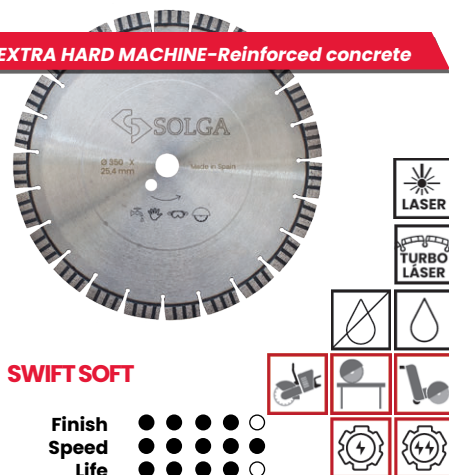
Cutting in a non-intensive way
and alternating materials:

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

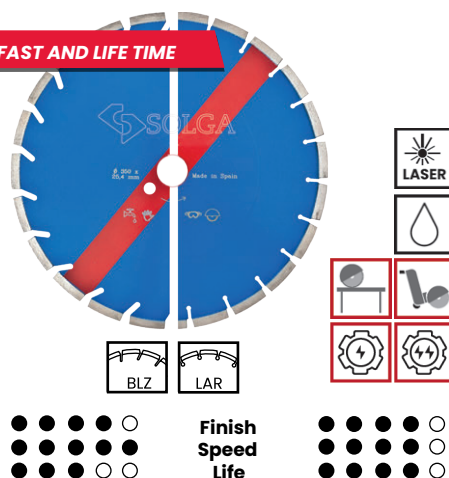
FAST CUTTING



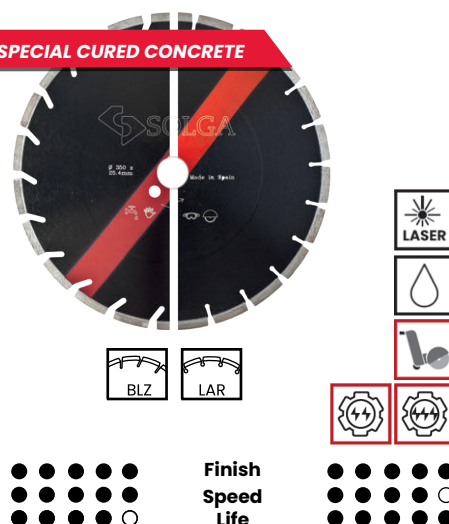
EXTRA HARD MACHINE-Reinforced concrete



FAST AND LIFE TIME



SPECIAL CURED CONCRETE



BLADE LAR SINTER SEG.

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

Advantages: Fast cutting.

REF	Ø	Width	Height	Shaft	N° seg.
230BG6300	300	3,2	10,0	25,4	20
230BG6350	350	3,2	10,0	25,4	23

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	N° 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

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	N° 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

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	N° 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

SOLGA Diamant Floor saw blades



FAST CUTTING



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



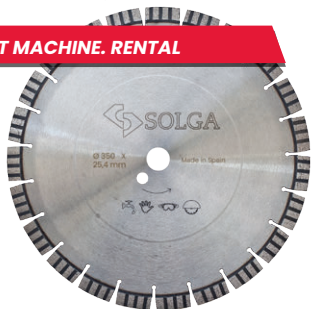
BLADE LAR SINTER SEG. LISO

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

Advantages: Fast cutting.

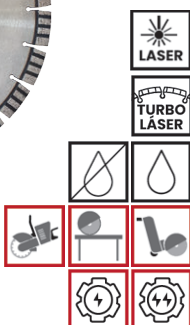
REF	Ø	Width	Height	Shaft	Nº seg.
232BG6300	300	3,2	10,0	25,4	20
232BG6350	350	3,2	10,0	25,4	23

LIGHT MACHINE. RENTAL



SWIFT

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



BLADE LAR LASER SEG. TURBO

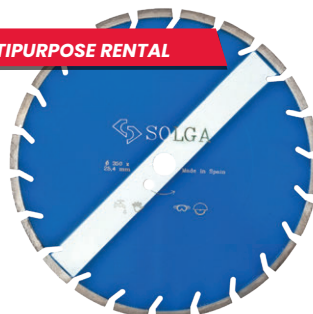
Characteristics: LAR flange and turbo-laser segment offer performance, durability, good cutting finish and speed. Laser welding for greater safety in use.

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

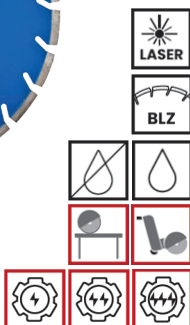
REF	Ø	Width	Height	Shaft	Nº seg.
231I7300	300	2,8	15,0	25,4	20
231I7350	350	3,0	15,0	25,4	23
231I7400	400	3,2	15,0	25,4	26

*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.

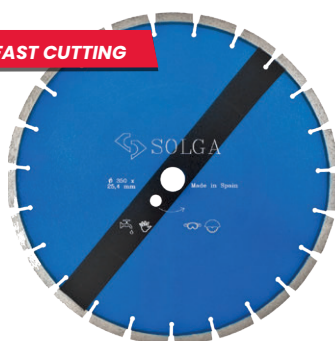
Asphalt is a mixture of pitch, a viscous, sticky and lead-coloured material, together with sand or gravel. Its final appearance is solid and brittle, as well as being insoluble in water. It is usually an abrasive material, due to the mixture of aggregates and gravel.

OTHER MATERIALS NON INTENSIVE CUT

*Cutting in a non-intensive way
and alternating materials:*

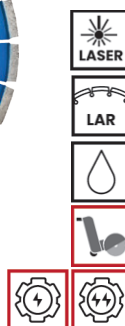
Refractory 90% alumina, silicon carbide, fresh concrete, silica sandstone.

FAST CUTTING



Finish
Speed
Life

● ● ● ● ●
● ● ● ● ●
● ● ● ● ●

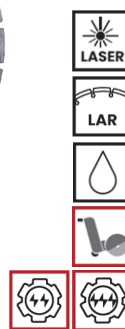


HIGH PERFORMANCE BLADE

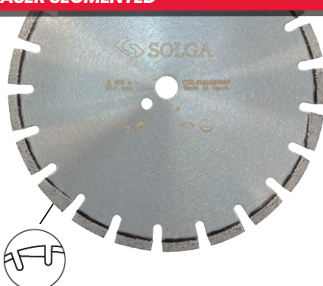


Finish
Speed
Life

● ● ● ● ●
● ● ● ● ●
● ● ● ● ●

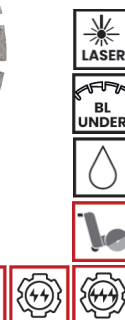


SPECIAL HIGH ABRASION BLADE LAR LASER SEGMENTED



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

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.

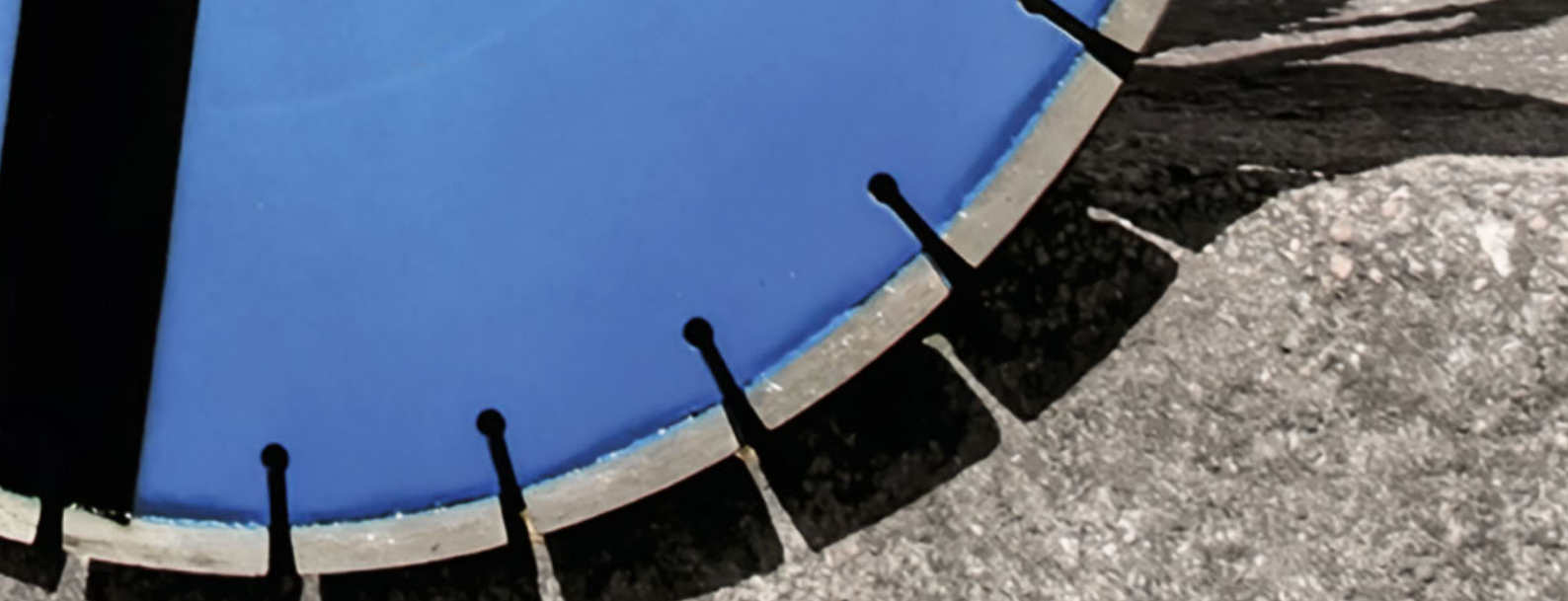
REF	Ø	Width	Height	Shaft	Nº seg.
23806300	300	3,0	10,0	25,4	20
23806350	350	3,2	10,0	25,4	23
23806400	400	3,4	10,0	25,4	27
23806450	450	3,6	10,0	25,4	32
23806500	500	3,8	10,0	25,4	36
23806600	600	4,5	10,0	25,4	42
23806700	700	5,5	10,0	60,0	50
23806800	800	6,0	10,0	60,0	57

BALDE LAR LASER SEG. + UNDERCUT SEG.

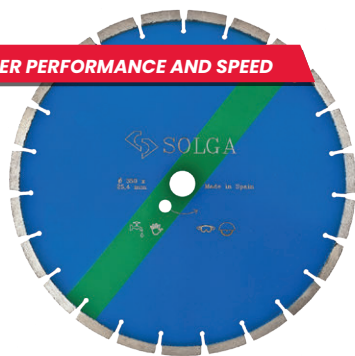
Characteristics: Notch BL offers to the blade quick cut.

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.
212LG6300P	300	3,0	10,0	25,4	18
212LG6350P	350	3,0	10,0	25,4	21
212LG6400P	400	3,0	10,0	25,4	24
212LG6450P	450	3,3	10,0	25,4	27
212LG6500P	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.

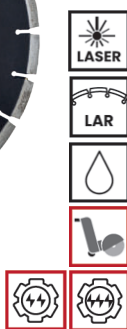
Advantages: Adaptable for all types of high-resistance calcareous and siliceous fresh concrete.

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.

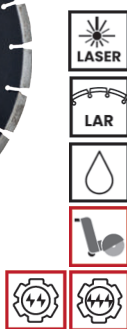
Advantages: Adaptable for all types of medium abrasion siliceous concrete.

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

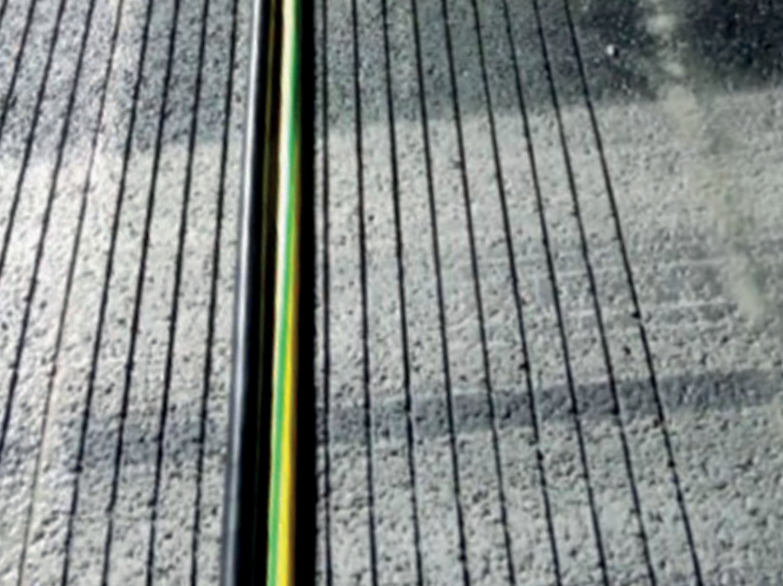
CALCAREOUS-BASED (WITHOUT ABRASION) AND SILICA-BASED (WITH ABRASION) CONCRETE. HIGH, MEDIUM AND LOW RESISTANCE.

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.



MILLING

RECOMMENDED MATERIALS

CONCRETE AND ASPHALT PAVEMENTS, BUT WE ALSO PROVIDE FOR OTHER TYPES OF STONE SURFACES, SUCH AS GRANITE OR MARBLE

These types of tools meant for special jobs that cannot be done with standard blades. High power machines are required:

1. Repair of joints.
2. Floor wiring.
3. Repair of fissures.
4. Rain gutters.
5. Grooving to prevent aquaplaning.
6. Calibrating.
7. Floor lowering.

OTHER MATERIALS NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:
Granite and hard materials in general.

HIGH ABRASION PAVEMENTS



Finish
Speed
Life

● ● ● ● ●
● ● ● ● ●



MILLING BLADE SEGMENTED

Optimal cut: Concrete, asphalt.

Characteristics: Milling wheels built for fast cutting with high profitability. Ideal for floor wiring at airports. Carrying out chasing, grooving pavement, repairing joints, rain gutters.

REF	Ø	Width	Height	Shaft	N° seg.
44-04300	300	10,0	7,00	a deter.	26
44-06300	300	15,0	7,00	a deter.	26
44-07300	300	20,0	7,00	a deter.	26
44-04350	350	10,0	7,00	a deter.	30
44-06350	350	15,0	7,00	a deter.	30
44-07350	350	20,0	7,00	a deter.	30

REPAIR EXPANSION JOINTS



Finish
Speed
Life

● ● ● ● ●
● ● ● ● ●



MILLING WHEEL V-SHAPE SEGMENTED

Characteristics: Special to make new expansion joints in V-shape.

V-shaped milling blade for repairing expansion joints or cracks. Blade design for high thickness.

REF	Ø	Width	Height	Shaft	N° seg.
53442300	305	9,6	13,0	25,4	20
53442350	355	9,6	13,0	25,4	23

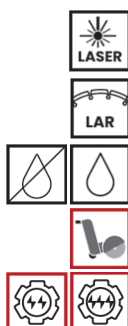
We have different thickness



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.

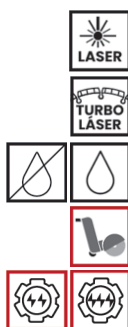
Applications: milling and calibrating concrete roads.

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 ● ● ● ● ● ○

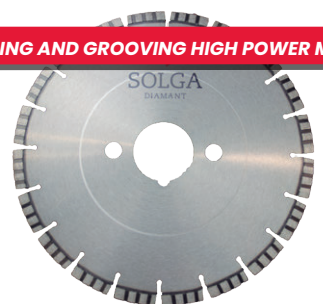


BLADE LA LASER SEGMENTED TURBO

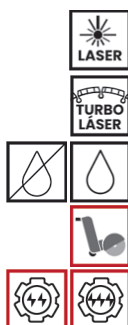
Characteristics: LAR notch and turbo-laser segment offer performance, durability, good cut finish and speed. Laser welding for greater safety in its use.

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.

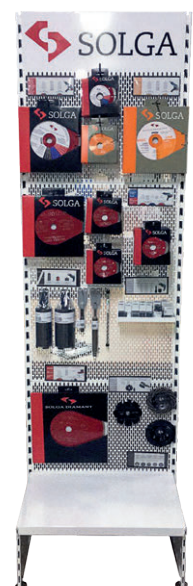
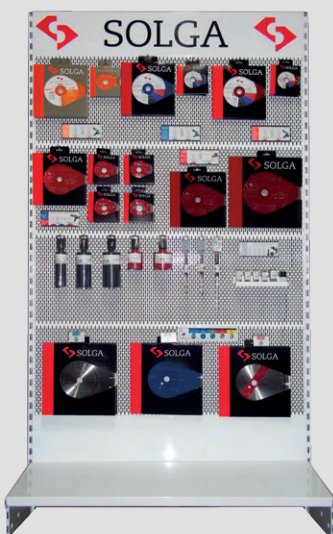
For all our distributors we offer the possibility of installing displays at the points of sale to promote SOLGA Diamant dry cutting tools. Ideal for giving visibility and promotion in a small space.

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

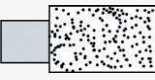
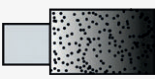
Dimensions:
60X220

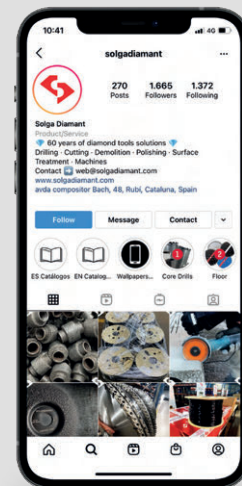




TROUBLESHOOTING

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		
	- Inappropriate type of blade. - Low cooling or peripheral speed.	- Change type of the blade. - Increase cooling and/or peripheral and forward speed.
Segment side wear		
	- Curved / arched cuts. - The blade has roughed up. - Flange area dirty or incorrectly positioned.	- Suitable blade for application. - Clean flange and blade.
Polish and closed segments		
	- Type of blade not suitable for the material. - Excessive speed.	- Open the diamond using the blade on an abrasive material. - Slow down.
Dark segments		
	- Lack of refrigeration. - Blade not suitable. - High peripheral speed.	- Increase cooling. - Change type of blade. - Decrease peripheral or advance speed.
Segment base wear		
	- Very abrasive material. - Blade not suitable. - Great depth of cut and poor cooling.	- Change blade type. - Increase cooling.
Irregular radial wear		
	- Incorrect shaft. - Incorrect or worn reduction ring. - Damaged machine shaft.	- Check the blade shaft. - Use a suitable reduction ring. - Check the shaft of the machine.
Cracks in the steel body		
	- Lack of refrigeration. - Shaft not centered. - Loss of support rigidity.	- Change blade type. - Check shaft. - Increase cooling.
Blade with deformed or stressed support		
	- The blade has suffered a fall or accident. - Overheating	- Use the tool correctly. - Increase cooling.
Segment break		
	- Support deformation. - Overheating. - Hooked.	- 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 DIAMOND BLADES



FÁBRICA / ADMINISTRACIÓN

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Avda. del Compositor Bizet, 49
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Tel: +34 (93)-588 46 26
info@solgadiamant.com

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Tel: +34 (93)-588 46 26
comercial@solgadiamant.com

ALMACÉN / SERVICIOS COMERCIALES MÉXICO

SOLGAMEX S. DE R.L. DE C.V.
Vicente guerrero 20, bodega 28
San Antonio Zomeyucan, Naucalpan
de Juárez, 53750, México.
Tel: +52 1 5534201611
solgamex@solgadiamant.com

AUTHORIZED POINT OF SALE



V 1.0.1

12



SOLGA

TABLE SAW BLADES (WET CUTTING)





DIAMOND BLADES

WET CUTTING

Classification by materials

SOLGA DIAMANT offers color 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.

**Orange SERIES**

page 4

GENERAL PURPOSE.

Orange SERIES designed for **non intensive use** on materials with medium abrasion.

Blades with low diamond concentration, to achieve better performance in **low power machines**.

**Blue SERIES**

page 8

PROFESSIONAL GENERAL PURPOSE.

Blue SERIES has been designed for **professional work** on medium abrasion materials.

Blades with medium diamond concentration, for use with **low, medium and high power machines**.

**Black SERIES**

page 6

ABRASIVE MATERIALS.

Black SERIES, has been designed for **intensive and professional cutting** of high abrasion materials.

Blades with high diamond concentration, **for use in medium and high power machines**.

**Red SERIES**

page 7

HARD MATERIALS.

Red SERIES, has been designed for **intensive and professional cutting** of highly hard materials.

Blades with high diamond concentration, **for use in medium and high power machines**.

**Porcelanic SERIES**

page 8

CERAMIC AND PORCELAIN MATERIALS.

Porcelanic SERIES, has been designed for **professional cutting** without chipping of materials with a vitrified finish, such as stoneware and porcelain. For high hardness materials. **Use in low, medium and high power machines**.

**Porcelanic SERIES PLUS**

page 9

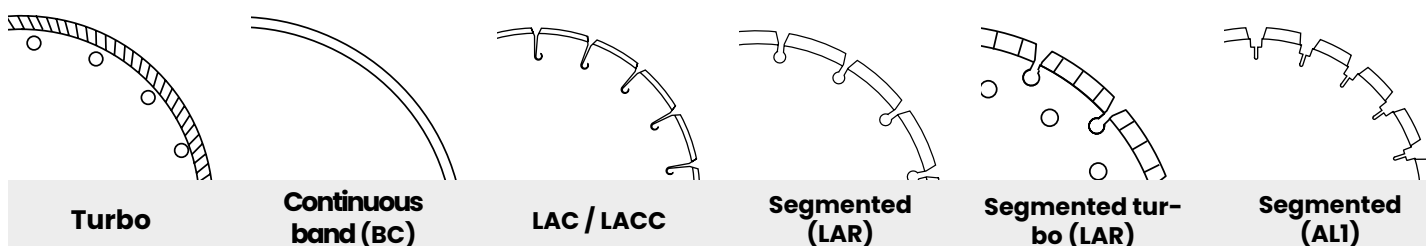
Porcelanic SERIES+, They have been designed **for professional cutting without chipping** of materials up to hardness 9, with a vitrified finish, such as stoneware, porcelain and **ultra compact**. Blades with a high concentration of diamond and fine granulometry to obtain perfect finishes. Use in **medium and high power machines**.

SOLGA DIAMANT As a European manufacturer of diamond tools, we offer 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 color 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 working parameters that will allow you to obtain the best results.

Diamond area profiles



Combination of continuous band (BC) with a turbo segmentation type, offer a superior cut quality, for a clean cut without breaks.

Continuous band to obtain fine finishes, without breaks and speed of cutting. Indicated for cutting extra hard, vitrified materials.

Narrow closed notch. With the minimum separation between segments, it guarantees a break-free cut as there is no gap between segments.

Narrow notch. With this notching of the blade, the best cutting finish is sought, since the jump between segments is practically imperceptible.

Combination of **narrow notch (LAR) with turbo segmentation**, to achieve speed and better cut finish (even at low power).

Open notch. Designed to conform cutting speed, even at low power.

Material table	Stoneware Porcelanic	Stoneware extruded	Marbre	Slate	Granite	Terrazo	Refractory Brick	Face side Brick	Klinker Brick	Cured concrete	Reinforce concrete	Asphalt	Asbestos cement	Sandstone silicon
Blue SERIES		●		●	●	●	●	★	●	●		●	●	●
Red SERIES	★			★	★	★		★	●	★	★			
Black SERIES		★					★	●	★	★	●	★	★	★
Porcelanic SERIES			★											

★ Optimal use
● Alternative use



LOW POWER

- 3 CV Monophasic



MEDIUM POWER

- 3 y 4 CV Monophasic and Triphasic



HIGH POWER

+ 4 CV Triphasic

Solga Diamant recommends to use the blades according to the machine power indicated on each blade, for greater durability and performance. If you have any questions, you can contact our sales team.



Orange SERIES

UNIVERSAL MATERIALS

RECOMMENDED MATERIALS

ARTIFICIAL STONE, BRICK
(SOLID, FACING BRICK,
HOLLOW) TONGUE AND
GROOVE, TILE, SANDSTO-
NE, TERRAZZO, CONCRETE,
THERMOCLAY, REFRACTORY.

Range designed for cutting
general construction materials
with medium abrasion, where we
combine highly versatile metal
alloys, achieving an econo-
mical and decisive product.
With a soft league for a quick
renewal of the diamond.

OTHER MATERIALS NON INTENSIVE CUT

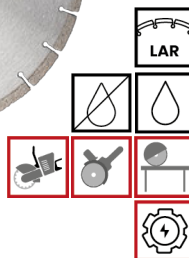
*Cutting in a non-intensive way
and alternating materials:*

Granite, slate, cobblesto-
ne, Silestone, basalt, quartzite,
corundum, porphyry, pumice
stone, asphalt, refractory, vaults,
gero concrete, concrete tile and
antacid brick.

GOOD FINISH



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



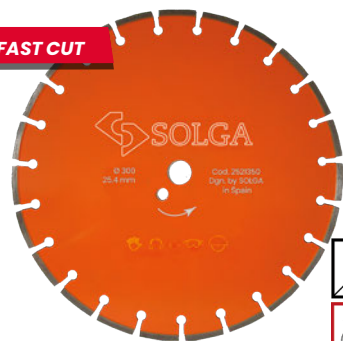
ORANGE BLADE LAR SINTER FLAT SEG.

Characteristics: LAR notch gives us per-
formance, durability and cut finish.

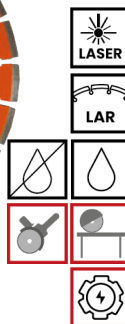
REF	Ø	Width	High	Shaft	N° seg.
230BG6300	300	3,2	10,0	25,4	20
230BG6350	350	3,2	10,0	25,4	23

**Also available in shaft 20,0 mm.*

FAST CUT



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

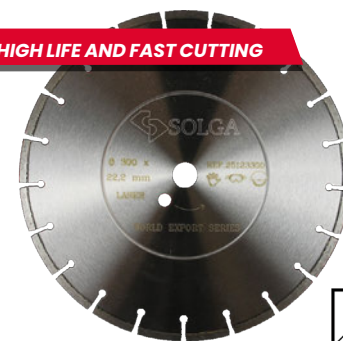


ORANGE BLADE LAR LASER FLAT SEG.

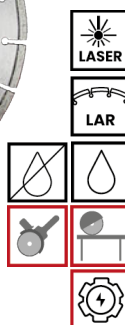
Characteristics: LAR notch offers the
blade performance, durability and high
resistance. Laser welding for greater
safety in its use.

REF	Ø	Width	High	Shaft	N° seg.
25213300	300	2,8	7,0	25,4	20

HIGH LIFE AND FAST CUTTING



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



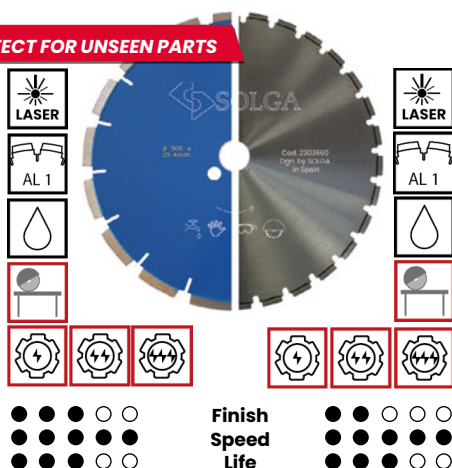
ORANGE BLADE LAR LASER FLAT SEG.

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

REF	Ø	Width	High	Shaft	N° seg.
25113300	300	2,8	7,0	25,4	21



PERFECT FOR UNSEEN PARTS

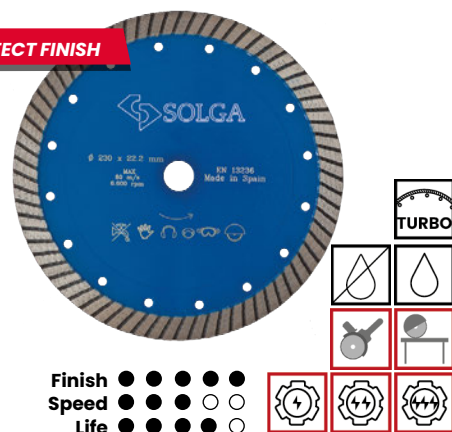


BLUE BLADE AL-1 LASER FLAT SEG.

Characteristics: AL1 open notch offers high cutting speed, as well as allowing the cutting of thick workpieces. Laser welding for safety.

REF	Ø	Width	High	Shaft	Notch	N° seg.
21306300	300	2,8	10,0	25,4	AlI	18
21306350	350	3,0	10,0	25,4	AlI	21
21306400	400	3,4	10,0	25,4	AlI	24
21306450	450	3,6	10,0	25,4	AlI	26
21306500	500	3,8	10,0	25,4	AlI	30
21306600	600	4,5	10,0	25,4	BL	35
21306650	650	4,5	10,0	25,4	BL	38
21306700	700	4,5	10,0	35,0	BL	40
21306800	800	4,5	10,0	35,0	BL	46
21306900	900	4,5	10,0	35,0	BL	48

PERFECT FINISH

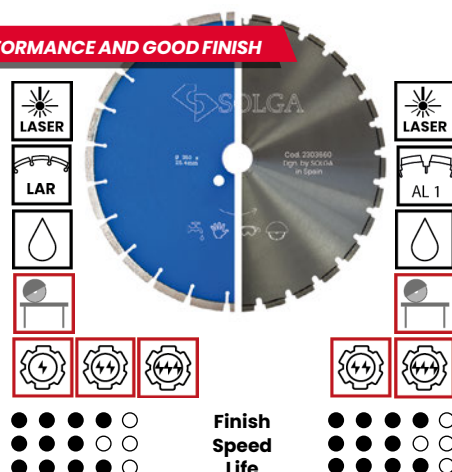


BLUE BLADE BC SEG. TURBO

Characteristics: Continuous band with turbo segment design for a perfect finish.

REF	Ø	Width	High	Shaft	Notch	N° seg.
10704300	300	3,0	7,5	25,4	Turbo	BC
10704350	350	3,0	7,5	25,4	Turbo	BC

PERFORMANCE AND GOOD FINISH



BLUE LAR LASER FLAT SEG. BLADE

Characteristics: Special blades for cutting concrete and concrete blocks. Designed in LAR notch for greater performance, durability. With laser welding for greater safety in its use.

REF	Ø	Width	High	Shaft	Notch	N° seg.
23306300	300	2,8	10,0	25,4	LAR	20
23306350	350	3,0	10,0	25,4	LAR	23
23306400	400	3,4	10,0	25,4	LAR	27

BLOCK CUTTER ALI BLADE

REF	Ø	Width	High	Shaft	Notch	N° seg.
23036600	600	4,5	10,0	60	AlI	30
23036650	650	4,5	10,0	60	AlI	33
23036700	700	4,5	10,0	60	AlI	35
23036750	750	4,5	10,0	60	AlI	40
23036900	900	4,5	10,0	60	AlI	45



Blue SERIES

UNIVERSAL MATERIAL PRO

RECOMMENDED MATERIALS

ARTIFICIAL STONE, BRICK (SOLID, FACING BRICK, HOLLOW) TONGUE AND GROOVE, TILE, SANDSTONE, TERRAZZO, CONCRETE, THERMOCLAY, REFRACTORY.

Range designed for cutting general materials with medium abrasion, where we combine very versatile metal alloys so that the diamond emerges depending on the type of material being cut. Achieving greater durability of the tool in a wide range of materials.

OTHER MATERIALS NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:

Granite, terrazzo, slate, refractory, cobblestone, Silestone, concrete tile, basalt, quartzite, corundum, porphyry, pumice stone, asphalt, vaults, gero concrete, anti-acid brick.



Black SERIES

ABRASIVE MATERIALS

RECOMMENDED MATERIALS

CONCRETE, ASPHALT,
SANDSTONE, REFRACTORY,
VAULT, GERO, SILESTONE,
TILE, BRICK.

Range designed for cutting
abrasive, porous and concrete
derived materials, where
we combine abrasion/resistant
metal bonds that allow the
diamond to be kept in the bond,
making the most of its useful life.

OTHER MATERIALS NON INTENSIVE CUT

*Cutting in a non-intensive way
and alternating materials:*
Sandstone, terrazzo and concrete
(calcareous) and thermoclay.

REMARKS

High performance in abrasive,
porous and concrete-derived
materials.

PERFECT FINISH

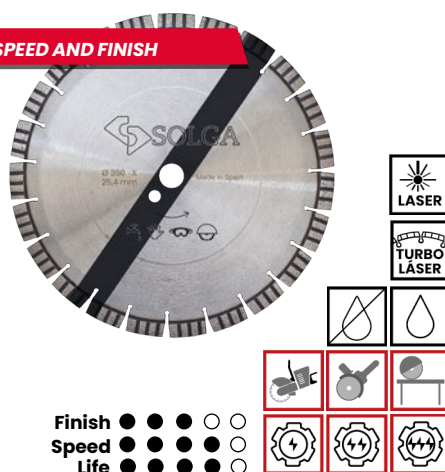


BLACK BLADE BC SEG. TURBO

Characteristics: Continuous band and turbo segment design, to achieve a perfect finish.

REF	Ø	Width	High	Shaft	N° seg.
10404300	300	3,0	7,5	25,4	TURBO
10404350	350	3,0	7,5	25,4	TURBO

SPEED AND FINISH

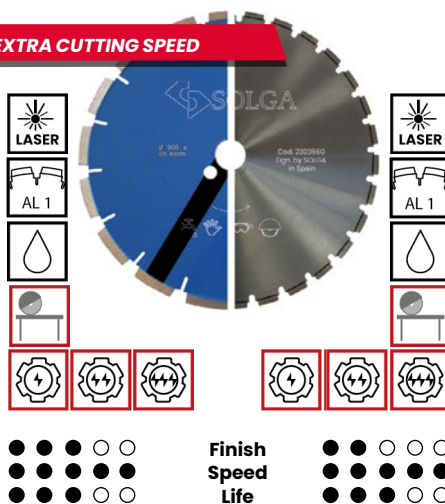


BLACK BLADE LAR SEG. TURBO LASER

Characteristics: LAR notch and turbo-laser segment offer performance, durability, good cutting finish and speed at maximum depth (thicker pieces). Laser welding for greater safety in its use.

REF	Ø	Width	High	Shaft	N° 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

EXTRA CUTTING SPEED



BLACK BLADES AL1 LASER FLAT SEG.

Characteristics: AL1 open notch offers high cutting speed, in addition to allowing the cutting of thick pieces with no visible face, where the finish does not need to be perfect. Laser welding for greater safety in its use.

REF	Ø	Width	High	Shaft	Notch	N° seg.
21502300	300	3,0	8,0	25,4	AL1	18
21506350	350	3,2	10,0	25,4	AL1	21
21506400	400	3,4	10,0	25,4	AL1	24

BLUE BLADE BLOCK CUTTER ABRASIVE

REF	Ø	Width	High	Shaft	Notch	N° seg.
23026600	600	4,5	10,0	60	AL1	30
23026650	650	4,5	10,0	60	AL1	33
23020700	700	4,5	10,0	60	AL1	35
23020900	900	4,5	10,0	60	AL1	0

PERFORMANCE AND GOOD FINISH



BLACK BLADE LAR LASER FLAT SEG.

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

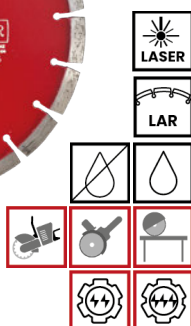
REF	Ø	Width	High	Shaft	N° seg.
23506300	300	3,0	10,0	25,4	18
23506350	350	3,2	10,0	25,4	21
23506400	400	3,4	10,0	25,4	24



GOOD FINISH



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

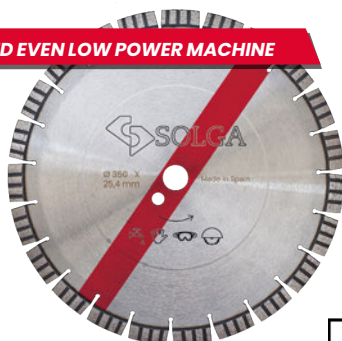


RED BLADE LAR LASER FLAT SEG.

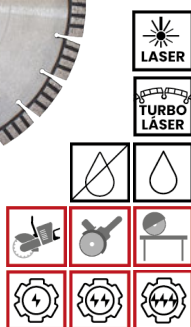
Characteristics: LAR notch offers the blade performance, durability and high resistance. Laser welding for greater safety in its use.

REF	Ø	Width	High	Shaft	N° seg.
13306300	300	3,05	10,0	25,4	20
13306350	350	3,2	10,0	25,4	23

SPEED EVEN LOW POWER MACHINE



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

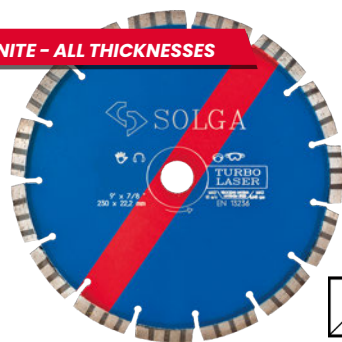


RED BLADE LAR SEG. TURBO LASER

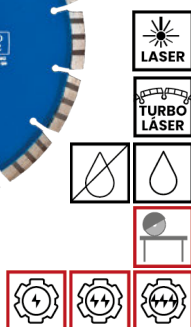
Characteristics: LAR notch and turbo-laser segment offer performance, durability, good cutting finish and speed at maximum depth (thicker pieces). Laser welding for greater safety in its use.

REF	Ø	Width	High	Shaft	N° seg.
231S7300	300	2,8	15,0	25,4	20
231S7350	350	3,2	15,0	25,4	23
231S7400	400	3,2	15,0	25,4	26

GRANITE - ALL THICKNESSES



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



RED BLADE LAR SEG. TURBO LASER

Characteristics: LAR notch and turbo-laser segment offer performance, durability, good cutting finish and speed at maximum depth (thicker pieces). Laser welding for greater safety in its use. Special blade due to its coarser diamond granulometry than standard blades, to achieve faster cutting in thick pieces.

REF	Ø	Width	High	Shaft	N° seg.
23206300	300	2,8	10,0	25,4	20
23206350	350	3,1	10,0	25,4	23
23206400	400	3,2	10,0	25,4	27



Red SERIES

HARD MATERIAL

RECOMMENDED MATERIALS

GRANITE, TERRAZZO, SLATE,
COBBLESTONE, REINFOR-
CED CONCRETE, SILESTONE
BASALT, QUARTZITE, CORUN-
DUM, PORPHYRY, PUMICE.

Range designed for cutting hard materials, where we combine metal alloys that prevent loss of cutting capacity. The blade has a soft alloy and strong diamonds.

OTHER MATERIALS NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:
Reinforced concrete, extruded material, Greco stoneware, asphalt, refractory, vaults, gero and concrete tile. All kinds of face bricks, compact and solid.

REMARKS

High performance in compact materials of high hardness.



Green SERIES

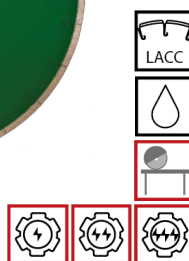
VITRIFIED
MATERIALS

RECOMMENDED MATERIALS
CERAMIC, TILES, MARBLE, GLASS.

PERFECT STRAIGHT AND 45° CUT



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



RIM BLADE LACC GREEN

Characteristics: Continuous band with laser cut notch, to guarantee a cut without breaks. Perfect straight and miter cut with chip-free finishes. Soft league for a quick renewal of the diamond.

REF	Ø	Width	High	Shaft	N° seg.
20000180	180	1,6	7,0	25,4	LACC
20000200	200	1,6	7,0	25,4	LACC
20000231	230	1,6	7,0	25,4	LACC
20000250	250	1,6	7,0	25,4	LACC
20000300	300	2,0	7,0	25,4	LACC
20000350	350	2,0	7,0	25,4	LACC

Ceramics Porcelain SERIES

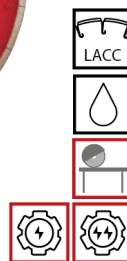
HARD
MATERIALS

RECOMMENDED MATERIALS
VITRIFIED: CERAMIC,
STONEWARE, PORCELAIN.

SPECIAL EXTRA FINE BP MACHINES



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



RIM BLADE LACC GRES

Characteristics: Continuous band with laser cut notch, to guarantee a cut without breaks. Perfect straight and miter cut with chip-free finishes. Soft bond for a rapid renovation of the diamond with a fine granulometry for a perfect finish.

REF	Ø	Width	High	Shaft	N° seg.
20010180	180	1,6	7,0	25,4	LACC
20010200	200	1,6	7,0	25,4	LACC
20010231	230	1,6	7,0	25,4	LACC
20010250	250	1,6	7,0	25,4	LACC
20010300	300	2,0	7,0	25,4	LACC
20010350	350	2,0	7,0	25,4	LACC

OTHER MATERIALS NON INTENSIVE CUT

*Cutting in a non-intensive way
and alternating materials:*

Gresite, Silestone, terrazzo,
and granite, thin construction
pieces.

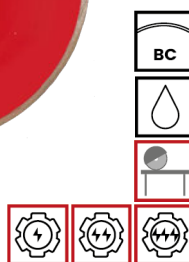
REMARKS

This range of blades is designed
exclusively for cutting pieces with
a maximum thickness of 2 cm.
Blade for all types of low power
table machines.

REINFORCED SPECIAL MITER



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



RIM BLADE BC PORCELAIN

Characteristics: Continuous band with laser cut notch, to guarantee a cut without breaks. Perfect straight and miter cut with chip-free finishes. Soft bond for a rapid renovation of the diamond with a fine granulometry for a perfect finish.

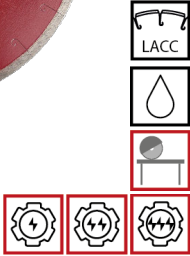
REF	Ø	Width	High	Shaft	N° seg.
20012180	180	1,9	7,0	25,4	BC
20012200	200	1,9	7,0	25,4	BC
20012230	230	1,9	7,0	25,4	BC
20012250	250	1,9	7,0	25,4	BC
20012300	300	2,0	7,0	25,4	BC
20012350	350	2,0	7,0	25,4	BC



SPECIAL LONG FORMAT TABLES



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



RIM LACC PORCELAIN PLUS BLADE

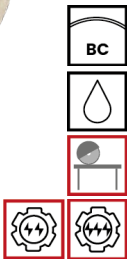
Characteristics: Continuous band with laser cut notch, to guarantee a cut without breaks. Perfect straight and miter cut with chip-free finishes. Soft bond for a rapid renovation of the diamond with a fine granulometry for a perfect finish.

REF	Ø	Width	High	Shaft	Nº seg.
20021250	250	2,0	7,5	25,4	LACC
20021300	300	2,0	7,5	25,4	LACC
20021350	350	2,4	7,5	25,4	LACC

SPECIAL LONG FORMAT TABLES



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



DISCO RIM BC PORCELAIN PLUS

Characteristics: Continuous band to achieve a perfect miter and straight cut with finishes without chipping or breaks in the material. Soft league for a quick renewal of the diamond.

REF	Ø	Width	High	Shaft	Nº seg.
20032300	300	2,2	10,0	25,4	BC
20032350	350	2,6	10,0	25,4	BC

Ceramics Porcelain

SERIES

PLUS HARD MATERIALS

RECOMMENDED MATERIALS

STONEWARE, PORCELAIN, ULTRA COMPACT (DEKTON, COVERLAM, COMPAC NEOLITH).

OTHER MATERIALS NON INTENSIVE CUT

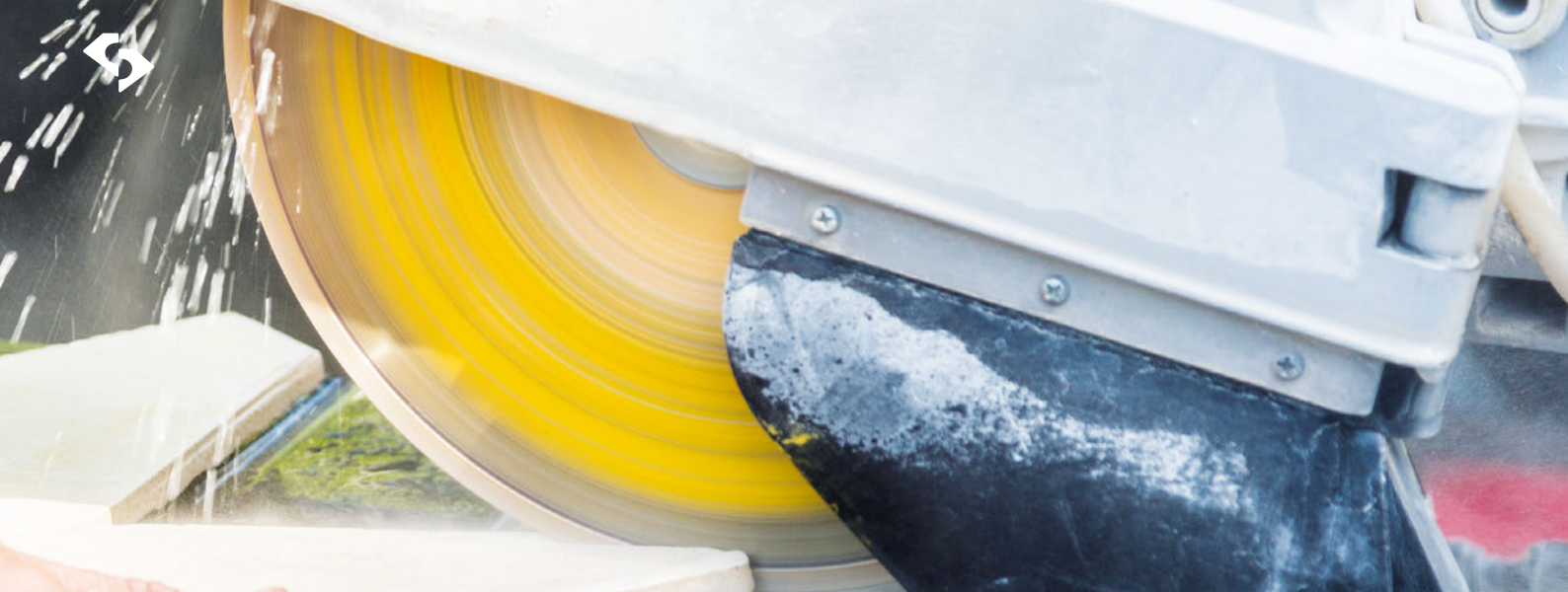
Cutting in a non-intensive way and alternating materials:

Granite, Silestone, terrazzo, compact construction pieces of little thickness.

REMARKS

Range designed exclusively for cutting pieces up to 2 cm thick. For use in all types of tabletop machines. Ideal for long-format tables and for ventilated facades.





Specific SERIES

SPECIFIC SERIES

Blade range for exclusive cutting of the same type of material, optimizing performance and cutting speed.

REMARKS

These blades must be used in medium and high power machines.

PERFECT STRAIGHT AND 45° CUT



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



SPECIFIC BLADE LAR LASER MARBLE

Recommended materials: Marble, alabaster, calcareous stones.

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

REF	Ø	Width	High	Shaft	N° seg.
3220230413	300	2,8	8,0	25,4	21
3220235413	350	3,2	8,0	25,4	24

THE BEST FOR INDUSTRIAL REFRACTORIES



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



SPECIFIC BLADE LAR LASER REFRACTORY

Recommended materials: In all types of refractories with different concentrations of alumina.

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

REF	Ø	Width	High	Shaft	N° seg.
38203304	300	3,2	8,0	25,4	21
38203354	350	3,2	8,0	25,4	24

PERFECT CUT AND HIGH PERFORMANCE



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



SPECIFIC BLADE LAR LASER TERRAZZO

Recommended materials: In all types of terrazzo, with perfect finishes on the exposed side.

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

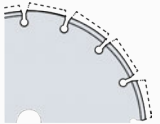
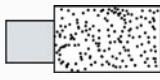
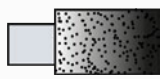
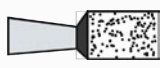
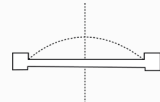
REF	Ø	Width	High	Shaft	N° seg.
31200303	300	2,8	8,0	22,2	21
31200350	350	3,2	8,0	60	24

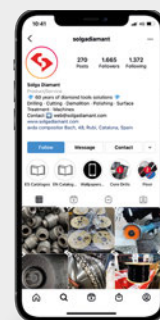
SOLGA DIAMANT. Table saw blades (wet cutting)



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		
	- Inappropriate type of blade. - Low cooling or peripheral speed.	- Change type of the blade. - Increase cooling and/or peripheral and forward speed.
Segment side wear		
	- Curved / arched cuts. - The blade has roughed up. - Flange area dirty or incorrectly positioned.	- Suitable blade for application. - Clean flange and blade.
Polish and closed segments		
	- Type of blade not suitable for the material. - Excessive speed.	- Open the diamond using the blade on an abrasive material. - Slow down.
Dark segments		
	- Lack of refrigeration. - Blade not suitable. - High peripheral speed.	- Increase cooling. - Change type of blade. - Decrease peripheral or advance speed.
Segment base wear		
	- Very abrasive material. - Blade not suitable. - Great depth of cut and poor cooling.	- Change blade type. - Increase cooling.
Irregular radial wear		
	- Incorrect shaft. - Incorrect or worn reduction ring. - Damaged machine shaft.	- Check the blade shaft. - Use a suitable reduction ring. - Check the shaft of the machine.
Cracks in the steel body		
	- Lack of refrigeration. - Shaft not centered. - Loss of support rigidity.	- Change blade type. - Check shaft. - Increase cooling.
Blade with deformed or stressed support		
	- The blade has suffered a fall or accident. - Overheating	- Use the tool correctly. - Increase cooling.
Segment break		
	- Support deformation. - Overheating. - Hooked.	- 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!!**



DISPLAYS SOLGA DIAMANT



Solga Diamant has a range of displays for different diamond tools and formats.



DIAMOND TOOLS



1. CORE DRILLS



2. FLOOR SAW BLADES



3. WALL SAW AND PRECAST 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 SANDSTON



10. SURFACE PREPARATION



11. DRY CUTTING BLADES



12. TABLE SAW BLADES (WET CUTTING)



13. GRINDING RINGS FOR CALIBRATING



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solgamex@solgadiamant.com

AUTHORIZED POINT OF SALE



V 1.0.1

11



SOLGA

DRY CUTTING BLADES





DRY CUTTING

DIAMOND TOOLS

Classification by materials

SOLGA DIAMANT offers color 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.

UNIVERSAL RANGE

**Orange SERIES**

page 4

GENERAL PURPOSE.

Orange SERIES designed for **non intensive use** on materials with medium abrasion.

Blades with low diamond concentration, to achieve better performance in **low power machines**.

**Blue SERIES**

pag. 5

PROFESSIONAL GENERAL PURPOSE.

Blue SERIES has been designed for **professional work** on medium abrasion materials.

Blades with medium diamond concentration, for use with **low, medium and high power machines**.

**Gold SERIES**

page 6

UNIVERSAL.

Gold SERIES has been designed for high performance, finishing and cutting in any material or use.

Blades with a high concentration of diamond, for **medium and high power machines**.

SPECIFIC RANGE

**Black SERIES**

page 7

ABRASIVE MATERIALS.

Black SERIES, has been designed for **intensive and professional cutting** of high abrasion materials.

Blades with high diamond concentration, **for use in medium and high power machines**.

**Red SERIES**

pag. 8

HARD MATERIALS.

Red Series, has been designed for intensive and professional cutting of highly hard materials.

Blades with high diamond concentration, for use in medium and high power machines.

**Porcelanic SERIES**

page 9

PORCELAIN MATERIALS.

Porcelanic SERIES, has been designed for **professional cutting** without chipping of materials with a vitrified finish, such as stoneware and porcelain. For high hardness materials. **Use in low, medium and high power machines**.

**Specific SERIES**

pag.10

SPECIAL APPLICATIONS.

It is a range of tools for specific applications such as:

- Milling in all kinds of materials.
- Curved cuts.
- Blades for special materials.
- Tools for hand held petrol machines and battery hand held machines.

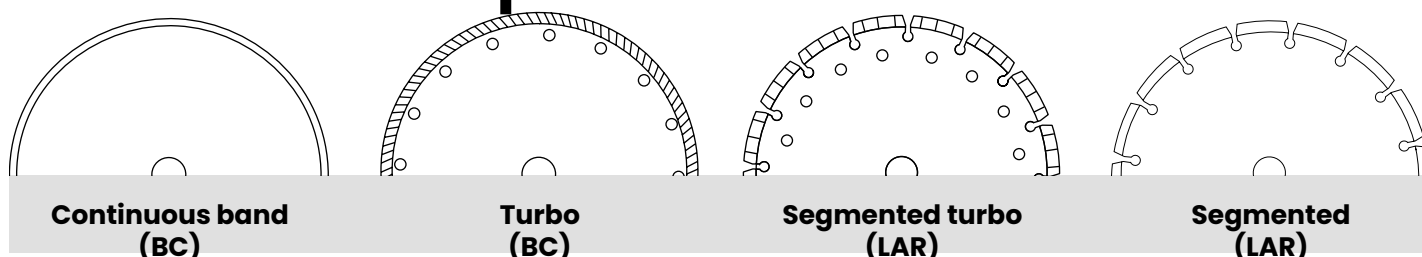


SOLGA DIAMANT As a European manufacturer of diamond tool, we offer a complete range for cutting, drilling and surface treatment for the **construction and natural stone** sectors

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 color 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 working parameters that will allow you to obtain the best results.

Diamond area profiles



Continuous band to obtain fine finishes, without breaks and speed of cutting. Indicated for cutting extra hard, vitrified materials.

Combination of continuous Band (BC) with a turbo segmentation type, offer a superior cut quality, for a clean cut without breaks.

Combination of narrow notch (LAR) with turbo segmented, to achieve a better cut finish and cutting speed (even at low power).

Narrow cut with this notch type, the best cutting finish is sought, since the distance between segments is less.

Table Material	Stoneware Porcelanic	Stoneware extruded	Marble	Slate	Granite	Terrazzo	Refractory Brick	Face side Brick	Klinker Brick	Cured concrete	Reinforce concrete	Asphalt	Asbestos cement	Sandstone silicon
Orange SERIES				●	●	●	●	★	●	●				
Blue SERIES		★		●	●	●	●	★	●	●	●	●	●	●
Red SERIES	★	●	●	★	★	★	●	★	●	★	●			
Black SERIES		★		●		●	★	●	★	★		★	★	★
Gold SERIES		★	★	★	★	★	★	★	★	★	★	★	★	★
Specific SERIES	Full range of special applications													

★ Optimal use

● Alternative use

Solga Diamant recommends to use the blades according to the machine power indicated on each blade, for greater durability and performance. If you have any questions, you can contact our sales team.



LOW POWER:

Mini grinders up to 700 w.
Grinders: less than 2200 w.
Battery grinders..



MEDIUM POWER

Mini grinder from 700 to 1000 w.
Grinders: 2200w.



HIGH POWER

Mini grinder from 1000w
Grinders: over 2200w.



Orange SERIES

UNIVERSAL MATERIALS

RECOMMENDED MATERIALS

ARTIFICIAL STONE, BRICK
(SOLID, FACING BRICK,
HOLLOW) TONGUE AND
GROOVE, TILE, SANDSTONE,
TERRAZZO, CONCRETE,
THERMOCLAY, REFRACTORY.

It has been designed for
cutting general construc-
tion materials, with medium
abrasion, where we combine
very versatile metal alloys,
achieving an economical and
decisive product.

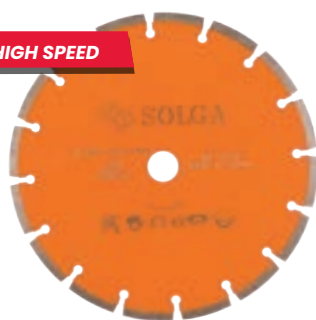
With a soft alloy for a quick
renewal of the diamond.

OTHER MATERIALS NON INTENSIVE CUT

*Cutting in a non-intensive way
and alternating materials:*

Granite, slate, cobblestone,
silestone, basalt, quartzite,
corundum, porphyry, pumice,
asphalt, refractory, vaults, gero
concrete, concrete tile and
antacid brick.

HIGH SPEED



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

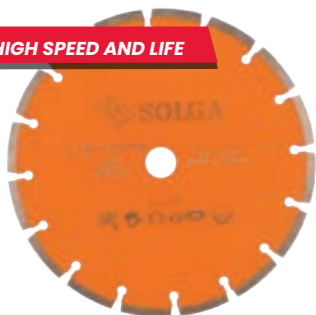


SEGMENTED LAR BLADE SINTER CS

Characteristics: Segmented blades offer
high cutting speeds and performance.

REF	Ø	Width	High	Shaft	N° seg.
128S6110	100	1,8	10,0	22,2	8
128S6115	115	1,8	10,0	22,2	9
128S6125	125	1,8	10,0	22,2	9
128S6150	150	2,1	10,0	22,2	12
128S6180	180	2,1	10,0	22,2	14
128S6230	230	2,3	10,0	22,2	18

HIGH SPEED AND LIFE



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



ORANGE BLADES LAR LASER CS

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

REF	Ø	Width	High	Shaft	N° seg.
12803125	125	2,2	7,0	22,2	10
12803150	150	2,4	7,0	22,2	12
12803180	180	2,4	7,0	22,2	14
12803230	230	2,4	7,0	22,2	16

CLEAN CUT WITHOUT CHIPPING



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



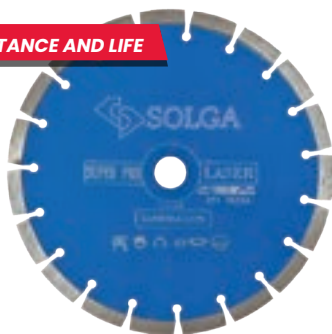
ORANGE BLADE TURBO CS

Characteristics: Continuous band with
turbo segment to achieve a perfect finish.

REF	Ø	Width	High	Shaft	N° seg.
108S2100	100	2,0	7,0	22,2	TURBO
108S2115	115	2,0	7,0	22,2	TURBO
108S2125	125	2,0	7,0	22,2	TURBO
108S2150	150	2,3	7,0	22,2	TURBO
108S2180	180	2,3	7,0	22,2	TURBO
108S2230	230	2,5	7,0	22,2	TURBO



RESISTANCE AND LIFE



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



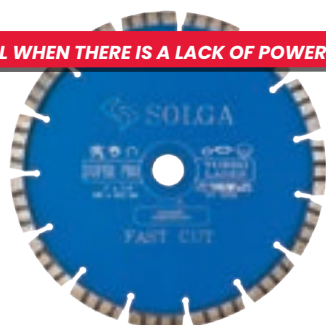
BLUE BLADE LAR LASER CS

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

REF	Ø	Width	Height	Shaft	N° seg.
13703115	115	2,4	8,0	22,2	9
13703125	125	2,4	8,0	22,2	10
13703150	150	2,4	8,0	22,2	12
13703180	180	2,6	8,0	22,2	15
13703230	230	2,6	8,0	22,2	19
13756115	115	2,4	10,0	22,2	9
13756125	125	2,4	10,0	22,2	10
13756230	230	2,6	10,0	22,2	19

Available in Ø300 and Ø350.

IDEAL WHEN THERE IS A LACK OF POWER



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



BLUE BLADE TURBO LASER CS

Characteristics: The LAR segment turbo-laser notch gives us performance, durability, cutting finish, high blade resistance, speed and maximum depth (thicker pieces). Laser welding for greater safety in its use.

REF	Ø	Width	High	Shaft	N° seg.
1377311510	115	2,2	8,0	22,2	9
1377312510	125	2,2	8,0	22,2	10
1377611510	115	2,2	10,0	22,2	9
1377612510	125	2,2	10,0	22,2	10
1377618010	180	2	10,0	22,2	19
1377623010	230	2,4	10,0	22,2	16

CLEAN CUT WITHOUT CHIPPING



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



BLUE BLADE TURBO CS

Characteristics: Continuous band with turbo segment to achieve a perfect finish.

REF	Ø	Width	High	Shaft	N° seg.
10704115	115	1,9	10,0	22,2	TURBO
10704125	125	1,9	10,0	22,2	TURBO
10704150	150	2,5	10,0	22,2	TURBO
10704180	180	2,3	10,0	22,2	TURBO
10704230	230	2,5	10,0	22,2	TURBO

FOR SOFT AND FRAGILE PIECES



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



BLUE BLADE BC CS

Characteristics: Continuous band to achieve a perfect miter and straight cut with finishes without chipping or breaks in the material.

Recommended for materials with a maximum thickness of 2 cm.

REF	Ø	Width	High	Shaft	N° seg.
15700115	115	1,6	7,0	22,2	BC
15700125	125	1,6	7,0	22,2	BC

Blue

SERIES

PROFESSIONAL MATERIALS

RECOMMENDED MATERIALS

ARTIFICIAL STONE, BRICK (SOLID, FACING BRICK, HOLLOW), TONGUE AND GROOVE, TILE, SANDSTONE, TERRAZZO, CONCRETE, THERMOCLAY, REFRACTORY.

They have been designed for cutting general materials, with medium abrasion, where we combine very versatile metal bonds so that the diamond appears depending on the type of material being cut. It is characterized by using a medium bond to achieve greater durability and cover more materials.

OTHER MATERIALS
NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:

Granite, terrazzo, slate, cobblestone, silestone, basalt, quartzite, corundum, porphyry, pumice stone, asphalt, refractory, vaults, gero concrete, concrete tile, anti-acid brick.



Gold SERIES

UNIVERSAL MATERIALS

RECOMMENDED MATERIALS

ALL THE MATERIALS OF THE
BLUE, RED, BLACK SERIES AND
REINFORCED CONCRETE.

Gold SERIES has been designed for cutting general materials, where we combine very resistant bonds with high concentrations of diamonds, offering a top quality cut.

IT CUTS EVERYTHING



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



GOLD BLADE TURBO-LASER CS

Characteristics: Semi-ordered diamond, guarantees a constant cut.

Fast cutting laser turbo blade, supports very intensive use without overheating.

REF	Ø	Width	High	Shaft	N° seg.
13716230	230	2,4	10,0	22,2	16

SPECIAL THICKENED MATERIALS



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



GOLD TURBO BLADE CS

Characteristics: Semi ordered diamond, which guarantees a constant cut, for high quality perfect cuts.

The TURBO blades of the Gold SERIES range offer a superior cutting quality, for a clean cut without breaks in the material.

REF	Ø	Width	High	Shaft	N° seg.
10716230	230	2,6	10,0	22,2	TURBO



RESISTANCE AND PERFORMANCE



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



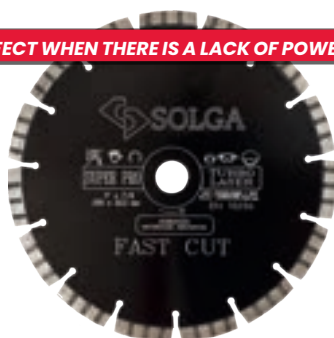
BLACK BLADE LAR LASER CS

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

REF	Ø	Width	High	Shaft	N° seg.
13403115	115	2,4	8,0	22,2	9
13403125	125	2,4	8,0	22,2	10
13403150	150	2,4	8,0	22,2	12
13403180	180	2,6	8,0	22,2	15
13403230	230	2,6	8,0	22,2	19
13456230	230	2,6	10,0	22,2	19

Available in Ø300 and Ø350.

PERFECT WHEN THERE IS A LACK OF POWER



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

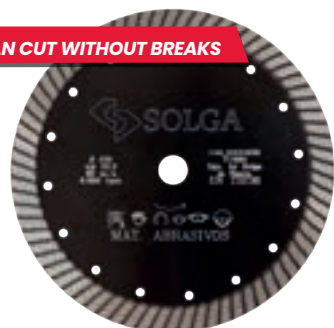


BLACK BLADE TURBO - LASER CS

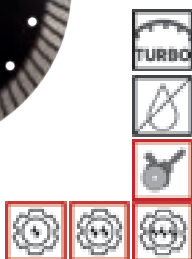
Characteristics The LAR segment turbo-laser notch gives us performance, durability, cutting finish, high blade resistance, speed and maximum depth (thicker pieces). Laser welding for greater safety in its use.

REF	Ø	Width	High	Shaft	N° seg.
1340623010	230	2,8	10,0	22,2	15

CLEAN CUT WITHOUT BREAKS



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

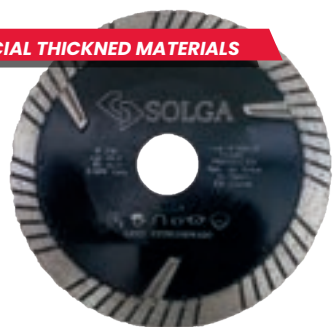


BLACK BLADE TURBO CS

Characteristics: Continuous band with turbo segment to achieve a perfect cutting finish.

REF	Ø	Width	High	Shaft	N° seg.
10404115	115	2,0	10,0	22,2	TURBO
10404125	125	2,0	10,0	22,2	TURBO
10404180	180	2,3	10,0	22,2	TURBO
10404230	230	2,5	10,0	22,2	TURBO

SPECIAL THICKENED MATERIALS



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



BLACK BLADE TURBO PLUS CS

Characteristics: Turbo blade, for perfect, high-quality cuts, side reinforcements to be able to work at maximum depth, continuously, especially for klinker.

REF	Ø	Width	High	Shaft	N° seg.
104P6115	115	2,4	10,0	22,2	TURBO
104P6125	125	2,2	10,0	22,2	TURBO
104P6230	230	2,5	10,0	22,2	TURBO

Black SERIES

ABRASIVE MATERIALS

RECOMMENDED MATERIALS

CONCRETE, ASPHALT,
SANDSTONE, REFRACTARY,
VAULTS, GERO CONCRETE,
SILESTONE, TILES, BRICKS.

They have been designed for cutting abrasive, porous and concrete-derived materials, where we combine abrasion/resistant metal bond that allow the diamond to be kept in the bond, making the most of its useful life. They are characterized by wearing a hard bond to prevent premature wear of the blade.

OTHER MATERIALS NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:

Reinforced concrete, extruded material, Greco stoneware, asphalt, refractory, vaults, gero concrete, concrete tile, antacid brick, all types of facing bricks, all types of compact and solid bricks.

REMARKS

High performance in highly abrasive compacted materials.



Red SERIES

HARD MATERIALS

RECOMMENDED MATERIALS

GRANITE, TERRAZZO,
SLATE, COBBLESTONE,
REINFORCED CONCRETE,
BASALT SILESTONE,
QUARTZITE, CORUNDUM,
PORPHYRY, PUMICE.

Designed for cutting hard materials, where we combine metal bonds that allow the renewal of the diamond when it has lost its cutting capacity, soft bonds with resistant diamonds.

OTHER MATERIALS NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:

Reinforced concrete, extruded material, Greco stoneware, asphalt, refractory, vaults, gero concrete, concrete tile, antacid brick, all types of facing bricks, all types of compact and solid bricks.

REMARKS

High performance in compacted materials of high hardness.

RESISTANCE AND PERFORMANCE



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



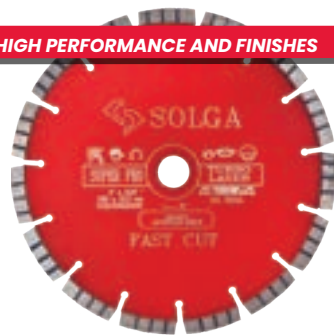
RED BLADE LAR LASER & SUPERPRO CS

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

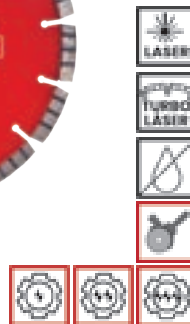
REF	Ø	Width	High	Shaft	N° seg.
13303115	115	2,4	8,0	22,2	9
13303125	125	2,4	8,0	22,2	10
13303150	150	2,4	8,0	22,2	12
13303180	180	2,6	8,0	22,2	15
13303230	230	2,6	8,0	22,2	19
13356115	115	2,4	10,0	22,2	9
13356125	125	2,4	10,0	22,2	10
13356230	230	2,6	10,0	22,2	19

Disponibles en Ø300 and Ø350.

HIGH PERFORMANCE AND FINISHES



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



RED BLADE TURBO LASER CS

Characteristics: The LAR segment turbo-laser notch gives us performance, durability, cutting finish, high blade resistance, speed and maximum depth (thicker pieces). Laser welding for greater safety in its use.

REF	Ø	Width	High	Shaft	N° seg.
1337611510	115	2,2	10,0	22,2	9
1337612510	125	2,2	10,0	22,2	10
1337623010	230	2,4	10,0	22,2	12

CLEAN CUT WITHOUT BREAKS



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



RED BLADE TURBO CS

Characteristics: Continuous band with turbo segment to achieve a perfect finish.

REF	Ø	Width	High	Shaft	N° seg.
10304115	115	1,9	10,0	22,2	TURBO
10304125	125	1,9	10,0	22,2	TURBO
10304150	150	2,5	10,0	22,2	TURBO
10304180	180	2,5	10,0	22,2	TURBO
10304230	230	2,5	10,0	22,2	TURBO

THICKENED PIECES CUT



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



RED BLADE CANTERO LAR LASER

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

This range of blades has a greater height in the diamond to offer greater performance and durability.

REF	Ø	Width	High	Shaft	N° seg.
13346230	230	3,0	12,0	22,2	15



Specific SERIES

GROOVING

Blades for cutting specific materials, optimizing performance and cutting speed, also for special cuts such as grooving, curved cuts.

REMARKS

These blades have to be used in medium and high power machines.

FLUSH CUT



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



BLADE WITH FLANGE

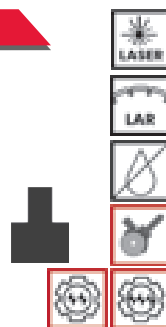
Characteristics: High performance in hard and compact materials. The use of the flange allows flush cutting.

REF	Ø	Width	High	Shaft	N° seg.
133561151	115	2,4	10,0	M14	9
1335612	125	2,4	10,0	22,2	10
1335623	230	2,6	10,0	22,2	19

GROOVES AND CRACK REPAIRS



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



MILLING WHEEL FOR ABRASIVE MAT.

Characteristics: High performance milling wheel. Tools for making small channels for wiring and for repairing joints. Use in high power machines.

REF	Ø	Width	High	Shaft	N° seg.
53440115	115	6,0	10,0	22,2	9
53440180	180	6,0	10,0	22,2	14
53440230	230	6,0	10,0	22,2	16

GROOVES AND CRACK REPAIRS



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



V SHAPE BLADE LASER

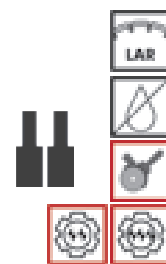
Characteristics: Milling wheel with a "V shape" segment, in small diameters, ideal for repairing cracks, for making small channels, and for flashing on pavements. In large diameters, ideal for reopening existing joints.

REF	Ø	Width	High	Shaft	N° seg.
53442115	115	9,6	13,0	22,2	8
53442125	125	9,6	13,0	22,2	9
53442230	230	9,6	13,0	22,2	17
53442300	300	9,6	13,0	25,4	20
53442350	350	9,6	13,0	25,4	24

GROOVES AND CRACK REPAIRS



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



DOUBLE BLADES

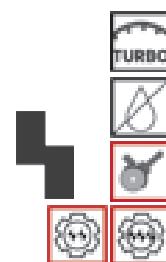
Characteristics: Double blade designed to make grooves for wiring, thanks to its design it offers high cutting speed by reducing the friction area. Suitable for all types of concrete.

REF	Ø	Width	High	Shaft	N° seg.
53441115	115	6,4	10,0	22,2	8
53441125	125	6,4	10,0	22,2	9

GROOVES



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



ZIGZAG MILLING BLADE

Characteristics: Zigzag milling wheel. The distribution of the segments in zigzag reduces the power necessary for grooving by offering less resistance, obtaining a high feed rate, protection segments to protect the weld from abrasive wear. High performance.

REF	Ø	Width	High	Shaft	N° seg.
53440150	150	9,0	8,0	24,4	12



ROUND OPENINGS



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



CURVED BLADE ABRASIVE MAT.

Characteristics: Support with inclination to make circumferential openings in countertops, Blade with fine support for fast cutting and with TURBO geometry for a perfect finish.

It can work flat, to remove burrs, mortar residues, paints and resins.

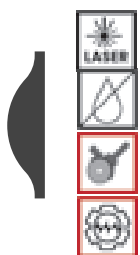
REF	Ø	Width	High	Shaft	N° seg.
17333125	125	2,5		22,2	-

Ask for other widths

ROUND OPENINGS



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



CURVE GRANITE BLADE

Characteristics: Reinforced and inclined support to avoid breakage due to bending, to make circumferential openings in countertops

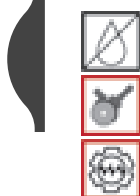
In flat work to remove burrs, mortar residues, paints and resins.

REF	Ø	Width	High	Shaft	N° seg.
17323125	125	4,2	7,0	22,2	14
17323150	150	4,2	7,0	22,2	17
17323180	180	4,2	7,0	22,2	20

ROUND OPENINGS



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



CURVED MARBLE BLADE*

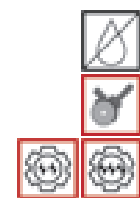
Characteristics: Electroplated blade special for soft materials without abrasion. Support with inclination for circumferential cuts. With lateral reinforcements to be able to work at maximum depth.

REF	Ø	Width	High	Shaft	N° seg.
18239115	115	1,5	-	22,2	-
18239125	125	1,5	-	22,2	-
18239150	150	2,2	-	22,2	-
18239180	180	2,2	-	22,2	-
18239230	230	2,2	-	22,2	-

MULTI MATERIAL



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

MULTI-PURPOSE BLADE /
MULTI-MATERIAL

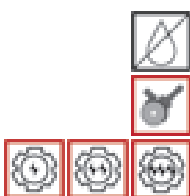
Characteristics: Vacuum brased blade, extremely resistant, offering fast cutting. Special for installers who require a fast multi-material tool.

REF	Ø	Width	High	Shaft	N° seg.
18019116	115	2,5	-	22,2	-
353H5230	230	2,8	-	22,2	-
353H5300	300	3,0	-	22,2	-
353H5350	350	3,1	-	25,4	-
353H5400	400	3,1	-	25,4	-

MARBLE AND FIBERS



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



ELECTROPLATED MARBLE BLADE*

Characteristics: Electroplated diamond blade, special for soft materials without abrasion. With lateral reinforcements to be able to work at maximum depth, protecting the support.

REF	Ø	Width	High	Shaft	N° seg.
18019115	115	1,5	-	22,2	-
18019125	125	1,5	-	22,2	-
18019150	150	2,2	-	22,2	-
18019180	180	2,2	-	22,2	-
18019230	230	2,2	-	22,2	-
18019300	300	2,2	-	25,4	-
18019350	350	2,2	-	25,4	-

Specific
SERIES

BLADES

Range of blades for cutting specific materials, optimizing performance and cutting speed, also for special cuts such as grooving, curved cuts.

REMARKS:

* Electro deposited marble blade

Suitable for cutting marble, calcareous stones, fiberglass and polyester.



Specific SERIES

HAND HELD
PETROL AND
BATTERY
MACHINES

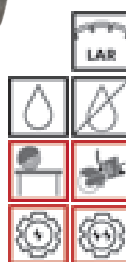
Range for thermal grinders,
universal and specific blades for
fast and high-performance work.

Versions for wet cutting and dry
cutting.

FAST AND VERSATILE CUT



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



HARD MAT. BLADE CONCRETE

Recommended materials: Calcareous
concrete

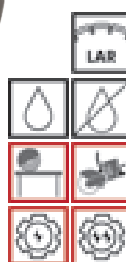
Characteristics: Universal application
blade, ideal when it is required to alter-
nate cutting of abrasive and non-abra-
sive materials. LAR notch offers the blade
performance, durability and high resis-
tance. Softbond for a quick renewal of the
diamond.

REF	Ø	Width	High	Shaft	N° seg.
230BG6300	300	2,6	10,0	25,4/20	20
230BG6350	350	2,8	10,0	25,4/20	23

FAST AND VERSATILE CUT



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



ABRASIVE ASPHALT BLADE

Recommended materials: Abrasive
materials, asphalt, limestone and fresh
concrete.

Characteristics: Blade for abrasive mate-
rials. LAR notch offers blade performance,
durability and high resistance. Hard bond
to avoid premature diamond later wear.

REF	Ø	Width	High	Shaft	N° seg.
232BG6300	300	2,6	10,0	25,4/20	20
232BG6350	350	2,8	10,0	25,4/20	23



FAST CUTTING



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



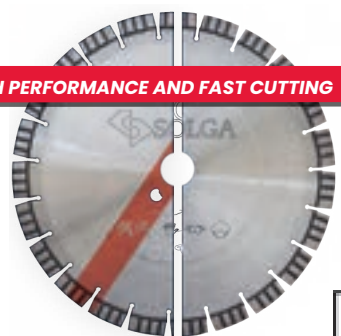
SWIFT BLADE LAR LASER UNIVERSAL

Recommended materials: Concrete and universal materials.

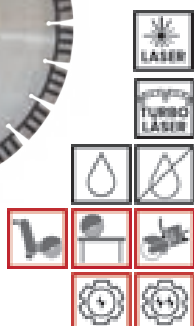
Characteristics: LAR notch offers the blade performance, durability and high resistance. Laser welding for greater safety in its use. With a medium bond to achieve a greater durability to cover more materials

REF	Ø	Width	High	Shaft	N° seg.
25113300	300	2,8	7,0	25,4	21

HIGH PERFORMANCE AND FAST CUTTING



SWIFT SOFT SWIFT
Finish ● ● ● ● ● ○
Speed ● ● ● ● ● ○
Life ● ● ● ● ● ○



SWIFT BLADE / SWIFT SOFT T.LASER

Characteristics:

Blade for fast cutting of all types of building materials, concrete and asphalt.

SWIFT SOFT: Reinforced concrete and granite

REF	Ø	Width	High	Shaft	N° seg.
231S7300	300	2,6	15,0	25,4/20	20
231S7350	350	2,6	15,0	25,4/20	23
231S7400	400	3,0	15,0	25,4/20	26

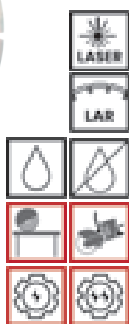
SWIFT: Concrete and derivatives

REF	Ø	Width	High	Shaft	N° seg.
23117300	300	2,6	15,0	25,4/20	20
23117350	350	2,8	15,0	25,4/20	23
23117400	400	3,0	15,0	25,4/20	26

ULTRA RESISTANT



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



RED BLADE LASER - EXTRA HARD MAT.

Recommended materials: Granite, reinforced concrete, high resistance concrete. For hard and compact material.

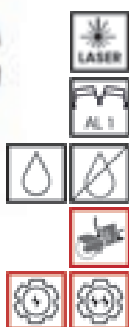
Characteristics: LAR notch offers the blade performance, durability and high resistance. Laser welding for greater safety in its use. A soft league for a quick renewal of the diamond.

REF	Ø	Width	High	Shaft	N° seg.
13306300	300	3,0	10,0	25,4	21
13306350	350	3,2	10,0	25,4	24

RING BLADE MACHINES



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



RING BLADE

Recommended materials: Reinforced concrete, bricks, types of concrete and asphalt.

Characteristics: RING blade specific for petrol, electric or hydraulic hand held machines with fixing system for ring blades

REF	Ø	Width	High	Shaft	N° seg.
1340635001	350	4,2	8,0	Abra-siv.	18
1340635002	350	4,2	8,0	Duros	18
1340640002	400	4,2	8,0	Duros	21
4MFR000001	Accessories			Guide wheel	

Specific
SERIES

THERMAL

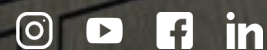
Range for thermal grinders cas, universal and specific blades for fast and high-performance jobs.

Versions for wet cutting and dry cutting.

OTHER MATERIALS
NON INTENSIVE CUT

Cutting in a non-intensive way and alternating materials:

Granite, terrazzo, slate, cobblestone, silestone, basalt, quartzite, corundum, porphyry, pumice stone, asphalt, refractory, vaults, gero concrete, concrete tile and anti-acid brick.



SOLGA DIAMANT
WEB SITE AND SOCIAL MEDIA

VERTICAL DISPLAY

Dimensions:
180x42x32 cm
Code display FG36622



SOLGA displays

Vertical display and desktop display

SOLGA Diamant We have displays for dry cutting blades and other 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 points of sale, to promote SOLGA Diamant dry cutting tools. Ideal for giving visibility and promotion in a small space.

Vertical display, It allows quick and clear visibility of the range available for dry cutting, giving information on the use and application of each tool, thus facilitating the correct choice of tools.

The desktop display, It allows the range most used on a day-to-day basis to be safely stored by means of a lock, visible and with a blade selector depending on the application. Ideal for small spaces, giving great visibility to the dry cutting blades.

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

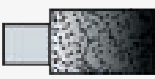
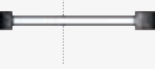
DESKTOP DISPLAY

Dimensions:
55x34x31 cm
Code display:
99030012



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		
	- Inappropriate type of blade. - Low cooling or peripheral speed.	- Change type of the blade. - Increase cooling and/or peripheral and forward speed.
Segment side wear		
	- Curved / arched cuts. - The blade has roughed up. - Flange area dirty or incorrectly positioned.	- Blade suitable for application. - Clean flange and blade.
Polish and closed segments		
	- Type of blade not suitable for the material. - Excessive speed.	- Open the diamond using the blade on an abrasive material. - Slow down.
Dark segments		
	- Lack of refrigeration. - Blade not suitable. - High peripheral speed.	- Increase cooling. - Change type of blade. - Decrease peripheral or advance speed.
Segment base wear		
	- Very abrasive material. - Blade not suitable. - Great depth of cut and poor cooling.	- Change blade type. - Increase cooling.
Irregular radial wear		
	- Incorrect shaft. - Incorrect or worn reduction ring. - Damaged machine shaft.	- Check the blade shaft. - Use a suitable reduction ring. - Check the shaft of the machine.
Cracks in the steel body		
	- Lack of refrigeration. - Shaft not centered. - Loss of support rigidity.	- Change blade type. - Check shaft. - Increase cooling.
Blade with deformed or stressed support		
	- The blade has suffered a fall or accident. - Overheating	- Use the tool correctly. - Increase cooling.
Segment break		
	- Support deformation. - Overheating. - Hooked.	- 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!!**



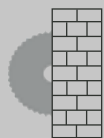
DIAMOND TOOLS



1. CORE DRILLS



2. FLOOR SAW BLADES



3. PRECAST 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



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ALMACÉN / SERVICIOS COMERCIALES MÉXICO
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San Antonio Zomeyucan, Naucalpan
de Juárez, 53750, México.
Tel: +52 1 5534201611
solgamex@solgadiamant.com

AUTHORIZED POINT OF SALE



V1.0.2



03



SOLGA
DIAMANT

WALL SAW **BLADES**





WALL SAW BLADES

SOLGA DIAMANT

We offer a comprehensive line of wall saw blades compatible with a wide range of electric and hydraulic machines. Our blades are engineered to handle concrete cutting with any level of reinforcement, and feature reinforced diamond segments to prevent cracking or breakage even under the most demanding conditions



With our advanced design, Solga Diamant wall saw blades deliver superior performance in terms of lifetime and cutting properties. Our wide range of alloys ensures the best solution, adapting to any machine type and concrete quality.

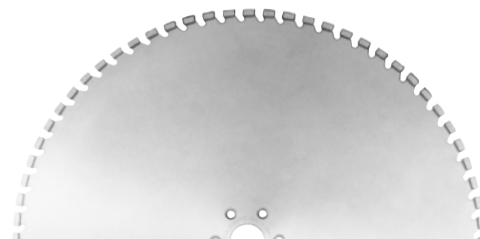
GEOMETRIES:



SEGMENT U

Prevents snagging:

50mm Notch for increased welding safety and high cutting speed.



NOTCH BLZ

Facilitates sediment evacuation:

Prevents sediment build up and cracking caused by overheating, ensuring optimal performance.

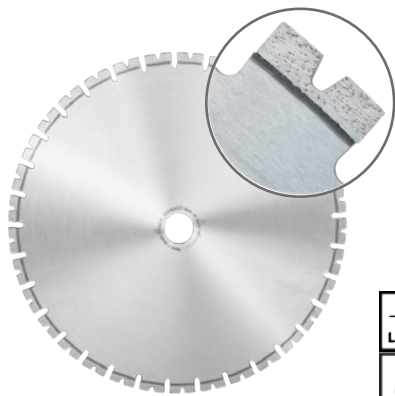


DRY-CUT:

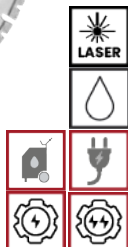
Solga Diamant, constantly evolving to meet our customers' needs, has developed a range of dry-cut wall saw blades for applications where water usage is restricted.

The segments are designed with heat-dissipating additives to ensure safe, high-performance cutting. A dust extraction shroud is required for the saw to prevent excessive dust during cutting. Consult our technical/sales team for our dry cutting range.

HIGH CUTTING SPEED



Speed ● ● ● ● ● ● ● ● ● ●
Life ● ● ● ● ● ● ● ● ● ●



MODEL WITH U SHAPE SEGMENT

E-KAPPA cutting blade feature a unique U-shaped segment that significantly reduces snagging and prevents cracks in the metal body. Other notch configurations are available upon request.

Our cutting blade feature a 15mm segment height and a 50mm U-shaped segment for superior performance and a reinforced weld, ensuring a long and efficient cutting life.

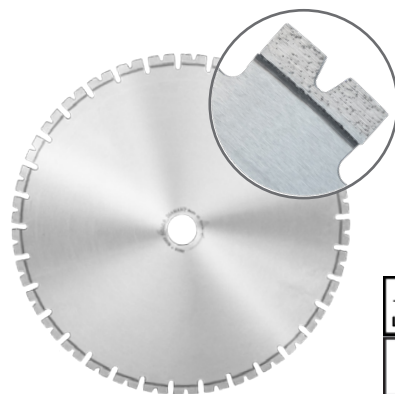
CODE	Ø	WIDTH	N°SEG.	HEIGHT
341K760310	600	4,8	30	15
341K765310	650	4,8	33	15
341K780310	800	4,8	40	15
341K790310	900	4,8	45	15
341K7103	1000	4,8	50	15
341K7123	1200	4,5	60	15
341K7140	1400	4,5	70	15
341K7150	1500	4,5	75	15
341K7160	1600	4,5	80	15
341K7180	1800	4,5	92	15
341K7200	2000	4,5	100	15

SERIE E-KAPPA

VERSATILE SERIES: ADAPTS TO ALL TYPES OF MACHINES ON THE MARKET UP TO 25KW.

Versatile design for high-performance electric machines, allowing for automatic parameter adjustments to achieve high cutting speeds and outputs of up to 30 m². Compatible with hydraulic machines and suitable for all concrete types.

HIGH PERFORMANCE



Speed ● ● ● ● ● ● ● ● ● ●
Life ● ● ● ● ● ● ● ● ● ●



MODEL WITH U SHAPE SEGMENT

S-8019 blade comes with a U-shaped segment that reduces snagging and prevents cracks in the metal body. Other notch configurations available upon request

The 15mm segment height provides superior performance, while the 50mm U-shaped segment guarantees a robust weld.

CODE	Ø	WIDTH	N°SEG.	HEIGHT
341I760310	600	4,8	30	15
341I765310	650	4,8	33	15
341I780310	800	4,8	40	15
341I790310	900	4,8	45	15
341I7103	1000	4,8	50	15
341I7123	1200	4,5	60	15
341I7140	1400	4,5	70	15
341I7150	1500	4,5	75	15
341I7160	1600	4,5	80	15
341I7180	1800	4,5	92	15
341I7200	2000	4,5	100	15

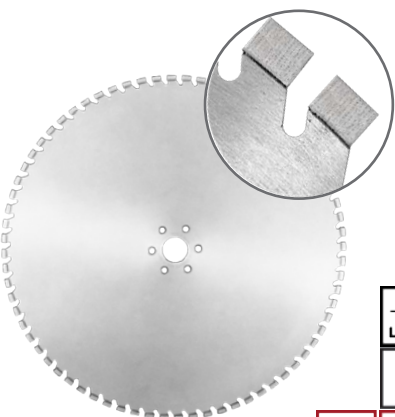
SERIE S-8019

SERIES DESIGNED FOR HIGH-POWER MACHINES UP TO 30 KW

Constructed with a robust alloy, this blade is engineered for high-performance cutting in powerful hydraulic machines.

It excels in cutting a wide range of concrete, including reinforced and highly reinforced concrete, even in abrasive siliceous conditions.

STRATEGICALLY POSITIONED DIAMOND



Speed ● ● ● ● ● ● ● ● ● ●
Life ● ● ● ● ● ● ● ● ● ●



MODEL WITH BLZ NOTCH

MATRIX BLADE is supplied with length of 20mm segmented design, increasing the number of notches for smoother cutting and improved performance.

12mm segment height for enhanced performance.

CODE	Ø	WIDTH	N°SEG.	HEIGHT
341O760310	600	4,7	62	12
341O770310	700	4,7	72	12
341O780310	800	4,7	82	12
341O790310	900	4,7	92	12
341O7103	1000	4,7	102	12
341O7123	1200	4,7	122	12

SERIE MATRIX

DIAMOND-TIPPED SAW BLADE WITH PRECISE DIAMOND POSITIONING. THE STRATEGIC PLACEMENT OF DIAMONDS ACCORDING TO A SPECIFIC PATTERN ENHANCES PERFORMANCE AND PROVIDES A CONSISTENT CUTTING SPEED.

The combination of cutting-edge alloys and diamond positioning technology provides high-speed blades that offer superior performance in all types of concrete, including calcareous and siliceous concretes with high steel content.

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



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14. PRECAST DIMAOND BLADES



AUTHORIZED POINT OF SALE



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Tel: +52 1 5534201611
solgamex@solgadiamant.com

01



SOLGA

CORE DRILLS





CORE DRILLS

For grinders, drills, hammers, manual and supported drilling machines.

Materials Classification

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

DRILL BITS FOR DRY HAND MACHINES



MASONRY page 4

MASONRY, CONCRETE AND SIMILAR MATERIALS.

Designed for large diameter drilling when we have a lack of power. We have adapters for drills and hammers.



PORCELAIN page 5

PORCELAIN AND VERY HARD MATERIALS.

Vacuum diamond drill bits allow us to drill multiple materials at high speed. Available for mini grinders and drills.



GRANITE page 6

SPECIAL GRANITE AND HARD MATERIALS.

Drill bits with centering device for 5 cm drilling. Available for drills.



MARBLE AND FIBERGLASS page 7

SPECIAL APPLICATIONS.

Drill bits for perfect drilling in marble, soft and delicate materials and fiberglass. With centering device and useful hole of 5 cm. Available for drills.

DRILL BITS FOR MANUAL AND SUPPORT DIAMOND DRILLS



CONNECTION 1" 1/4 page 9

SMOOTH SEGMENT AND TURBO LASER.

Drill bits for drilling all types of concrete and valid for all types of machines. Possibility of smooth segment for diameters up to Ø47 (larger sizes, on request) or turbo. Available in **Red SERIES**, **Blue SERIES** and **Black SERIES**.



CONNECTION 1/2 GAS page 10-11

SMOOTH SEGMENT, TURBO AND RING.

Drill bits for drilling all types of concrete. Smooth segment up to Ø47 (larger sizes, on request). Ring type for perfect drilling in small diameters. For low and medium power machines. Available for **Red SERIES**, **Blue SERIES** and **Black SERIES** (upon request).



1" 1/4 ELITE page 12

ELITE DRY (DRY DRILLING).

Drill bits for drilling reinforced concrete in all types of drilling machines, both wet and dry (micro percussion drilling machines). High durability and speed of drilling in all types of concrete. For medium and high-power drills



ACCESSORIES AND SEGMENTS page 13

ADAPTERS - EXTENSION.

All kinds of accessories and accessories related to drilling.

SEGMENTS.

Manufacture and sale of loose segments. We offer a wide range of possibilities, in models and qualities.

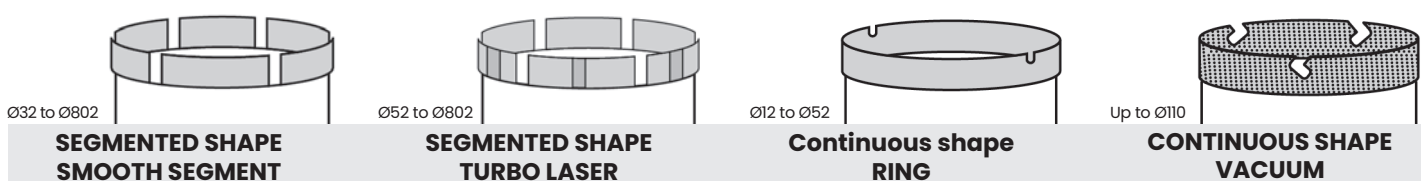
SOLGA DIAMANT as a European manufacturer of diamond tools offers a complete range for cutting, drilling and surface treatment for **the construction** and natural **stone sectors**.

Our tools are manufactured in our production centres 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 centres optimize each product to ensure maximum durability and safety.

We have a colour coding system according to the material that needs to be drilled 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 always accompany you both in the choice of the tool and in the work parameters that will allow you to obtain the best results.

Segments shapes

Drill bits available for all types of machines (other Ø under request)



Smooth segment with "roof" for self-centering, gives us more strength against breakage. Segment height of 10 mm (<Ø52 under request).

Turbo segment with "roof" for self-centering, for faster cutting and high performance. 12mm segment height.

Continuous drill bit to avoid snagging and breakage in highly reinforced concrete. Special for small diameter drill bits. Segment height 8 mm.

Diamond welded directly onto the metal support. Ideal for extra hard and low abrasion materials. They work at top speed.

Water drilling alloys

We have different formulations of segments that adapt to the needs of each job.

Red SERIES. Low abrasion concrete
Rotation speed approx: 2 m/s

OPTIMUM MATERIALS

Reinforced concrete and high resistance concrete, granite, terrazzo, slate, cobbles-tone, Silestone basalt, quartzite, corundum, porphyry, pumice stone.

Blue SERIES. Medium abrasión concrete
Rotation speed approx: 3 m/s - 4 m/s

OPTIMUM MATERIALS

Reinforced concrete and medium abrasive concrete, artificial stone, brick (solid, exposed brick, hollow), tongue and groove, tile, sandstone, terrazzo, thermoclay, refractory.

Black SERIES. High concrete abrasión
Rotation speed approx: 5 m/s

OPTIMUM MATERIALS

Reinforced concrete and high abrasive concrete, asphalt, sandstone, refractory, vault, perforated bricks, Silestone, tile, brick.

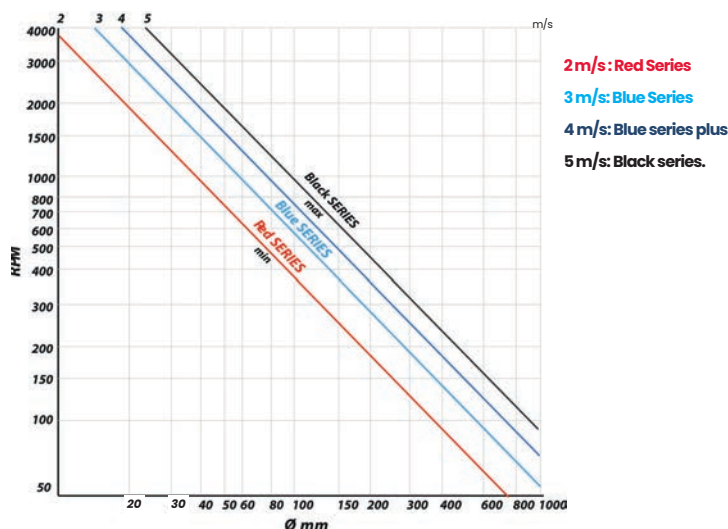
Speed settings

Different drill bit diameters require different rotation speeds depending on the characteristics of the material to be drilled.

- Siliceous and highly reinforced concrete, low speeds.
- Calcareous or lightly reinforced concrete, high speeds.
- The power of the machine influences the speed to be selected.

HOW TO USE

1. Select the diameter of the bit to be used.
2. Draw a horizontal line until it crosses the desired cutting speed according to the material to be drilled.
3. From the intersection draw a vertical line to know the proper revolutions.
4. Select the speed on your machine that fits up to the revolutions obtained.



Power



LOW POWER

Up to 2.5 kW. For hand and support drills.



MEDIUM POWER

From 2,5 to 3.4 Kw. Support drills.



HIGH POWER

From 3.5 Kw. On. Support drills.



DRILLS

MASONRY

MATERIALS TO BE DRILLED

MASONRY, ARTIFICIAL STONE, BRICK (SOLID, CLINKER, TONGUE, AND FACE, HOLLOW, REFRACTORY), CERAMIC TILE, CONCRETE, SANDSTONE, FIBER CEMENT, THERMOCLAY.

Masonry and concrete drill bits are designed to work/drill in various types of material, including concrete, terrazzo, stoneware, brick, cove, etc. It is used in turning tools such as drills or drilling machines.

RECOMMENDATION

For hard materials: slow speed, for soft materials: use fast speed.

TYPES OF ADAPTERS

We have **SDS PLUS** and **HEX** adapters for lengths of 100 and 220 mm and a **1/2" GAS** to M-16 adapter to use the bits in manual diamond drills.

INSTRUCTIONS FOR USE

- Drill a Ø8 centering hole at a minimum depth of 3 cm (if the centering hole is drilled in its full depth, the better).
- Start drilling with the drill bit mounted with its axis and guide to deepen 3cm.
- Stop and remove the guide, insert the diamond bit in the pre-cut made and continue drilling.

SAFETY ADVICE

- Perform intervals to cool down the bit and evacuate the sediment, 10 seconds drilling and 4 turning in a vacuum.
- Do not use the drill without first drilling the centring hole.

PERFECT FOR PLUMBERS AND INSTALLERS



Length 150 mm



Length 50 mm

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



SPECIAL SOCKETS



Length L70 mm

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



FOR ALL KINDS OF MACHINES



M16 PRO MASONRY LASER DRILL BIT

Characteristics: Segmented laser drills with an M16 connection available for all types of universal machines. There are two types of useful length of the bit, 150 mm and 50 mm.

REF	Ø	Height	Notch	N° seg.	Useful Length	
					150	50
4240_032	32	8	M16	3	•	•
4240_042	42	8	M16	3	•	•
4240_052	52	8	M16	3	•	•
4240_057	57	8	M16	3	•	•
4240_062	62	8	M16	3	•	•
4240_068	68	8	M16	4	•	•
4240_072	72	8	M16	4	•	•
4240_082	82	8	M16	4	•	•
4240_092	92	8	M16	4	•	•
4240_102	102	8	M16	5	•	•
4240_107	107	8	M16	5	•	•
4240_112	112	8	M16	5	•	•
4240_122	122	8	M16	5	•	•
4240_127	127	8	M16	5	•	•
4240_132	132	8	M16	6	•	•
4240_142	142	8	M16	6	•	•
4240_152	152	8	M16	7	•	•
4240_162	162	8	M16	8	•	•
4240_202	200	8	M16	9	•	•
4240_225	225	8	M16	9	•	•

USEFUL LENGTHS AVAILABLE:

Replace the first hyphen with the desired length:
Length: 2 for useful length 150 mm (add F after the last hyphen) 3 for useful length 50 mm).

Remark: Drilling capacity of up to 300 mm deep (drilling 2 times) using the 220 length adapter*.

STANDARD DRILL BIT

Characteristics: Segmented laser drills with an M16 connection available for all types of universal machines. With a useful length of 70 mm.

Ideal: Built-in sockets, electrical boxes and portholes.

REF	Ø	Length	Width	Height	Notch	N° seg.
42603032	32	24	3.5	8	M16	3
42603040	40	24	3.5	8	M16	3
42603052	52	24	3.5	8	M16	3
42603068	68	24	3.5	8	M16	3
42603072	72	24	3.5	8	M16	4
42603082	82	24	3.5	8	M16	4

M16 ADAPTERS

Características: Adapters to use in M16 masonry drill bits.

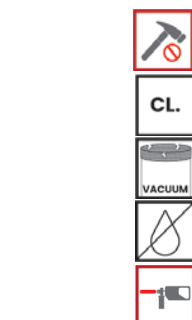
REF	Description
42997100	SDS-plus Length 100 mm to M16 Male does not include centering device.
42997220*	SDS-plus Length 220 mm to M16 Male does not include centering device.
42996100	Hexagonal Length 100 mm to M16 Male does not include centering device.
42996220*	Hexagonal Length 220 mm to M16 Male does not include centering device.
42900110	1/2" gas Male tp M 16 Adapter Male does not include centering device.
8008120	Guide drill Ø 8 x 120 mm for drill bit length 50 mm.
8008200	Guide drill Ø 8 x 200 mm For drill bit length 150 mm



SPECIAL FOR DRILLS



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



VACUUM BIT CYLINDRICAL SHANK

Characteristics: High hardness diamond, welded without metal alloy for better performance in drilling extra hard materials.

Ideal: For remodelling and installers

REF	Ø	Width	Height	Notch	Nº seg.
42205105	5	-	-	CIL	-
42205106	6	-	-	CIL	-
42205108	8	-	-	CIL	-
42205110	10	-	-	CIL	-
42205112	12	-	-	CIL	-
43235025	25	-	-	HEXAG	-
43235030	30	-	-	HEXAG	-
43235099	100	-	-	HEXAG	-

TOP SPEED AND PERFORMANCE

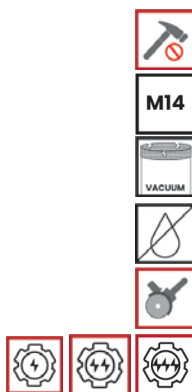


Drill bit Ø5- Ø12



Core Drill of Ø16 - Ø110

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



VACUUM HANDLE DRILL BIT M14

Characteristics: Vacuum type, with electro-welded diamond, which allows us to drill a multitude of materials.

Drill with lateral groove for rapid evacuation of sediments from diameter 16.

REF	Ø	Width	Height	Notch	Nº seg.
42205005	5			M14	
42205006	6			M14	
42205008	8			M14	
42205010	10			M14	
42205012	12			M14	
REF	Ø	Width	Height	Notch	Nº seg.
42205016	16			M14	
42205020	20			M14	
42205025	25			M14	
42205030	30			M14	
42205032	32			M14	
42205035	35			M14	
42205040	40			M14	
42205045	45			M14	
42205050	50			M14	
42205060	60			M14	
42205065	65			M14	
42205068	68			M14	
42205075	75			M14	
42205080	80			M14	
42205090	90			M14	
42205100	100			M14	
42205110	110			M14	

ADAPTER FOR DRILLS



ADAPTER M -14 TO CYLINDRICAL

Characteristics: Adapter to be able to use the full range of M-14 bits with traditional drills.

REF	Ø
84400782	Adapter M-14 to cylindrical of 12 mm Length 45 mm.

DRILL BITS

VACUUM PORCELAIN

MATERIALS TO BE DRILLED

CERAMIC, STONEWARE, PORCELAIN, ULTRA-COMPACTED, FIBER GLASS, POLYESTER, GLASS, ARTIFICIAL STONE GRANITE, TERRAZZO, SLATE, PAVING STONE, SILESTONE, BASALT, QUARTZITE, CORUNDUM, PORPHY, PUMICE STONE, SANDLIME, LIMECONCRETE, THERMOCLAY

VACUUMBITS (OR COLD WELDING).

Cold or contact welding refers to the process by which two metal pieces are joined without the need to fuse an element that articulates them, as it does in hot or fusion welding.

This type of drill bit, having all the diamond welded without metal binder, allows us to drill much faster than traditional diamond and cover more different types of materials to be drilled.

ADVANTAGES OF VACUUM LASER WELDING.

- Reduction of contamination of the piece to be welded by splashes and vaporization.
- Weld seams without pores and of better quality.
- Reduced operating costs due to efficient laser
- solid state.
- No X-ray protection required.

RECOMMENDATION

It is recommended to use high power machines, especially when working with large diameter bits. Always make oscillations in the drilling to facilitate the entry of the bit and the evacuation of dust.





PERFECT DRILLING



Finish
Speed
Life



ELECTROPLATED DRILL BIT

Characteristics: Drill bits without metal binder to drill material without abrasion.

REF	Ø	Length	Width	Height	Notch	N° seg.
43205010	10				HEXAG	
43205015	15				HEXAG	
43205020	20				HEXAG	
43205025	25				HEXAG	
43205030	30				HEXAG	
43205035	35				HEXAG	
43205040	40				HEXAG	
43205045	45				HEXAG	
43205050	50				HEXAG	
43205055	55				HEXAG	
43205060	60				HEXAG	
43205070	70				HEXAG	
43205080	80				HEXAG	
43205090	90				HEXAG	
43205080	100				HEXAG	



DRILL BITS MARBLE

MATERIALS TO BE DRILLED

MARBLE, ALABASTER, LIMESTONE, GLASS, FIBERGLASS, POLYESTER

FOR MARBLE



Finish
Speed
Life



ELECTROPLATED DRILL BIT. DRAIN

Characteristics: Electroplated type, drill without metal binder that allows us to drill material without abrasion.

REF	Ø	Length	Width	Height	Notch	N° seg.
43208070	50-70				HEX.	

FOR GRANITE



Finish
Speed
Life



SEGMENTED DRAIN BIT

Characteristics: Segmented type segment geometry for fast drilling and bevelling.

REF	Ø	Length	Width	Height	Notch	N° seg.
42005070	50-70				HEXAG	

DRILL BITS DRAIN

MATERIALS TO BE DRILLED

MARBLE, ALABASTER, LIMESTONE, GLASS, FIBERGLASS, POLYESTER

Drill bits to accommodate sink drains.

Designed for a double functionality, the perforation for the opening and the inclination for the adjustment of the drainage pieces. Centring bits for perfect drilling.

RECOMMENDATION

Always use with powerful machines.

ADAPTERS TYPE

Hexagonal.



DRILL BITS

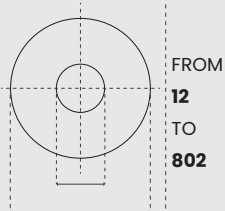
DRILLING

At **Solga Diamant** we offer a wide range of possibilities for the manufacture of drilling bits to adapt to the specific needs of each client. We offer a wide range of diameter, length, alloy and segment to ensure efficient results. For other drill bits not shown in this catalogue, you can order them under request so we can fulfil your needs.

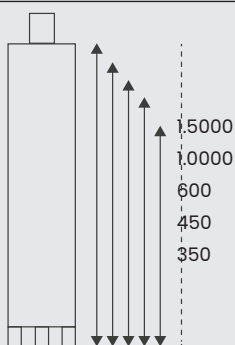
OUR CONNECTIONS



TYPES DIAMETERS



AVAILABLE LENGTHS



OWN MANUFACTURER OF SEGMENTS



CHOICE OF DRILL TYPE

Possibility of adapting the drill according to project needs, choosing the type of alloy and segment.

CHOICE OF SEGMENT

Selection of the type of quality of the segment with which you want to work.

SMOOTH SEGMENT

H10 UP TO Ø52

6 = **Red SERIES**

3 = **Blue SERIES**

2 = **Black SERIES**



TURBO SEGMENT

H12 FROM Ø52

M = **Red SERIES**

MP = **Blue SERIES**

P = **Black SERIES**



RING SEGMENT

H8 UP TO Ø52

8 = **Red SERIES**

7 = **Blue SERIES**



*Other diameters under request

TYPE OF ALLOYS.

Classification of materials by colors. We have different formulations of segments that adapt to the needs of each job.

RED SERIES

**CONCRETE
REINFORCED
CONCRETE
EXTRA HARD**

ALTERNATIVE MATERIALS:

Granite, terrazzo, slate, cobblestone, reinforced concrete, basalt Silestone, quartzite, corundum, porphyry, pumice stone.

CHARACTERISTICS

- Fast cut to pierce materials extra hard
- To work when the drill is not fixed (such as fences).
- Available with TURBO (H12) and SMOOTH (H10) segments (<Ø52 on request).
- For low and medium drills power.

BLUE SERIES

**CONCRETE
REINFORCED
CONCRETE MEDIUM
ABRASIÓN**

ALTERNATIVE MATERIALS:

Artificial stone, brick (Solid, facing brick, hollow), tongue and groove, tile, sandstone, terrazzo, concrete, thermo-clay.

CHARACTERISTICS

- Longer duration than Red SERIES higher speed than Black SERIES.
- Excellent speed / life ratio.
- Available in TURBO (H12) and LISO (H10) segments. (<Ø52 on request).
- For all types of drilling machines.

BLACK SERIES

**CONCRETE
REINFORCED
CONCRETE HIGH
ABRASION**

ALTERNATIVE MATERIALS:

Concrete, asphalt, sandstone, refractory, vault, perforated brick, Silestone, tile, brick.

CHARACTERISTICS

- High performance.
- Recommended for high power electrical machines and hydraulics.
- Available with SMOOTH (H10) and TURBO (H12) segment.
- For medium and high-power drills.

FOR Ø32 < Ø802


<Ø52 SEGMENT
H10 SMOOTH*

>Ø52
SEGMENT H12 TURBO


SEGMENTED DRILL BIT 1" 1/4 UNC

Characteristics: The 1" 1/4 thread type bits are available in: Smooth segment with 10 mm height to improve durability, or turbo segment with 12 mm height for a better performance and speed.

LASER

REF	Ø	Length	Seg. x Width	Height	Alloy
424 02833	28	15	3x3.1	10	● ● ●
424 03033	30	15	3x3.1	10	● ● ●
424 03233	32	15	4x3.1	10	● ● ●
424 03533	35	15	5x3.1	10	● ● ●
424 04233	42	15	6x3.0	10	● ● ●
424 05233	52	24	5x3.5	12	● ● ●
424 06233	62	24	6x3.5	12	● ● ●
424 07233	72	24	7x3.5	12	● ● ●
424 08233	82	24	8x3.5	12	● ● ●
424 09233	92	24	9x3.5	12	● ● ●
424 10233	102	24	10x3.5	12	● ● ●
424 10733	107	24	9x3.5	12	● ● ●
424 11233	112	24	10x3.5	12	● ● ●
424 12233	122	24	11x3.5	12	● ● ●
424 12733	127	24	11x3.5	12	● ● ●
424 13233	132	24	11x3.5	12	● ● ●
424 14233	142	24	12x3.5	12	● ● ●
424 15233	152	24	13x4.0	12	● ● ●
424 16233	162	24	13x4.0	12	● ● ●
424 17233	172	24	13x4.0	12	● ● ●
424 18233	182	24	14x4.0	12	● ● ●
424 20233	202	24	15x4.0	12	● ● ●
424 22533	225	24	16x4.0	12	● ● ●
424 25233	252	24	17x4.0	12	● ● ●

INDUCTION

REF	Ø	Length	Seg. x Width	Height	Alloy
424 27510	275	20	18x5.0	12	● ● ●
424 30210	302	20	21x5.0	12	● ● ●
424 32510	325	20	22x5.0	12	● ● ●
424 35210	352	20	22x5.0	12	● ● ●
424 40210	402	20	24x5.0	12	● ● ●
424 45210	452	20	26x5.0	12	● ● ●
424 50210	502	20	30x5.0	12	● ● ●
424 60210	602	20	38x5.0	12	● ● ●
424 70210	702	20	46x5.0	12	● ● ●
424 80210	802	20	48x5.0	12	● ● ●

AVAILABLE ALLOY AND SEGMENT

Replace the first dash with the desired choice:
M/MP/P (Segment Turbo).

AVAILABLE LENGTHS

Replace the second dash with the desired choice:
Longitud: 1:450, B:1000, D:1500.

*For diameters bigger than Ø52 in smooth, they can be ordered under request.

ACCESSORIES

ACCESSORIES 1" 1/4

Characteristics: Solid iron adapter and extensions in one piece, with the entire hexagonal tube to be able to loosen or tighten in any situation.

REF	DESCRIPTION
42901111	Adapt. Male Drill bit 1 1/4 female, 1/2" female
42901100	Extension of 100 mm. 1 1/4 male-female
42901200	Extension of 200 mm. 1 1/4 male-female
42901300	Extension of 300 mm. 1 1/4 male-female
42901400	Extension of 400 mm. 1 1/4 male-female
42901500	Extension of 500 mm. 1 1/4 male-female

DRILL BITS

CONNECTION 1" 1/4 UNC



TYPES OF ALLOYS

We have 3 different types of alloys to choose from, depending on the material to be drilled.

For other types of combinations, under request

RED SERIES

CURED CONCRETE LOW ABRASION

Special for drilling extra hard materials at high speed.

BLUE SERIES

CURED CONCRETE MEDIUM ABRASION

For all types of concrete with optimal performance.

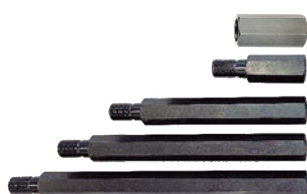
BLACK SERIES

CURED CONCRETE HIGH ABRASION

For asphalt, very abrasive concrete and all those materials with low resistance.

Ask our commercials for other diameters or sizes.

FOR 1" 1/4





DRILL BITS

CONNECTION

1/2" GAS



TYPES OF ALLOYS

We have 3 types of alloys for the segments classified by colours, to give the best performance in the tool according to the material to be treated:

RED SERIES

REINFORCED CONCRETE LOW ABRASION

Special for drilling extra hard materials at high speed.

BLUE SERIES

CONCRETE MEDIUM ABRASION

For all types of concrete with optimal performance

BLACK SERIES

ABRASIVE CONCRETE

For asphalt, very abrasive concrete and all those materials with low resistance.

Ask our commercials for other diameters or sizes.

FAST CUTTING



<Ø42 SMOOTH SEGMENT



>Ø47 TURBO SEGMENT

SEGMENTED DRILL BIT 1/2" GAS

Characteristics: Designed for fast drilling in low and medium power drills. Ideal for when working with manual drills and in lightly reinforced concrete. Recommendation: Always work at high speeds, at low speeds you can lower your performance.

LASER

REF	Ø	Length	Seg. x Width	Height	Alloy
424-03033	30	15	4x3.1	10	● ●
424-03233	32	15	4x3.1	10	● ●
424-03533	35	15	5x3.1	10	● ●
424-03833	38	15	5x3.0	10	● ●
424-04233	42	15	6x3.0	10	● ●
424-04733	47	15	6x3.3	12	● ●
424-05233	52	24	5x3.5	12	● ●
424-06233	62	24	6x3.5	12	● ●
424-07233	72	24	7x3.5	12	● ●
424-08233	82	24	8x3.5	12	● ●
424-09233	92	24	9x3.5	12	● ●
424-10233	102	24	10x3.5	12	● ●

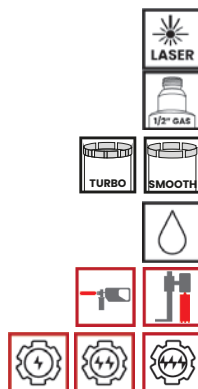
AVAILABLE ALLOY AND SEGMENT

Replace the first dash with the desired choice:
M/MP/P (Turbo segment).

AVAILABLE LENGTHS

Replace the second dash with the desired choice:
Length 2: 150, 0: 350, 6: 600, A: 1000, C: 1500,

*For diameters bigger than Ø52 in smooth segment, they can be ordered upon request.



FOR ALL KINDS OF MACHINES



ACCESSORIES

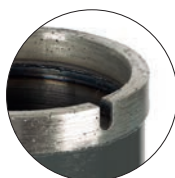
ACCESSORIES 1/2" GAS

Characteristics: Adapter to be able to connect 1 1/4 drill bits and extensions of different lengths to 1/2" gas drill bits.

REF	DESCRIPCIÓN
42900111	Adapt. mach. Drill 1 1/4 male-male
42900110	Adapt. mach. Drill 1/2" Gas to M-16 male-male
42900100	Extension 100 mm Drill 1/2" Gas male-female
42900200	Extension 200 mm Drill 1/2" Gas male-female
42900300	Extension 300 mm Drill 1/2" Gas male-female
42900400	Extension 400 mm Drill 1/2" Gas male-female



SPECIAL RING HIGHLY REINFORCED CONCRETE



<52 RING
SEGMENT

RING DRILL BIT 1/2" GAS

Characteristics: Ring-type drill bits are designed to drill highly reinforced concrete, their continuous ring-type format prevents the bit from getting caught in the reinforcement.

LASER

REF	Ø	Length	Seg. x Width	Height	Alloy
42_01233	12	12	1x2.5	8	● ●
42_01433	14	14	1x2.5	8	● ●
42_01633	16	16	1x2.5	8	● ●
42_01833	18	18	1x2.5	8	● ●
42_02033	20	20	1x2.5	8	● ●
42_02233	22	22	1x2.5	8	● ●
42_02533	25	25	1x2.5	8	● ●
42_02833	28	28	1x2.5	8	● ●
42_03033	30	30	1x2.5	8	● ●
42_03233	32	32	1x2.5	8	● ●
42_03533	35	35	1x2.5	8	● ●
42_04233	42	42	1x3.0	8	● ●
42_05233	52	52	1x3.5	8	● ●

AVAILABLE ALLOY AND SEGMENTO

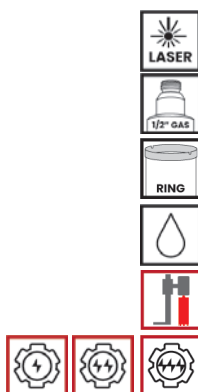
Replace the first dash with the desired choice:

— Quality: 7/8 (Seg ring)

AVAILABLE LENGTHS

Replace the second dash with the desired choice:

— Length: 2: 150, 0: 350, 6: 600, A: 1000, C: 1500,



DRILL BITS

CONNECTION 1/2" GAS RING SEGM



Ring type drill bits with smooth segment are characterized by perfect drilling in small diameters.

TYPES OF ALLOYS

We have 2 types of alloys for the Ring type segment, classified by colours, to give the best performance in the tool according to the material to be treated:

RED SERIES REINFORCED CONCRETE LOW ABRASION

Special for drilling extra hard materials at high speed.

BLUE SERIES REINFORCED CONCRETE MEDIUM ABRASION

For all types of concrete with optimal performance results.

Ask our commercials for other diameters or sizes.



DRILL BITS

1" 1/4 UNC.
ELITE



ELITE DRY DRY DRILLING. REINFORCED CONCRETE

Drill bit designed for drilling **dry** reinforced concrete with **micro-percussion** machines with suction and with the possibility of using it with water. Wide segment to allow air passage. Rectified segment to start fully concentric drilling.

RED SERIES REINFORCED CONCRETE LOW ABRASION

Special for drilling extra hard materials at high speed.

BLUE SERIES CONCRETE MEDIUM ABRASION

For all types of concrete with optimal performance

BLACK SERIES ABRASIVE CONCRETE

For asphalt, very abrasive concrete and all those materials with low resistance.

IDEAL FOR Ø32 < Ø802



Ø52
TURBO SEGMENT

ELITE DRY DRILL BIT (DRY)

SOLGA presents the new range of ELITE drill bits with turbo segment. An exclusive design that offers **high performance in dry drilling (DRY)** in all the materials that belong to the **Red SERIES**, **Blue series** and **Black SERIES**.

REF	Ø	Length	Seg. x Width	Height	Alloy
424D_105233	52	24	5x3.5	12	3 EN 1
424D_06233	62	24	6x3.5	12	3 EN 1
424D_07233	72	24	7x3.5	12	3 EN 1
424D_08233	82	24	8x4.0	12	3 EN 1
424D_09233	92	24	9x4.0	12	3 EN 1
424D_10233	102	24	10x4.0	12	3 EN 1
424D_10733	107	24	10x4.0	12	3 EN 1
424D_11233	112	24	10x4.0	12	3 EN 1
424D_12233	122	24	11x4.0	12	3 EN 1
424D_12733	127	24	11x4.0	12	3 EN 1
424D_13233	132	24	11x4.0	12	3 EN 1
424D_14233	142	24	12x4.0	12	3 EN 1
424D_15233	152	24	13x4.5	12	3 EN 1
424D_16233	162	24	13x4.5	12	3 EN 1
424D_17233	172	24	13x4.5	12	3 EN 1
424D_18233	182	24	14x4.5	12	3 EN 1
424D_20233	200	24	15x4.5	12	3 EN 1
424D_22533	225	24	16x4.5	12	3 EN 1
424D_25233	250	24	17x4.5	12	3 EN 1

AVAILABLE LENGTHS

Replace the second dash with the desired choice:

— Length: **1**:450, **B**:1000, **D**:1500.





ACCESORIES DE PERFORACIÓN



Samples of some of the products on the list. Ask our team for more information.

ACCESSORIES

MECHANICAL FIXING ACCESSORIES

REF	DESCRIPCIÓN
70300000	FIXING PACK: NUT, STUD, STICK and 7 SCREWS (A)
70300002	Washer for bits quick removal (B)
70300005	QUICK FIXING STUD L250 M-12 (C)
70300005A	EQUICK FIXING STUD L250 M-16 (D)
70300006	QUICK ANCHOR NUT (E)
70300007	EXPANSIVE METAL PLUG Ø 15 M-12 (F)
70300007A	EXPANSIVE METAL PLUG Ø 20 M-16 (G)
70300008	EXPANDER LENGTH 15 M-12 FOR PLUG 15 (H)

FIXING ACCESSORIES WITHOUT TOOLS

REF	DESCRIPCIÓN
70300009	WALL CLAMP SUPPORT (1)
70300009A	COMPLETE BASE TROLLEY SUPPORT
70300010	VACUUM PLATE (2)
70300011	VACUUM PUMP (3)
70300012	WATER COLLECTOR (4)
70300013	MEMBRANE FOR WATER COLLECTOR (5)
70300014	WATER PUMP (6)

EXTRACTION ACCESSORIES

REF	DESCRIPCIÓN
70300017	BAZOOKA CORING (7)
70300018	EXTRACTING KIT F/BLADE Ø 800 ADAP.+BAZOOKA (8)
70300019	ADAPTER P/BAZOOKA FOR BLADE Ø800 (9)
70300020	ADAPTER P/BAZOOKA FOR BLADE Ø1200 (10)
70300021	EXTRACTING KIT F/BLADE Ø1200 ADAP.+BAZOOKA

TURBO AND SMOOTH SEGMENT

SMOOTH: 10 mm high smooth segment with roof to facilitate the opening of the segment and self-centering when the segments are new. Segments bigger than Ø52 under request.

TURBO: 12mm turbo segment. With roof segment to facilitate opening and self-centering. Designed to increase cutting and speed.

REF	Ø	Length	Width	Height	Alloy
494_00001	24-42	15	3,0	10 / 12	● ● ●
494_00002	52	24	3,5	10 / 12	● ● ●
494_00003	62-82	24	3,5	10 / 12	● ● ●
494_00004	92-112	24	3,5	10 / 12	● ● ●
494_00005	112-142	24	3,5	10 / 12	● ● ●
494_00006	152-202	24	4,0	10 / 12	● ● ●
494_00007	142-202	24	4,0	10 / 12	● ● ●
494_00008	275-252	24	5,0	10 / 12	● ● ●
494_00009	>352	24	5,0	10 / 12	● ● ●

AVAILABLE OPTIONS

Replace the hyphen with the desired choice:
 _Quality: **M/MP/P** (Turbo), **3/6/2** (Smooth)

SEGMENT SMOOTH OF Ø25-Ø352



TURBO SEGMENT OF Ø25-Ø352



RING SEGMENT < Ø52



RING SEGMENT

Characteristics: Suitable for small diameters. Its ring shape reduces blockage of the bit by the rod. Designed for a perfect cut.

REF	Ø	Length	Width	Height	Alloy
4970000	12<42	-	2,5	8	●
4980000	12<52	-	2,0	8	●

AVAILABLE DIAMETERS:

Two last hyphens correspond to the diameters.
 _ _ 12/14/16/18/20/22/24/28/30/32/42/52

ACCESORIES

DIAMOND DRILLING

Solga Diamant has all kinds of accessories to fix the drill bits in any work situation.

With a good fixation we minimize the eccentricities of the drill bits to achieve a greater productivity by increasing the drilling speed and the number of perforations.

We also have the Bazooka extractor, to unclip the drill bits when they get stuck inside the slab or the wall and also to extract the cores that get clogged inside the drill bits.

SEGMENTS

Manufacture and supply of segments for drill bits, both for the retipping service and for the manufacture of OEM drill bits for our clients. Possibility of supplying our standard alloys or manufacturing according to customer needs.

RED SERIES

LOW ABRASION REINFORCED CONCRETE

Special for drilling extra hard materials at high speed

BLUE SERIES

MEDIUM ABRASION REINFORCED CONCRETE

For all types of concrete with optimal performance.

BLACK SERIES

VERY ABRASIVE REINFORCED CONCRETE

For asphalt, very abrasive concrete and all those materials with low resistance.



SOLGA DIAMANT Web Page and Social Media

EXHIBITOR DIAMOND CORE DRILLS

Dimensions:
200x50x50 cm
Exhibitor Code:
90030015



SOLGA EXHIBITORS

Vertical metal exhibitors

SOLGA Diamant has displays for all kinds of diamond tools.

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

For the sale of drill bits, we have the following models:

DIAMOND DRILL BITS EXHIBITOR

This model is ideal for the visibility of the most popular core bits on the market. Showing bits with a useful length of 450 mm and diameters from Ø52 to Ø252.

METALLIC VERTICAL DISPLAY

An exhibitor model where manual use drill bits of different sizes and accessories can be placed, so that end users can choose according to their needs.

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

METALLIC VERTICAL DISPLAY

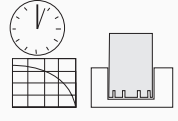
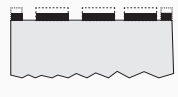
Dimensions:
180x42x32 cm
Exhibitor Code:
FG36622

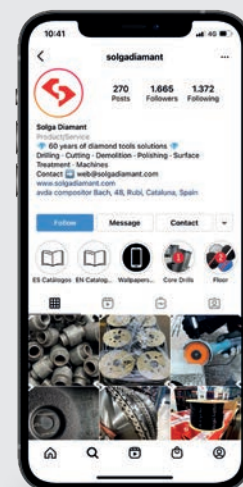




TROUBLESHOOTING

SOLGA Diamant has solutions at your disposal, based on a series of possible problems that any operator may find while working.

What we observe	Possible cause	Solution on the tool
Segment detachment		
	- Lack of refrigeration, thickness decrease. - Excessive heat. - Jammed drill bit. - Loose rods.	- Increase refrigeration. - Check that the drill anchor is correctly positioned and without damage.
Segment darkening		
	- Lack of refrigeration - Excessive heat. - Excessive speed.	- Increase refrigeration. - Decrease the rotation speed. - Switch to a cyclical drilling mode.
Segment inclination (outside/inside)		
	- Sudden start. - Work at high power with the polished segment - Choice of a too hard segment.	- Drill smoothly. - If possible, move the opening. If movement is not possible, set the rotation speed lower. - Set the drill bit as slow and smooth as as possible.
Cracks in the steel body		
	- Uneven core body wear as a result of core runout, side loads, impact. - Overload during drilling. - Jammed drill bit.	- Change to a smoother or cyclical drilling mode. - Stop the drill and clear the drill bit.
Total or partial tear of the segment		
	- Poor support fixing. - Loose rods.	Fix support..
Tube rub		
	Satin segment.	- Fix support. - Cut.
Speed de corte baja		
	- Lack of refrigeration. - Notch not centred. - Loss of support rigidity.	Lower peripheral speed.
Desgaste excesivo		
	- Lack of refrigeration. - Low peripheral speed.	- Increase refrigeration. - Raise peripheral speed.



Check the complete catalogue on our website or contact us for more information about our products and services.

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



DIAMOND TOOLS



**1. CORE
DRILLS**



**2. FLOR
SAW BLADES**



**3. WALL SAW AND
PRECAST DIAMOND
BLADES**



**4. DIAMOND
WIRE FOR
CONSTRUCTION**



**5. DIAMOND BLADES
FOR NATURAL AND
ARTIFICIAL STONES**



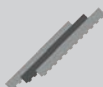
**6. DIAMOND WIRE FOR
NATURAL STONE**



**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**



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AUTHORIZED POINT OF SALE



V1.0.0



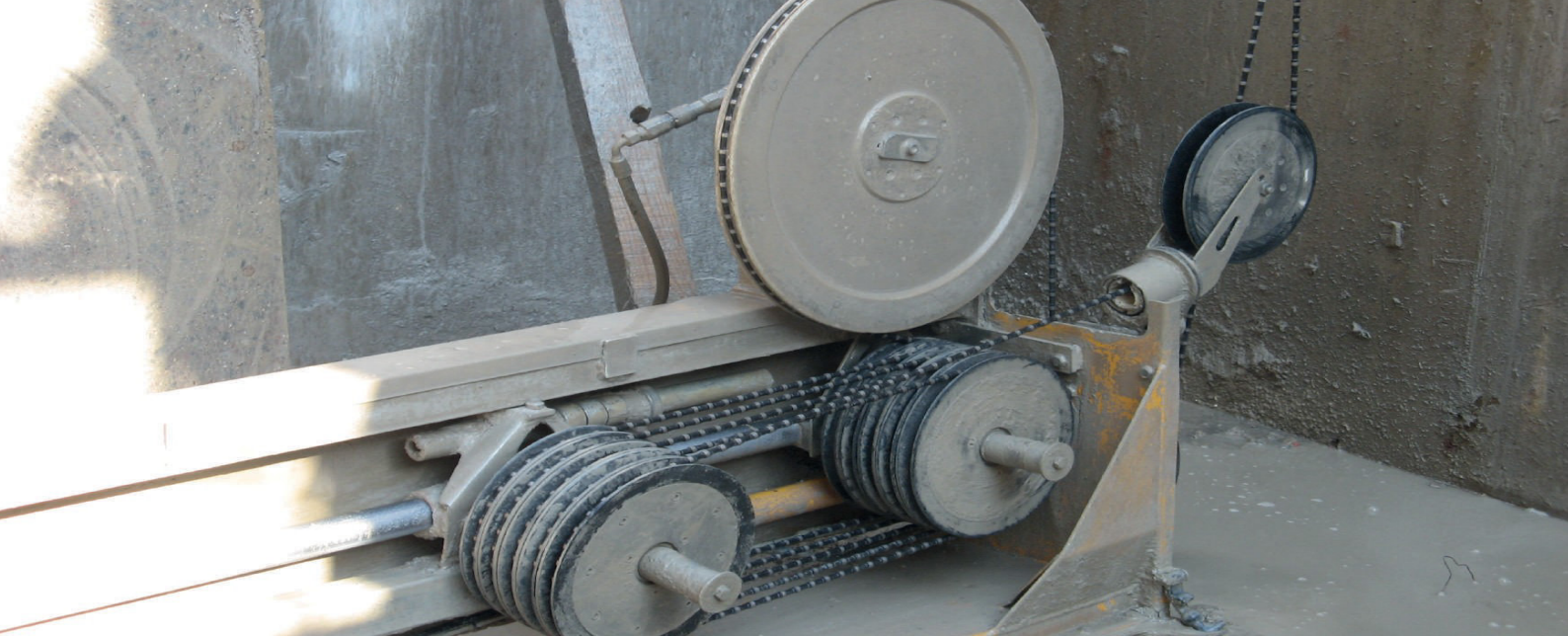
04



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.

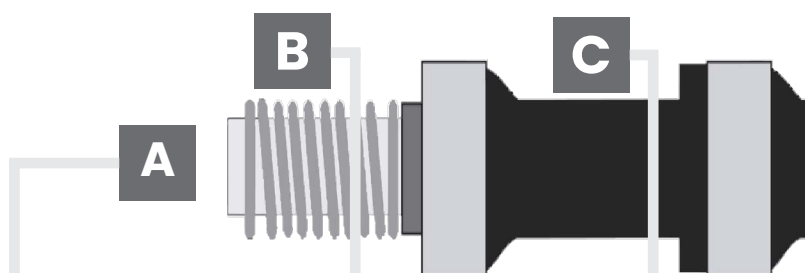
It is necessary to cool the wire with water to obtain good results, although there are special equipment that allow dry work, please consult us.

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: N° 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: N° 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: N° 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.

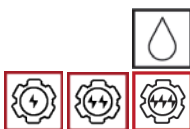
%REINFORCEMENT STANDARD:

CODE: 404M9TZ4

VACUUM TECHNOLOGY



Speed ●●●●●
Life ●●●●○



VACUUM

Characteristics: N° 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**



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DIAMOND BLADES FOR PRESTRESSED CONCRETE





BLADES FOR PRESTRESSED



SOLGA DIAMANT has a specific line for the prestressed concrete industry, being an active member of the IPHA (International Prestressed Hollowcore Association). Our long experience and our strong link to the prestressed industry allows us to offer you the best solutions for your production, being able to respond to all your needs when cutting hollowcores and concrete beams.

HIGH QUALITY DIAMONDS

Strong crystals with high durability that withstand high temperatures. Octahedral shape for high speed and good performance. They have high impact resistance against steel and hard aggregates.



STEEL CORE SOLUTIONS

Blades for prestressed must have a thicker steel core and thicker segments. A more robust steel core is used to ensure the tension and flatness of the blade throughout the work, due to the fatigue received during the cutting process. Wider segments are used to prevent the prestressed slabs from pinching the blade at the bending. We can produce with standard steel core, Soundproof steel core or silent steel core to deduce the noise level.

HOLLOWCORE AND CONCRETE BEAMS

We have a complete range of blades for prestressed concrete for cutting any thickness, both for hollowcores and for concrete beams. We recommend the best alloy after analyzing in our laboratory a sample of concrete to determinate the type of arid used



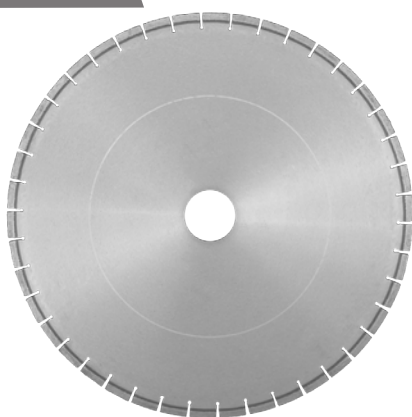
VISIT US!



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 an appropriate diamond for each application. Our laser, induction and autogenous welding centers optimize each product **to ensure maximum durability and safety.**

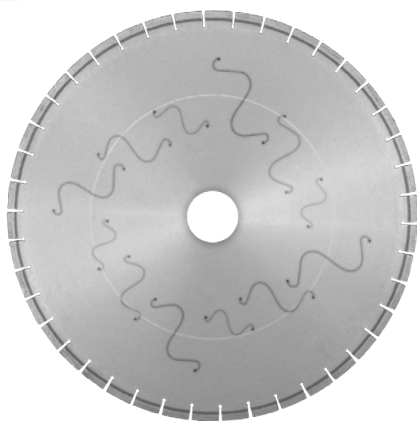
Our sales team and our network of distributors will accompany you at all times in selecting both the tool and working parameters that will allow you to obtain the best results.

**STANDARD****STANDARD STEEL CORE**

Features: Blades for cutting prestressed concrete with a thicker standard plate. Available in different bonds according the concrete arids.

Noise Level: Standard around 100-110 dB.

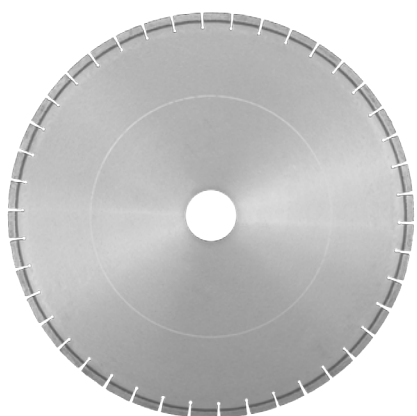
REF	Ø	Shaft	Width	High
353_7600	600	60	6	15
353_7700	700	80	6	15
353_7800	800	80	6	15
353_7900	900	80	6	15
353_5100	1000	100	8	10
353_5110	1100	100	8	10
353_5120	1200	100	8	10
353_5130	1300	120	9	10
353_5145	1450	120	9	10

SOUNDPROOF**SOUNDPROOF STEEL CORE**

Features: Blades for cutting prestressed concrete with a thicker soundproof steel core, using laser cuts covered by resins to reduce the noise level. Available in different bonds according the concrete aggregates

Noise Level: These blades can reduce noise levels by approximately 10-15 dB compared to standard blades.

REF	Ø	Shaft	Width	High
358_7600	600	60	6	15
358_7700	700	80	6	15
358_7800	800	80	6	15
358_7900	900	80	6	15
358_5100	1000	80	8	10
358_5110	1100	80	8	10
358_5120	1200	80	8	10
358_5130	1300	120	9	10
358_5145	1450	120	9	10

SILENT**SILENT STEEL CORE**

Features: Blades for cutting prestressed concrete with a thicker steel core, using sandwich silent steel core to reduce the noise level. Available in different bonds according the concrete aggregates

Noise Level: These blades offer the highest level of noise reduction, potentially reducing noise by 20-25 dB or more.

REF	Ø	Shaft	Width	High
357_7600	600	60	6	15
357_7700	700	80	6	15
357_7800	800	80	6	15
357_7900	900	80	6	15
357_5100	1000	80	8	10
357_5110	1100	80	8	10
357_5120	1200	80	8	10
358_5130	1300	120	9	10
358_5145	1450	120	9	10

BOND TYPES ACCORDING TO CONCRETE AGGREGATES:

A8019

CALCAREOUS ARID
CODE NUMBER "C"

A141

ARID WITH ≤5% SILICIUM
CODE NUMBER "1"

A262M

ARID WITH ≤10% SILICIUM
CODE NUMBER "0"

3402

ARID WITH ≤20% SILICIUM
CODE NUMBER "2"

3403

ARID WITH ≤30% SILICIUM
CODE NUMBER "3"

3404

ARID WITH ≤40% SILICIUM
CODE NUMBER "4"

3405

ARID WITH >40% SILICIUM
CODE NUMBER "5"

**Other diameters and Shaft
under request**

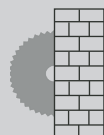
DIAMOND TOOLS



1. CORE DRILLS



2. FLOOR SAW BLADES



3. PRECAST DIMAOND 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



V1.0.1



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