

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.

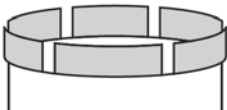
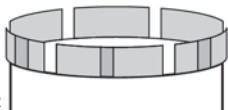
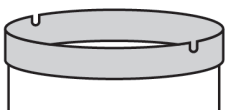
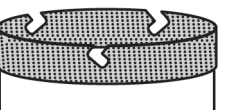
SOLGA DIAMANT as a European manufacturer of diamond tools offers a complete range for cutting, drilling and surface treatment for **the construction** and natural **stone sectors**.

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)

 <p>Ø32 to Ø802</p> <p>SEGMENTED SHAPE SMOOTH SEGMENT</p> <p>Smooth segment with "roof" for self-centering, gives us more strength against breakage. Segment height of 10 mm (<Ø52 under request).</p>	 <p>Ø52 to Ø802</p> <p>SEGMENTED SHAPE TURBO LASER</p> <p>Turbo segment with "roof" for self-centering, for faster cutting and high performance. 12mm segment height.</p>	 <p>Ø12 to Ø52</p> <p>Continuous shape RING</p> <p>Continuous drill bit to avoid snagging and breakage in highly reinforced concrete. Special for small diameter drill bits. Segment height 8 mm.</p>	 <p>Up to Ø110</p> <p>CONTINUOUS SHAPE VACUUM</p> <p>Diamond welded directly onto the metal support. Ideal for extra hard and low abrasion materials. They work at top speed.</p>
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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.

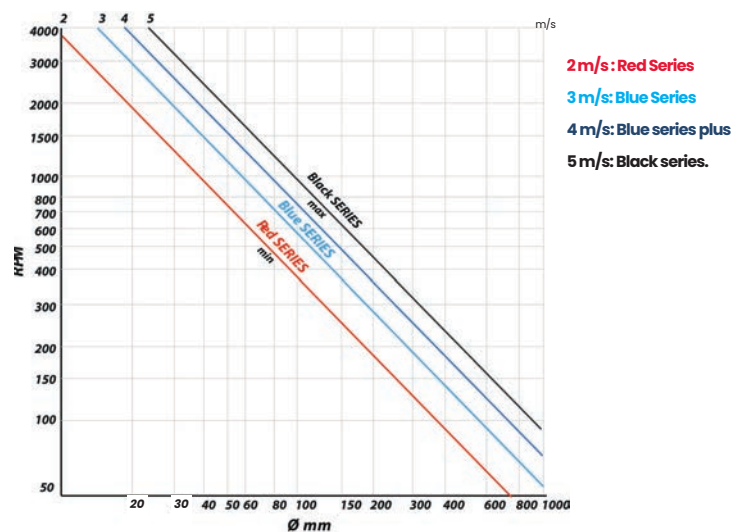
Speed settings

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

 <p>LOW POWER Up to 2.5 kW. For hand and support drills.</p>	 <p>MEDIUM POWER From 2,5 to 3.4 Kw. Support drills.</p>	 <p>HIGH POWER From 3.5 Kw. On. Support drills.</p>
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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	Nº seg.	Useful Length	150	50
Available Length							
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	Nº 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.

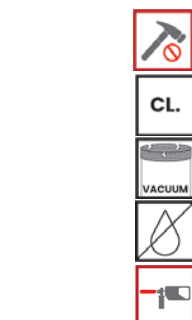
REF	Description
42997100	SDS-plus Length 100 mm to M16 Male does not include centering device.
42997220*	SDS-plus Length 220 mm to M16 Male does not include centering device.
42996100	Hexagonal Length 100 mm to M16 Male does not include centering device.
42996220*	Hexagonal Length 220 mm to M16 Male 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

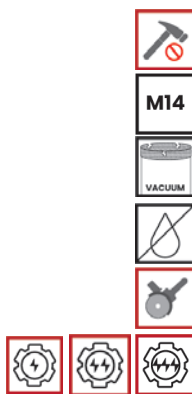


Drill bit Ø5- Ø12



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.
Drill bit					
42205005	5			M14	
42205006	6			M14	
42205008	8			M14	
42205010	10			M14	
42205012	12			M14	
Core drills					
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.

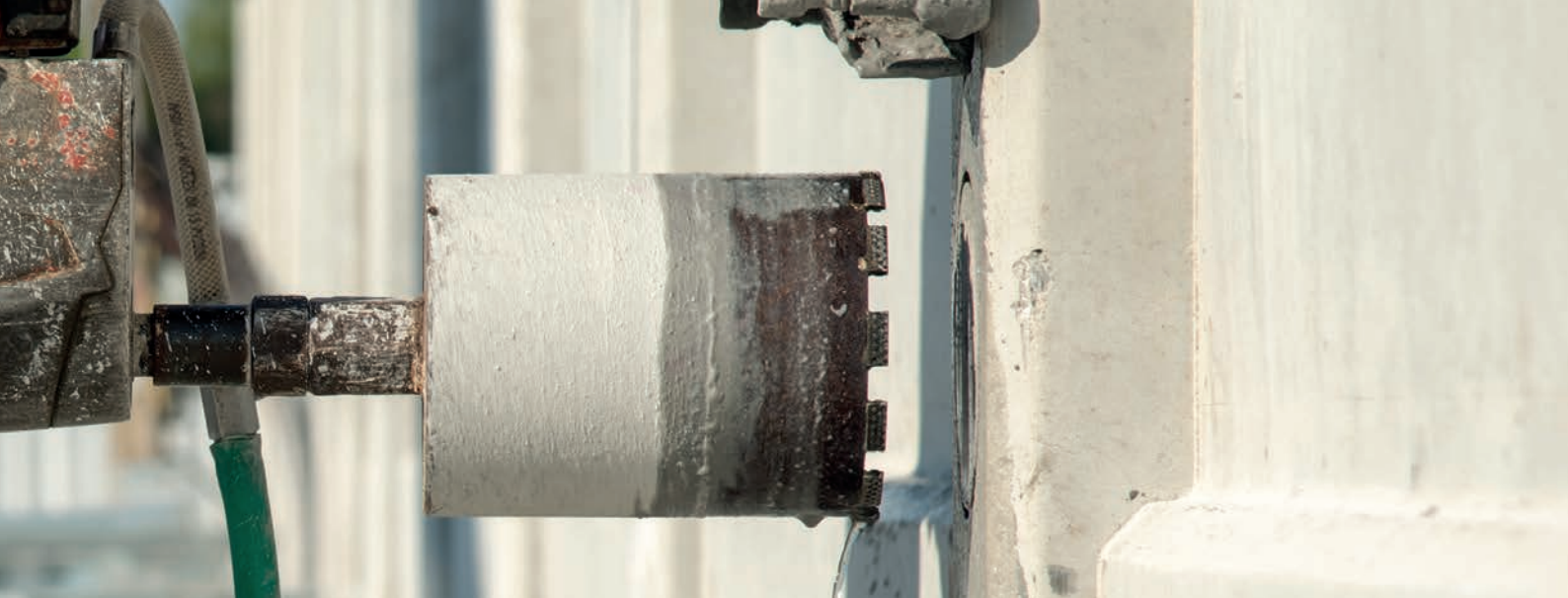
ADVANTAGES OF VACUUM LASER WELDING.

- 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.	

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.

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

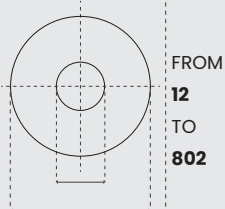
DRILLING

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.

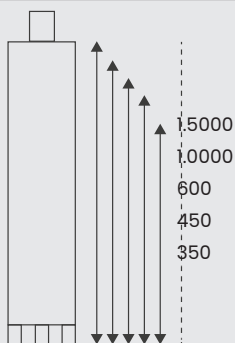
OUR CONNECTIONS



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**

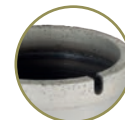


RING SEGMENT

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.

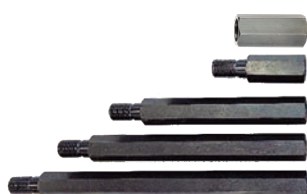
BLACK SERIES

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	● ●

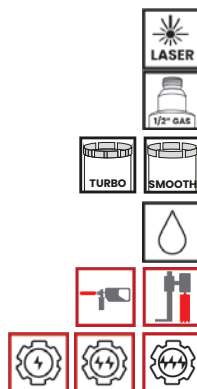
AVAILABLE ALLOY AND SEGMENT

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

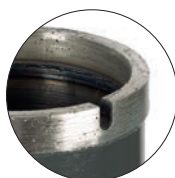
ACCESSORIES 1/2" GAS

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

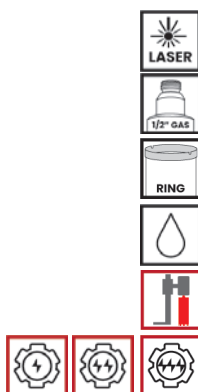
Replace the first dash with the desired choice:

— 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

SEGMENT SMOOTH OF Ø25-Ø352



TURBO SEGMENT OF Ø25-Ø352



RING SEGMENT < Ø52



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)

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






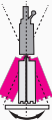
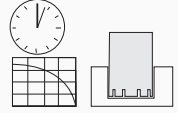

Dimensions:
180x42x32 cm
Exhibitor Code:
FG36622

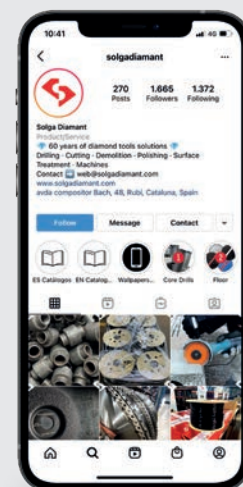




TROUBLESHOOTING

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		
	<ul style="list-style-type: none"> Lack of refrigeration, thickness decrease. Excessive heat. Jammed drill bit. Loose rods. 	<ul style="list-style-type: none"> Increase refrigeration. Check that the drill anchor is correctly positioned and without damage.
Segment darkening		
	<ul style="list-style-type: none"> Lack of refrigeration Excessive heat. Excessive speed. 	<ul style="list-style-type: none"> Increase refrigeration. Decrease the rotation speed. Switch to a cyclical drilling mode.
Segment inclination (outside/inside)		
	<ul style="list-style-type: none"> Sudden start. Work at high power with the polished segment Choice of a too hard segment. 	<ul style="list-style-type: none"> 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		
	<ul style="list-style-type: none"> Uneven core body wear as a result of core runout, side loads, impact. Overload during drilling. Jammed drill bit. 	<ul style="list-style-type: none"> Change to a smoother or cyclical drilling mode. Stop the drill and clear the drill bit.
Total or partial tear of the segment		
	<ul style="list-style-type: none"> Poor support fixing. Loose rods. 	<ul style="list-style-type: none"> Fix support..
Tube rub		
	<ul style="list-style-type: none"> Satin segment. 	<ul style="list-style-type: none"> Fix support. Cut.
Speed de corte baja		
	<ul style="list-style-type: none"> Lack of refrigeration. Notch not centred. Loss of support rigidity. 	<ul style="list-style-type: none"> Lower peripheral speed.
Desgaste excesivo		
	<ul style="list-style-type: none"> Lack of refrigeration. Low peripheral speed. 	<ul style="list-style-type: none"> 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**



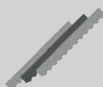
**6. DIAMOND WIRE FOR
NATURAL STONE**



**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

