

10



SOLGA

# SURFACE TREATMENT







CROWNS, PLATES, SECTORS  
AND ROLLERS

## SURFACE TREATMENT

### Classification by materials

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



**WHITE  
SERIES**

**PAINTS AND  
RESINS**

**PK**

Segment designed for the treatment of resins or epoxy paints from 1 to 5 mm.

**PK1:** Remove 5mm material in one pass.

**PK2:** Remove material in 3 mm passes.

**PK3:** Remove material in 2 mm passes.

**Application:** Resin and epoxy paint surfaces.

**PK:** For plates and sectors.

**WHITE SERIES:** Remove material in 2 mm passes.



**YELLOW  
SERIES**

**NON-ABRASIVE  
SURFACE**

**BRH**

Segment designed in a wedge shape to scratch extra hard pavements with 0% silica.

**Application:** Surfaces made of well-fixed paints and resins, highly strength limestone concrete, porcelain tile, granite, terrazzo.

**BRH:** For plates and sectors.

**YELLOW SERIES:** For crowns and rollers.



**BLUE  
SERIES**

**MEDIUM ABRASIVE  
SURFACE**

**CHPH10**

Segment designed for the treatment of medium abrasive pavements, from 5 to 10% silica.

**Application:** Surfaces made of high strength siliceous concrete and low strength limestone concrete.

**CPH10:** For plates and sectors.

**BLUE SERIES:** For crowns and rollers.



**RED  
SERIES**

**HARD SURFACE**

**CPH**

Segment designed for the treatment of hard pavements with a maximum of 5% silica.

**Application:** Surfaces made of poorly fixed paints and resins, limestone or floated concrete, terrazzo and granite.

**CPH4:** For plates and sectors.

**RED SERIES:** For crowns and rollers.



**GREY  
SERIES**

**ABRASIVE SURFACE**

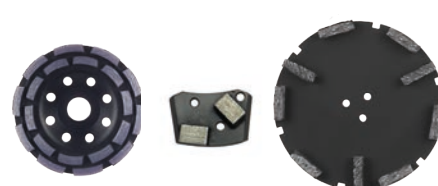
**CPH20**

Segment designed for the treatment of abrasive pavements, from 10 to 20% silica.

**Application:** Surfaces made of siliceous concrete, low strength concrete, asphalt, quartz.

**CPH10:** For plates and sectors

**GREY SERIES:** For crowns and rollers.



**BLACK  
SERIES**

**SUPER ABRASIVE  
SURFACE**

**CPH40  
SARE**

Segment designed for the treatment of extremely abrasive pavements with more than 40% silica.

**Application:** Multi-layered surfaces, milled concrete, without trowelling, slurry and asphalt.

**CPH140/SARE:** For plates and sectors.

**BLACK SERIES HIGH:** For crowns and rollers.

**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.

**VISIT US!**



## Selection Guide

**SOLGA DIAMANT**, has developed a method so that our clients can select the tool that suits their needs.

### ROLLER SELECTION METHOD IN 3 STEPS:

#### STEP 1. MACHINE/AXIS TYPE

Discs adapted to the necessary axis



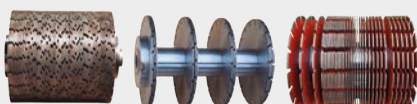
#### STEP 2. SELECTION OF A DISC WITH THE ALLOY TYPE

For an appropriate combination between the type of notch and the disc alloy depending on the material.



#### STEP 3. TYPE OF WORK FOR THE CREATION OF DRUMS

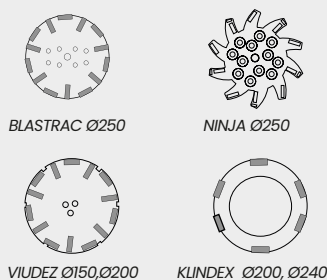
Drum-type distributor discs, depending on the type of work to be carried out.



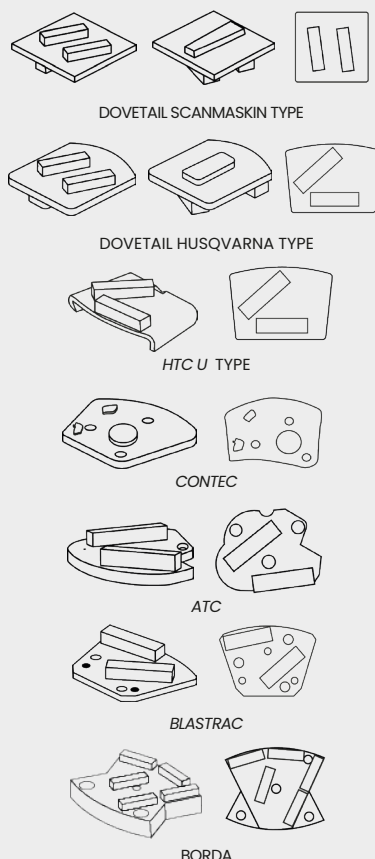
### SELECTION METHOD OF SECTORS AND PLATES IN 3 STEPS:

#### STEP 1. TYPE OF MACHINE

Select a plate according to your machine  
**PLATES.** For single plate and satellite machines.

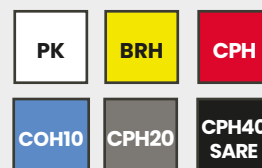


**SECTORS.** For single plate and satellite machines.



#### STEP 2. APPLICATION

Select an alloy based on the type of the material to be polished.



#### STEP 3. FINISHING

Select the type of a diamond you want to add to your alloy.

<b>ROUGH CUTTING</b> <b>Grain 6 / 16</b>	VERY LARGE GRAIN
For the recess, preparation of the pavement with a deep scratch.	
<b>Applications:</b> Concrete in poor or irregular condition and thinned paints or resins.	
<b>SEMI-POLISHED</b> <b>Grain 30 / 40</b>	LARGE GRAIN
Preparation of surfaces after recessing. Scratching for resin application.	
<b>Applications:</b> Epoxy resins or thin paint removal.	
<b>POLISHED</b> <b>Grain 60 / 80</b>	MEDIUM GRAIN
Light sanding, it leaves shallow scratches, it's perfect for applying thin resins. Remove the scratch made by a 30/40 grain.	
<b>Applications:</b> Low thickness resins.	
<b>FINISHED</b> <b>Grain 100 / 120</b>	SMALL GRAIN
It leaves matte surfaces without leaving marks.	
<b>Applications:</b> Transparent paints and scratch removal.	

## WHITE SERIES

### PAINTS

USE ON LOW ABRASIVE SURFACES

### OPTIMAL MATERIALS

PAINTS, EPOXIC RESINS, SLURRY, CHLORINATED RUBBER.

## YELLOW SERIES

### NON-ABRASIVE MATERIAL

USE ON NON-ABRASIVE SURFACES WITH 0% SILICA

### OPTIMAL MATERIALS FOR SANDING

PAINTS, THICK AND WELL FIXED RESINS, LIMESTONE AND FLOATED CONCRETE, TERRAZZO, GRANITE AND PORCELAIN TILE

The **WHITE SERIES** range of diamond crowns uses strategically placed polycrystalline tips that allow efficient removal of the material to be worked, while the **YELLOW SERIES** range uses the diamond metal segments that optimize power and precision through the strategic distribution.

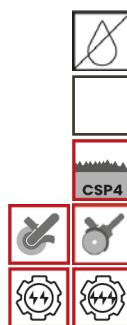
### MATERIALS:

**WHITE SERIES:** Thick layer materials and projects that require speed. It's useful in construction and demolition.

**YELLOW SERIES:** Strongly anchored thin resins and preparation of extra hard pavements perfect for renovation and remodeling work. Both ranges offer effective solutions for the efficient renewal of surfaces, preparing the surfaces to be renewed for the following stages of the polishing process. It's perfect for the surface renovation work.



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



### PK POLYCRYSTALLINE CROWN

**Characteristics:** High hardness polycrystalline diamond that allows the removal of very thick paints and resins (up to 5 mm per pass).

REF	Ø	Axis	Z	Type of grain
54326125	125	22,2	5	PK
54326180	180	22,2	6	PK



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



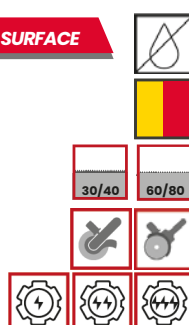
### WEDGE-SHAPED ARROW CROWN (BRH)

**Characteristics:** It pens pores and sands extra-hard surfaces such as high-strength concrete, terrazzo and natural stones.

REF	Ø	Axis	Z	Type of grain
52991207	125	22,2	7	BRHF
52991510	150	19	10	BRHF
52991812	180	22,2	12	BRHF



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



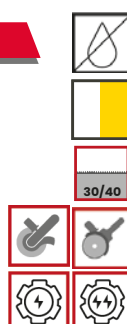
### TRIANGULAR WEDGE-SHAPED CROWN

**Characteristics:** It promotes the removal of a material. It removes paint and thin, strongly anchored resins, opens without leaving marks.

REF	Ø	Axis	Z	Type of grain
52991207B	125	22,2	7	40
52991207BI	125	22,2	7	30
52991510B	150	19	7	40
52991812B	180	22,2	9	40



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



### MULTI-POINT NEEDLE CROWN

**Characteristics:** It makes it easier to dig into the elastic materials to remove elastic paints from the base.

REF	Ø	Axis	Z	Type of grain
54325125	125	22,2	-	30/40
54325180	180	22,2	-	30/40



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



### FLAT MULTI-POINT CROWN

**Characteristics:** A diamond with a flat surface, which facilitates nailing into the hard materials, removing and sanding the hard surfaces.

It removes 1-2 mm coatings without damaging the sanded surface.

REF	Ø	Axis	Z	Type of grain
54324125	125	22,2	-	30/40
54324180	180	22,2	-	30/40

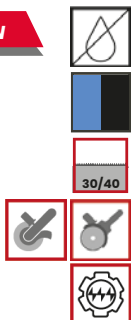




#### HIGH PERFORMANCE AND PERFECT SUCTION



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



#### BOOMERANG CROWN

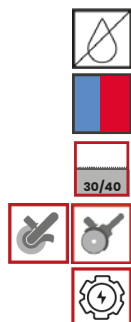
**Characteristics:** It allows you to work on the surfaces without leaving marks. Perfect suction. High performance.

REF	Ø	Axis	Z	Type of grain
529H1523	150	19	7	30/40

#### SPECIAL LOW POWER MACHINE



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



#### SINGLE ROW CROWN

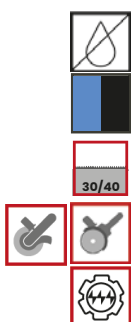
**Characteristics:** Get a quick sanding. Special low power machines.

REF	Ø	Axis	Z	Type of grain
531M100	100	M14	8	30/40

#### NON-AGGRESSIVE SANDING. SPECIAL CONCRETE.



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



#### DOUBLE ROW CROWN

**Characteristics:** It allows you to work on the surfaces without leaving marks.

REF	Ø	Axis	Z	Type of grain
53220100	100	22,2	8/8	30/40
53220115	115	22,2	9/9	30/40
53220125	125	22,2	10/10	30/40
53220180B	180	22,2	11/11	30/40

#### 2 IN 1. REMOVE AND PREPARE A SURFACE



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



#### MULTILAYER VACUUM "T" CROWN

**Characteristics:** Multipurpose format to work with the exceptional performance, light sanding, without straining the machine. The geometry of its diamond segments allows us to work on both stone materials and thin resins and paints.

REF	Ø	Axis	Z	Type of grain
54323125	125	22,2	8	30/40



## BLUE SERIES

### UNIVERSAL MATERIAL

USE ON THE MEDIUM ABRASIVE SURFACES WITH 5-10% SILICA.

#### OPTIMAL MATERIALS FOR SANDING

ARTIFICIAL STONE, BRICK (SOLID, FACE, HOLLOW, TONGUE AND GROOVE), TILE, TERRAZO, THERMOCLAY, CONCRETE, REFRACTORY.

The **BLUE SERIES** range of diamond crowns is distinguished by its medium abrasion metal bond and strategic arrangement of diamond points for balanced starting, effective sanding in abrasive materials. It allows the removal of weakly anchored paints.

#### RECOMMENDATION

It's perfect for alternating between abrasive and non-abrasive materials and removing weakly anchored paints.

A versatile range suitable for different tasks.



# RED SERIES

## HARD MATERIAL

USE THE SURFACES WITH 0-5% SILICA.

## OPTIMAL MATERIALS FOR SANDING

GRANITE, TERRAZO, SLATE  
COBBLESTONE, HARD  
CONCRETE, SILESTONE,  
BASALT, QUARTZITE,  
PORPHYRY, PUMICE STONE.

The RED SERIES range of diamond crowns uses diamond segments with a high concentration of high-hardness diamond. Its special configuration in the distribution of segments allows for continuous sanding without breaks in the material.

It is designed for grinding hard and ultra-hard materials requiring maximum requirements, in order to achieve an exceptional quality finishing.

### RECOMMENDATION:

- Beveled surfaces.
- Open a pore in natural stone, terrazzo, porcelain tile and high-performance concrete.
- Remove firmly adhered road paint

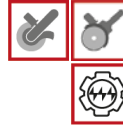
This range offers precise solutions for complex applications involving high hardness materials.

### SPECIAL TROWELLED CONCRETE



30/40	60/80	100/120
-------	-------	---------

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



### BOOMERANG CROWN

**Characteristics:** Perfect suction with high performance in all types of sanding. It's available in different grains for different finishes.

REF	Ø	Axis	Z	Type of grain
529H1513	150	19	7	30/40
529H1514	150	19	7	60/80
529H1515	150	19	7	100/120

### SPECIAL TROWELLED CONCRETE



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

### PRO DOUBLE ROW CROWN

**Characteristics:** Professional version, for high performance. It allows you to work on the hard surfaces without leaving marks. Metallic segments with higher concentration of a diamond.

REF	Ø	Axis	Z	Type of grain
53123125	125	22,2	10/10	30/40
53220180	180	22,2	12/12	30/40

### PERFECT FINISH AND SPECIAL GRANITE



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

### CONTINUOUS RING CROWN

**Characteristics:** Continuous type diamond for grinding without roughness or chipping, it's perfect for chamfering edges.

REF	Ø	Axis	Z	Type of grain
53144100	100	M14	Turbo	30/40

### PERFECT FINISH AND SPECIAL GRANITE



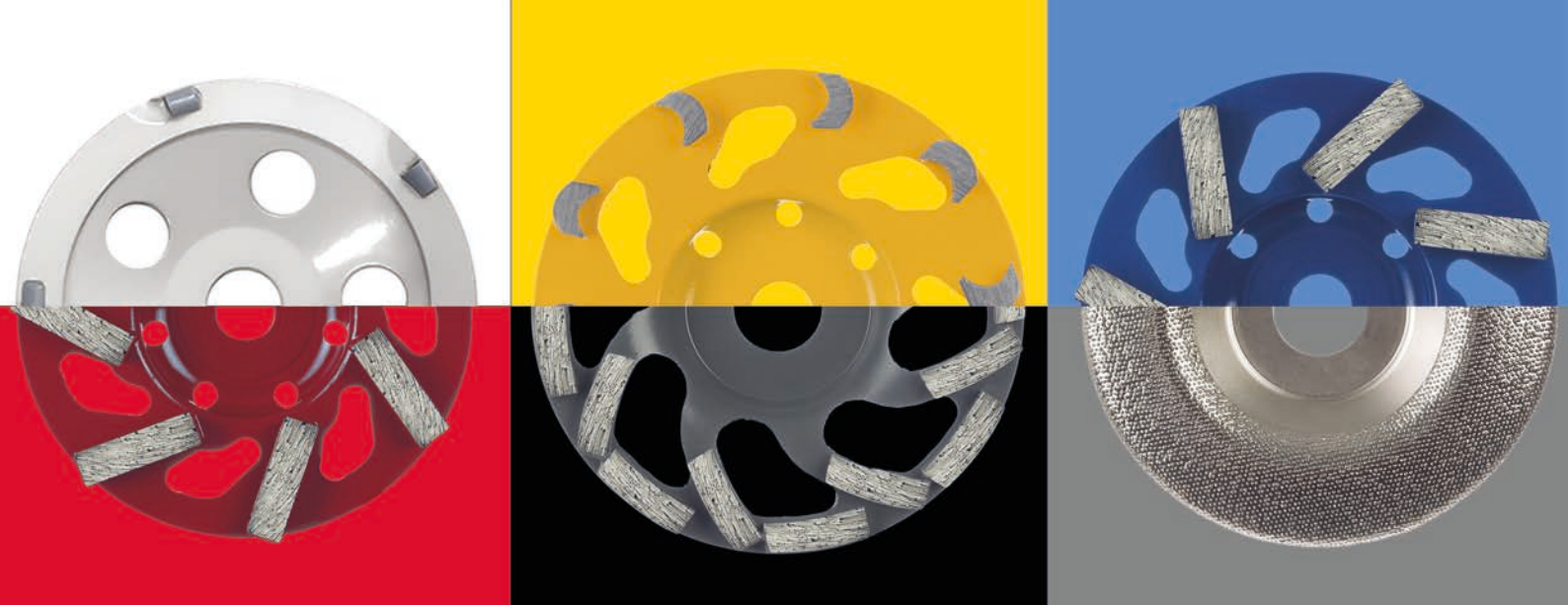
Finish ● ● ● ● ●  
Speed ● ● ● ● ○  
Life ● ● ● ● ●

### HUGH ROUGHING TURBO CROWN

**Characteristics:** It allows continuous sanding without impact. High performance crown.

REF	Ø	Axis	Z	Type of grain
53132100	100	M14	BC	30/40
53130125	125	22,2	BC	30/40
53131150	150	M14	BC	30/40

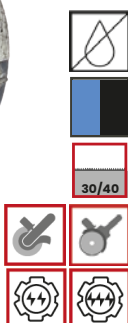




#### PERFECT SUCTION



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



#### BOOMERANG CROWN

**Characteristics:** Sand a surface without leaving marks, performing a gentle and non-aggressive sanding.

REF	Ø	Axis	Z	Type of grain
53126125	125	22,2	16	30/40
53126180	180	22,2	24	30/40

#### PERFORMANCE AND GOOD FINISH



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



#### SUPER PRO DOUBLE ROW CROWN

**Characteristics:** This makes it possible to treat surfaces without leaving marks at an optimal cost.

REF	Ø	Axis	Z	Type of grain
53220180N	180	22,2	11/11	30/40

#### MULTI MATERIAL



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



#### ANGULAR VACUUM CROWN

**Characteristics:** Multipurpose crown for marble, fiberglass, polyester, paint, concrete, porcelain tile, stoneware, etc.

REF	Ø	Axis	Z	Type of grain
543D1115	115	22,2	-	40
543D1125	125	22,2	-	40
543D1180	180	22,2	-	40



## BLACK SERIES

**ABRASIVE MATERIAL**  
USE THE SURFACES WITH 10-20% SILICA.

#### OPTIMAL MATERIALS FOR SANDING

SILICEOUS CONCRETE, ASPHALT, GERO BRICK, SANDSTONE, REFRACTORY, FLOORING BLOCK, SILESTONE.

The BLACK SERIES range of diamond crowns uses metallic diamond segments with a hard bond to offer a high performance on the abrasive surfaces such as sandstone, concrete and its derivatives.

It's perfect for cleaning facades, sanding mortar, removing multi-layered pavements and other applications.

## SPECIFIC SERIES

**SPECIFIC MATERIAL**  
USE ON MULTIPLE SURFACES IT'S PERFECT FOR USE IN OTHER AREAS.



# PLATES AND SECTORS FOR PAVEMENTS

## SELECTION GUIDE

As manufacturers, we produce our tools according to:

- **Type of machine:** Different shapes for each brand or model of the machine.
- **Type of work:** Different types of segments to optimize work.
- **Type of material:** Alloys designed for each material to be treated, easily identifiable by color coding.
- **Grain size:** Different grain sizes depending on the finishing required.

Consult our sales team if you need another type of finish, grain or shape.

## SEGMENT TYPE

A wide range of segments designed depending on the work to be done.

### PK (Polycrystalline segment)

**PK1:** It removes 5 mm per pass leaving a mark.

**PK2:** It removes 3 mm per pass leaving a mark.

**PK3:** It removes 2mm per pass without leaving a mark.

### BRH (Special diamond segment paints/resins)

It removes paint and resin from the surfaces without abrasive action.

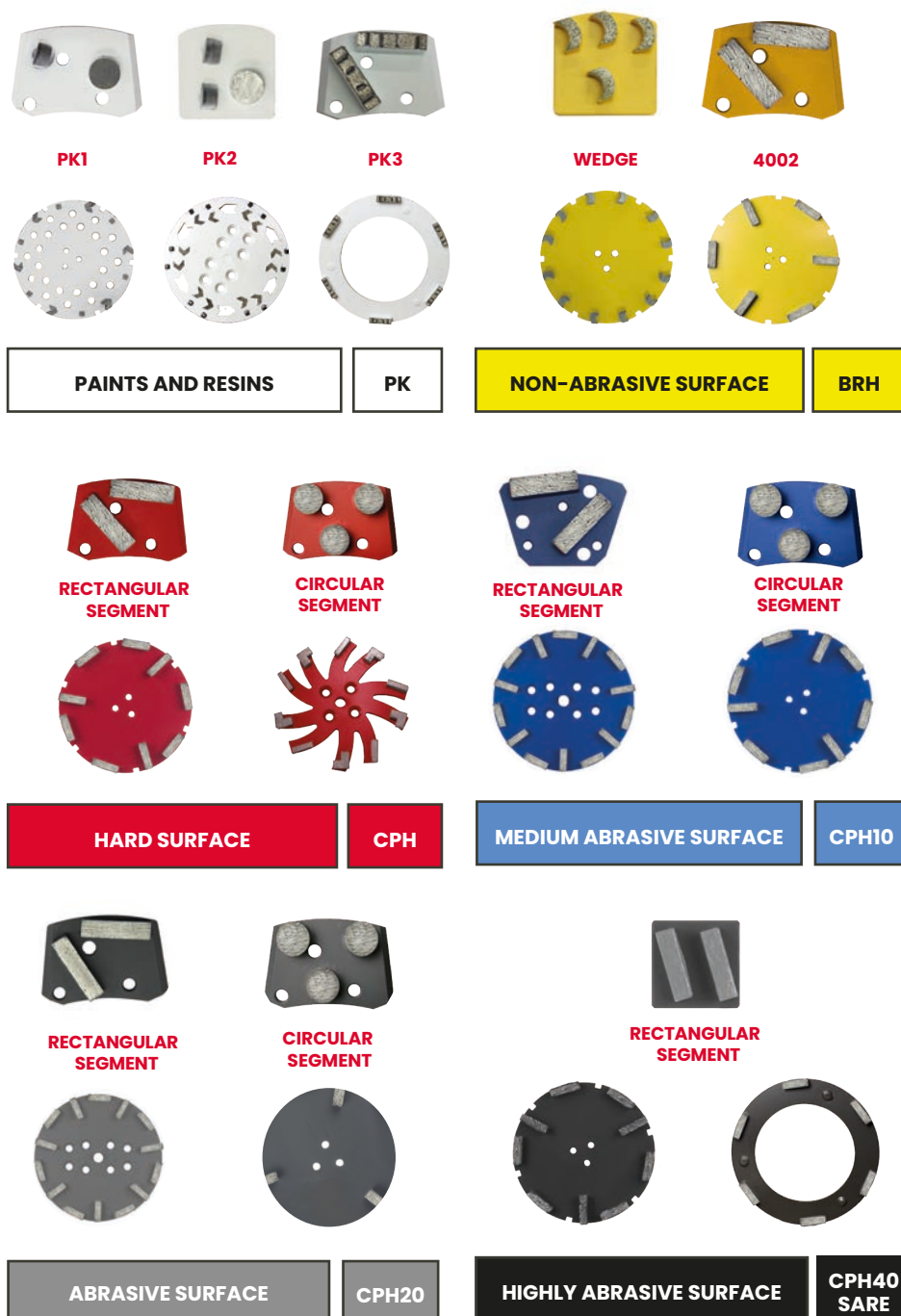
**4002:** Pore opening in H30 high-performance concrete.

### CPH, CPH10, CPH20, SARE (Diamond segment for treatments)

**RECTANGULAR:** For sanding and preparing all types of the pavements.

**CIRCULAR:** It minimize marks on surfaces. (Upon request).

## SURFACE TREATMENT TOOL RANGE







# PLATES

## TYPE OF ALLOYS

A WIDE RANGE OF ALLOYS DESIGNED TO TREAT DIFFERENT TYPES OF THE SURFACES, IDENTIFIED BY COLOR CODING

## PK

### RESINS OR EPOXY PAINT OF SURFACES

Polycrystalline segments are used for the rapid removal of paints and resins.

Types of segments:

PK1 / PK2 / PK3

## BRH

### NON-ABRASIVE SURFACES WITH 0% SILICA.

Well-fixed paints and resins, high strength limestone concrete, porcelain tile, granite.

Types of segments:

WEDGE / 4002

## CPH

### HARD SURFACES WITH A MAXIMUM OF 5% SILICA.

Paints and poorly fixed resins, limestone or milled concrete, terrazzo and granite.

SHAPE: RECTANGULAR, CIRCULAR (upon request)

## CPH10

### MEDIUM ABRASIVE SURFACES, FROM 5 TO 10% SILICA.

High hardness siliceous concrete, soft limestone concrete.

SHAPE: RECTANGULAR,

CIRCULAR (upon request)

## CPH20

### ABRASIVE PAVEMENTS WITH 10 TO 20% SILICA.

High hardness siliceous concrete and low hardness limestone concrete.

Types of segments:

SHAPE: RECTANGULAR, CIRCULAR (upon request)

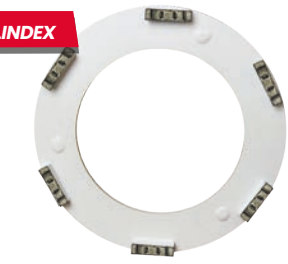
## CPH40

### VERY ABRASIVE SARE PAVEMENTS WITH 40% SILICA.

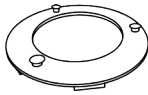
Multilayer paint, milled concrete, uncast concrete, slurry and asphalt.

SHAPE: RECTANGULAR

## KLINDEX



Front



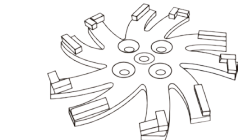
Reverse

## KLINDEX PLATE Ø240 (AVAILABLE IN Ø200)

**Characteristics:** Plate recommended for Klindex machines available with PK3, 4002, CPH, CPH10, CPH20 and CPH40 alloy type, with the configuration of 6 segments per plate (it's available in 9 or 12 segment configuration upon request in the special applications or heavier machines).

ALLOY	0	6/16	30/40	60/80	100/120
Pk	PK1				
	PK2				
	PK3	529K240P00			
BLH	CUÑA				
	4002		529K2336		
CPH		529K240I6	529K241I6	529K240A6	529K24056
CPH10		529K24106	529K24136	529K24146	529K24156
CPH20		529K242I6	529K24236	529K24246	529K24246
SARE			529K24S09		

## NINJA

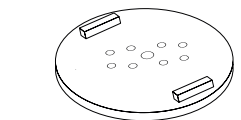
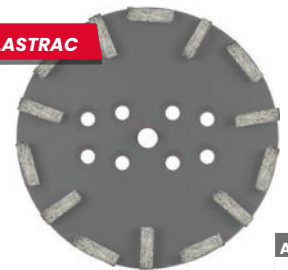


## NINJA PLATE Ø250

**Characteristics:** Plates for single-plate polishing machines, recommended for low-power machines (single-phase) or works where very powerful suction is necessary. Special for quick sanding.

ALLOY	0	6/16	30/40	60/80	100/120
Pk	PK1				
	PK2				
	PK3				
BLH	CUÑA				
	4002				
CPH			529B25152S		
CPH10					
CPH20		529B251520S0			
SARE					

## BLASTRAC

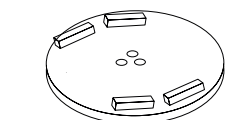


## BLASTRAC

**Characteristics:** A plate recommended for single-plate Blastrac machines or compatible machines. The best results are obtained with three-phase machines.

ALLOY	0	6/16	30/40	60/80	100/120
Pk	PK1				
	PK2	529B251520DSS			
	PK3	529B25152P			
BLH	CUÑA				
	4002		529B251520SS		
CPH		529B251520A1	529B251520F	529B251520A5	529B25151A7
CPH10		529B251520B1	529B251520B	529B251520B5	529B25151B7
CPH20		529B251520D1	529B251520D	529B251520D	529B25151D7
SARE			529B251520C		

## VIUDEZ PUERTA



## VIUDEZ PLATE Ø200 Z6 (Available Ø150 and Ø225)

**Characteristics:** Plates recommended for Viudez satellite type machines, available with 6 segments in CPH, CPH 10, CPH 20, CPH 40 alloys (it's available with 9 segments and special configurations upon request).

ALLOY	0	6/16	30/40	60/80	100/120
Pk	PK1	5299200952P2			
	PK2	52992008P31			
	PK3	5299200952P			
BLH	CUÑA				
	4002		529920092I		
CPH		5299200951A1	5299200952F	5299200951A5	5299200951A7
CPH10		5299200951B1	5299200951A	5299200951B5	5299200951B7
CPH20		5299200951D0	5299200951C	5299200951D5	5299200951D7
SARE			5299200950C		



## SECTORS

### GRAIN SIZE

We have 4 grain sizes depending on the polishing stage or finishing need. Contact us for other types.

### 6/16

#### ROUGH CUTTING. VERY LARGE GRAIN.

Recess and preparation of the pavement with a deep scratch.



### 30/40

#### SEMI-POLISHED. LARGE GRAIN

Preparation of surfaces after recessing. Scratched for resin application.



### 60/80

#### POLISHED. MEDIUM GRAIN

Preparation of surfaces after recessing. Scratched for resin application.



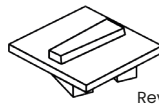
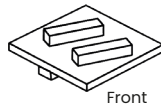
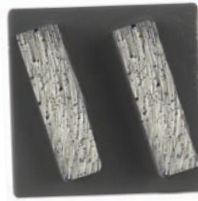
### 100/120

#### FINISHED. SMALL GRAIN

It leaves the matte surface without marks, it's perfect for applying varnish to the exposed concrete surfaces.



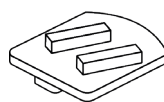
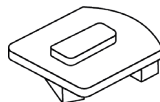
### SCANMASKIN - CONTEC ORBITER



Front

Reverse

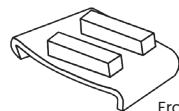
### HUSQVARNA



Front

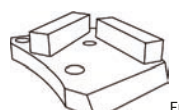
Reverse

### HTC



Front

### CONTEC



Front

### COLA MILANO (DOVETAIL) TYPE SCANMASKIN CONTEC ORBITER

**Characteristics:** Sector adaptable to all Scanmaskin machines and Contec machines from the Orbiter series.

GRAIN	0	6/16	30/40	60/80	100/120
Pk	PK1	51245P11			
	PK2	51245P31			
	PK3	-			
BLH	CUÑA	-			
	4002		51245250		
CPH		51245211	51245213	51245214	51245215
CPH10		51245221	51245223	51245224	51245225
CPH20		51245231	51245233	51245234	-
SARE		-	51245270	-	-

### COLA MILANO (DOVETAIL) TYPE HUSQVARNA SECTOR

**Characteristics:** Sector adaptable to Husqvarna machines with a dovetail. We have 2 series: silver (intended for the renter) and high-performance gold (intended for the professional).

GRAIN	0	6/16	30/40	60/80	100/120
Pk	PK1	51246P11			
	PK2	51246P31			
	PK3	-			
BLH	CUÑA	-			
	4002		51246250		
CPH		51246211	51246213	51246214	-
CPH10		51246221	51246223	51246224	-
CPH20		51246231	51246233	51246234	-
SARE			51246270		

### U TYPE HTC SECTOR

**Characteristics:** We manufacture sectors adaptable to HTC650 machines with two cutting directions.

GRAIN	0	6/16	30/40	60/80	100/120
Pk	PK1	51242P11			
	PK2	51242P31			
	PK3	-			
BLH	CUÑA	-			
	4002		51242250		
CPH		51242211	51242213	51242214	51242215
CPH10		51242221	51242223	51242224	51242225
CPH20		51242231	51242233	51242234	-
SARE		-	51242270	-	-

### CONTEC SECTOR

**Characteristics:** Sector that adapts to the Contec, Omega, Alpha and CON series, Double quick fixing sector, with a dovetail + magnet.

GRAIN	0	6/16	30/40	60/80	100/120
Pk	PK1	51248P11			
	PK2	51248P31			
	PK3	5128P00			
BLH	CUÑA	-			
	4002		51248250		
CPH		51248211	51248213	51248214	-
CPH10		51248221	51248223	51248224	-
CPH20		51248231	51248233	51248234	-
SARE			51248270		



## BLASTRAC



Front

## BLASTRAC ALA SECTOR

**Characteristics:** Quick fixing sector using a magnet, it is fitted into the counter plate and with 3 drive holes.

GRAIN	0	6/16	30/40	60/80	100/120
Pk	PK1	51243P11			
	PK2	51243P31			
	PK3	-			
BLH	CUÑA	-			
	4002		51243250I		
CPH		51243211I	51243213I	51243214I	51243215I
CPH10		51243221I	51243223I	51243224I	51243225I
CPH20		51243231I	51243233I	51243234I	-
SARE			51243270I		

## STANDARD MACHINE



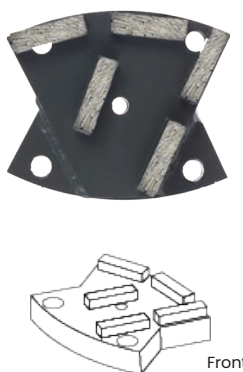
Front

## UNIVERSAL AI SECTOR

**Characteristics:** Sector intended for use in the imported machines, in which the diamond sectors are fixed with a magnet + 3 drive halls.

GRAIN	0	6/16	30/40	60/80	100/120
Pk	PK1	51244P11			
	PK2	51244P31D			
	PK3	51244P00			
BLH	CUÑA	-			
	4002		51244250		
CPH		5124421I	51244213	51244214	51244215
CPH10		51244221	51244223	51244224	51244225
CPH20		51244231	51244233	51244234	-
SARE			51244270		

## BORDA



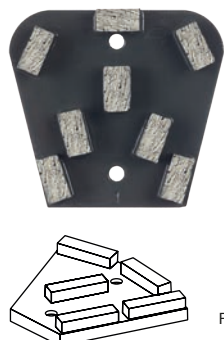
Front

## JB 72 BORDA SECTOR

**Characteristics:** Sector for use in a single plate mod JB 72 machine, it operates with 3 sectors fastened by screws.

GRAIN	0	6/16	30/40	60/80	100/120
Pk	PK1	51249P11			
	PK2	51249P31D			
	PK3	51249P00			
BLH	CUÑA	-			
	4002		51249250		
CPH		5124921I	51249213	51249214	51249215
CPH10		51249221	51249223	51249224	51249225
CPH20		51249231	51249233	51249234	
SARE			51249270		

## UNIVERSAL SINGLE PLATE MACHINES



Front

## KIDNEY-SHAPED SECTOR

**Characteristics:** Universal kidney-shaped sector for use in the traditional polishing machine, it fits all models and has the drills to attach to Viudez Puerta.

GRAIN	0	6/16	30/40	60/80	100/120
Pk	PK1	51247P11			
	PK2	51247P31D			
	PK3	51247P00			
BLH	CUÑA	-			
	4002		51247250		
CPH		5124721I	51247213	51247214	51247215
CPH10		51247221	51247223	51247224	51247225
CPH20		51247231	51247233	51247234	-
SARE			51247270		



# SECTORS

## TYPE OF ALLOYS

A WIDE RANGE OF ALLOYS DESIGNED TO TREAT DIFFERENT TYPES OF THE SURFACES, IDENTIFIED BY COLOR CODING

## PK

### RESINS OR EPOXY PAINT OF SURFACES

Polycrystalline segments are used for the rapid removal of paints and resins.

**Types of segments:**  
**PK1 / PK2 / PK3**

## BRH

### NON-ABRASIVE SURFACES WITH 0% SILICA.

Well-fixed paints and resins, high strength limestone concrete, porcelain tile, granite.

**Types of segments:**  
**WEDGE / 4002**

## CPH

### HARD SURFACES WITH A MAXIMUM OF 5% SILICA.

Paints and poorly fixed resins, limestone or milled concrete, terrazzo and granite.

**SHAPE: RECTANGULAR, CIRCULAR (upon request)**

## CPH10

### MEDIUM ABRASIVE SURFACES, FROM 5 TO 10% SILICA.

High hardness siliceous concrete, soft limestone concrete.

**SHAPE: RECTANGULAR, CIRCULAR (upon request)**

## CPH20

### ABRASIVE PAVEMENTS WITH 10 TO 20% SILICA.

High hardness siliceous concrete and low hardness limestone concrete.

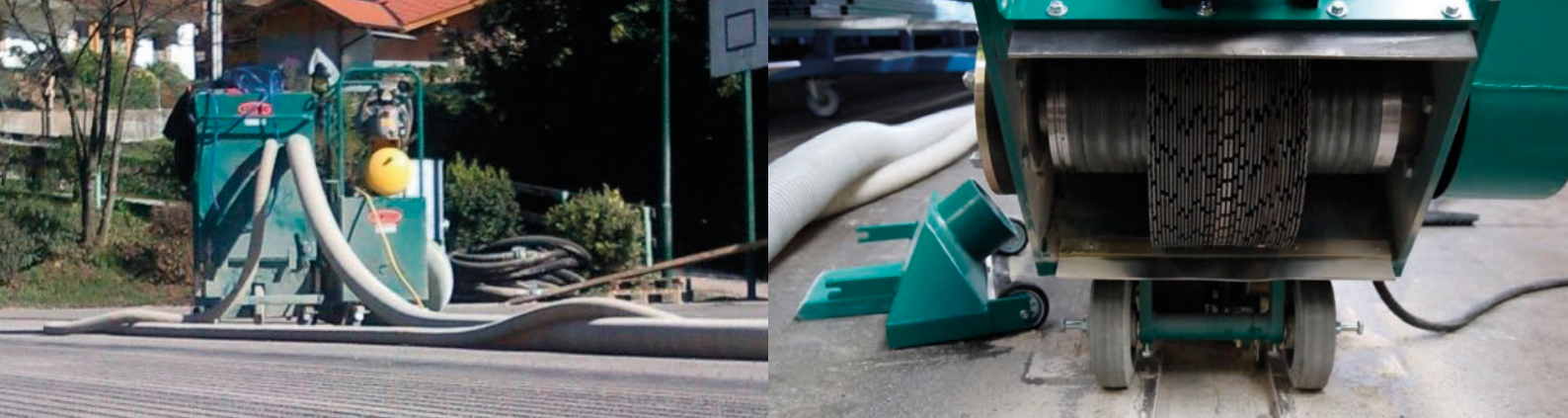
**Types of segments:**  
**SHAPE: RECTANGULAR, CIRCULAR (upon request)**

## CPH40

### VERY ABRASIVE SARE PAVEMENTS WITH 40% SILICA.

Multilayer paint, milled concrete, uncast concrete, slurry and asphalt.

**SHAPE: RECTANGULAR**



## ROLLER DISCS

**SOLGA DIAMANT** has a professional range for the grooving sector, offering standard and customized versions. Our factory offers personalized advice to offer the best solution for each project, grooving in airports, animal farms, pedestrian areas, radial heating systems, floor recessing, remodeling of taxiways and special projects.

Custom manufacturing that adapts to your needs and guarantees the highest productivity, speed, performance and finishing; tell us about your project, and we will manufacture the tool you need.

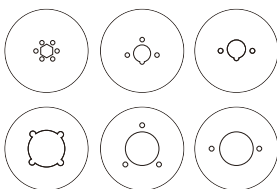
## STEP BY STEP ROLLER SELECTION

To select the right roller for your work, it is necessary to define the following steps:

### STEP 1.

#### MACHINE TYPE / AXIS

Select the metal supports that adapt to the axis of each machine..



### STEP 2.

#### SELECTION OF DISK TYPE

Select an appropriate alloy within our standard range (possibility of special manufacturing adapted to your work).



### STEP 3.

#### TYPES OF WORKS

Depending on the type of work, define the number of disks and segment width.



## GASOLINE AND ELECTRIC MOTOR MACHINES



### TYPES OF MACHINES

**Characteristics:** We have different types of milling machines to cover any market need.

Gasoline engine for outdoor work, electric motor for indoor work. Models with different powers adapted to the widths and depths of the grooves.

Please consult our sales team for more information on available models.



## METAL BODIES DEPENDING ON THE AXIS/MACHINE



RELLOK



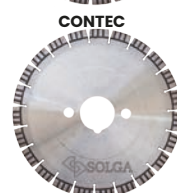
DIAMOND PROD



OTHERS



BLASTTRACK



CONTEC



COLAN



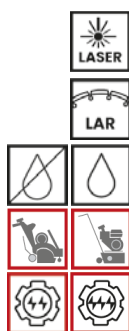
## STEP 1. TYPE OF AXIS/MACHINE

We have a wide range of metal bodies that fit the different types of machines that are available on the market. Possibility of making special metal bodies according to the plans.



SPECIAL ROAD CALIBRATION

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



### SMOOTH SEG. LAR DISC LASER

**Characteristics:** LAR notch offers the disc performance, durability and high resistance. Laser welding for more safety when using.

**Application:** Grinding and calibrating of concrete roads.

REF	Ø	Width	Height	Axis	Hole	Nºseg.
13_03230T	230	2,6	8,0	90	3	19

References may vary depending on the application.

## STEP 2. TYPES OF DISK

Color coding according to the material to be treated, for later adaptation to the required diamond tool.

### WHITE SERIES RESIN REMOVAL/ PAINT + CONCRETE

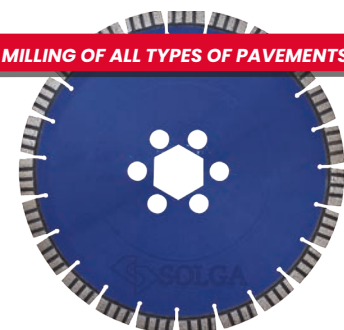
### YELLOW SERIES EXTRA HARD PAVEMENTS CONCRETE AND NATURAL STONE, TERRAZO, CERAMIC, PORCELAIN TILE.

### RED SERIES HARD PAVEMENTS LIME-BASED FLOATED CONCRETE.

### BLUE SERIES MEDIUM ABRASIVE SURFACES TREATMENT OF ALL CONCRETE TYPES.

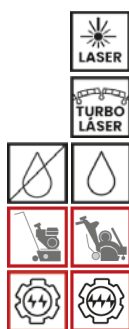
### GREY SERIES ABRASIVE SURFACES FOR SILICEOUS-BASED CONCRETE AND ABRASIVES.

### BLACK SERIES EXTRA SURFACES ABRASIVES AND ASPHALT.



MILLING OF ALL TYPES OF PAVEMENTS

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



### TURBO SEG. LAR DISC LASER

**Characteristics:** LAR notch and turbo-laser segment offer performance, durability, good quality of cutting and speed. Laser welding for more safety when using.

**Application:** Grinding and calibrating of all types of pavements.

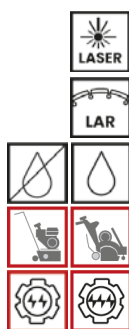
REF	Ø	Width	Height	Axis	Hole	Nºseg.
13_66255G	255	2,3	10,0	Hex	6	17

References may vary depending on the application.



HIGH POWER MILLING AND GROOVING MACHINES

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



### SMOOTH SEGMENT AL-1 DISK

**Characteristics:** Specific format for fast milling. Laser welding for more safety when using.

**Application:** Grinding and calibration of abrasive concrete.

REF	Ø	Width	Height	Axis	Hole	Nºseg.
13_66255G	300	2,6	10,0	60	2	20

References may vary depending on the application.



## STEP 3. TYPES OF WORKS

### 3. TYPE OF WORKS

We prepare the necessary number for the drum equipment.

#### APPLICATIONS:

##### ROADS | PAVEMENTS | FARMS

Selection of the number of discs with its corresponding axes depends on the needs according to the work to be done. At Solga Diamant, we are in charge of covering all possible solutions for different sectors:

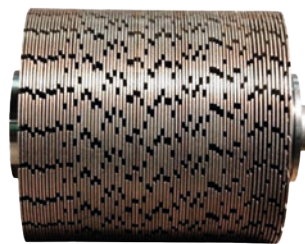
##### ROADS AND AIRPORTS

- Road leveling.
- Road striping.
- Grooved to avoid aquaplaning.

##### LIVESTOCK RAISING

- Different grooves.

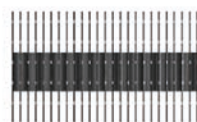
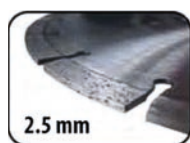
Please consult our sales team to provide you with any type of information.



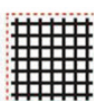
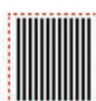
#### DIAMOND DISC DRUMS

Drum systems that use the diamond discs allow multiple configurations through the use of spacers of different thickness, providing all types of grooving patterns that allow the execution of grooving or milling works such as repair of joints, removal of concrete, asphalt, epoxy coatings up to 50 mm deep, removal of road striping, execution of all types of anti-slip surfaces in the pedestrian areas, animal farms, in rolling areas such as roads or landing strips. As manufacturers of the diamond tools, we provide solutions depending on the work to be done, adapting discs to the machine used (power and fixing geometry), to the material to be treated (hard concrete, abrasive concrete, asphalt...), depending on the work to be done (recessing, grooving, calibrating, special works) and customer requirements (performance, cutting speed).

#### EXAMPLES OF DISC DISTRIBUTION FOR DRUMS



#### EXAMPLES OF LIVESTOCK SECTOR GROOVE PATTERNS



In-line cutting

Superdense longitudinal notches

Rhombus cut

Square cut

Herringbone cutting

Longitudinal milling


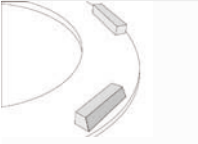

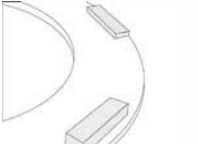
Grid milling




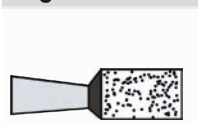
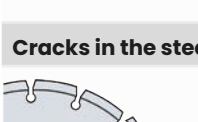
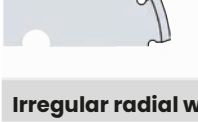
# PROBLEM SOLUTION

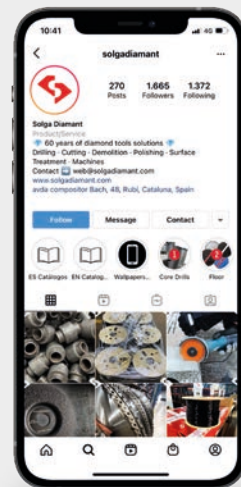
**SOLGA Diamant** has solutions at its disposal, based on a series of possible problems that any operator may encounter when working.

## PLATES AND SECTORS

What we observe	Possible cause	Solution
<b>Rapid segment wear</b>		
	<ul style="list-style-type: none"> <li>Type of a plate or sector is not suitable.</li> <li>Poor cooling or very low speed.</li> </ul>	<ul style="list-style-type: none"> <li>Change the type and quality of a plate or sector.</li> <li>Increase the suction/cooling and increase an operational speed.</li> </ul>
<b>Side segment wear</b>		
	<ul style="list-style-type: none"> <li>A tool was installed improperly It vibrates.</li> <li>Lack of power.</li> <li>Plate area is dirty or incorrectly positioned.</li> </ul>	<ul style="list-style-type: none"> <li>Check that the tool axis and machine axis match.</li> <li>Change a plate model for another specific one with low power.</li> </ul>
<b>Darkened segments</b>		
	<ul style="list-style-type: none"> <li>Type of a plate or sector is not suitable.</li> <li>Poor cooling or very high speed.</li> </ul>	<ul style="list-style-type: none"> <li>Change the type and quality of a plate or sector.</li> <li>Increase the suction/cooling and reduce an operational speed.</li> </ul>
<b>Irregular radial wear</b>		
	<ul style="list-style-type: none"> <li>Damaged machine axis.</li> <li>Vibration. The tool does not work while settled.</li> <li>Mix of different hardnesses or grain sizes.</li> </ul>	<ul style="list-style-type: none"> <li>Check the machine axis.</li> <li>Check that a plate is not unbalanced.</li> <li>Unify the same quality and granulometry of a sector or plate.</li> </ul>

## ROLLER DISCS

<b>Cracks in the steel body</b>		
	<ul style="list-style-type: none"> <li>Type of a disc is not suitable.</li> <li>Poor cooling.</li> <li>Disc or drum shafts are not adjusted.</li> </ul>	<ul style="list-style-type: none"> <li>Change a type.</li> <li>Increase the suction/cooling.</li> <li>Check axes.</li> </ul>
<b>Segment base wear</b>		
	<ul style="list-style-type: none"> <li>Very abrasive material.</li> <li>Unsuitable disk.</li> <li>Great cutting depth and poor cooling.</li> </ul>	<ul style="list-style-type: none"> <li>Select an appropriate disc for matt abrasives.</li> <li>Increase the suction/cooling.</li> <li>Change the disk type and quality.</li> </ul>
<b>Cracks in the steel body</b>		
	<ul style="list-style-type: none"> <li>Very uneven ground and bulk material.</li> <li>Impact or snagging on a rod or metal.</li> <li>Crystallization of segments due to overheating.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the working area of the bulk material.</li> <li>Remove an armor or metal, or verify that it is well secured.</li> <li>Change the disk type and quality.</li> </ul>
<b>Irregular radial wear</b>		
	<ul style="list-style-type: none"> <li>A drum on the machine is not adjusted towards the ground.</li> <li>Unsuitable disc axis.</li> <li>Damaged machine axis.</li> </ul>	<ul style="list-style-type: none"> <li>Adjust a drum.</li> <li>Check the disc axis.</li> <li>Check the machine axis.</li> </ul>



Please consult our full range of the diamond tools at our website or contact us for more information about our products and services.



# 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**



**FACTORY / ADMINISTRATION**  
Solga Diamant, S.L.  
Avda. del Compositor Bizet, 49  
08191 Rubí - Barcelona - Spain  
Tel: +34 (93)-588 46 26  
info@solgadiamant.com

**FACTORY / COMMERCIAL SERVICES**  
Solga, S.L.  
Avda. del Compositor Bach, 48  
08191 Rubí - Barcelona - Spain  
Tel: +34 (93)-588 46 26  
comercial@solgadiamant.com

**WAREHOUSE / COMMERCIAL SERVICES MEXICO**  
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**