

SOLGA DIAMANT was founded in 1958 taking position in the market as a leader company in research and development in all kind of diamond tools.

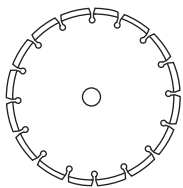
The manufacturing process is planned and controlled with detail, using the latest technology in the sector.

SOLGA researchs and develops day by day offering the best products in terms of quality and performance. Furthermore, we use the best raw materials in the market in all our products. We have one of the most advanced technology factory in Europe and a very modern laboratory.

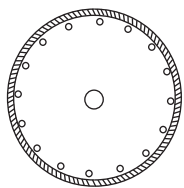
All products are made with an exhaustive quality in all processes. As a result of this continuous improvement we offer a great service in more than 50 countries with a big commercial network.

Its specialist technicians provides the best advices and knowledge about the products to work in the best way. The trust and support received from our customers around the world encourage us to continue working in this way.

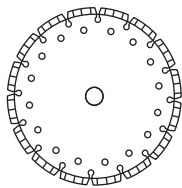
## Dry Cutting Blades Blade Geometry



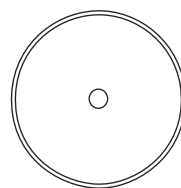
Laser



Turbo



Turbo Laser



Continuous band



Red  
Hard Materials



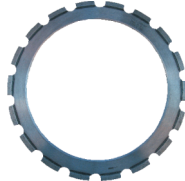
Blue  
General purpose blades



Black  
Abrasives materials



Master Blade  
Hard Materials



Ring Saw  
Hard Materials



Rescue Blade  
Materials of high difficulty

## Dry Cutting Universal Purpose

**BASIC LINE LASER**



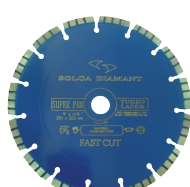
*laser turbo*

**PROFESSIONAL**



*laser turbo*

**SUPER PRO**



*turbo-laser*

**RING SAW**



*ring*

**MASTER**



*laser*

**SUPER PRO**



*laser*

*turbo*

**MORTAR RAKING FOR GROOVING**



*construction*

**CURVED BLADE**



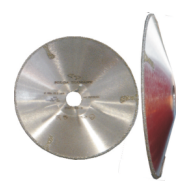
*segmented*

**CURVED BLADE**



*turbo*

**CURVED BLADE**



*electroplated*

## Dry Cutting Hard Materials

**PROFESSIONAL**



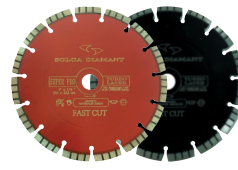
Laser Turbo

**SUPER PRO**



Laser Turbo

**SUPER PRO TURBO LASER**



Laser Turbo

**GRES/HARD CERAMICS**



Turbo extra-fine

## Abrasive Materials

**PROFESSIONAL**



Laser Turbo

**SUPER PRO**



Laser Turbo

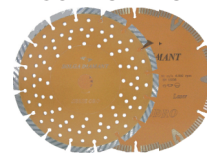
## Specific Applications

**Rescu Bladee**



Vacuum Brazed

**Multipurpose GOLD SERIES**



Laser Turbo

**Marble ELECTROPLATED**



Segmented

## Wet Cutting Range of Blades

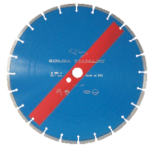
**Orange** Different construction Materials



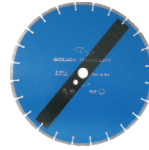
**Blue** Alternative application for hard & abrasive materials



**Blue with Red Band** Hard Materials



**Blue blade with black stripe** Abrasive materials



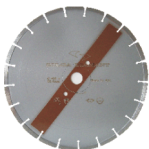
**Green** Soft ceramics



**Red** Hard ceramics



**Brown stripe** Terrazzo



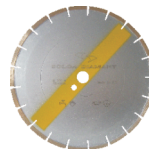
**Grey stripe** Refractory



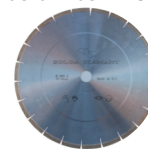
**Red stripe** Granite



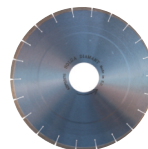
**Yellow stripe** Marble



**Silver** Stoneware/hard ceramics LACC



**Silver** Glass



## Universal Purpose

**BASIC LINE**



Universal-Purpose In Construction

**STANDARD**



Universal-Purpose In Construction

**PREMIUM**



Hard Materials

**PREMIUM**



Abrasive Materials

## Specific Applications

**TILES**



Continuous Band

**HARD CERAMICS**



Continuous Band

## Specific Applications

**TERRAZZO**



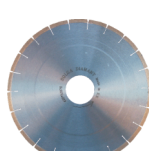
**REFRACTORY**



**STONEWARE/HARD CERAMIC**



**GLASS**



**MARBLE**



**GRANITE**



## Expansion Joints Cutting Range of Blades

The speed of the machine must be adequate for the material to be cut. The blade diameter is another very important factor while cutting.

The choice of blade is dependant upon the material to be cut:



**Black red band**  
Blade designed for cutting cured concretes



**Black**  
Blade designed for cutting extremely abrasive asphalts



**Black white band**  
Blade designed for cutting asphalt



**Black green band**  
Blade designed for cutting fresh concrete



BLZ. Sloped notch

## Floor Saw Machines

### Technical specifications

	MJD 400	MJD 500	MJD 600
Engine	Brand	HONDA	HONDA
	Model	GX 390	GX 390
	Power	13 HP	13 HP
			20 HP
Maximum blade diameter (mm)	400	500	600
Maximum cutting depth (mm)	145	175	200
Starting	Manual	Manual	Electric
Dimensions (mm)	720x490x1070	1030x580x920	1200x750x1030
Weight (Kg)	103	135	250
Gasoline Engine			

## Bench Saw Tile Cutter Machines



### Technical specifications

Saw blade capacity	350 mm
Power	3 HP
Amperage	13.6 A
Motor speed	2800 rpm
Voltage	1 x 230 V
Lenght of cut	600 mm
Depth of cut	90° = 105 – 210* m
	45° = 105 – 210* mm
Weight	Kg 67
Overload switch	Incorporated
Water Tank	38 liters
Power of the pump	55 W 230 V
<b>Dimensions</b>	
Lenght	1130 mm
Width	570 mm
Height	540 mm

\* By reversing material

# Drilling with Diamond Core Cutting Machines



## SOLGA SDM 09 (Dry + Wet)

Description		
Power input (W)	1800	
Power output (W)	1200	
Speed (rpm)	1st gear 540	2nd gear 1700
Recommended diameters (mm)	Concrete (rig operated) Ø 30 - 150 Concrete (handheld) Ø 30 - 80 Masonry (handheld) Ø 30 - 200	
Total length (mm)	485	
Weight (kg)	5,2	
Connection (")	1/2" GAS - 1" 1/4 UNC	



Engine SDM 32

## SOLGA SDM 32

Description			
Voltage (V)	230		
Amperage (A)	15		
Power input (W)	3200		
Power output (W)	2300		
Frequency (Hz)	50-60		
Speed (rpm)	1st gear 430	2nd gear 860	3rd gear 1300
Recommended diameters (mm)	1st gear Ø 92-162 Ø 162-225	2nd gear Ø 48-82 Ø 82-112	3rd gear Ø 32-52 Ø 52-72
N.m	1st gear 45	2nd gear 23	3rd gear 23
Drill bit diameter (mm)	32-225		
Weight (kg)	11,9		
Connection (")	1" 1/4 UNC		

## SOLGA SDM 37/25

Description			
Voltage (V)	230		
Amperage (A)	16		
Power input (W)	3700		
Power output (W)	2700		
Frequency (Hz)	50-60		
Speed (1/min)	1st gear 230	2nd gear 280	3rd gear 340
Concrete (mm)	Ø 200-350 Ø 170-300 Ø 140-250		
Water volume approx. (l/min)	1,7 - 2,2	1,6 - 2,1	1,5 - 1,9
Concrete (mm)	4th gear 410	5th gear 490	6th gear 570
Water volume approx. (l/min)	1,4 - 1,9	1,3 - 1,6	1 - 1,6
Drilling Ø in concrete approx. (mm)	70 - 350		
Weight (Kg)	14,7		
Connection	1" 1/4 UNC		



Engine SDM 37/25



Engine SDM 37

## SOLGA SDM 37

Description			
Voltage (V)	230		
Amperage (A)	16		
Power input (W)	3700		
Power output (W)	2700		
Frequency (Hz)	50-60		
1st speed (rpm)	1st gear 150	2nd gear 300	3rd gear 470
Hard concrete/cured Abrasive concrete	Ø 252-502 Ø 352-602	Ø 122-225 Ø 225-322	Ø 82-142 Ø 142-202
2nd speed (rpm)	1st gear 200	2nd gear 350	3rd gear 610
Hard concrete/cured Abrasive concrete	Ø 192-352 Ø 352-502	Ø 102-172 Ø 172-252	Ø 62-112 Ø 112-152
3rd speed (rpm)	1st gear 240	2nd gear 470	3rd gear 730
Hard concrete/cured Abrasive concrete	Ø 162-282 Ø 282-402	Ø 82-142 Ø 142-202	Ø 52-92 Ø 92-132
Weight (kg)	16		
Connection (")	1" 1/4 UNC		

## SOLGA SDM 52

Description			
Voltage (V)	400		
Amperage (A)	9,5		
Power input (W)	5200		
Power output (W)	4000		
Frequency (Hz)	50-60		
Speed (rpm)	1st gear 120	2nd gear 240	3rd gear 360
Recommended diameters (mm)	1st gear Ø 320-502 Ø 502-900	2nd gear Ø 162-282 Ø 282-402	3rd gear Ø 112-152 Ø 152-262
N.m	1st gear 318	2nd gear 159	3rd gear 106
Drill bit diameter (mm)	110-500		
Weight (kg)	22,9		
Connection (")	1" 1/4 UNC		



Engine SDM 52

## SOLGA SDM 75L/65

Description			
Voltage (V)	400 3"		
Amperage (A)	15		
Power input (W)	7500		
Power output (W)	5700		
Frequency (Hz)	50-60		
Speed (1/min)	1st gear 140	2nd gear 175	3rd gear 205
Concrete (mm)	Ø 330-500 Ø 270-440 Ø 230-370		
Water volume approx. (l/min)	2,2 - 2,7	2 - 2,5	1,8 - 2,3
Concrete (mm)	4th gear 240	5th gear 270	6th gear 305
Water volume approx. (l/min)	1,7 - 2,1	1,6 - 2	1,3 - 1,9
Drilling Ø in concrete approx. (mm)	125 - 500		
Weight (Kg)	18,3		
Connection	1" 1/4 UNC		



Engine SDM 75L/65

## Rigs

### SOLGA SDR 150/220

Description	
Maximum drill diameter (mm)	150/220
Total height (mm)	1050
Size of standard base plate (mm)	240 x 340
Total useful stroke (drill motor dependent) (mm)	500
Weight (kg)	10



SDR 150

SDR 220



SDR 450

### SOLGA SDR 450

Description	
Maximum drill diameter (mm)	450
Total height (mm)	1050
Size of standard base plate (mm)	260 x 460
Total useful stroke (drill motor dependent) (mm)	600
Weight (kg)	23

### SOLGA SDR 600

Description	
Maximum drill diameter (mm)	600
Total height (mm)	1118
Size of standard base plate (mm)	300 x 560
Total useful stroke (drill motor dependent) (mm)	600
Weight (kg)	26
















SDR 600










SDR 900

### SOLGA SDR 900



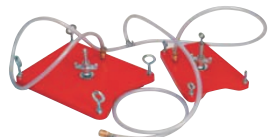

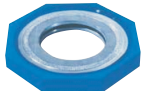

Description	
Maximum drill diameter (mm)	900
Total height (mm)	1160
Size of standard base plate (mm)	256 x 435
Total useful stroke (drill motor dependent) (mm)	900
Weight (kg)	24

<b>Type of connection</b>		<b>Type of segments</b>		<b>Segments for drill bits</b>			
							
Connection 1/2" GAS	Connection 1" 1/4 UNC	Segmented	Ring				
<b>Core breaker GRANITE</b>		<b>Core breaker MARBLE</b>		<b>Core breaker SPECIAL KITCHEN TOPS</b>		<b>ROUGHING CUTTERS</b>	
							
ring	segmented	electroplated	vacuum brazed	segmented	electroplated	segmented	electroplated

## Small profiling wheels

				<b>Cylindrica with radius</b> 	<b>Cone needle</b> 	<b>Air Grinder</b> 	
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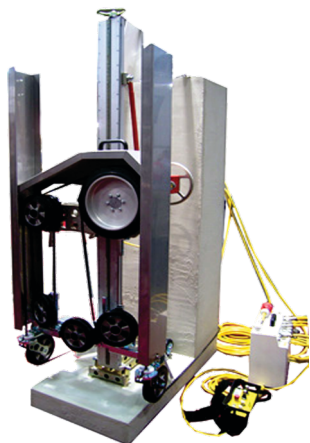
## Accessories

		
Water Pump	Vacuum pump	Vacuum plates
		
Water collector	Quick Release Ring	Fast Fixing System

## Electric Wire Saw.

Wire saw kit with an electrical high frequency motor 20 Kw. Includes 2 additional motors synchronized. Speed of cutting regulated by an electronic power box depending on the amperage taken on every cut. 3 mechanical speeds controlled electrically. High frequency technology allows us to achieve the best results with small dimensions and low weight. The pulleys of the machine can be extended and turned 180°.

- Wire saw rig includes a diagonal support to avoid vibrations when cutting.



**Technical Data**  
 Electric motor  
 Power  
 Current  
 Voltage  
 Blade drive  
 rpm  
 3 transmission speeds

Length of cables  
**Weight Data**  
 Wire saw without motor  
 Power Box  
 Remote control  
 Connection cables (3 units)  
 Blade guard  
 Rails (1000 m)  
 Rails (2000 m)  
 Motor + Gear  
 Pulleys set

Water cooled  
 20 Kw  
 40 A  
 380 V  
 Stepless 0 – 953

1st gear 986 rpm  
 2nd gear 1443 rpm  
 3rd gear 1787 rpm  
 8 m