

# **DOL SHING TECHN LOGY**

GEOMETRIC POLISHING



# CONTACTS



*POLISHING TECHNOLOGY®*

Located in Gaillard, LAM PLAN specializes in industrial lapping and polishing solutions.

For 60 years, LAM PLAN teams have been designing and providing equipment and preparations guaranteeing its customers performance, quality and productivity.



## SDS

Safety data sheets

Download all the safety data sheets in PDF format LAM PLAN according to the REACH and CLP regulations: (Classification Labelling Packaging).



[www.fdsen.lamplan.com](http://www.fdsen.lamplan.com)

## CATALOGS

The 4 catalogues in English

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[www.caten.lamplan.com](http://www.caten.lamplan.com)

## MANUALS

Instructions for use

Download in PDF format the operating instructions and manuals of the different LAM PLAN machines and products.



[www.manen.lamplan.com](http://www.manen.lamplan.com)



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## VIDEOS

Machine and product films

Watch the videos of our different machines by scanning the QRcode located on the «machine» pages of this catalog using your smartphone and find all of our videos.



[www.viden.lamplan.com](http://www.viden.lamplan.com)

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# 55 YEARS OF PASSION

FOR INNOVATION  
DEDICATED TO OUR CUSTOMERS



LAM PLAN S.A. was awarded the TALENT INPI trophy  
by the National Institute of Industrial Property.

This distinction is awarded to SME-SMI companies  
that innovate and include industrial property  
in their development strategy and growth plans.



# TABLE OF CONTENTS

## EQUIPMENT

MICROMOTORS	Upgradeable micromotor controllers M.M. 880, M.M.885 and M.M.886	6-7
	Diaphragm compressor	7
	Rotary micromotors	8
	Alternating micromotors	9
	Replacement carbon brushes for micromotors	9
	Jaws for micromotors	10
	Ultrasonic micromotor	10
	Jaws for ultrasonic micromotor	10
	Turbomotors	11
	Maintenance and repairs	11

## TOOLS

TOOLS	Disc and rectangular holders, self-adhesive abrasive and polishing discs	12
	Self-adhesive polishing squares series 400 and 4400	13
	CAMEO® Platinum prepolishing discs	13
	Diamond grinding points 6800 and 7400	14-15
	Abrasive caps	15
	Pink corundum, ruby sapphire and silicon carbide grinding points	16-17
	Carbide end mills	18
	Rotary polishing felts	19
	Wooden rotary accessories	20
	Diamond files and kit	21
	Specific diamond files	21
	Rubberised abrasive grinders	22-23
	Felt polishing rings, discs and pads	24
	Felt lapping rods	25
	Polishing grinding brushes and jet brushes	26
	Abrasive finishing grinders	27
	Wooden lapping rods	27
	Rectangular rubber rods	27
	Ceramic brushes and stones	28-29
	Sulphur stones 570	29
	Graphite stones 560	29
	Abrasive stones 510, 520 and 530	30-31
	DEGUSSIT® stones	31
	Honing oil	31
	Stone-holders	31
	Abrasive stone kits N° 1, N° 2 and N° 4	32

## CONSUMABLES

DIAMANT ABRASIVES	Bio DIAMANT® Pulmatic liquids series 310 and 320P	33
	Bio DIAMANT® Gels series M.M.530, 540 and 30/40	34
	Bio DIAMANT® Pastes series 210, 100, 205S, Polilam MS and Diatool® BX	35-37
	Selection of a BIO DIAMANT® abrasive paste	38
LUBRICATING FLUIDS	Lubricating fluids series M.M.705 and M.M.712	39
	General terms and conditions of sales	40

# EQUIPMENT

## MICROMOTORS



## Upgradeable micromotor controllers

### M.M.880 CONTROLLER for micromotors with foot pedal regulator

Powerful controller for micromotors, suitable for intensive use in all types of deburring and polishing tasks. The M.M.880 is equipped with 2 outputs, which can be used alternatively. Variable speed controlled manually or by the supplied foot pedal controller. Dual direction of rotation with automatic overload protection. A torque management function guarantees a constant speed of rotation of the polishing tool, regardless of the pressure applied by the operator. Quick stop of the rotation when switched off.

**Supplied accessories:** foot pedal regulator, 2 handpiece holders.

**Compatibility:** all micromotors, except M.M.886, ultrasonic head and turbo engines.

#### M.M.880 CONTROLLER Data sheet

€

Type	for rotary and alternative engines	Voltage output	DC3-30 V (2 outputs)	731,70
Dimmer switch	manual on controller and pedal	Dimensions W x H x D	170 x 110 x 195 mm	
Direction of rotation	2	Weight	2,1 kg	
Voltage supply	AC 230 V - 50/60 Hz - 30 VA	Reference	10 88030 00	



### M.M.885 CONTROLLER for micromotors and ultrasound

Powerful controller for ultrasonic micromotors and handpieces, suitable for heavy duty use in all types of deburring and polishing tasks. An automatic feed system is incorporated to adjust the frequency to suit the ultrasonic tool being used. Variable speed for the micromotors, controlled manually or by foot pedal controller (optional). Dual direction of rotation with automatic overload protection. A torque management function guarantees a constant rotation speed of the polishing tool, regardless of the pressure applied by the operator. Quick stop of the rotation when switched off.

**Accessories supplied:** 2 handpiece holders.

**Compatibility:** all micromotors and ultrasonics except M.M.886 and turbo engines.

#### M.M.885 CONTROLLER Data sheet

€

Type	for rotary, alternative and ultrasonic engines	Voltage output	DC3-30 V 0,3 A - Ultrasonic AC 6-60 V 22,6 KHz	1989,40
Dimmer switch	manual on controller and pedal (in option)	Dimensions W x H x D	170 x 110 x 195 mm	
Direction of rotation	2	Weight	2,6 kg	
Voltage supply	AC 230 V - 50 Hz - 30 VA	Reference	10 88530 00	

## FOOT PEDAL REGULATOR FOR M.M.880 AND 885

In combination with the M.M.880 and M.M.885 controllers, the pedal regulator provides on/off and foot speed control functions.



#### FOOT PEDAL REGULATOR Data sheet

€

Fonctions	Start/stop and dimmer	141,40
Dimensions W x H x D	90 x 75 x 190 mm	
Cable	L 1,85 m	
Weight	490 gr	
Reference	10 88034 00	

Our know-how in the design of diamond abrasives associated with a wide range of supports and toolings allows us to respond to all requests concerning the polishing of components with complex geometries.

## MICROMOTORS

## M.M.886 CONTROLLER AND MICROMOTOR PACKAGE

Complete set including 1 M.M.886 CONTROLLER and its compatible rotary MICROMOTOR. Variable speed controller with two directions of rotation and automatic protection in case of overload. A torque management function guarantees a constant speed of rotation of the polishing tool, regardless of the pressure applied by the operator.

**Supplied accessories:** spare fuse (UF-1A), other accessories see M.M.886 micromotor description.

**Compatibility:** M.M.886 micromotor only. Controller not compatible with foot pedal controller.



## M.M.886 CONTROLLER Data sheet

Type	for M.M.886 rotary engine	Voltage output	DC3-30 V - 0,2 à 0,4 A
Dimmer switch	3 000 to 20 000 tr/min.	Dimensions W x H x D	130 x 85 x 162 mm
Direction of rotation	2	Weight	1,5 kg
Voltage supply	AC 230 V - 50/60 Hz - 23 VA	Reference	10 88630 00

884,00

## MICROMOTOR (only) FOR M.M.886 CONTROLLER

Handpiece specific to the M.M.886 CONTROLLER, monobloc micromotor type with stainless steel body. Lightweight and well-balanced, its variable speed of rotation from 3000 to 20,000 rpm is suitable for all common deburring and polishing situations. Supplied with 3 interchangeable quick-clamping jaws compatible with all types of rotary tooling.

**Accessories supplied:** 1 support for micromotor, tools for changing jaws and maintenance, 1 set of replacement carbons, 3 jaws Ø 2.35 - 3.00 - 3.175 mm.

**Compatibility:** only with M.M.886 controller.



## M.M.886 MICROMOTOR Data sheet

Type	Rotary micromotor for M.M.886	Voltage output	DC3-30 V - 0,2 à 0,4 A
Speed	3 000 to 20 000 tr/min.	Dimensions	Ø max. 24 mm, L 128 mm
Torque	n.c.	Weight (without cable)	180 gr
		Reference	10 88630 20

779,00

## Diaphragm compressor

Diaphragm compressor for laboratories which are not equipped with a compressed air network. Silent operation.

Output	Pressure	Dim. W x H x D	Ref.	€
50 l/min	8 bar	330 x 500 x 330 mm	60 COM00 00	#

# Prix sur demande / Prices on request / Preise auf Anfrage / Prezzi su richiesta



## Rotary micromotors

### STRAIGHT RED ROTARY MICROMOTOR



Rotary motion handpiece with standard head. Lightweight and well balanced, its variable speed of rotation from 3000 to 30,000 rpm is suitable for deburring and polishing situations.

**Accessories supplied:** 1 support for micromotor, tools for changing jaws and maintenance, 1 set of replacement carbons and 2 interchangeable quick-clamping jaws compatible with all types of rotary tools Ø 2.35 - 3.00 mm.

**Compatibility:** M.M.880 and M.M.885 controllers

#### STRAIGHT RED ROTARY MICROMOTOR Data sheet

€

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 à 0,4 A	846,50
Speed	3 000 to 30 000 tr/min.	Dimensions	Ø max. 31,6 mm, L 170 mm	
Torque	6,5 Ncm	Weight (without cable)	295 gr	
Compatible jaws Ø	3,175 mm	Reference	10 88040 00	

### STRAIGHT RED ROTARY MICROMOTOR WITH REINFORCED HEAD



Rotary handpiece with reinforced head, modular micromotor type. For difficult milling operations with high vibration and pressure loads.

**Accessories supplied:** 1 micromotor support, tools for changing jaws and maintenance, 1 set of replacement carbons and 2 interchangeable quick-change jaws Ø 6.00 - 3.00 mm.

**Compatibility:** M.M.880 and M.M.885 controllers

#### STRAIGHT RED ROTARY MICROMOTOR WITH REINFORCED HEAD Data sheet

€

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 à 0,4 A	1079,00
Speed	3 000 to 30 000 tr/min.	Dimensions	Ø max. 31,6 mm, L 175 mm	
Torque	6,5 Ncm	Weight (without cable)	360 gr	
Compatible jaws Ø	3,175 mm	Reference	10 88041 00	

### «SUPER LIGHT» ROTARY MICROMOTOR



Lightweight, one-piece micromotor type handpiece. For finishing operations, polishing, deburring, engraving, grinding, limiting operator fatigue.

**Accessories supplied:** 1 support for micromotor, tools for changing jaws and maintenance, 1 set of replacement carbons and 2 interchangeable quick-clamping jaws Ø 2.35 - 3.00 mm.

**Compatibility:** M.M.880 and M.M.885 controllers

#### «SUPER LIGHT» ROTARY MICROMOTOR Data sheet

€

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 à 0,4 A	720,30
Speed	2 000 to 20 000 tr/min.	Dimensions	Ø max. 27,5 mm, L 145 mm	
Torque	6,5 Ncm	Weight (without cable)	200 gr	
Compatible jaws Ø	3,175 mm	Reference	10 88042 00	

### GREEN BENT 90° ROTARY MICROMOTOR



Handpiece, modular micromotor type with reinforced head with 90° angle transmission. For finishing operations, generally used with polishing discs.

**Accessories supplied:** 1 support for micromotor, tools for changing jaws and maintenance, 1 set of replacement carbons and 2 interchangeable quick-clamping jaws Ø 2.35 - 3.00 mm

**Compatibility:** M.M.880 and M.M.885 controllers

#### GREEN BENT 90° ROTARY MICROMOTOR Data sheet

€

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 à 0,4 A	932,90
Speed	1 500 to 15 000 tr/min.	Dimensions	Ø max. 31,6 mm, 45 x 160,5 mm	
Torque	8,8 Ncm	Weight (without cable)	380 gr	
Compatible jaws Ø	3,175 mm	Reference	10 88046 00	

## MICROMOTORS

## GREEN BENT 120° ROTARY MICROMOTOR

Handpiece, micromotor type with reinforced head with 120° angle transmission, for finishing operations, generally used with polishing discs.

**Accessories supplied:** 1 micromotor holder, tool for changing jaws and maintenance, 1 set of replacement brushes, 2 interchangeable quick-release jaws Ø 2.35 - 3.00 mm.

**Compatibility:** M.M.880 and M.M.885 controllers



## GREEN BENT 120° ROTARY MICROMOTOR Data sheet

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 à 0,4 A	1092,10 €
Speed	1 500 to 15 000 tr/min.	Dimensions	Ø max. 31,6 mm, 47 x 169 mm	
Torque	8,8 Ncm	Weight (without cable)	385 gr	
Compatible jaws Ø	3,175 mm	Reference	10 88047 00	

## Alternating micromotors

## BLACK FILING MICROMOTOR

Handpiece, modular micromotor type with straight head with angular movement (sweeping). For finishing operations, generally used with diamond stones and files.

**Accessories supplied:** 1 support for micromotor, tools for changing jaws and maintenance, 1 set of replacement carbons and 1 jaw Ø 2.00 to 4.7 mm.

**Compatibility:** M.M.880 and M.M.885 controllers



## BLACK FILING MICROMOTOR Data sheet

Type	Scanning alternating micromotor	Voltage output	DC3-30 V - 0,2 à 0,4 A	1217,00 €
Speed	800 to 8 000 osc./min.	Dimensions	Ø max. 31,6 mm, 182 mm	
Torque	6,5 Ncm	Weight (without cable)	316 gr	
Compatible jaws Ø	1,6 mm	Reference	10 88045 00	

## GREY FILING MICROMOTOR

One-piece motor type handpiece with longitudinal pistol grip for finishing operations, generally used with wood or felt lapidaries.

**Accessories supplied:** 1 support for micromotor, tools for changing jaws and maintenance, 1 set of replacement carbons and 1 jaw Ø 2.00 to 6.35 mm.

**Compatibility:** M.M.880 and M.M.885 controllers



## GREY FILING MICROMOTOR Data sheet

Type	Linear alternating micromotor	Voltage output	DC3-30 V - 0,2 à 0,4 A	1330,80 €
Speed	700 to 7 000 osc./min	Dimensions W x H x D	40 x 128 x 140 mm	
Torque	n.c.	Weight (without cable)	675 gr	
Course	0 to 6 mm	Reference	10 88043 00	

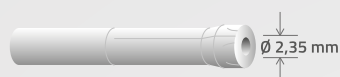
## Replacement carbon brushes for micromotors

Type	Ref.	€
Straight red rotary device	10 1070 82	15,50
Straight red rotary device with reinforced head	10 1070 82	15,50
Grey filing device	10 1070 84	15,50
"Super light" rotary device	10 1070 83	15,50
Green bent 90° rotary device	10 1070 82	15,50
Green bent 120° rotary device	10 1070 82	15,50
M.M.886	10 1070 66	15,50



## Jaws for micromotors

1 piece

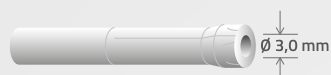


Ø 2,35 mm

- Straight red rotary device
- Green bent 90° rotary device
- Green bent 120° rotary device
- "Super light" rotary device
- M.M.886

10 1090 13

45,30



Ø 3,0 mm

- Straight red rotary device
- Green bent 90° rotary device
- Green bent 120° rotary device
- "Super light" rotary device
- M.M.886

10 1090 07

44,00



Ø 3,175 mm

- Straight red rotary device
- Green bent 90° rotary device
- Green bent 120° rotary device
- "Super light" rotary device
- M.M.886

10 1090 11

44,00



Ø 6,0 mm

- Straight red rotary device with reinforced head

10 1090 07

50,50



Ø 3,0 mm

- Straight red rotary device with reinforced head

10 1072 51

49,00

## Ultrasonic micromotor

### ULTRASONIC HEAD



Handpiece, one-piece ultrasonic micromotor type. Compact and lightweight, ergonomically designed to improve efficiency. Applications include finishing of plastic moulds, die castings, ceramics, non-ferrous and precious metals. Ideal for deburring, polishing and removing EDM burrs.

**Accessories supplied:** 1 micromotor support, tools for changing jaws and maintenance, 1 diamond file, 1 interchangeable Ø 3 mm quick-clamping jaws and 2 collets, thickness 0.5 and 1 mm.

**Compatibility:** M.M.885 controller

### ULTRASONIC HEAD Data sheet

€

Type	Ultrasonic micromotor	Voltage	AC 6-60 V 22,6 KHz	1852,30
Frequency	800 to 8 000 osc./min.	Dimensions	Ø max. 29 mm, 140 mm	
Course	45 µm	Weight (without cable)	196 gr	
		Reference	10 88540 00	

## Jaws for ultrasonic micromotor

### JAWS

2 pieces



Type	mm	Grain	Ref.	€
	Ø 2	-	40 US005 00	54,40
	Ø 3		40 US006 00	54,40
	t = 0,5	-	40 US015 00	76,50
	t = 0,8		40 US016 00	76,50
	t = 1		40 US018 00	76,50
	t = 2		40 US007 00	76,50
	t = 3		40 US008 00	76,50

## MICROMOTORS

## Turbomotors

### M.M.888.4 LINEAR TURBOMOTOR

Turbomotor providing high torque and speed. With a stroke of 0.7 mm and a movement frequency of 350 strokes/sec. Mainly made of lightweight composite materials, this turbo motor allows easy working for a long time without fatigue or overheating. Integrated on/off control ring.

**Supplied accessories:** 1 x 1.50 m hose with clamps, 1 x hose holder, 1 x key, 1 x ceramic stone and 1 x multi-purpose jaw for Ø 3 and 3 x 10 mm max.



#### M.M.888.4 Data sheet

Type	Linear alternating micromotor	Air consumption	46 NL/min.	1256,50
Frequency	0 à 22 000 coups/min.	Power supply	Compressor 60 COM00 00 or compressed air network 6 Bar flow rate higher than 70 NL/min.	
Pressure	6 bars	Dimensions	Ø max. 28 mm, 218 mm	
Course	0,7 mm	Weight	180 gr	
Connector	PT 1/4	Reference	10 88840 00	

### M.M.888.3 ROTARY TURBOMOTOR

Turbomotor is made of composite materials and is particularly thin and light, allowing easy working for a long time without fatigue or overheating. Integrated on/off control ring.

**Supplied accessories:** 1 x 1.50 m hose with clamps, 1 x hose holder, tools, 1 x Ø 10 mm grinding wheel and 1 x Ø 3 mm jaw.



#### M.M.888.3 Data sheet

Type	Rotary micromotor	Air consumption	120 NL/min.	651,10
Speed	65 000 tr/min.	Power supply	Compressed air network 6 Bar flow rate higher than 150 NL/min.	
Pressure	6 bars	Dimensions	Ø max. 22,50mm, 218 mm	
Course	0,7 mm	Weight	78 gr	
Connection	PT 1/4	Reference	10 88830 00	

## Maintenance and repairs

In order to always get the best and to prolong the life of your equipment, LAM PLAN offers you preventive and curative maintenance services on all its range of shape polishing equipment.

Do not hesitate to contact your usual contact person, after taking charge of your project in our workshops, we will draw up a personalised estimate.



# TOOLS



## Disc holders series 9904

Holders for self-adhesive discs, used in rotation.

5 pieces

Shaft: Ø 3 mm		
Ø in mm	Ref.	€
18	99 04018 00	32,50
30	99 04030 00	41,70



## Rectangular holders

Active zone: 10 x 20 mm.

1 piece

Shaft : Ø 3 L : 60 mm		
Type	Ref.	€
Articulated	99 09905 20	43,10
Rigid	99 09905 10	26,30



## Self-adhesive abrasive discs

For small surface rough polishing, used in rotation.

### SERIES 9950

50 pieces

Ø 18 mm			Ø 30 mm	
Grain	Ref.	€	Ref.	€
80	99 05080 10	25,90	99 05080 30	31,90
120	99 05120 10	25,90	99 05120 30	31,90
180	99 05180 10	25,90	99 05180 30	31,90
240	99 05240 10	25,90	99 05240 30	31,90
320	99 05320 10	25,90	99 05320 30	31,90
400	99 05400 10	25,90	99 05400 30	31,90
600	99 05600 10	25,90	99 05600 30	31,90
1200	99 51200 10	25,90	99 51200 30	31,90



## Self-adhesive polishing discs

### SERIES 9914

50 pieces

Type	Ø in mm	Ref.	€
1450 woven	18	99 01450 10	25,10
1431 felt	18	99 01431 10	26,30
1450 woven	30	99 01450 30	31,90
1431 felt	30	99 01431 30	33,40

Tools on sticks, diamond rasps, lapping rods, polishing supports and abrasive stones.

## TOOLS

## Self-adhesive polishing squares

### SERIES 400

10 pieces

Polishing cloths for contour work			
Type	mm	Ref.	€
437 brown felt	150 x 150	04 C0437 10	35,50
	200 x 200	04 C0437 20	46,30
431 red felt	150 x 150	04 C0431 10	38,20
	200 x 200	04 C0431 20	52,00



### SERIES 4400

10 pieces

Polishing cloths for contour work			
Type	mm	Ref.	€
4450 white woven	150 x 150	04 C4450 10	64,70
	200 x 200	04 C4450 20	75,20



## Prepolishing discs

### CAMEO® PLATINIUM

10 pieces

Self-adhesive discs for large surface pre-polishing, used in rotation			
Designation	mm	Ref.	€
Platinum 0	Ø 18	09 CA130200	11,00
Platinum 1	Ø 18	09 CA140200	10,40
Platinum 2	Ø 18	09 CA150200	10,40
Platinum 3	Ø 18	09 CA160200	10,40
Platinum 0	Ø 30	09 CA130300	25,00
Platinum 1	Ø 30	09 CA140300	22,50
Platinum 2	Ø 30	09 CA150300	22,50
Platinum 3	Ø 30	09 CA160300	22,50





## Diamond grinding points

Accurate grinding, deburring, levelling, etching.

Advantages in comparison with corundum grinders: better surface finish and low wear and tear with small diameters or points. High durability.

### SERIES 6800

1 piece

Shaft: Ø 3 mm - Length: 38 mm - Grain: 120							
Type	mm	Ref.	€	Type	mm	Ref.	€
	2,1 x 2,1	46 21210 00	49,90		3,1 x 9	46 30850 00	49,90
	3,5 x 3,5	46 35350 00	49,90		5 x 13	46 48130 00	94,90
	1,6 x 1,6	46 16160 00	33,90		8,0 x 13	46 80130 00	139,70
	1,8 x 1,6	46 18160 00	33,90		3,1 x 9	46 30900 00	49,90
	2,7 x 2,5	46 27250 00	49,90		5 x 13	46 48131 00	94,90
	3,7 x 3	46 37300 00	33,90		2,7 x 8,5	46 27850 00	49,90
	4,7 x 3	46 47300 00	49,90		3,1 x 9	46 31851 00	49,90
	2,9 x 6	46 30600 00	49,90		2,1 x 7	46 21701 00	49,90
	4,7 x 1,5	46 47150 00	49,90		3,1 x 8,5	46 31852 00	49,90
	8,0 x 2,5	46 80220 00	49,90		1,6 x 6,5	46 16651 00	33,90
	16 x 3	46 16270 00	94,90		3,1 x 8,5	46 31853 00	49,90
	22 x 3	46 22270 00	139,70		3,1 x 8,5	46 31854 00	49,90
	8,0 x 0,6	46 80050 00	49,90		5 x 10	46 48100 00	81,20
	4,7 x 1	46 47100 00	79,90		5 x 8	46 48800 00	66,80
	2,7 x 9	46 27800 00	49,90		5 x 13	46 48132 00	94,90
	3,1 x 8,5	46 31850 00	49,90		5 x 13	46 48133 00	94,90
	5,0 x 13	46 50130 00	92,90		8,0 x 13	46 80131 00	139,70
	1,6 x 6,5	46 16650 00	33,90		8,0 x 3,5	46 80300 00	49,90
	2,1 x 7	46 21700 00	49,90		22 x 0,3	46 22100 00	49,90
	2,7 x 8	46 27801 00	49,90		22 x 0,4	46 22200 00	49,90
					22 x 0,5	46 22300 00	49,90

HOME

## SERIES 7400

1 piece

Shaft: Ø 3 mm - Length: 38 mm - Grain: 170							
Type	mm	Ref.	€	Type	mm	Ref.	€
	2,3 x 7,5	47 23700 00	49,90		3,1 x 9	47 31900 00	49,90
	2,7 x 9	47 27800 00	49,90		5 x 13	47 48134 00	88,70
	5,0 x 13	47 50130 00	95,00		2,7 x 8,5	47 27802 00	49,90
	1,6 x 6,5	47 16650 00	33,40		2,1 x 7	47 21701 00	49,90
	2,1 x 7	47 21700 00	49,90		3,1 x 9	47 31850 00	49,90
	2,7 x 8	47 27801 00	49,90		5,0 x 13	47 50132 00	88,70
	5,0 x 13	47 50131 00	88,70				



## Abrasive caps

Abrasive caps are used to deburr metallic parts and also for medium polishing. Their shape makes them suitable for parts with a rounded base.

## GRAIN 80

1 support + 100 caps

Type	Stem mm	Cap mm	Ref.	€
	Ø 3	Ø 7 L 10	40 CA078 10	113,30
	Ø 3	Ø 12 L 15	40 CA128 20	128,20
	Ø 6	Ø 18 L 26	40 CA188 30	174,90
	Ø 3	Ø 7 L 11	40 CA078 40	113,30
	Ø 3	Ø 12 L 15	40 CA128 50	128,20
	Ø 6	Ø 18 L 26	40 CA188 60	174,90
	Ø 3	Ø 7 L 11	40 CA078 70	113,30
	Ø 3	Ø 12 L 15	40 CA128 80	128,20
	Ø 6	Ø 18 L 26	40 CA188 90	174,90



## GRAIN 150

## GRAIN 320

Type	Stem mm	Cap mm	Ref.	€	Ref.	€
	Ø 3	Ø 7 L 10	40 CA071 10	113,30	40 CA073 10	113,30
	Ø 3	Ø 12 L 15	40 CA121 20	128,20	40 CA123 20	128,20
	Ø 6	Ø 18 L 26	40 CA181 30	174,90	40 CA183 30	174,90
	Ø 3	Ø 7 L 11	40 CA071 40	113,30	40 CA073 40	113,30
	Ø 3	Ø 12 L 15	40 CA121 50	128,20	40 CA123 50	128,20
	Ø 6	Ø 18 L 26	40 CA181 60	174,90	40 CA183 60	174,90
	Ø 3	Ø 7 L 11	40 CA071 70	113,30	40 CA073 70	113,30
	Ø 3	Ø 12 L 15	40 CA121 80	128,20	40 CA123 80	128,20
	Ø 6	Ø 18 L 26	40 CA181 90	174,90	40 CA183 90	174,90



## Grinding points Pink corundum

Maximum speed: 45m/sec. Hardness: N.

### GRAIN 80/120

10 pieces

Shaft: Ø 3 mm - Length: 35 mm							
Type	mm	Ref.	€	Type	mm	Ref.	€
	9 x 2,2	40 CR901 00	38,10		7 x 4	40 CR720 00	32,90
	9 x 3	40 CR902 00	38,10		8 x 4	40 CR821 00	38,10
	8,5 x 2,2	40 CR853 00	38,10		2,5 x 6	40 CR252 20	32,90
	4 x 1,2	40 CR404 00	38,10		5 x 6	40 CR523 00	32,90
	5,5 x 3	40 CR555 00	41,20		6 x 6	40 CR624 00	32,90
	7/3,5 x 6	40 CR706 00	32,90		5 x 2	40 CR525 00	41,20
	5/2 x 2,7	40 CR507 00	32,90		6 x 2,3	40 CR626 00	41,20
	6,5/2 x 3	40 CR658 00	32,90		3,5/2 x 10	40 CR352 70	38,10
	8/3,5 x 4	40 CR809 00	32,90		5,5/3,5 x 10	40 CR552 80	32,90
	3/2 x 4	40 CR310 00	32,90		3,3/2,2 x 6,2	40 CR332 90	32,90
	5/3 x 5	40 CR511 00	32,90		3/4,6 x 10	40 CR330 00	32,90
	7/5 x 6	40 CR712 00	32,90		5 x 3,2	40 CR531 00	38,10
	3 x 6	40 CR313 00	38,10		5 x 7	40 CR532 00	38,10
	4 x 6	40 CR414 00	38,10		6 x 8	40 CR633 00	38,10
	5 x 6	40 CR515 00	38,10		4,3 x 7	40 CR433 40	38,10
	3 x 6	40 CR316 00	38,10		6,2 x 10	40 CR623 50	41,20
	4 x 4	40 CR417 00	38,10		6,3 x 10	40 CR633 60	38,10
	6 x 8	40 CR618 00	38,10		Kit 36 pieces 40 CR363 70	142,60	
	3 x 2	40 CR319 00	41,20				





















## TOOLS

## Grinding points Ruby sapphire

Maximum speed: 45 m/sec. Hardness: N.

### GRAIN 100

10 pieces

Shaft: Ø 3 mm - Length: 40 mm							
Type	mm	Ref.	€	Type	mm	Ref.	€
	2 x 6	40 RS020 10	45,50		6 x 12	40 RS061 20	32,30
	4 x 8	40 RS040 20	32,30		8 x 10	40 RS081 30	45,50
	5 x 10	40 RS050 30	37,40		Ø 5	40 RS051 40	40,50
	8 x 10	40 RS080 40	40,50		Ø 8	40 RS081 50	45,50
	5 x 2	40 RS050 50	40,50		Ø 10	40 RS101 60	45,50
	10 x 2	40 RS100 60	37,40		3 x 6	40 RS031 70	45,50
	10 x 5	40 RS100 70	40,50		4 x 8	40 RS041 80	37,40
	10 x 2	40 RS100 80	45,50		8 x 8	40 RS081 90	45,50
	5 x 10	40 RS050 90	40,50		10 x 10	40 RS102 00	45,50
	7 x 12	40 RS071 00	45,50	Kit 20 pieces	40 RS122 10	78,20	
	6 x 10	40 RS061 10	45,50				



## Grinding points Silicon carbide

### GRAIN 120

10 pieces

Shaft: Ø 3 mm - Length: 40 mm		
Ø in mm	Ref.	€
2 x 5	40 CB205 00	34,00
3 x 6	40 CB306 00	34,00
4 x 8	40 CB408 00	34,00
5 x 10	40 CB510 00	34,00
8 x 10	40 CB810 00	34,00
10 x 10	40 CB8101 00	34,00





## Carbide end mills

1 piece


Shaft: Ø 3 mm - Length: 38 mm				
Type	*Kit	mm	Ref.	€
		3,0 x 14	40 FC301 00	24,80
	✓	2,5 x 11	40 FC252 00	24,80
	✓	1,5 x 6	40 FC153 00	24,80
		Ø 3	40 FC304 00	24,80
	✓	3 x 14	40 FC305 00	24,80
	✓	2,5 x 11	40 FC306 00	24,80
	✓	3 x 12	40 FC257 00	24,80
		3 x 6	40 FC308 00	24,80
		3 x 12	40 FC309 00	24,80
	✓	3 x 10	40 FC310 00	24,80
		3 x 6	40 FC311 00	24,80
	✓	3 x 6	40 FC312 00	24,80
	✓	Ø 3	40 FC313 00	24,80
		Ø 2,5	40 FC251 40	24,80
		3 x 16 x 7	40 FC315 00	24,80
	✓	3 x 11 x 14	40 FC316 00	24,80
		3 x 9 x 12	40 FC317 00	24,80
		3 x 12 x 8	40 FC318 00	24,80
		3 x 9 x 8	40 FC319 00	24,80
		3 x 9	40 FC320 00	24,80
		3 x 6	40 FC321 00	24,80
		3 x 6	40 FC322 00	24,80
		3 x 5 x 10	40 FC323 00	24,80
		2,5 x 3 x 10	40 FC252 40	24,80
* Kit included 9 pieces			40 FC120 00	176,80
Shaft: Ø 3 mm - Length: 45 mm				
		0,9 x 0,75	40 FC409 00	23,50
		1 x 0,8	40 FC410 00	23,50
		1,2 x 1	40 FC412 00	23,50
		1,4 x 1,2	40 FC414 00	23,50
		1,6 x 1,4	40 FC416 00	23,50









## TOOLS

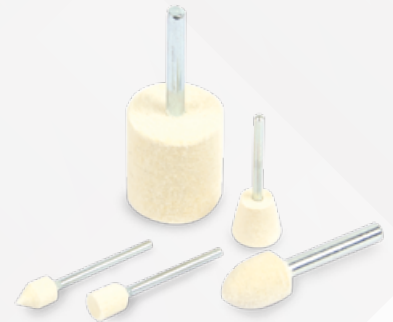
## Rotary polishing felts

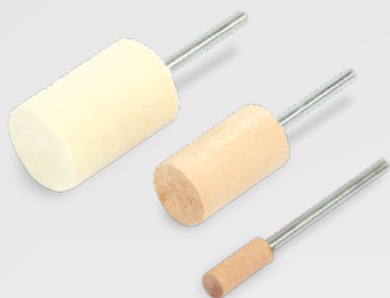
For use with BioDIAMANT® gels and pastes: finishing, geometric polishing.

10 pieces

Shaft: Ø 3 mm - Length: 38 mm				
Type	*Kit	Ø x L (mm)	Ref.	€
	✓	Ø 6 x L 10	40 FR060 10	18,00
	✓	Ø 8 x L 12	40 FR080 20	18,00
	✓	Ø 6 x L 10	40 FR060 30	18,00
	✓	Ø 8 x L 12	40 FR080 40	18,00
	✓	Ø 6 x L 10	40 FR060 50	18,00
	✓	Ø 8 x L 12	40 FR080 60	18,00
	✓	Ø 6 x L 10	40 FR060 70	18,00
	✓	Ø 8 x L 10	40 FR080 80	18,00
	✓	Ø 10 x L 10	40 FR100 90	20,20
	✓	Ø 6 x L 10	40 FR061 20	18,00
	✓	Ø 8 x L 12	40 FR081 30	18,00
	✓	Ø 10 x L 18	40 FR101 00	24,10
	✓	Ø 9/6 x 15	40 FR096 10	22,00
	✓	Ø 15/10 x L 15	40 FR151 10	18,80
	✓	*Kit 14 pieces	40 FR130 00	20,40

Shaft: Ø 6 mm - Length: 40 mm							
Type	mm	Ref.	€	Type	mm	Ref.	€
	10 x 12	40 FR102 00	20,70		15 x 20	40 FR152 50	32,80
	15 x 20	40 FR152 10	26,70				
	20 x 20	40 FR202 20	31,20				
	25 x 30	40 FR252 30	39,70				
	30 x 35	40 FR303 70	43,50				
	20 x 30	40 FR202 40	40,70		30 x 20	40 FR302 60	47,60
Shaft: Ø 2,35 mm - Length: 35 mm				Shaft: Ø 2,35 mm - Length: 40 mm			
Type	mm	Ref.	€	Type	mm	Ref.	€
	7 x 15	40 FR715 00	18,80		22 x 0,5	40 FR225 10	34,40
	12/8 x 12	40 FR120 10	21,70		22 x 5	40 FR225 00	20,80





## Cylindrical rotary accessories

### SERIES 9908

10 pieces

Shaft: Ø 3 mm							
mm	Type	Ref.	€	mm	Type	Ref.	€
Ø 20 L 30	Hard wood	99 08410 01	30,20	Ø 10 L 20	Hard wood	99 08416 01	30,20
	Soft wood	99 08411 01	30,20		Soft wood	99 08417 01	30,20
	Felt	99 08412 01	30,20		Felt	99 08418 01	30,20
Ø 15 L 25	Hard wood	99 08413 01	30,20	Ø 6 L 15	Hard wood	99 08419 01	30,20
	Soft wood	99 08414 01	30,20		Soft wood	99 08420 01	30,20
	Felt	99 08415 01	30,20		Felt	99 08421 01	30,20



## Pointed rotary accessories

### SERIES 9908

10 pieces

Shaft: Ø 3 mm							
mm	Type	Ref.	€	mm	Type	Ref.	€
Ø 20 L 30	Hard wood	99 08428 01	30,20	Ø 13 L 20	Hard wood	99 08434 01	30,20
	Soft wood	99 08429 01	30,20		Soft wood	99 08435 01	30,20
	Felt	99 08430 01	33,10		Felt	99 08436 01	30,20
Ø 10 L 30	Hard wood	99 08431 01	30,20	Ø 9 L 15	Hard wood	99 08437 01	30,20
	Soft wood	99 08432 01	30,20		Soft wood	99 08438 01	30,20
	Felt	99 08433 01	30,20		Felt	99 08439 01	30,20



## Spherical rotary accessories

### SERIES 9908

10 pieces

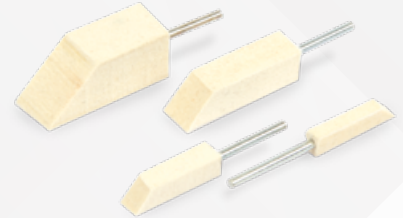
Shaft: Ø 3 mm							
mm	Type	Ref.	€	mm	Type	Ref.	€
Ø 15	Hard wood	99 08422 01	30,20	Ø 10	Hard wood	99 08425 01	30,20
	Soft wood	99 08423 01	30,20		Soft wood	99 08426 01	30,20
	Felt	99 08424 01	30,20		Felt	99 08427 01	30,20

## TOOLS

## Felt lapping rods

1 piece








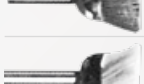


Shaft: Ø 3 mm		
Dim. (mm)	Ref.	€
6 x 6 L 25/30	99 08478 10	20,80
8 x 8 L 25/30	99 08478 20	23,00
10 x 10 L 22/30	99 08478 30	25,60
12 x 12 L 35/45	99 08478 40	28,90
18 x 18 L 15/30	99 08478 50	44,30



## Polishing grinding brushes

For use with BioDIAMANT® gels and pastes: geometric polishing and cavities.  
**Brass:** pre-polishing. - **Black silk:** polishing. - **White silk:** super-finishing.

10 pieces

Shaft: Ø 2,35 mm - Length: 40 mm				
Type	mm	Material	Ref.	€
	Ø 21 x 2	Brass	40 BR210 00	30,50
	Ø 21 x 1	Black silk	40 BR211 00	27,10
	Ø 21 x 1	White silk	40 BR212 00	27,10
	Ø 19 x 2	Brass	40 BR190 00	30,50
	Ø 19 x 1	Black silk	40 BR191 00	27,10
	Ø 19 x 1	White silk	40 BR192 00	27,10
	Ø 12 x 6	Brass	40 BR123 00	35,00
	Ø 12 x 6	Black silk	40 BR121 00	27,10
	Ø 12 x 6	White silk	40 BR122 00	27,10
	Ø 5,5 x 11	Brass	40 BR052 00	33,00
	Ø 5,5 x 11	White silk	40 BR051 00	30,90



## Jet brushes

1 piece





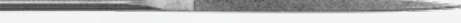

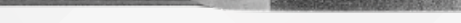



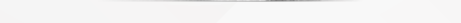









Brass wire bottlebrush jet brushes		
Ø in mm	Ref.	€
4	40 BR504 00	22,10
5	40 BR505 00	22,10
6	40 BR506 00	17,00
8	40 BR508 00	17,00
10	40 BR510 00	16,40



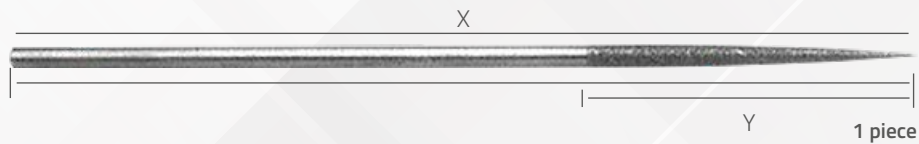
## Diamond files

Diamond files are electroplated, the quality of the coated diamond guarantees even stock removal. The manufacturing process results in long durability. These tools are mainly used for manual work, pre-polishing or fine deburring. They can also be mounted in filing or ultrasonic devices. Their length can be reduced simply by cutting with a diamond disc.



Shaft: Ø 3 mm						1 piece
Type	mm	Grain	Unit	Ref.	€	
	1,5 5	60		44 LD211 00	30,20	
	1,5 5	60		44 LD212 00	30,20	
	3	60		44 LD213 00	30,20	
	5	60		44 LD214 00	30,20	
	1,5 5	60	Mesh	44 LD215 00	30,20	
	1,5 5	60	Mesh	44 LD311 00	30,20	
	140	Mesh		44 LD411 00	30,20	
	5	60	Mesh	44 LD314 00	30,20	
	140	Mesh		44 LD414 00	30,20	
	3	60	Mesh	44 LD316 00	30,20	
	140	Mesh		44 LD416 00	30,20	
	Ø 3	60	Mesh	44 LD317 00	30,20	
	140	Mesh		44 LD417 00	30,20	
	4	60	Mesh	44 LD313 00	30,20	
	140	Mesh		44 LD413 00	30,20	
	0,4 12	D76	Fepa	44 LD418 00	102,60	
	0,6 12	D76	Fepa	44 LD419 00	102,60	
	0,8 12	D76	Fepa	44 LD420 00	102,60	
	1 12	D76	Fepa	44 LD421 00	102,60	
	5 20	D126	Fepa	44 LD422 00	191,60	

## TOOLS







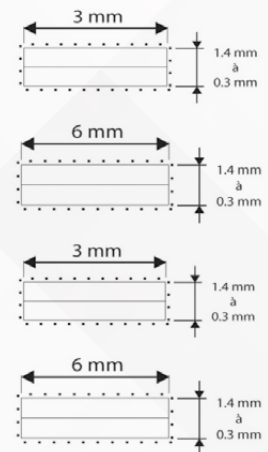
Grain	Dim. (mm)	Stem	Ø in mm	Ref.	€
320	X=175 - Y=40	Ø 3 mm	1	49 LD330 20	40,20
500	X=175 - Y=40	Ø 3 mm	1	49 LD330 30	40,20
220	X=175 - Y=50	Ø 3 mm	2,2	49 LD330 70	40,20
220	X=175 - Y=50	Ø 3 mm	3	49 LD331 20	35,10
140	X=1110 - Y=60	Ø 3 mm	3,5	49 LD331 60	42,80
220	X=1110 - Y=60	Ø 3 mm	3,5	49 LD311 20	42,80
320	X=1110 - Y=60	Ø 3 mm	3,5	49 LD311 30	42,80
220	X=200 - Y=70	Ø 3 mm	4	49 LD332 20	48,20

## Diamond files kit

Composition	Stem	Ref.	€
12 pieces	Ø 3 mm	44 LD500 00	162,90

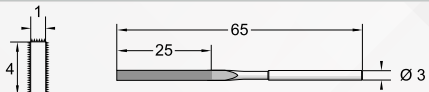
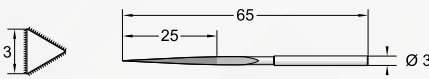
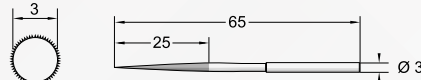
  

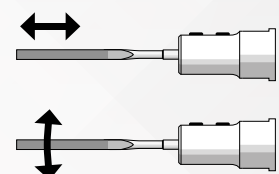
Kit composition	Detail	Grain µm	Qty.
	T	200	1
	15	400	1
	L	72	1
	T	200	1
	15	400	1
	L	72	1
	T	200	1
	15	400	1
	L	56	1
	T	200	1
	15	400	1
	L	56	1



## Diamond files for micromotors

## DEPOSITED DIAMOND FILES

Type	Stem	Grain µm	Ref.	€
	Ø 3 mm	140	40 LI001 00	51,90
	Ø 3 mm	140	40 LI002 00	51,90
	Ø 3 mm	140	40 LI003 00	51,90





## Diamond files

1 piece

Grain 150 / Shaft Ø 3 mm					
Type	Form	Dim. (mm)	Lenght (mm)	Ref.	€
		6 x 1,5 x 30	110	49 LD422 00	13,30
		5 x 2 x 30	110	49 LD423 00	13,30
		Ø 3 x 30	110	49 LD424 00	13,30
		2,5 x 2,5 x 30	110	49 LD425 00	13,30
		3,5 x 30	110	49 LD426 00	13,30
		6 x 1 x 20	120	49 LD427 00	13,30
		2 x 2 x 20	120	49 LD428 00	13,30
		3 x 1,5 x 20	120	49 LD429 00	13,30
		3 x 20	120	49 LD430 00	13,30
		5 x 2 x 20	120	49 LD431 00	13,30
		4 x 1,5 x 20	120	49 LD432 00	13,30
		4 x 2,5 x 20	120	49 LD433 00	13,30
		Ø 2 x 20	120	49 LD434 00	13,30
		5 x 5 x 1,5 x 20	120	49 LD435 00	13,30
		Ø 2,5 x 20	120	49 LD436 00	13,30
Grain 200 / Shaft Ø 3 mm					
		5,8 x 1,2 x 20	40	49 LD437 00	14,30
		3,2 x 1,4 x 20	40	49 LD438 00	14,30
		5 x 2 x 22	40	49 LD439 00	14,30
		3,2 x 1,4 x 24	40	49 LD440 00	14,30
		Ø 3 x 20	40	49 LD441 00	14,30
		Ø 3 x 30	40	49 LD442 00	14,30
		2,5 x 25	40	49 LD443 00	14,30
		3,2 x 1,4 x 25	40	49 LD444 00	14,30
		3,2 x 1,4 x 25	40	49 LD445 00	14,30
		4 x 2 x 20	40	49 LD446 00	14,30
		4 x 1,2 x 28	55	49 LD447 00	14,30
		5 x 2 x 28	55	49 LD448 00	14,30
		Ø 3 x 34	55	49 LD449 00	14,30
		2,5 x 2,5 x 34	55	49 LD450 00	14,30

## TOOLS

## Rubberised abrasive grinders

Prepolishing. Rubberised abrasive grinders easily adapt to the of the surface being worked and are used to polish complex shapes (for example: angles, thread, depths). They are also used for fine deburring.



		RED Grain 120	BROWN Grain 220		GREEN Grain 280		
10 pieces							
Shaft: Ø 3 mm - Length: 30 mm							
Type	mm	Ref.	€	Ref.	€	Ref.	€
	Ø 4 L 8	40 MC011 20	61,00	40 MC012 20	61,00	40 MC012 80	61,00
	Ø 6 L 10	40 MC021 20	61,00	40 MC022 20	61,00	40 MC022 80	61,00
	Ø 10 L 10	40 MC031 20	61,00	40 MC032 20	61,00	40 MC032 80	61,00
	Ø 12 L 16	40 MC041 20	61,00	40 MC042 20	61,00	40 MC042 80	61,00
Shaft: Ø 6 mm - Length: 40 mm							
	Ø 8 L 15	40 MC051 20	61,00	40 MC052 20	61,00	40 MC052 80	61,00
	Ø 12 L 20	40 MC061 20	61,00	40 MC062 20	61,00	40 MC062 80	61,00
	Ø 15 L 30	40 MC071 20	79,00	40 MC072 20	79,00	40 MC072 80	79,00
	Ø 20 L 20	40 MC081 20	71,00	40 MC082 20	71,00	40 MC082 80	77,70



## Felt polishing rings

10 pieces

Thickness: 4,5 mm		
Dimension	Réf.	€
Ø 18	40 FR180 10	5,60
Ø 30	40 FR300 10	11,80
Ø 45	40 FR450 10	18,00



## Felt polishing discs

### SELF-ADHESIVE - SERIES 99014

10 pieces

Thickness: 5 mm							
Ø	Type	Ref.	€	Ø	Type	Ref.	€
12 mm	med-hard	99 01423 10	12,10	33 mm	hard	99 01424 40	23,60
	hard	99 01424 10	14,80		med-hard	99 01423 60	33,80
20 mm	med-hard	99 01423 20	12,90	50 mm	hard	99 01424 60	41,10
	hard	99 01424 20	16,50		med-hard	99 01423 70	40,70
25 mm	med-hard	99 01423 30	13,50	65 mm	hard	99 01424 70	50,00
	hard	99 01424 30	17,30		med-hard	99 01423 80	44,30
33 mm	med-hard	99 01423 40	18,60	78 mm	hard	99 01424 80	55,90

### NON-ADHESIVE - SERIES 99114

Thickness: 5 mm							
Ø	Type	Ref.	€	Ø	Type	Ref.	€
12 mm	med-hard	99 11423 10	11,10	33 mm	hard	99 11424 40	21,10
	hard	99 11424 10	13,30		med-hard	99 11423 60	30,50
20 mm	med-hard	99 11423 20	11,70	50 mm	hard	99 11424 60	37,10
	hard	99 11424 20	14,30		med-hard	99 11423 70	37,10
25 mm	med-hard	99 11423 30	12,20	65 mm	hard	99 11424 70	45,30
	hard	99 11424 30	15,80		med-hard	99 11423 80	41,90
33 mm	med-hard	99 11423 40	16,90	78 mm	hard	99 11424 80	47,50



## Felt polishing pads

### SQUARE 150 mm

3 pieces

Self-adhesive				Non-adhesive			
Type	Thickness	Ref.	€	Type	Thickness	Ref.	€
med-hard	1 mm	99 15434 60	28,90	med-hard	1 mm	99 15434 10	25,10
med-hard	5 mm	99 15423 60	62,20	med-hard	5 mm	99 15423 10	57,40
hard	5 mm	99 15424 60	62,20	hard	5 mm	99 15424 10	57,40

### SQUARE 200 mm

Self-adhesive				Non-adhesive			
Type	Thickness	Ref.	€	Type	Thickness	Ref.	€
med-hard	1 mm	99 20434 60	32,20	med-hard	1 mm	99 20434 10	28,90
med-hard	5 mm	99 20423 60	66,90	med-hard	5 mm	99 20423 10	62,20
hard	5 mm	99 20424 60	66,90	hard	5 mm	99 20424 10	62,20

## TOOLS

## Cylindrical abrasive finishing grinders

14 pieces

Shaft: Ø 3 mm - Length: 30 mm - Ø 13 L 14 mm			
Color	Grain	Ref.	€
Yellow	240	40 MF024 00	65,60
Green	320	40 MF032 00	65,60
Orange	400	40 MF040 00	65,60
Pink	600	40 MF060 00	65,60
Ochre	800	40 MF080 00	65,60
Brown	1000	40 MF100 00	65,60
Blue	1500	40 MF150 00	65,60



## Spherical abrasive finishing grinders

10 pieces

Shaft: Ø 3 mm - Length: 40 mm - Ø 30 L 17 mm			
Color	Grain	Ref.	€
Brown	Extra Coarse	40 MF302 00	64,60
Brown	Coarse	40 MF303 00	64,60
Brown	Medium	40 MF305 00	64,60
Brown	Fine	40 MF307 00	64,60
Green	No grain	40 MF300 00	64,60



## Wooden lapping rods hard/soft

## SERIES 9908

10 pieces

Hard			Soft	
mm	Ref.	€	Ref.	€
3 x 3 x 150	99 08510 00	18,30	99 08610 00	18,30
4,5 x 4,5 x 150	99 08511 00	20,20	99 08611 00	20,20
6,5 x 6,5 x 150	99 08512 00	28,10	99 08612 00	28,10
3 x 7 x 150	99 08513 00	23,20	99 08613 00	23,20
8 x 12,5 x 150	99 08514 00	39,80	99 08614 00	39,80
8 x 19 x 150	99 08515 00	47,90	99 08615 00	47,90
Ø 3 x 150	99 08530 00	20,20	99 08630 00	20,20
Ø 4,5 x 150	99 08531 00	28,10	99 08631 00	28,10
Ø 6,5 x 150	99 08532 00	34,80	99 08632 00	34,80



## Rectangular rubber rods

1 piece

Grain	Dim. (mm)	Ref.	€
40	25 x 9,5 x 150	98 61041 00	33,20
90	25 x 9,5 x 150	98 61091 00	33,20
120	25 x 9,5 x 150	98 61121 00	33,20
240	25 x 9,5 x 150	98 61241 00	33,20





## Ceramic stones

1 piece

Standard					High resistance	
Dim. (mm)	Grain	Color	Ref.	€	Ref.	€
0,5 x 4 x 100	220	Dark brown	40 US361 00	22,80		
	300	Light brown	40 US362 00	22,80		
	400	Orange	40 US363 00	22,80		
	600	Black	40 US364 00	22,80		
	800	Blue	40 US365 00	22,80		
	1000	White	40 US366 00	22,80		
	1200	Red	40 US367 00	22,80		
1 x 4 x 100	220	Dark brown	40 US311 00	17,40	40 US411 00	21,10
	300	Light brown	40 US312 00	17,40		
	400	Orange	40 US313 00	17,40		
	600	Black	40 US314 00	17,40		
	800	Blue	40 US315 00	17,40	40 US415 00	21,10
	1000	White	40 US316 00	17,40		
	1200	Red	40 US317 00	17,40	40 US417 00	21,10
1 x 6 x 100	220	Dark brown	40 US321 00	26,80	40 US421 00	32,30
	300	Light brown	40 US322 00	26,80		
	400	Orange	40 US323 00	26,80		
	600	Black	40 US324 00	26,80		
	800	Blue	40 US325 00	26,80	40 US425 00	32,30
	1000	White	40 US326 00	26,80		
	1200	Red	40 US327 00	26,80	40 US427 00	32,30
1 x 10 x 100	220	Dark brown	40 US331 00	35,00	40 US431 00	42,10
	300	Light brown	40 US332 00	35,00		
	400	Orange	40 US333 00	35,00		
	600	Black	40 US334 00	35,00		
	800	Blue	40 US335 00	35,00	40 US435 00	42,10
	1 000	White	40 US336 00	35,00		
	1 200	Red	40 US337 00	35,00	40 US437 00	42,10
Ø 3 x 50	220	Grey	40 US341 00	20,10		
	300	Light brown	40 US342 00	20,10		
	400	Orange	40 US343 00	20,10		
	600	Black	40 US344 00	20,10		
	800	Blue	40 US345 00	20,10		
	1000	White	40 US346 00	20,10		
	1200	Red	40 US347 00	20,10		
Ø 3 x 100	220	Grey	40 US351 00	37,20		
	300	Light brown	40 US352 00	37,20		
	400	Orange	40 US353 00	37,20		
	600	Black	40 US354 00	37,20		
	800	Blue	40 US355 00	37,20		
	1000	White	40 US356 00	37,20		
	1200	Red	40 US357 00	37,20		

## TOOLS

## Ceramic brushes

Enable careful removal of errors without damage to reaming.

1 piece

Shaft: Ø 3 mm			
Type	Dim. (mm)	Ref.	€
Cross-Hole	Ø 3,5 x 50 x 120	40 BR030 00	75,90
Cross-Hole	Ø 5 x 50 x 120	40 BR057 00	75,90
White grain 1000	Ø 5 x 20	40 BR055 00	48,30
Red grain 1000	Ø 5 x 20	40 BR056 00	48,30

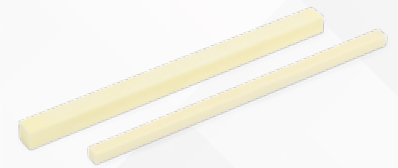


## Sulphur stones

### SERIES 570

12 pieces

Dim. (mm)	Grain	Ref.	€
6 x 6 x 150	120	98 57121 00	63,10
	150	98 57151 00	63,10
	180	98 57181 00	63,10
	220	98 57221 00	63,10
	320	98 57321 00	69,20
	400	98 57401 00	75,20
10 x 10 x 150	600	98 57601 00	96,30
	120	98 57122 00	81,40
	150	98 57152 00	81,40
	180	98 57182 00	81,40
	220	98 57222 00	81,40
	320	98 57322 00	81,40
13 x 13 x 150	400	98 57402 00	96,30
	600	98 57602 00	119,70
	180	98 57183 00	96,30
	220	98 57223 00	96,30
	320	98 57323 00	105,40
	400	98 57403 00	123,50



## Graphite stones

### SERIES 560

5 pieces

Dim. (mm)	Grain	Ref.	€
6 x 6 x 150	600	98 56601 00	61,80
	800	98 56801 00	70,00
	1 000	98 56001 00	78,00
10 x 10 x 150	600	98 56602 00	70,00
	800	98 56802 00	78,00
	1 000	98 56002 00	84,50
13 x 13 x 150	600	98 56603 00	94,80
	800	98 56803 00	109,40
	1 000	98 56003 00	121,00





## Abrasive stones

### SERIES 510 - SIC

Abrasive stones with silicon carbide based soft bonding material, for finishing treated steel tools.

			12 pieces
Dim. (mm)	Grain	Ref.	€
6 x 6 x 150	240	98 51241 00	66,00
	320	98 51321 00	81,00
	400	98 51401 00	81,00
	600	98 51601 00	106,70
3 x 13 x 150	240	98 51243 00	70,20
	320	98 51323 00	81,00
	400	98 51403 00	81,00
	600	98 51603 00	104,00
6 x 13 x 150	240	98 51242 00	89,30
	320	98 51322 00	106,70
	400	98 51402 00	106,70
	600	98 51602 00	123,30
13 x 13 x 150	240	98 51244 00	119,20
	320	98 51324 00	147,00
	400	98 51404 00	147,00
	600	98 51604 00	208,60



### SERIES 520 - AL<sub>2</sub>O<sub>3</sub>

Resin and aluminium oxide based abrasive stones, recommended for machining and finishing regular and irregular shaped tools following electro-erosion.

			12 pieces
Dim. (mm)	Grain	Ref.	€
3 x 6 x 150	120	98 52121 00	57,40
	180	98 52181 00	57,40
	320	98 52321 00	70,20
	400	98 52401 00	66,90
	600	98 52601 00	66,90
3 x 13 x 150	120	98 52125 00	67,80
	180	98 52185 00	67,80
	320	98 52325 00	78,80
	400	98 52405 00	75,00
	600	98 52605 00	75,00
6 x 6 x 150	120	98 52122 00	66,00
	180	98 52182 00	66,00
	320	98 52322 00	81,00
	400	98 52402 00	77,00
	600	98 52602 00	77,00
6 x 13 x 150	120	98 52123 00	89,30
	180	98 52183 00	89,30
	320	98 52323 00	104,00
	400	98 52403 00	99,10
	600	98 52603 00	99,10
10 x 10 x 150	120	98 52124 00	104,00
	180	98 52184 00	104,00
	320	98 52324 00	112,80
	400	98 52404 00	107,50
	600	98 52604 00	107,50

## TOOLS

## Abrasive stones

SERIES 530 -  $Al_2O_3$ 

Resin and aluminium oxide based abrasive stones, recommended for soft and medium-hard materials.

12 pieces

Dim. (mm)	Grain	Ref.	€
6 x 6 x 150	220	98 53221 00	42,20
	320	98 53321 00	45,40
	400	98 53401 00	45,20
	600	98 53601 00	53,70
10 x 10 x 150	220	98 53222 00	63,00
	320	98 53322 00	66,80
	400	98 53402 00	66,80
	600	98 53602 00	84,20
3 x 13 x 150	220	98 53223 00	46,70
	320	98 53323 00	51,60
	400	98 53403 00	51,60
	600	98 53603 00	59,50
6 x 13 x 150	220	98 53224 00	52,50
	320	98 53324 00	60,80
	400	98 53404 00	60,80
	600	98 53604 00	74,80
4 x 4 x 100	220	98 53225 00	29,10
	320	98 53325 00	29,10
	400	98 53405 00	29,10
	600	98 53605 00	36,30



## DEGUSSIT® stones

1 piece

Dim. (mm)	Shape	Grain	Ref.	€
100 x 10	△	Medium	98 D1015 00	153,60
100 x 10	□	Medium	98 D1025 00	170,80
100 x 8 x 6	▭	Fine	98 D1032 00	134,40
100 x 10	◐	Big	98 D1047 00	95,50
100 x 6	○	Medium	98 D1055 00	124,20
Kit 5 pieces (1 piece of each ref. above)			98 D1000 00	503,80



## Honing oil

1 piece

Qty.	Ref.	€
500 cc.	98 70000 00	62,80



## Stone-holders

1 piece

Dim. (mm)	Qty.	Ref.	€
1 x 4	1	40 U5099 00	9,10
1 x 6	1	40 U5098 00	9,10
1 x 10	1	40 U5097 00	9,10
Ø 3 mm	1	40 U5096 00	15,40
Lot of 3 pieces (1 x 4, 1 x 6, 1 x 10)	3 pieces	40 U5090 00	24,00



## Abrasive stone kit n° 1

### SERIES 510

Composition	Ref.	€
14 pieces	98 11000 00	111,50

#### KIT COMPONENTS

Dim. (mm)	Type	Grain	Qty.	Ref.
6 x 6 x 150	510	240	2	98 51241 00
	510	320	2	98 51321 00
	510	400	2	98 51401 00
6 x 13 x 150	510	240	2	98 51242 00
	510	320	2	98 51322 00
	510	400	2	98 51402 00
	510	600	1	98 51602 00
	540	800	1	98 54803 00

## Abrasive stone kit n° 2

### SERIES 530

Composition	Ref.	€
14 pieces	98 21000 00	132,40

#### KIT COMPONENTS

Dim. (mm)	Type	Grain	Qty.	Ref.
6 x 6 x 150	530	220	2	98 53221 00
	530	320	2	98 53321 00
	530	400	2	98 53401 00
6 x 13 x 150	530	220	2	98 53224 00
	530	320	2	98 53324 00
	530	400	2	98 53404 00
	530	600	2	98 53604 00

## Abrasive stone kit n° 4

### SERIES 520-550

Composition	Ref.	€
12 pieces	98 41000 00	89,00

#### KIT COMPONENTS

Dim. (mm)	Type	Grain	Qty.	Ref.
6 x 6 x 150	550	90	1	98 55091 00
	520	120	1	98 52122 00
	520	180	1	98 52182 00
	550	220	1	98 55221 00
	520	320	1	98 55321 00
	550	600	1	98 55601 00
3 x 6 x 150	550	90	1	98 55093 00
	520	120	1	98 52121 00
	520	180	1	98 52181 00
	550	220	1	98 55223 00
	520	320	1	98 52321 00
	550	600	1	98 55603 00

# CONSUMABLES

Diamond abrasives, paste, liquid and gel abrasive preparations.  
Lubricating fluids for oil or water base.

## DIAMOND ABRASIVES

## DIAMOND ABRASIVES

### Bio DIAMANT® Pulmatic liquids

Used to obtain good distribution of diamond abrasive when polishing large surfaces.  
Rechargeable pack, non-aerosol.

#### SERIES 310 - 75 g

1 piece

Alcohol based monocrystalline			
Type	µm	Ref.	€
025 313	1/4	03 97313 00	36,90
1 313	1	03 01313 00	36,90
2 313	2	03 02313 00	36,90
3 313	3	03 03313 00	36,90
6 313	6	03 06313 00	48,30
8 313	8	03 08313 00	48,30
10 313	10	03 10313 00	48,30
14 313	14	03 14313 00	55,10
25 313	25	03 25313 00	55,10
40 313	40	03 40313 00	55,10



#### SERIES 320 P - 75 g

1 piece

Alcohol based polycrystalline			
Type	µm	Ref.	€
025 323P	1/4	03 97323 00	42,20
1 323P	1	03 01323 00	42,20
2 323P	2	03 02323 00	42,20
3 323P	3	03 03323 00	42,20
6 323P	6	03 06323 00	55,50
8 323P	8	03 08323 00	55,50
10 323P	10	03 10323 00	55,50
14 323P	14	03 14323 00	63,20
25 323P	25	03 25323 00	63,20



5% discount from 3 products of the same reference

## Bio DIAMANT® Gels













The Bio DIAMANT® formula ensures even distribution of abrasive film, as well as excellent adhesion to the item being polished.

Ready to use, this gel is ideal for maintenance polishing and produces an excellent shine. Very fast diamond action.



### SERIES M.M.530/540 - 20 g

1 piece

Type	µm	Ref.	€
 M.M.540	1/10	02 MM548 10	76,60
 M.M.540	1/4	02 MM547 10	76,60
 M.M.540	3/4	02 MM546 10	76,60
 M.M.540	1	02 MM545 10	76,60
 M.M.540	2	02 MM544 10	76,60
 M.M.540	3	02 MM543 10	76,60
 M.M.540	6	02 MM542 10	108,20
 M.M.540	9	02 MM541 10	108,20
 M.M.530	10	02 MM533 10	123,90
 M.M.530	15	02 MM532 10	123,90
 M.M.530	30	02 MM531 10	123,90
 M.M.530	45	02 MM530 10	123,90

### SERIES M.M.30/40 - 100 g

1 piece

Suitable for polishing large areas			
Type	µm	Ref.	€
 M.M.40	3/4	02 MM046 00	149,50
 M.M.40	1	02 MM045 00	149,50
 M.M.40	2	02 MM044 00	149,50
 M.M.40	3	02 MM043 00	175,60
 M.M.40	6	02 MM042 00	175,60
 M.M.40	9	02 MM041 00	175,60
 M.M.30	10	02 MM033 00	208,90
 M.M.30	15	02 MM032 00	208,90
 M.M.30	30	02 MM031 00	208,90
 M.M.30	45	02 MM030 00	208,90

5% discount from 3 products of the same reference

## DIAMOND ABRASIVES

## Bio DIAMANT® Pastes

Bio DIAMANT® products present no risk of toxicity or noxiousness to the user's health.

During the development of Bio DIAMANT® products, chemical components are selected exclusively from substances classed as non-dangerous complying with REACH regulations (relating to the packaging and labelling of dangerous substances and preparations causing skin irritation).

### Environmental compliance

Our Bio DIAMANT® products are biodegradable.

Safety data is available for all products complying with REACH regulations

### Identification

You can identify the series and therefore the solubility, Grit texture and concentration of each Bio DIAMANT® paste according to the type (e.g. 6 103).

Series 100 water soluble.

Series 210 oil soluble.

### Example of type identification

Paste type	Grit texture	Series	Concentration
6 103	6 microns	100	3



## BIO DIAMANT® pastes SERIES 210 - 10 g

**Very high performance diamond paste for polishing hard and extra hard materials.**

Available in a wide range of grain sizes from 1 to 90 µm. Does not contain water, protects polished surfaces from corrosion. Cleaning is done with water + 742 detergent or with a solvent such as Stanol.

1 piece

High yielding abrasives for polishing hard and extra-hard materials. Fluidity enables use without lubricating fluid.			
Type	µm	Ref.	€
1 213	1	01 01213 00	81,90
3 213	3	01 03213 00	143,40
6 213	6	01 06213 00	183,00
8 213	8	01 08213 00	217,60
14 213	14	01 14213 00	224,00
25 213	25	01 25213 00	305,00
40 213	40	01 40213 00	317,00
60 213	60	01 60213 00	327,00
90 213	90	01 90213 00	329,40

5% discount from 3 products of the same reference



**High performance  
Oil soluble**



**Extreme polish**  
**Water soluble**  
**Available in different concentrations**

### BIO DIAMANT® pastes SERIES 100 - 10 g

**Diamond paste for finish polishing of all materials.**

Suitable for polishing stages up to optical polishing on soft substrates.

BIO DIAMANT® SERIES 100 paste is available in a wide range of grit sizes down to very small ones and requires the use of M.M.712 - WS water based fluid. Cleaning is done with water + lye 742 or alcohol.

All stages up to optical polishing possible.			
Type	µm	Ref.	€
010 103	1/10	01 99103 00	140,70
025 102	1/4	01 97102 00	67,30
025 103	1/4	01 97103 00	118,80
1 103	1	01 01103 00	82,70
1 105	1	01 01105 00	113,30
2 103	2	01 02103 00	148,00
2 105	2	01 02105 00	176,70
3 102	3	01 03102 00	106,00
3 103	3	01 03103 00	137,10
3 105	3	01 03105 00	188,40
6 101	6	01 06101 00	113,30
6 102	6	01 06102 00	137,10
6 103	6	01 06103 00	176,70
6 105	6	01 06105 00	224,00
8 102	8	01 08102 00	188,40
8 103	8	01 08103 00	224,00
8 105	8	01 08105 00	261,30
14 101	14	01 14101 00	137,10
14 102	14	01 14102 00	197,80
14 103	14	01 14103 00	261,30
14 105	14	01 14105 00	333,10

5% discount from 3 products of the same reference

### BIO DIAMANT® pastes 205S - 20 g

**High performance diamond paste for mould polishing.**

Excellent adhesion to material surfaces, very good temperature resistance, can be used on hot surfaces up to 170°C.

Due to its lubricating properties, no lubricant is required. Does not contain water, protects polished surfaces from corrosion. Cleaning is done with water + 742 detergent or with a solvent such as Stanol.



**Can be used on hot surfaces up to 170°C**

Can be used at high temperature			
Type	µm	Ref.	€
1.205S	1	01 01205S 00	119,00
3.205S	3	01 03205S 00	181,20
6.205S	6	01 06205S 00	235,30
8.205S	8	01 08205S 00	274,40
14.205S	14	01 14205S 00	349,80

1 piece

5% discount from 3 products of the same reference

## DIAMOND ABRASIVES

**BIO DIAMANT® pastes POLILAM MS - 10 g**

**Universal diamond paste for lapping and polishing of metal parts.**

Bio DIAMANT® POLILAM MS abrasive paste is made from high purity, narrow-gauge single crystal diamond. The concentration of abrasive is of the standard type, and the thick, creamy consistency of the abrasive ensures good bonding to the work surface.

Its fatty bond allows it to be used pure or with M.M.705 - OS oil-based fluid. contains no water, protects polished surfaces from corrosion.

Cleaning is done with water + 742 detergent or with a solvent such as Stanol.



**Economical  
and versatile**

1 piece

Universal bonding paste.			
Type	µm	Ref.	€
1 MS	1	01 010MS 00	41,90
3 MS	3	01 030MS 00	41,90
6 MS	6	01 060MS 00	53,60
8 MS	8	01 080MS 00	58,10
14 MS	14	01 140MS 00	67,80
25 MS	25	01 250MS 00	76,00
45 MS	45	01 450MS 00	76,00
60 MS	60	01 600MS 00	76,00
90 MS	90	01 900MS 00	80,10

5% discount from 3 products of the same reference

**BIO DIAMANT® pastes DIATOOL® BX**

**Diamond paste for roughing, polishing on hard steels and cermet.**

Used for high pressure applications, prevents seizing, requires the use of M.M.705 - OS oil-based fluid, contains no water, protects polished surfaces from corrosion. Cleaning is done with water + detergent 742 or with a solvent like Stanol.



**High pressure  
Available in 10  
and 20 g**

1 piece

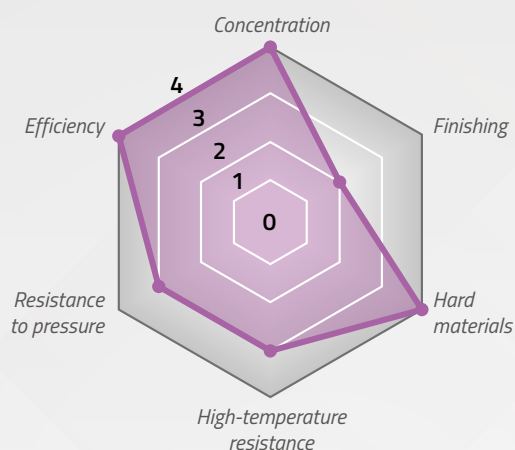
10 g				20 g	
Type	µm	Ref.	€	Ref.	€
DIATOOL® BX1	1	01 01DBX 00	44,40	01 01DBX 20	80,70
DIATOOL® BX3	3	01 03DBX 00	67,10	01 03DBX 20	121,50
DIATOOL® BX6	6	01 06DBX 00	80,70	01 06DBX 20	146,60
DIATOOL® BX8	8	01 08DBX 00	93,10	01 08DBX 20	168,20
DIATOOL® BX14	14	01 14DBX 00	103,40	01 14DBX 20	187,50
DIATOOL® BX25	25	01 25DBX 00	103,40	01 25DBX 20	187,50
DIATOOL® BX40	40	01 40DBX 00	112,50	01 40DBX 20	203,40
DIATOOL® BX60	60	01 60DBX 00	112,50	01 60DBX 20	203,40

5% discount from 3 products of the same reference

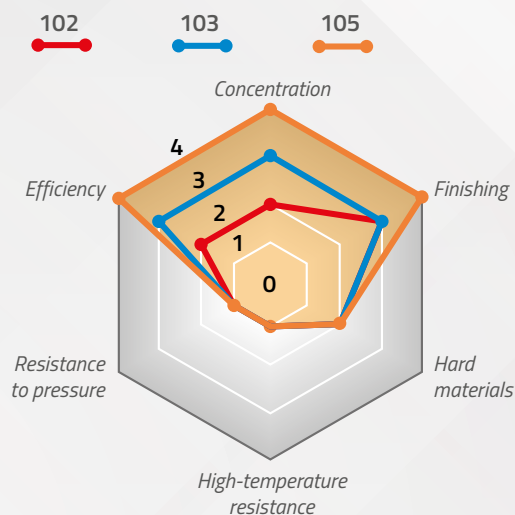
## Selection of a BIO DIAMANT® abrasive paste

Depending on your criteria, the diagrams below will help you to choose the most suitable diamond paste.

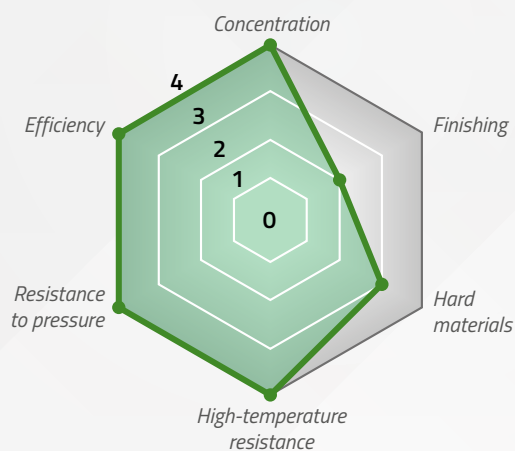
### BIO DIAMANT® PASTES SERIE 210



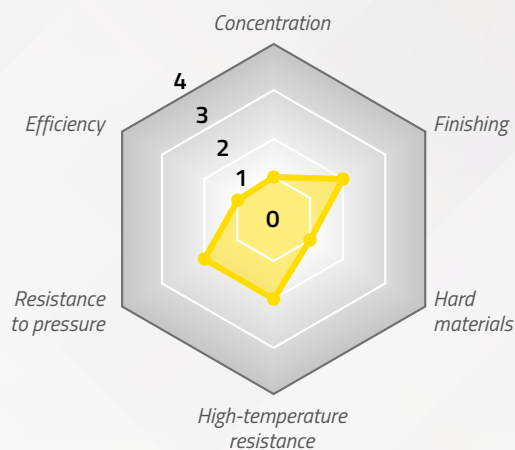
### BIO DIAMANT® PASTES SERIE 100



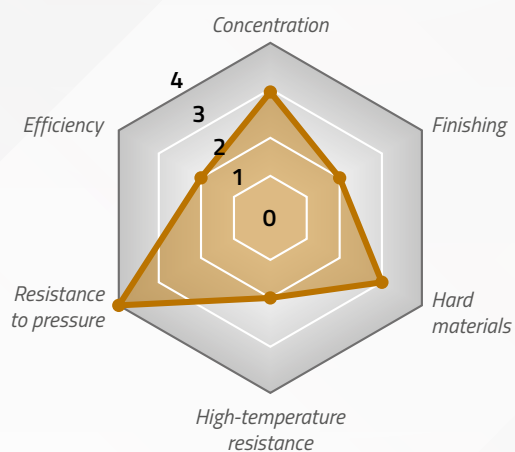
### BIO DIAMANT® PASTES 205S



### BIO DIAMANT® PASTES POLILAM MS



### BIO DIAMANT® PASTES DIATool® BX



## LUBRICATING FLUIDS

## Lubricating fluids M.M.

### SERIES M.M.705 - OS (Oil Soluble)

Lubricating fluid for use with series 210, MS and Diatool® diamond pastes. Ready to use it ensures excellent paste dispersion and optimises cutting power. Easily cleanable with 742 detergent or Stanol.

1 piece

Type	Packaging	Ref.	€
M.M.705	1 litre	07 MM705 30	12,90
M.M.705	Pulmatic 350 cc	07 MM705 50	26,70

### SERIES M.M.712 - WS (Water Soluble)

Aqueous lubricating fluid for polishing applications. This fluid is recommended for use with Bio DIAMANT® 100 series pastes. Ready to use, its specific formula limits the heating of the supports and facilitates the cleaning of the parts after each cycle of work. Easily cleanable with 742 detergent.

1 piece

Type	Packaging	Ref.	€
M.M.712	1 litre	07 MM712 30	13,90
M.M.712	Pulmatic 350 cc	07 MM712 50	24,30



# GENERAL TERMS AND CONDITIONS OF SALE

## 1. Application of General Terms & Conditions of Sale

All orders placed with Lam Plan imply acceptance by the client, without any reservation, of all the General Terms and Conditions of Sale as set forth here below.

Client orders shall be registered by Lam Plan only in accordance with these General Terms and Conditions of Sale, regardless of contrary provisions, if any, that may be contained in the purchase order or in the general terms and conditions of purchase of the client, unless they have been expressly accepted in writing by Lam Plan.

The waiver by Lam Plan of one or more provisions of these General Terms and Conditions of Sale does not imply the waiver of any other provisions thereof which shall remain effective and binding upon the client.

The present General Terms and Conditions of Sale may be amended at any time without prior notice by Lam Plan, with the amendments thereafter being applicable to all subsequent orders.

The Client acknowledges being fully aware that their agreement with respect to the contents of these General Terms and Conditions of Sale does not require their signing of this document.

## 2. Orders

The sale shall be deemed to have been completed only upon acceptance of the order from the client by Lam Plan.

The products shall be supplied and invoiced at the relevant price rates in effect at the time of placing of the order or, where applicable, in accordance with the specific commercial proposal addressed to the client and accepted by them.

Any eventual amendments to the order subsequently made by the client shall be taken into account, only within the limits of the possible options available and at the sole discretion of Lam Plan, and provided that they have been notified in writing to Lam Plan at least fifteen days prior to the date scheduled for delivery, accompanied with the issuance of a new specific purchase order duly signed by the client, including, where appropriate, a price adjustment.

## 3. Prices

The prices indicated in the Lam Plan catalogues are provided for illustrative purposes only and are not binding upon Lam Plan.

Appropriate invoices shall be issued in accordance with the price rates in force on the date of the order.

Unless otherwise specified in writing, all rates and prices are expressed in Euro and quoted net, ex works, exclusive of taxes and packaging.

As a consequence, the client shall bear all costs related to VAT at the applicable rate, transportation costs, fees and duties as well as any expenses associated with insurance.

Special pricing terms and conditions may be applicable depending upon the specifications requested by the client, particularly concerning the specific modalities, terms and timelines of delivery, timing and terms and conditions of payment.

In this event a special commercial offer shall be prepared and sent to the client by Lam Plan.

## 4. Payment

The quoted price shall be payable in full in one single payment within a period of thirty days from the date of issue of the invoice, end of the month.

In case of late payment, Lam Plan may suspend any pending orders without prejudice to the application of late payment penalty fees that will be due as of the day following the settlement date as indicated on the invoice, applicable on the full amount/s due, calculated at three times the interest rate in effect on the date of implementation of this provision and applied by the European Central Bank.

Moreover, and in accordance with Article L 441-6 of the Code de Commerce (French Commercial Code), in addition to late payment penalties, the client shall be required to pay a lump sum amount of 40 Euros for recovery costs, with Lam Plan however, reserving the right to seek additional compensation on upon presentation of supporting documentation, corresponding to the recovery costs incurred, in excess of the lump sum amount.

## 5. Retention of Ownership Title

Lam Plan retains the right to reserve ownership title of the goods delivered to the client until payment has been made in full, inclusive of principal, interest and ancillary costs.

However, the risks relating to the goods shall be transferred to the client immediately upon delivery and, for the entire period of time corresponding to the Retention of Ownership Title by Lam Plan.

Client shall agree, therefore, to take out appropriate insurance policies to provide adequate coverage against the risk of loss, theft or destruction of the goods prior to full payment being made.

Without prejudice to any subsequent action or claim for compensation for damages, Lam Plan may terminate the sale, with the aforementioned goods being subject to repossession in totality by Lam Plan without prior notice provided thereof, in the event of non payment of any invoices that become due.

The client shall refrain from pledging as collateral or assigning ownership of the said goods until such time as they have fully settled the payment corresponding to the price thereof.

In the event of the client becoming the subject of bankruptcy proceedings or getting involved in any other event making it impossible to pay for the goods delivered by Lam Plan and where the goods were to be sold in part or whole by the client to a subsequent purchaser, without the subsequent purchaser being discharged from the liability of paying the sale price, with respect to the client, the client shall agree to promptly provide Lam Plan with all information necessary for Lam Plan to make any eventual claim on the goods, against the corresponding claim related to the sale price still owed by the subsequent purchaser.

## 6. Delivery

Delivery dates and time lines are purely indicative, provided only for informative purposes and as such, are in no way guaranteed.

In this regard, Lam Plan's obligation is an obligation in terms of means and not an obligation in terms of result.

As a consequence, possible delays in delivery therefore may not be considered grounds for the cancellation of the order, refusal of the goods, the allocation of penalties or any claim for compensatory damages.

Lam Plan shall therefore not be held responsible for any delays in or suspension of delivery, errors, disruptions attributable to their service providers, contractors and / or subcontractors, or due to any unforeseeable fortuitous circumstances or force majeure events, as recognised by the French courts.

The Lam Plan warehouses shall constitute the place of delivery.

This rule shall not be subject to any derogation whatsoever on account of the management, in whole or in part, of the transportation of goods by Lam Plan.

In such a case, Lam Plan shall act in the capacity of a mere agent of the client, with the transportation risks being entirely borne by the client.

Unless otherwise stipulated in relevant provisions, the goods shall be transported at the sole risk and expense of the client, by carrier, and shall be delivered to the address indicated by them in the purchase order.

The client shall be responsible for checking and verifying the condition of the goods upon receipt.

In the event of goods that are missing or that have been damaged in transit, the client shall undertake to express all the necessary reservations on the delivery note or transportation waybill, upon receipt of the said goods.

In addition, these reservations must be confirmed to the carrier in accordance with Article L 133-3 of the French Commercial Code, in writing, within three days following the receipt of goods, by registered letter with acknowledgment of receipt.

It shall be up to the client to exercise their rights in respect of any eventual claims against the carrier or carriers.

#### **6bis. Return**

Returns of goods for other reasons than non-conformity may be made within 15 days from the date of receipt of the delivery, subject to prior written notification by the customer.

The shipping or return costs are at the customer's expense. The return of the product(s) must be made in its original packaging and in good condition. All damaged, spoiled, incomplete or soiled products will not be refunded. LAM PLAN reserves the right to decide whether or not to issue a refund after quality control.

#### **7. Limited warranty**

New materials and equipment sold by LAM PLAN are guaranteed against any manufacturing risk for a period of one year from the date of invoice of the delivered material.

The purchaser is obliged to check the condition of the materials and equipment immediately after receipt and must notify LAM PLAN within 10 days after receipt if any defects are discovered.

LAM PLAN then undertakes, at its own discretion, to remedy any malfunction during the warranty period, either by repairing the product, replacing the product or refunding the purchase price, provided that the materials and equipment have been used in normal conditions, with LAM PLAN brand products and with regular maintenance.

The warranty does not cover repairs due to:

- the use of materials supplied by the customer or of a design imposed by him;

- incidents due to fortuitous events or force majeure, normal wear and tear of the product, negligence of the customer, lack of supervision or maintenance, or non-conforming, inappropriate or improper use;

- storage or packaging conditions that do not comply with professional rules and practices or with the specificities of the product;

- defects in assembly or implementation by the customer, or the actions of a third party;

- modifications or repair work carried out by the customer or a third party without the prior written authorization of LAM PLAN.

Furthermore, LAM PLAN does not grant any warranty regarding:

- the actual performance of the Products, other than their ability to meet the specifications set by LAM PLAN;

- the electronic components of the Products or their associated accessories, including but not limited to printed circuit boards and integrated circuits.

The customer is obliged to give LAM PLAN the necessary time and means to carry out the necessary repairs and/or replacements, failing which LAM PLAN's warranty will no longer be due to the customer.

LAM PLAN's warranty is, therefore, strictly limited as indicated above.

By express agreement, all damages of any nature whatsoever resulting from damage inherent in the defects of the goods are excluded from the guarantee.

#### **9. Copyright**

Ownership of copyrights for all documents in all classes is retained by Seller. Buyer is granted a license to make, without further approval by Seller, a limited number of copies, in whole or in part, of a document, so long as the copied portion includes the applicable copyright and trademark statements found on the original document.

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#### **10. Applicable Law**

All provisions of these General Terms and Conditions of Sale are exclusively subject to French law with respect to the interpretation and enforcement thereof.

#### **11. Assignment of Jurisdiction**

Any dispute arising from the interpretation and / or enforcement of these General Terms and Conditions of Sale shall be subject to a process of discussion and consultation with a view to achieving an amiable settlement.

Failing such a settlement being obtained within a period of two months from the date the dispute was notified and acknowledged, the dispute shall be brought before the Tribunal de Commerce de Paris (Commercial Court of Paris) who will have sole jurisdiction in the matter.

This clause shall be applicable, including in the event of summary proceedings, fixed date petition hearings and proceedings, incidental claims, plurality of defendants or third parties, and without the possibility of any hindrance thereto arising from the jurisdiction assignment clauses contained in the client's documents.



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