



## 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).



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

## CATALOGS

The 4 catalogues in English

Download in PDF format LAM PLAN the LAM PLAN catalogs and find all the polishing technologies.



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## MANUALS

Instructions for use

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



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



## 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.



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## LAM PLAN S.A.S.

7 rue des Jardins  
BP 15  
74240 Gaillard - France  
Tel. +33 (0)4 50 43 96 30  
Fax: +33 (0)4 50 87 01 60  
email: mmsystem@lamplan.fr

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



## Contact our technical team

email: [biodiamant@lamplan.fr](mailto:biodiamant@lamplan.fr)

## For all questions

Tel. +33 (0)4 50 43 96 30

## Social networks

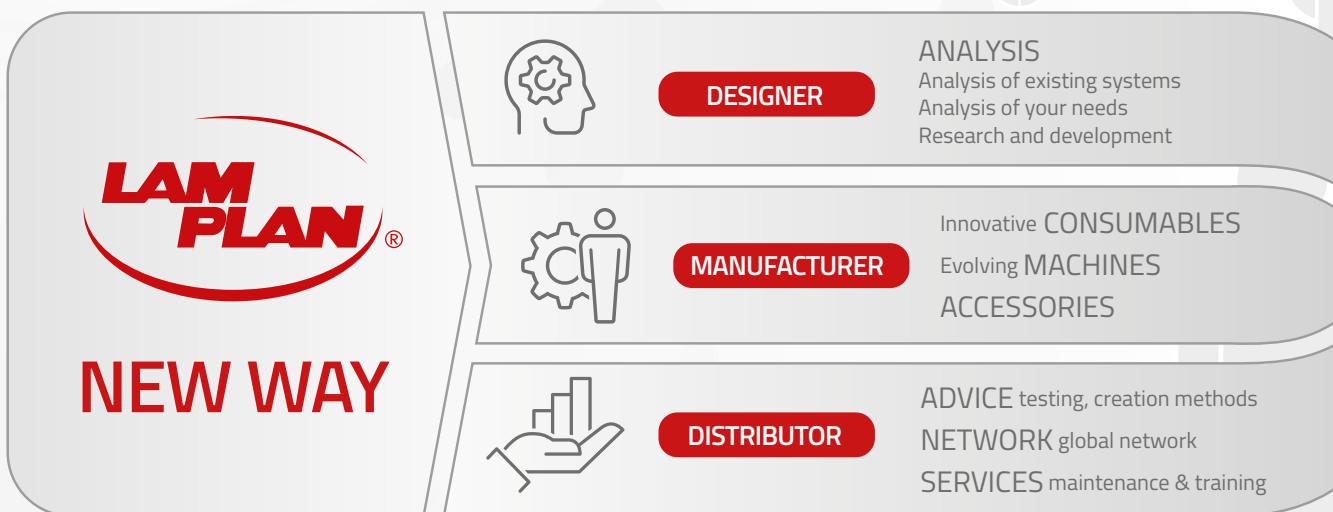
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## LAM PLAN NEW WAY

, is a commitment to devote all our resources to working together to find innovative and effective solutions that will enable you to achieve new goals in

### SURFACE PREPARATION



#### Innovative consumables

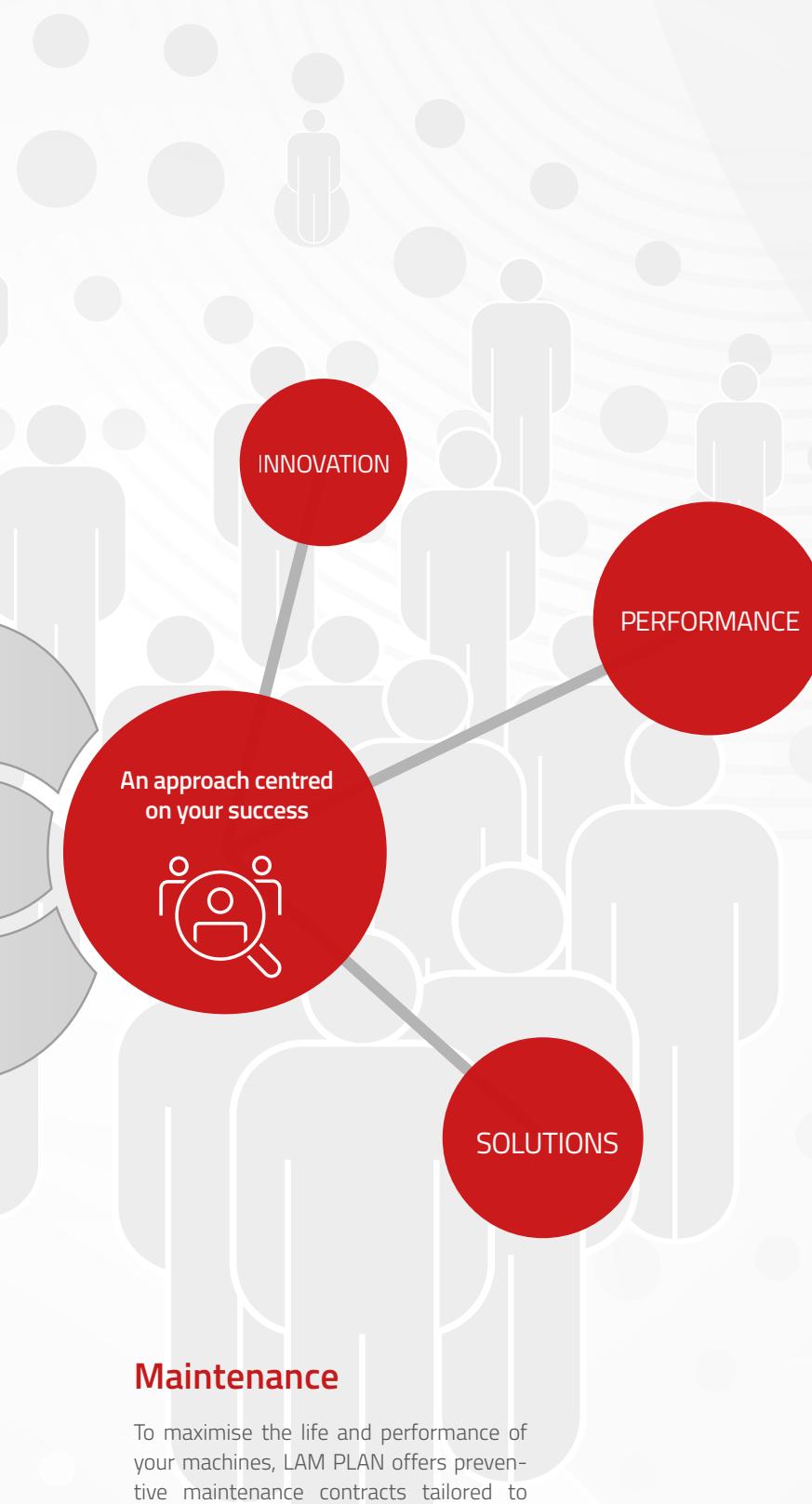
Our expertise extends from analysis to the development of products and processes to meet the specific requirements of each application. Whether we're talking about abrasives or substrates, thanks to our research and commitment we make metallography and lapping easier and more efficient. We work every day to create consumables that are easier to use, more respectful of the health of users and the environment, without compromising on quality.

#### Technical support

Our ability to continually innovate enables us to meet the specific challenges of each customer. LAM PLAN is committed to designing bespoke solutions through a dedicated test centre, where we model and test surface preparation methods prior to production on site. Our manufacturing and quality control processes ensure that each solution precisely meets the end-user's expectations.

#### Scalable machines

Every project is unique and requires tailored solutions. That's why we offer a complete range of machines and consumables designed to meet the specific needs of each customer.



## Maintenance

To maximise the life and performance of your machines, LAM PLAN offers preventive maintenance contracts tailored to each piece of equipment. These regular interventions ensure that the condition of your machines is monitored, reduce breakdowns and optimise management of production stoppages.

## POLISHING TECHNOLOGY®

We specialise in the design and manufacture of innovative solutions for lapping, polishing and metallography. For decades, we have been committed to providing our customers with state-of-the-art equipment and high-quality consumables, meeting the most stringent requirements.

the most stringent requirements. Our solutions cover a wide range of industrial needs, guaranteeing precise and reliable results for surface finishing in all sectors of activity.



Take a virtual tour of our test centre on  
[360en.lamplan.com](http://360en.lamplan.com)



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## CERTIFIED COMPANY **ISO 9001**

ISO 9001 certification is the cornerstone of our approach to continuous improvement and to taking account of our customers' needs so that we can respond in the most appropriate way. This certification of quality management within our organisation provides you with the guarantee of ongoing monitoring of the performance of our system, our products and our services, our objective : **customer satisfaction.**

# THE COMMERCIAL NETWORK



LAM PLAN is present throughout the world thanks to an extensive network of technical and commercial partners, made up of skilled professionals ready to meet your lapping, polishing, metallography and shape polishing needs.



## Worldwide sales network



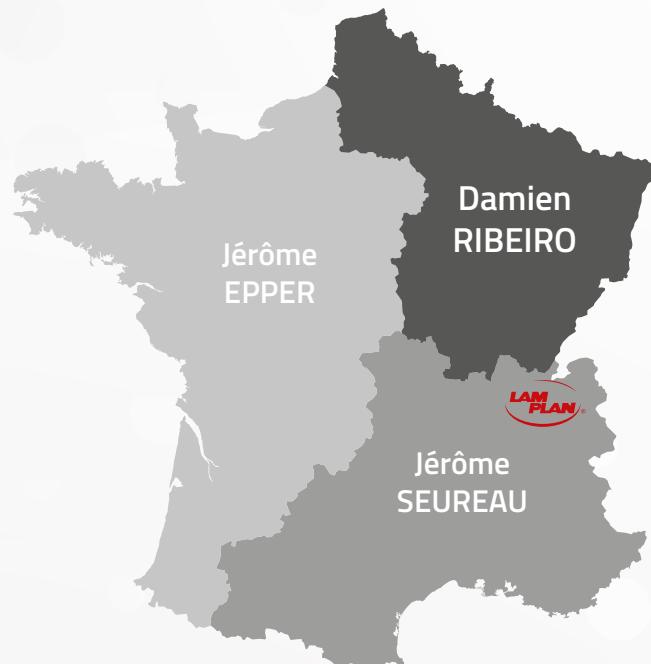
If you are looking for a LAM PLAN subsidiary or distributor LAM PLAN in the world, find the country of your choice from the list of our distributors on our website with this flash code.

All requests from other countries are handled directly by our head office in France.

Languages spoken : English, Italian, German and French.

## French sales network

North - North East		Paris and West		South East	
Damien RIBEIRO		Jérôme EPPER		Jérôme SEUREAU	
Departments		Departments		Departments	
02	59	14	49	01	38
08	60	16	50	03	42
10	62	17	53	04	43
21	67	18	56	05	46
25	68	19	61	06	48
39	70	22	64	07	63
51	71	23	72	09	65
52	80	24	75	11	66
54	88	27	76	12	69
55	89	28	77	13	73
57	90	29	78	15	74
58		33	79	26	81
		35	85	30	82
		36	86	31	83
		37	87	32	84
		40	91	34	
		41	92		
		44	93		
		45	94		
		47	95		



# A SALE TEAM AT YOUR SIDE

We are proud to introduce our LAM PLAN sales team.

Passionate and dedicated, this sales force is made up of six talented professionals.

Each member of our team brings a unique set of skills and experience to meet the varied needs of our customers and guide them towards the most appropriate solutions.

At LAM PLAN, our sales team works with our technical and R&D teams to provide you with tailor-made solutions to meet your specific needs. We firmly believe in building lasting relationships with our customers, based on trust, integrity and innovation. Trust our team to guide you through our diverse range of products and services.

We are here for you  
every step of the way.



## Daniel FERRAT

Sales Director

⌚ +33 (0)6 07 28 79 52  
dferrat@lamplan.fr

With 35 years' experience in the polishing and lapping industry, Daniel began his career in France as a salesman. From 2001, he played a central role in LAM PLAN's export development. Daniel took over the management of our team in 2020 with determination and strategic vision. His leadership inspires our team to achieve excellence and exceed customer expectations.



## Guillaume LARDON

Export area manager  
Europe - North and East

⌚ +33 (0)7 86 81 41 08  
glardon@lamplan.fr

Guillaume joined LAM PLAN's export department in 2016.

Building on the experience he gained at the head office,

he decided to get more involved in the field as of 2018.

He is in charge of prospecting and development  
in Northern and Central Europe.

Through his commitment, Guillaume maintains strong  
relationships with our strategic customers and distributors.



## Julien CARRIER

Technical expert  
France and exports

⌚ +33 (0)6 86 07 53 71  
jcarrier@lamplan.fr

Julien, our technical expert, has in-depth knowledge  
of our machines, products and services. He is the link between  
customers' needs and LAM PLAN's innovative solutions.  
Julien assesses our customers' investment needs  
and organises the commissioning, maintenance or upgrading  
of existing equipment.



## Jérôme EPPER

France - Paris and West

⌚ +33 (0)6 44 18 92 02  
jepper@lamplan.fr



## Damien RIBEIRO

France - North, North East

⌚ +33 (0)6 07 28 79 51  
dribeiro@lamplan.fr



## Jérôme SEUREAU

France - South East

⌚ +33 (0)6 07 28 79 50  
jseureau@lamplan.fr

## Commercial technicians France

Sales force for France, from their  
respective sectors, they collaborate  
fully in growing the business,  
identifying new opportunities and  
establishing promising relationships with our customers. Jérôme  
E., Damien and Jérôme S. are  
experienced professionals with  
in-depth knowledge of their areas  
of responsibility. The experience  
and training they have acquired  
have enabled them to become  
specialists in surface preparation.

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# EQUIPMENT



## MICROMOTORS

### Controller for new-generation micromotors

#### M.M.882 CONTROLLER with speedometer

NEW

Dedicated to the new V20 and V35 micromotors. FEATURES: Digital speed display, automatic torque control with overload alarm, 8-level load indicator, automatic detection of connected accessories and micromotor and controller self-diagnosis function. Variable speed controlled manually or by foot pedal (optional). Accepts older generation micromotors without speed feedback to the controller.

**Accessories supplied:** 2 handpiece holders.

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

#### M.M.882 CONTROLLER Data sheet

Type	For rotary and alternative engines	Voltage output	DC3-30 V (2 outputs)
Dimmer switch	Manual on controller and pedal	Dimensions W x H x D	200 x100 x 180 mm
Direction of rotation	2	Weight	2,3 kg
Voltage supply	AC 230 V - 50/60 Hz - 30 VA	Reference	10 88230 00

### V20 MICROMOTOR - STRAIGHT ROTARY - HIGH TORQUE

NEW

New head offers enhanced dust protection and greater precision for ultra-precise work. On/off control. Speed feedback on controller.

**Accessories supplied:** mors Ø 2,35 et 3,00 mm.

**Compatibility:** M.M.882 controller (M.M.880 and M.M.885 with adapter 10 88002 00).

#### Data sheet MICROMOTEUR V20

Type	Rotary micromotor	Voltage output	DC 3-30 V - 0,2 to 0,4 A
Speed	1000 to 20 000 tr/min	Dimensions	Ø max. 28 mm L 157 mm
Torque	5,4 Ncm	Weight (without cable)	220 gr
Compatible jaws	Ø 2,35, 3,00 and 3,175 mm	Reference	10 V2000 00

### V35 MICROMOTOR - STRAIGHT ROTARY - HIGH SPEED

NEW

New head offers enhanced dust protection and greater precision for ultra-precise work. On/off control. Speed feedback on controller.

**Accessories supplied:** jaws Ø 2.35 and 3.00 mm.

**Compatibility:** M.M.882 controller (M.M.880 and M.M.885 with adapter 10 88002 00).

#### Data sheet MICROMOTOR V35

Type	Rotary micromotor	Voltage output	DC 3-30 V - 0,2 à 0,4 A
Speed	1000 à 35 000 tr/min	Dimensions	Ø max. 28 mm L 157 mm
Torque	6,4 Ncm	Poids (hors câble)	220 gr
Compatible jaws	Ø 2,35, 3,00 et 3,175 mm	Référence	10 V3500 00

### ADAPTER CABLE

NEW

Used to connect V20 and V35 micromotors to M.M.880 and M.M.885 controllers.

Type	Qty.	Ref.
Adapter cable	1	10 88002 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

### 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)
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
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

Combined with the M.M.880, M.M.885 and M.M.882 controllers, the foot pedal regulator provides start/stop functions and foot speed control.



#### FOOT PEDAL REGULATOR Data sheet

Compatible controllers	M.M.880 and M.M.885	M.M.882
Functions	On/off and dimmer	On/off and dimmer
Cable	L 1,85 m	L 1,85 m
Reference	10 88034 00	10 88234 00

## 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, M.M.885 and M.M.882 controllers.

#### STRAIGHT RED ROTARY MICROMOTOR Data sheet

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 to 0,4 A
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, M.M.885 and M.M.882 controllers.

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

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 to 0,4 A
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, M.M.885 and M.M.882 controllers.

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

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 to 0,4 A
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, M.M.885 and M.M.882 controllers.

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

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 à 0,4 A
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 and M.M.882 controllers



## GREEN BENT 120° ROTARY MICROMOTOR Data sheet

Type	Rotary micromotor	Voltage output	DC3-30 V - 0,2 to 0,4 A
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

## M.M.886 CONTROLLER and micromotor package

## M.M.886

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

**Accessories supplied:** 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 to 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

## 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.



## Fiche technique MICROMOTEUR M.M.886

Type	Rotary micromotor for M.M.886	Voltage output	DC3-30 V - 0,2 to 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

## Alternating micromotors

### BLACK MICROMOTOR - CROSS-FILER

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, M.M.885 and M.M882 controllers.

#### BLACK MICROMOTOR - CROSS-FILER Data sheet

Type	Scanning alternating micromotor	Voltage output	DC3-30 V - 0,2 to 0,4 A
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

### BLACK MICROMOTOR - LONGITUDINAL FILE NEW

This polishing/liming micromotor is the natural choice for working in tight, confined spaces. Its compact dimensions and easy handling make it excellent for polishing and finishing applications on small, hard-to-reach surfaces.

**Accessories supplied:** jaws Ø 3.6 mm.

**Compatibility :** M.M.880, M.M.885 and M.M.882 controllers.

**Weight of inserted tool:** max. 10 g, recommended 1 to 10 g.

#### BLACK MICROMOTOR - LONGITUDINAL FILE Data sheet

Type	Micromoteur linéaire	Voltage output	DC 3-30 V - 0,2 to 0,4 A
Speed	800 à 8 000 osc./min.	Dimensions W x H x D	Ø max. 31,6 mm L 200 mm
Torque	9,8 Ncm	Weight (without cable)	340 gr
Course	1,0 mm	Reference	10 88049 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, M.M.885 and M.M882. controllers.

#### GREY FILING MICROMOTOR Data sheet

Type	Linear alternating micromotor	Voltage output	DC3-30 V - 0,2 to 0,4 A
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

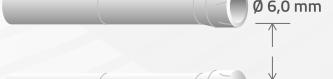
## Tool clamp NEW

For retaining running-in rods on reciprocating engines.

Type	Axis	Tool clamping	Jaw width	Ref.
Clamp	Ø 3,5 x 30 mm	up to 8 mm thick	11 mm	40 LI000 10

## MICROMOTORS

## Jaws for micromotors

Characteristics	Compatibility	Ref.	
<b>Ø 2,35 mm</b>	<ul style="list-style-type: none"> <li>- Straight red rotary device</li> <li>- Green bent 90° rotary device</li> <li>- Green bent 120° rotary device</li> <li>- "Super light" rotary device</li> <li>- M.M.886</li> </ul>	10 1090 13	
<b>Ø 3,0 mm</b>	<ul style="list-style-type: none"> <li>- Straight red rotary device</li> <li>- Green bent 90° rotary device</li> <li>- Green bent 120° rotary device</li> <li>- "Super light" rotary device</li> <li>- M.M.886</li> </ul>	10 1090 07	
<b>Ø 3,175 mm</b>	<ul style="list-style-type: none"> <li>- Straight red rotary device</li> <li>- Green bent 90° rotary device</li> <li>- Green bent 120° rotary device</li> <li>- "Super light" rotary device</li> <li>- M.M.886</li> </ul>	10 1090 11	
<b>Ø 6,0 mm</b>	- Straight red rotary device with reinforced head	10 1090 07	
<b>Ø 3,0 mm</b>	- Straight red rotary device with reinforced head	10 1072 51	

## 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

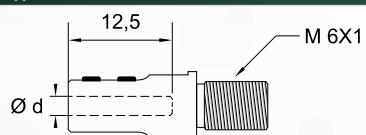
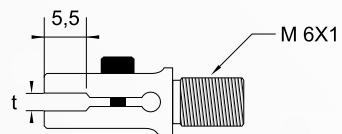


## ULTRASONIC HEAD Data sheet

Type	Ultrasonic micromotor	Voltage	AC 6-60 V 22,6 KHz
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

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



## 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 micro-motor	Air consumption	46 NL/min.
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.
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

## ACCESSORIES AND MAINTENANCE

### 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



### Swivel vice

NEW

With hardened steel serrated jaws.

#### Swivel vice Data sheet

Jaw width	80 mm jaws	Height/work surface	257 mm
Workbench plate	up to 75 mm thick	Weight	9,14 kg
Ball joint tilt	+/- 50°	Reference	06 00660 30
Dimensions	L x H x P 120 x 450 x 240 mm		



### Replacement carbon brushes for micromotors

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



### 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

## TOOLS



### Disc holders series 9904

Holders for self-adhesive discs, used in rotation.

5 pieces

Ø in mm	Shaft: Ø 3 mm	Ref.
18		99 04018 00
30		99 04030 00



### Rectangular holder

Active zone: 10 x 20 mm.

Shaft : Ø 3 L : 60 mm

Type	Ref.
Articulated	99 09905 20



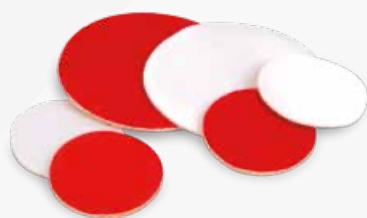
### Self-adhesive abrasive discs

For small surface rough polishing, used in rotation.

#### SERIES 9950

50 pieces

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



### Self-adhesive polishing discs

#### SERIES 9914

50 pieces

Type	Ø in mm	Ref.
1450 woven	18	99 01450 10
1431 felt	18	99 01431 10
1450 woven	30	99 01450 30
1431 felt	30	99 01431 30

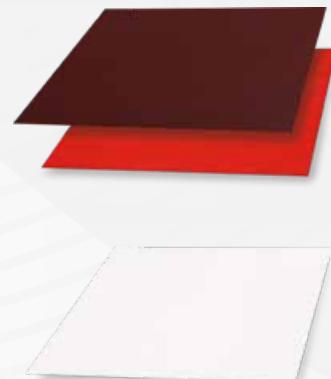
Tools on sticks, diamond rasps, lapping rods, polishing supports and abrasive stones.

## TOOLS

## Self-adhesive polishing squares

### SERIES 400

Polishing cloths for contour work		
Type	mm	Ref.
437 brown felt	150 x 150	04 C0437 10
	200 x 200	04 C0437 20
431 red felt	150 x 150	04 C0431 10
	200 x 200	04 C0431 20



### SERIES 4400

Polishing cloths for contour work		
Type	mm	Ref.
4450 white woven	150 x 150	04 C4450 10
	200 x 200	04 C4450 20



## Prepolishing discs

### CAMEO® PLATINIUM

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





## 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		3,1 x 9	46 30850 00
	3,5 x 3,5	46 35350 00		4,8 x 13	46 48130 00
	1,6 x 1,6	46 16160 00		8,0 x 13	46 80130 00
	1,8 x 1,6	46 18160 00		3,1 x 9	46 30900 00
	2,7 x 2,5	46 27250 00		5 x 13	46 48131 00
	3,7 x 3	46 37300 00		2,7 x 8,5	46 27850 00
	4,7 x 3	46 47300 00		3,1 x 9	46 31851 00
	2,9 x 6	46 30600 00		2,1 x 7	46 21701 00
	4,7 x 1,5	46 47150 00		3,1 x 8,5	46 31852 00
	8,0 x 2,5	46 80220 00		1,6 x 6,5	46 16651 00
	16 x 3	46 16270 00		3,1 x 8,5	46 31853 00
	22 x 3	46 22270 00		3,1 x 8,5	46 31854 00
	8,0 x 0,6	46 80050 00		5 x 10	46 48100 00
	4,7 x 1	46 47100 00		5 x 8	46 48800 00
	2,7 x 9	46 27800 00		4,8 x 13	46 48132 00
	3,1 x 8,5	46 31850 00		5 x 13	46 48133 00
	5,0 x 13	46 50130 00		8,0 x 13	46 80131 00
	1,6 x 6,5	46 16650 00		8,0 x 3,5	46 80300 00
	2,1 x 7	46 21700 00		22 x 0,3	46 22100 00
	2,7 x 8	46 27801 00		22 x 0,4	46 22200 00
				22 x 0,5	46 22300 00

## TOOLS

## SERIES 7400

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



## 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

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



## GRAIN 150

## GRAIN 320

Stem			Cap	
Type	mm	mm	Ref.	Ref.
	Ø 3	Ø 7 L 10	40 CA071 10	40 CA073 10
	Ø 3	Ø 12 L 15	40 CA121 20	40 CA123 20
	Ø 6	Ø 18 L 26	40 CA181 30	40 CA183 30
	Ø 3	Ø 7 L 11	40 CA071 40	40 CA073 40
	Ø 3	Ø 12 L 15	40 CA121 50	40 CA123 50
	Ø 6	Ø 18 L 26	40 CA181 60	40 CA183 60
	Ø 3	Ø 7 L 11	40 CA071 70	40 CA073 70
	Ø 3	Ø 12 L 15	40 CA121 80	40 CA123 80
	Ø 6	Ø 18 L 26	40 CA181 90	40 CA183 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		7 x 4
	9 x 3	40 CR902 00		8 x 4
	8,5 x 2,2	40 CR853 00		2,5 x 6
	4 x 1,2	40 CR404 00		5 x 6
	5,5 x 3	40 CR555 00		6 x 6
	7/3,5 x 6	40 CR706 00		5 x 2
	5/2 x 2,7	40 CR507 00		6 x 2,3
	6,5/2 x 3	40 CR658 00		3,5/2 x 10
	8/3,5 x 4	40 CR809 00		5,5/3,5 x 10
	3/2 x 4	40 CR310 00		3,3/2,2 x 6,2
	5/3 x 5	40 CR511 00		3/4,6 x 10
	7/5 x 6	40 CR712 00		5 x 3,2
	3 x 6	40 CR313 00		5 x 7
	4 x 6	40 CR414 00		6 x 8
	5 x 6	40 CR515 00		4,3 x 7
	3 x 6	40 CR316 00		6,2 x 10
	4 x 4	40 CR417 00		6,3 x 10
	6 x 8	40 CR618 00		Kit 36 pieces
	3 x 2	40 CR319 00		40 CR363 70

## TOOLS

## Grinding points Ruby sapphire

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

### GRAIN 100

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



## Grinding points Silicon carbide

### GRAIN 120

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



## Carbide end mills

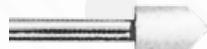
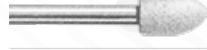


Type	*Kit	mm	1 piece
			Ref.
Shaft: Ø 3 mm - Length: 38 mm			
		3,0 x 14	40 FC301 00
	✓	2,5 x 11	40 FC252 00
	✓	1,5 x 6	40 FC153 00
		Ø 3	40 FC304 00
	✓	3 x 14	40 FC305 00
	✓	2,5 x 11	40 FC306 00
	✓	3 x 12	40 FC257 00
		3 x 6	40 FC308 00
		3 x 12	40 FC309 00
	✓	3 x 10	40 FC310 00
		3 x 6	40 FC311 00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

## TOOLS

## Rotary polishing felts

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

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



Shaft: Ø 6 mm - Length: 40 mm					
Type	mm	Ref.	Type	mm	Ref.
	10 x 12	40 FR102 00		15 x 20	40 FR152 50
	15 x 20	40 FR152 10		20 x 20	40 FR202 20
	20 x 20	40 FR202 20		25 x 30	40 FR252 30
	25 x 30	40 FR252 30		30 x 35	40 FR303 70
	20 x 30	40 FR202 40		30 x 20	40 FR302 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		22 x 0,5	40 FR225 10
	12/8 x 12	40 FR120 10		22 x 5	40 FR225 00

## 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	Ø 10 L 20	Hard wood	99 08416 01
	Soft wood	99 08411 01		Soft wood	99 08417 01
	Felt	99 08412 01		Felt	99 08418 01
Ø 15 L 25	Hard wood	99 08413 01	Ø 6 L 15	Hard wood	99 08419 01
	Soft wood	99 08414 01		Soft wood	99 08420 01
	Felt	99 08415 01		Felt	99 08421 01

## 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	Ø 13 L 20	Hard wood	99 08434 01
	Soft wood	99 08429 01		Soft wood	99 08435 01
	Felt	99 08430 01		Felt	99 08436 01
Ø 10 L 30	Hard wood	99 08431 01	Ø 9 L 15	Hard wood	99 08437 01
	Soft wood	99 08432 01		Soft wood	99 08438 01
	Felt	99 08433 01		Felt	99 08439 01

## Spherical rotary accessories



### SERIES 9908

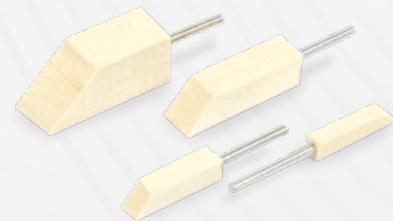
10 pieces

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

## TOOLS

## Felt lapping rods

Shaft: Ø 3 mm		10 pieces
Dim. (mm)	Ref.	
6 x 6 L 25/30	99 08478 10	
8 x 8 L 25/30	99 08478 20	
10 x 10 L 22/30	99 08478 30	
12 x 12 L 35/45	99 08478 40	
18 x 18 L 15/30	99 08478 50	



## Polishing grinding brushes

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

Type	mm	Material	Ref.	10 pieces
	Ø 21 x 2	Brass	40 BR210 00	
	Ø 21 x 1	Black silk	40 BR211 00	
	Ø 22 x 1	Natural fiber	40 BR212 00	
	Ø 19 x 2	Brass	40 BR190 00	
	Ø 19 x 1	Black silk	40 BR191 00	
	Ø 19 x 1	Natural fiber	40 BR192 00	
	Ø 12 x 6	Brass	40 BR123 00	
	Ø 12 x 6	Black silk	40 BR121 00	
	Ø 12 x 6	Natural fiber	40 BR122 00	
	Ø 5,5 x 11 Ø 5,5 x 11	Brass White silk	40 BR052 00 40 BR051 00	



## Jet brushes

Ø in mm	Ref.	1 piece
4	40 BR504 00	
5	40 BR505 00	
6	40 BR506 00	
8	40 BR508 00	
10	40 BR510 00	



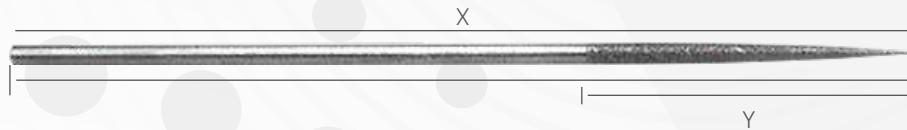


## Diamond files

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 ultra-sonic devices. Their length can be reduced simply by cutting with a diamond disc.

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

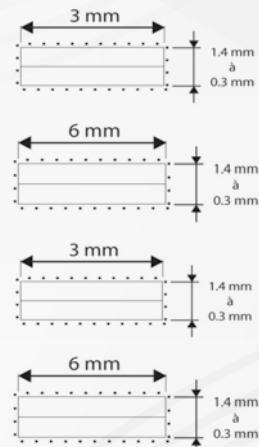
## TOOLS



Grain	Dim. (mm)	Stem	Ø in mm	Ref.	1 piece
320	X=175 - Y=40	Ø 3 mm	1	49 LD330 20	
500	X=175 - Y=40	Ø 3 mm	1	49 LD330 30	
220	X=175 - Y=50	Ø 3 mm	2,2	49 LD330 70	
220	X=200 - Y=70	Ø 3 mm	4	49 LD332 20	
220	X=175 - Y=50	Ø 3 mm	3	49 LD331 20	

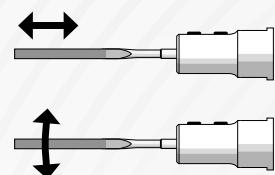
## Diamond files kit

Composition	Stem	Ref.	1 piece
12 pieces	Ø 3 mm	44 LD500 00	
<b>Kit composition</b>			
	T 15 L 72	200 400 600	1 1 1
	T 15 L 72	200 400 600	1 1 1
	T 15 L 56	200 400 600	1 1 1
	T 15 L 56	200 400 600	1 1 1



## Diamond files for micromotors

Type	Pre-polishing and fine deburring	Stem	Grain µm	Ref.	1 piece
	Ø 3 mm	140	40 LI001 00		
	Ø 3 mm	140	40 LI002 00		
	Ø 3 mm	140	40 LI003 00		



## Diamond razors

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

## 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
Type	mm	Ref.	Ref.	Ref.
	Ø 4 L 8	40 MC011 20	40 MC012 20	40 MC012 80
	Ø 6 L 10	40 MC021 20	40 MC022 20	40 MC022 80
	Ø 10 L 10	40 MC031 20	40 MC032 20	40 MC032 80
	Ø 12 L 16	40 MC041 20	40 MC042 20	40 MC042 80
Shaft: Ø 6 mm - Length: 40 mm				
	Ø 8 L 15	40 MC051 20	40 MC052 20	40 MC052 80
	Ø 12 L 20	40 MC061 20	40 MC062 20	40 MC062 80
	Ø 15 L 30	40 MC071 20	40 MC072 20	40 MC072 80
	Ø 20 L 20	40 MC081 20	40 MC082 20	40 MC082 80



## Felt polishing rings

10 pieces

Thickness: 4,5 mm		Ref.
Dimension		Ref.
Ø 18		40 FR180 10
Ø 30		40 FR300 10
Ø 45		40 FR450 10



## Felt polishing discs

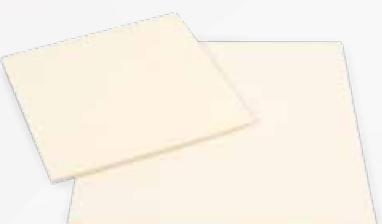
### SELF-ADHESIVE - SERIES 99014

10 pieces

Thickness: 5 mm					
Ø	Type	Ref.	Ø	Type	Ref.
12 mm	med-hard	99 01423 10	33 mm	hard	99 01424 40
	hard	99 01424 10		med-hard	99 01423 60
20 mm	med-hard	99 01423 20	50 mm	hard	99 01424 60
	hard	99 01424 20		med-hard	99 01423 70
25 mm	med-hard	99 01423 30	65 mm	hard	99 01424 70
	hard	99 01424 30		med-hard	99 01423 80
33 mm	med-hard	99 01423 40	78 mm	hard	99 01424 80

### NON-ADHESIVE - SERIES 99114

Thickness: 5 mm					
Ø	Type	Ref.	Ø	Type	Ref.
12 mm	med-hard	99 11423 10	33 mm	hard	99 11424 40
	hard	99 11424 10		med-hard	99 11423 60
20 mm	med-hard	99 11423 20	50 mm	hard	99 11424 60
	hard	99 11424 20		med-hard	99 11423 70
25 mm	med-hard	99 11423 30	65 mm	hard	99 11424 70
	hard	99 11424 30		med-hard	99 11423 80
33 mm	med-hard	99 11423 40	78 mm	hard	99 11424 80



## 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	med-hard	1 mm	99 15434 10
med-hard	5 mm	99 15423 60	med-hard	5 mm	99 15423 10
hard	5 mm	99 15424 60	hard	5 mm	99 15424 10

### SQUARE 200 mm

Self-adhesive			Non-adhesive		
Type	Thickness	Ref.	Type	Thickness	Ref.
med-hard	1 mm	99 20434 60	med-hard	1 mm	99 20434 10
med-hard	5 mm	99 20423 60	med-hard	5 mm	99 20423 10
hard	5 mm	99 20424 60	hard	5 mm	99 20424 10

## 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
Green	320	40 MF032 00
Orange	400	40 MF040 00
Pink	600	40 MF060 00
Ochre	800	40 MF080 00
Brown	1000	40 MF100 00
Blue	1500	40 MF150 00



## 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
Brown	Coarse	40 MF303 00
Brown	Medium	40 MF305 00
Brown	Fine	40 MF307 00
Green	No grain	40 MF300 00



## Wooden lapping rods hard/soft

## SERIES 9908

10 pieces

mm	Hard	Soft
	Ref.	Ref.
3 x 3 x 150	99 08510 00	99 08610 00
4,5 x 4,5 x 150	99 08511 00	99 08611 00
6,5 x 6,5 x 150	99 08512 00	99 08612 00
3 x 7 x 150	99 08513 00	99 08613 00
8 x 12,5 x 150	99 08514 00	99 08614 00
8 x 19 x 150	99 08515 00	99 08615 00
Ø 3 x 150	99 08530 00	99 08630 00
Ø 4,5 x 150	99 08531 00	99 08631 00
Ø 6,5 x 150	99 08532 00	99 08632 00



## Rectangular rubber rods 1 piece

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



## Ceramic stones

1 piece



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

## TOOLS

## Ceramic brushes

Enable careful removal of errors without damage to reaming.

Type	Dim. (mm)	Ref.	1 piece
Shaft: Ø 3 mm			
Cross-Hole	Ø 3,5 x 50 x 120	40 BR030 00	
Cross-Hole	Ø 5 x 50 x 120	40 BR057 00	
White grain 1000	Ø 5 x 20	40 BR055 00	
Red grain 1000	Ø 5 x 20	40 BR056 00	



## Sulphur stones

### SERIES 570

Dim. (mm)	Grain	Ref.	12 pieces
6 x 6 x 150	120	98 57121 00	
	150	98 57151 00	
	180	98 57181 00	
	220	98 57221 00	
	320	98 57321 00	
	400	98 57401 00	
	600	98 57601 00	
	120	98 57122 00	
	150	98 57152 00	
	180	98 57182 00	
10 x 10 x 150	220	98 57222 00	
	320	98 57322 00	
	400	98 57402 00	
	600	98 57602 00	
	180	98 57183 00	
13 x 13 x 150	220	98 57223 00	
	320	98 57323 00	
	400	98 57403 00	



## Graphite stones

### SERIES 560

Dim. (mm)	Grain	Ref.	5 pieces
6 x 6 x 150	600	98 56601 00	
	800	98 56801 00	
	1 000	98 56001 00	
10 x 10 x 150	600	98 56602 00	
	800	98 56802 00	
	1 000	98 56002 00	
13 x 13 x 150	600	98 56603 00	
	800	98 56803 00	
	1 000	98 56003 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
	320	98 51321 00
	400	98 51401 00
	600	98 51601 00
	240	98 51243 00
3 x 13 x 150	320	98 51323 00
	400	98 51403 00
	600	98 51603 00
	240	98 51242 00
	320	98 51322 00
6 x 13 x 150	400	98 51402 00
	600	98 51602 00
	240	98 51244 00
	320	98 51324 00
	400	98 51404 00
13 x 13 x 150	600	98 51604 00

### SERIES 520 - $AL_2O_3$

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
	180	98 52181 00
	320	98 52321 00
	400	98 52401 00
	600	98 52601 00
3 x 13 x 150	120	98 52125 00
	180	98 52185 00
	320	98 52325 00
	400	98 52405 00
	600	98 52605 00
6 x 6 x 150	120	98 52122 00
	180	98 52182 00
	320	98 52322 00
	400	98 52402 00
	600	98 52602 00
6 x 13 x 150	120	98 52123 00
	180	98 52183 00
	320	98 52323 00
	400	98 52403 00
	600	98 52603 00
10 x 10 x 150	120	98 52124 00
	180	98 52184 00
	320	98 52324 00
	400	98 52404 00
	600	98 52604 00

## TOOLS

## Abrasive stones

SERIES 530 -  $Al_2O_3$ 

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

Dim. (mm)	Grain	Ref.	12 pieces
6 x 6 x 150	220	98 53221 00	
	320	98 53321 00	
	400	98 53401 00	
	600	98 53601 00	
	220	98 53222 00	
10 x 10 x 150	320	98 53322 00	
	400	98 53402 00	
	600	98 53602 00	
	220	98 53223 00	
3 x 13 x 150	320	98 53323 00	
	400	98 53403 00	
	600	98 53603 00	
	220	98 53224 00	
6 x 13 x 150	320	98 53324 00	
	400	98 53404 00	
	600	98 53604 00	
	220	98 53225 00	
4 x 4 x 100	320	98 53325 00	
	400	98 53405 00	
	600	98 53605 00	



## DEGUSSIT® stones

1 piece

Dim. (mm)	Shape	Grain	Ref.
100 x 10	△	Medium	98 D1015 00
100 x 10	□	Medium	98 D1025 00
100 x 8 x 6	□□	Fine	98 D1032 00
100 x 10	△△	Big	98 D1047 00
100 x 6	○	Medium	98 D1055 00
Kit 5 pieces (1 piece of each ref. above)			98 D1000 00
100 x 6 x 3	□□	Medium	98 D1032 10



## Honing oil

1 piece

Qty.	Ref.
500 cc.	98 70000 00



## Stone-holders

1 piece

Type	Dim. (mm)	Qty.	Ref.
Metal	1 x 4	1	40 US099 00
Metal	1 x 6	1	40 US098 00
Metal	1 x 10	1	40 US097 00
Metal	Ø 3 mm	1	40 US096 00
Metal - Set of 3	1 x 4, 1 x 6, 1 x 10	1	40 US090 00
Black nylon	6 x 6 à 3 x 13	1	40 US093 00
Black nylon	6 x 13	1	40 US094 00



## Abrasive stone kit n°1

### SERIES 510

Composition	Ref.
14 pieces	98 11000 00

### 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
	510	240	2	98 51242 00
6 x 13 x 150	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

### 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
	530	220	2	98 53224 00
6 x 13 x 150	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

### 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
3 x 6 x 150	520	320	1	98 55321 00
	550	600	1	98 55601 00
	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.

## LUBRICATING FLUIDS

### 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 monocristaline		
Type	µm	Ref.
025 313	1/4	03 97313 00
1 313	1	03 01313 00
2 313	2	03 02313 00
3 313	3	03 03313 00
6 313	6	03 06313 00
8 313	8	03 08313 00
10 313	10	03 10313 00
14 313	14	03 14313 00
25 313	25	03 25313 00
40 313	40	03 40313 00



#### SERIES 320 P - 75 g

1 piece

Alcohol based polycristaline		
Type	µm	Ref.
025 323P	1/4	03 97323 00
1 323P	1	03 01323 00
2 323P	2	03 02323 00
3 323P	3	03 03323 00
6 323P	6	03 06323 00
8 323P	8	03 08323 00
10 323P	10	03 10323 00
14 323P	14	03 14323 00
25 323P	25	03 25323 00



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
■ M.M.540	1/4	02 MM547 10
■ M.M.540	3/4	02 MM546 10
■ M.M.540	1	02 MM545 10
■ M.M.540	2	02 MM544 10
■ M.M.540	3	02 MM543 10
■ M.M.540	6	02 MM542 10
■ M.M.540	9	02 MM541 10
■ M.M.530	10	02 MM533 10
■ M.M.530	15	02 MM532 10
■ M.M.530	30	02 MM531 10
■ M.M.530	45	02 MM530 10

### 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
■ M.M.40	1	02 MM045 00
■ M.M.40	2	02 MM044 00
■ M.M.40	3	02 MM043 00
■ M.M.40	6	02 MM042 00
■ M.M.40	9	02 MM041 00
■ M.M.30	10	02 MM033 00
■ M.M.30	15	02 MM032 00
■ M.M.30	30	02 MM031 00
■ M.M.30	45	02 MM030 00

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 the 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
3 213	3	01 03213 00
6 213	6	01 06213 00
8 213	8	01 08213 00
14 213	14	01 14213 00
25 213	25	01 25213 00
40 213	40	01 40213 00
60 213	60	01 60213 00
90 213	90	01 90213 00



**High performance  
Oil soluble**

5% discount from 3 products of the same reference



**Extreme polish**  
**Easy to clean**  
**with water**  
**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.

Available in different concentrations: 101 and 102 low, 103 standard, 105 high.

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
025 102	1/4	01 97102 00
025 103	1/4	01 97103 00
1 103	1	01 01103 00
1 105	1	01 01105 00
2 103	2	01 02103 00
2 105	2	01 02105 00
3 102	3	01 03102 00
3 103	3	01 03103 00
3 105	3	01 03105 00
6 101	6	01 06101 00
6 102	6	01 06102 00
6 103	6	01 06103 00
6 105	6	01 06105 00
8 102	8	01 08102 00
8 103	8	01 08103 00
8 105	8	01 08105 00
14 101	14	01 14101 00
14 102	14	01 14102 00
14 103	14	01 14103 00
14 105	14	01 14105 00

5% discount from 3 products of the same reference



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

### BIO DIAMANT® pastes 205S - 10 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 at high temperature		
Type	µm	Ref.
1.205S	1	01 012055 00
3.205S	3	01 032055 00
6.205S	6	01 062055 00
8.205S	8	01 082055 00
14.205S	14	01 142055 00

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.



1 piece

Universal bonding paste.		
Type	µm	Ref.
1 MS	1	01 010MS 00
3 MS	3	01 030MS 00
6 MS	6	01 060MS 00
8 MS	8	01 080MS 00
14 MS	14	01 140MS 00
25 MS	25	01 250MS 00
45 MS	45	01 450MS 00
60 MS	60	01 600MS 00
90 MS	90	01 900MS 00

5% discount from 3 products of the same reference

**Economical  
and versatile**

**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.

1 piece

Type	µm	10 g	20 g
		Ref.	Ref.
DIATOOL® BX1	1	01 01DBX 00	01 01DBX 20
DIATOOL® BX3	3	01 03DBX 00	01 03DBX 20
DIATOOL® BX6	6	01 06DBX 00	01 06DBX 20
DIATOOL® BX8	8	01 08DBX 00	01 08DBX 20
DIATOOL® BX14	14	01 14DBX 00	01 14DBX 20
DIATOOL® BX25	25	01 25DBX 00	01 25DBX 20
DIATOOL® BX40	40	01 40DBX 00	01 40DBX 20
DIATOOL® BX60	60	01 60DBX 00	01 60DBX 20



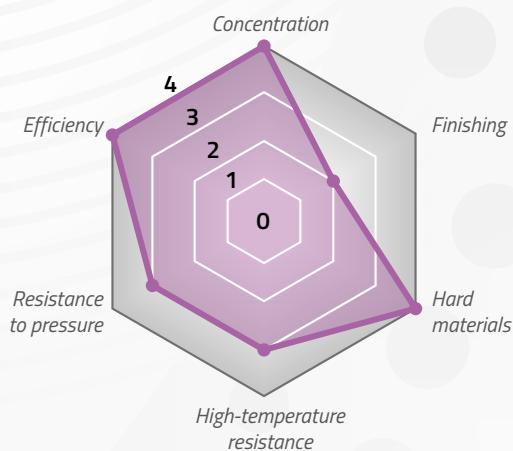
**High pressure  
Available in 10  
and 20 g**

5% discount from 3 products of the same reference

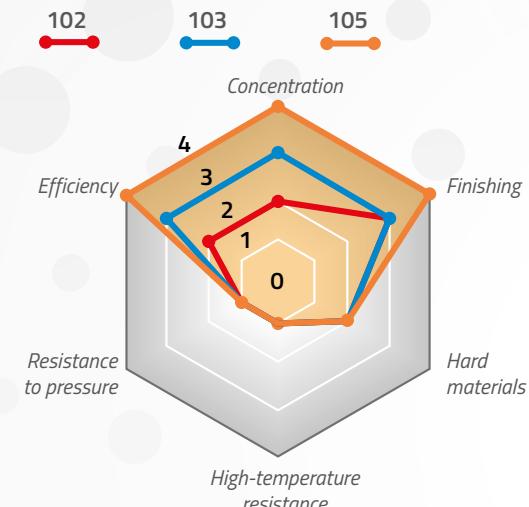
## Selection of a BIO DIAMANT® abrasive paste

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

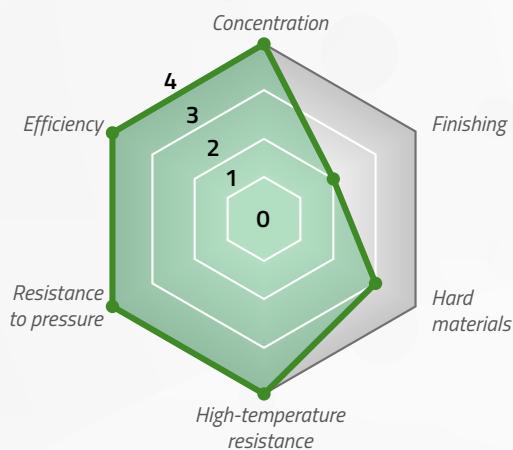
### BIO DIAMANT® PASTES SERIE 210



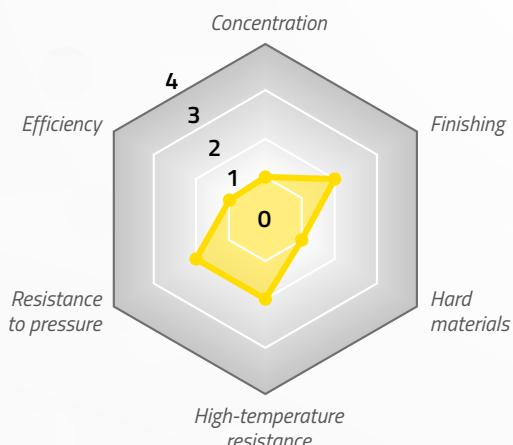
### BIO DIAMANT® PASTES SERIE 100



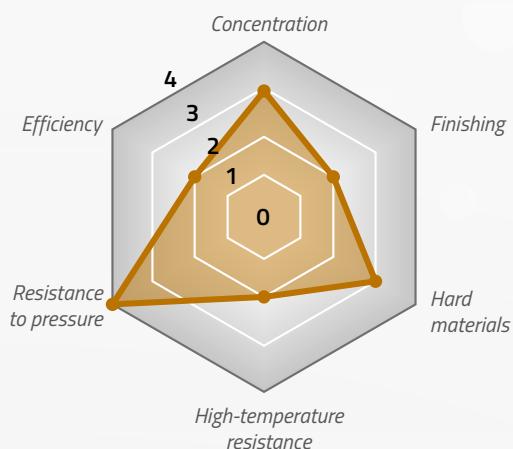
### BIO DIAMANT® PASTES 205S



### 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
M.M.705	Pulmatic 350 cc	07 MM705 50

#### 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
M.M.712	Pulmatic 350 cc	07 MM712 50



# GENERAL TERMS AND CONDITIONS OF SALE

## 1. Application of the General Terms and Conditions of Sale

Any order placed with LAM PLAN implies the customer's unreserved acceptance of the entirety of the General Terms and Conditions of Sale outlined below.

Customer orders are only recorded by LAM PLAN in accordance with these General Terms and Conditions of Sale, regardless of any contrary provisions on the customer's purchase orders or general terms, unless explicitly accepted in writing by LAM PLAN.

LAM PLAN's waiver of one or more clauses of these General Terms does not imply a waiver of any other clauses, which remain fully enforceable.

These General Terms and Conditions may be amended at any time without prior notice by LAM PLAN, with changes applying to all subsequent orders.

The customer acknowledges being fully informed that acceptance of these terms does not require signature of the document.

## 2. Orders

The sale is only considered final after LAM PLAN accepts the customer's order.

Products are provided and invoiced at the price in effect at the time of the order or, where applicable, in accordance with a specific commercial proposal accepted by the customer.

Any subsequent modifications to the order requested by the customer may be considered at LAM PLAN's discretion if notified in writing at least 15 days before the scheduled delivery date and accompanied by a new specific purchase order signed by the customer, possibly with a price adjustment.

## 3. Prices

Our quotations are valid for three months after they are issued.

Invoices are issued based on the price in effect on the order date.

Unless otherwise stated in writing, prices are in Euros, net, excluding tax, ex-works and excluding packaging.

Consequently, the customer shall bear the applicable VAT rate if any, transportation costs, any customs fees and duties, and insurance costs.

Special pricing terms may apply depending on specific requirements requested by the customer, particularly regarding delivery terms and deadlines, and payment terms and conditions.

A specific commercial offer will then be sent to the customer by LAM PLAN.

## 4. Payment

Payment must be made in full, in a single installment, within 30 days end of month from the invoice date.

In the event of late payment, LAM PLAN may suspend any ongoing orders, without prejudice to a late penalty due the day after the invoice due date, calculated on all amounts due, at a rate three times the legal interest rate in effect at the time of enforcement, as applied by the European Central Bank.

Furthermore, and in accordance with Article L 441-6 of the French Commercial Code, in addition to late penalties, the customer shall be liable for a fixed recovery fee of €40, with LAM PLAN reserving the right to claim additional compensation upon proof of recovery costs exceeding the fixed fee.

## 5. Retention of Title

LAM PLAN retains ownership of the delivered goods until full payment of the price, including principal, interest, and charges.

However, risk passes to the customer upon delivery and remains throughout the period of retention of title in favor of LAM PLAN.

The customer therefore agrees to take out insurance covering risks of loss, theft, or destruction of goods, until full payment is made.

Without prejudice to any claim for damages, LAM PLAN may cancel the sale and, without prior notice, recover all goods in question for any unpaid invoice at maturity.

The customer is prohibited from pledging or transferring ownership of the goods until full payment has been made.

If the customer becomes subject to insolvency proceedings or any event preventing payment for goods delivered, and the goods have been resold to a sub-buyer who has not paid yet, the customer agrees to promptly provide LAM PLAN with all necessary information to assert its rights over the outstanding receivable from the sub-buyer.

## 6. Deliveries

Delivery dates and deadlines are for informational purposes only and are not guaranteed.

LAM PLAN's obligation is one of means, not result. Therefore, any delay in delivery shall not result in cancellation of the order, rejection of the goods, or claims for penalties or damages.

LAM PLAN shall not be held liable for delivery delays or suspensions due to its service providers and/or subcontractors, or due to force majeure or unforeseen circumstances as defined by French jurisprudence.

LAM PLAN's warehouses are the designated place of delivery.

This rule shall not be altered by LAM PLAN's partial or full assumption of transportation costs, in which case LAM PLAN acts solely as an agent for the customer, who bears all transport risks.

Unless otherwise agreed, goods are shipped at the customer's sole expense, risk, and peril, via carrier, to the address specified on the order form.

The customer must inspect the goods upon receipt. In the event of missing or damaged goods, the customer must note all necessary reservations on the delivery slip at the time of receipt.

Such reservations must also be confirmed in writing to the carrier, in accordance with Article L 133-3 of the French Commercial Code, within three days of receipt, via registered letter with acknowledgment of receipt. It is the customer's responsibility to pursue any claims against the carrier(s).

## 7. Right of Withdrawal and Order Cancellation

For returns of standard, compliant products, the customer may exercise a right of withdrawal by:

1. Notifying their return request in writing within 10 calendar days from the product receipt date (Proof Of Delivery required);

2. Shipping the products at their own cost within 20 working days of written confirmation from LAM PLAN accepting the return.

Products must be returned in their original packaging, complete, in perfect condition, and unused. Any incomplete, damaged, or soiled product will not be refunded or exchanged.

Return costs are borne by the Customer. After verifying the condition of returned products, LAM PLAN will proceed with either a refund or issue a credit note, at its discretion.

Any request for order cancellation before product shipment or service execution must be made in writing to LAM PLAN and is subject to its acceptance.

Cancellation or withdrawal fees may be charged, at LAM PLAN's discretion, particularly to cover incurred costs and lost profit. These fees will be at least 20% of the total order amount.

Custom-made or tailored Products or Services are not subject to cancellation or withdrawal, except with LAM PLAN's express consent. In case of accepted cancellation, fees up to 100% of the order value may apply.

## 8. Limited Warranty

New equipment and materials sold by LAM PLAN are guaranteed against manufacturing defects for one year from the invoice date.

The buyer must inspect the goods upon receipt and notify LAM PLAN within 10 days of any discovered defects.

LAM PLAN will, at its discretion, remedy any defect during the warranty period by repairing, replacing, or refunding the product, provided it was used under normal conditions with LAM PLAN brand products and maintained properly.

The warranty does not cover:

- Use of materials provided by the customer or designs imposed by the customer;
- Force majeure, normal wear and tear, customer negligence, lack of supervision or maintenance, or improper use;
- Inappropriate storage or packaging conditions;
- Assembly or implementation faults by the customer or a third party;
- Modifications or repairs made by the customer or a third party without LAM PLAN's prior written authorization.

LAM PLAN provides no warranty for:

- The actual performance of the Products, other than compliance with specifications defined by LAM PLAN;
- Electronic components or associated accessories, including printed circuit boards and integrated circuits.

The customer must allow LAM PLAN sufficient time and means to make necessary repairs or replacements, failing which the warranty shall be void.

LAM PLAN's warranty is strictly limited as stated above.

All damages of any kind arising from defects in goods are expressly excluded from the warranty.

## 9. Assembly and Commissioning

Assembly and commissioning are not included in the delivery.

Exclusions include foundations, electrical, hydraulic, and compressed air connections, and associated supplies.

These services can be provided by LAM PLAN upon the customer's express request and will be billed separately.

If performed by a third party, only the third party's terms shall apply.

## 10. Copyrights

LAM PLAN retains copyright ownership over all documents of any kind. The Buyer receives a license to make a limited number of copies of these documents, provided that copyright and trademark notices are included as in the original.

Reproduction of any part of the texts, images, or graphics for promotional purposes is strictly prohibited without LAM PLAN's authorization.

## 11. Governing Law

All provisions are governed and interpreted solely by French law.

## 12. Jurisdiction

Any dispute regarding the interpretation and/or execution of these General Terms and Conditions of Sale shall first be subject to an attempt at amicable resolution.

Failing such resolution within two months from the date of the dispute, the matter shall be submitted exclusively to the Commercial Court of Paris.

This clause applies to summary proceedings, fixed-date proceedings, incidental claims, multiple defendants, or third-party claims, notwithstanding any jurisdiction clause to the contrary in the customer's documents.



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LAM PLAN S.A.S.

7 rue des Jardins - BP15  
74240 GAILLARD - France  
Tel: +33 (0)4 50 43 96 30

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

999900PDFEN - 01/2026