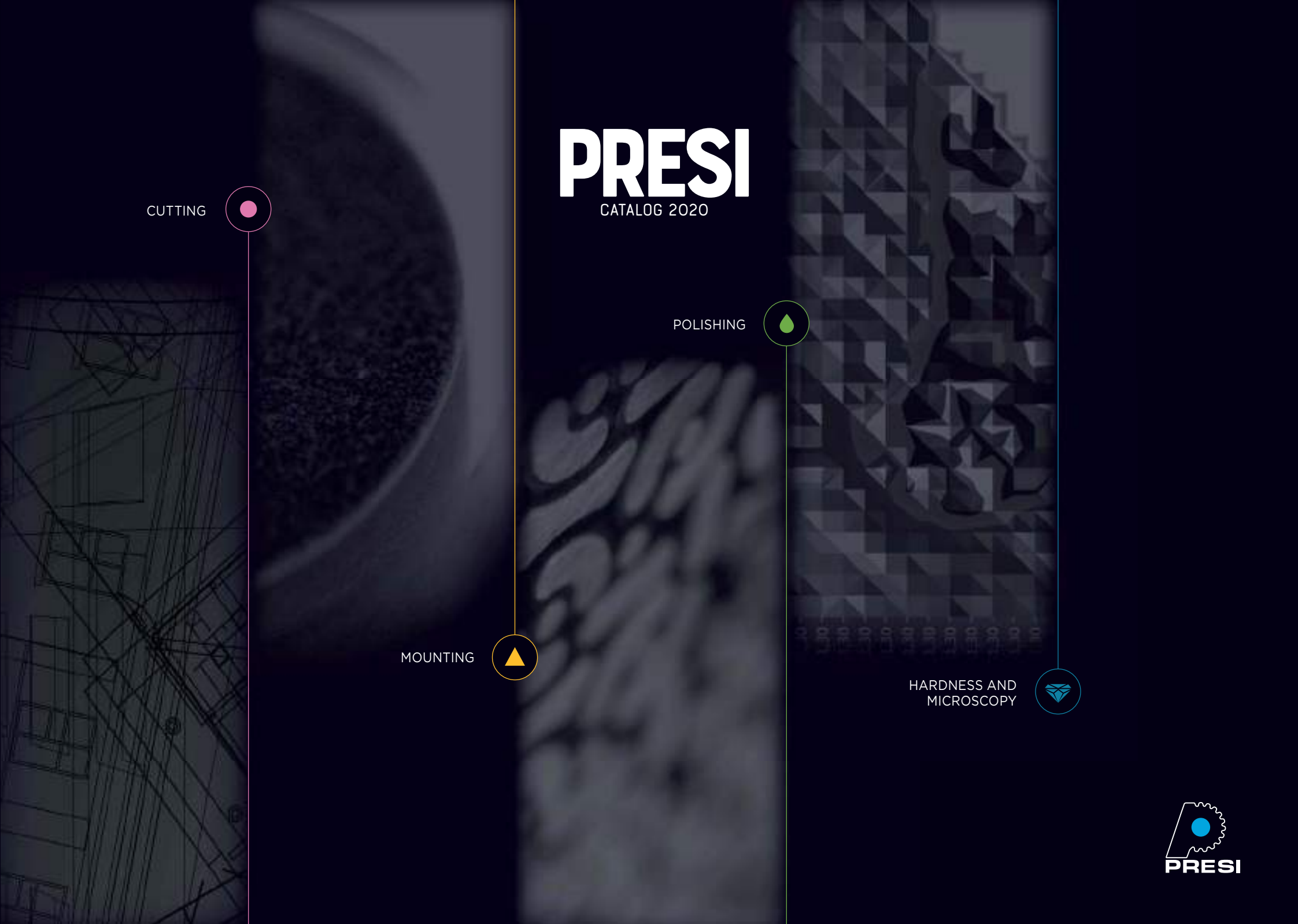
PRESI
CATALOG 2020
CUTTING
POLISHING
MOUNTING
HARDNESS AND
MICROSCOPY
PRESI

PRESI

PRESI WORLDWIDE

The metallography market is a global market.
PRESI is well established on an international level. Since its inception in 1961, the PRESI headquarters have been based in Grenoble, France. Over time, 4 subsidiaries have been created, and our sales system utilises a network of over 40 distributors.

Customer proximity is an important company commitment for PRESI. The people oriented structure of our organisation means that our dynamic and reactive staff are always ready to provide a tailor-made service to our customers and to respond to their requirements with precision.

PRESI TRADE CO., LTD

CHINA, 2010
MANAGING DIRECTOR: JOHN LU

PRESI (Shanghai) Trade.,Ltd
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PRESI

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MANAGING DIRECTOR: DAVID GRAUFEL

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MANAGING DIRECTOR: NICOLAS ZUILI

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ISO 9001
BUREAU VERITAS
Certification

PRESI GMBH

GERMANY, 2011
MANAGING DIRECTOR: MARTIN STUCKMANN

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PRESI METALOGRAFIE SRL

ROMANIA, 2018
MANAGING DIRECTOR: BOGDAN DINU

PRESI Metalografie SRL
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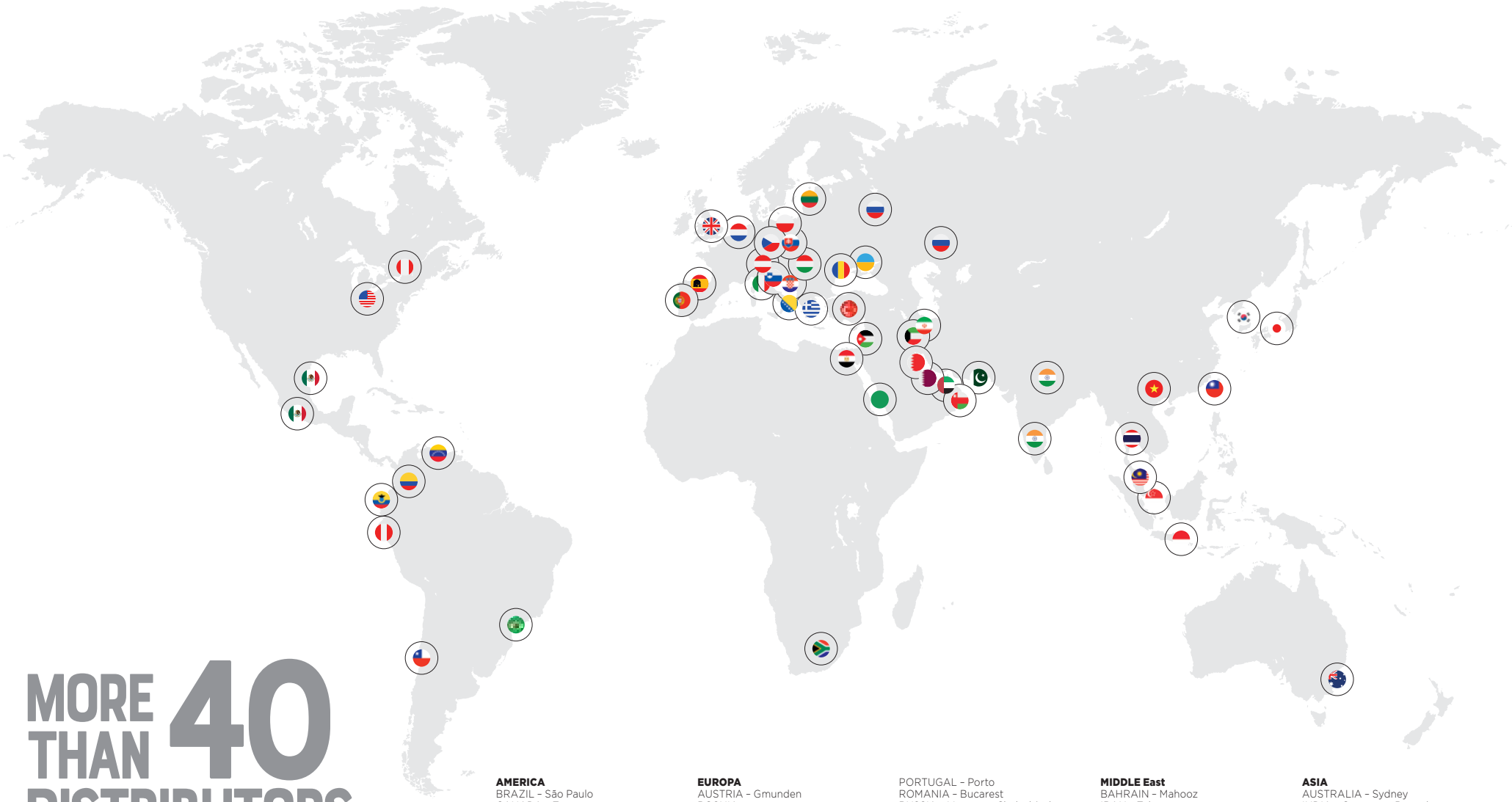
Tel: +40 (0)744 313 350
c.constantin@presi.com



MORE THAN 40 DISTRIBUTORS

To contact our distributors:
www.presi.com or **presi@presi.com**

AMERICA
BRAZIL – São Paulo
CANADA – Toronto
CHILE – Santiago
COLUMBIA – Bogota
ECUADOR – Cuenca
MEXICO – Mexico – Leon
PERU – Lima
USA – Sturbridge
VENEZULA – Caracas

EUROPA
AUSTRIA – Gmunden
BOSNIA
CROATIA – Zagreb
CZECH REP. – Praha
GREECE – Pallini
HUNGARY – Gmunden (AT)
ITALY – Noventa Padovana – Milano – Torino
LUTUANIA – Vilnius
MACEDONIA
NETHERLANDS – Tilburg
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ROMANIA – Bucarest
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SPAIN – Bilbao
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AFRICA
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SOUTH AFRICA - Johannesburg

MIDDLE East
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IRAN – Tehran
JORDAN – Amman
KUWAIT – Hawalla City
OMAN – Azaiba
QATAR – Doha
SAUDI ARABIA – Jeddah
UNITED ARAB EMIRATES – Dubaï

ASIA
AUSTRALIA – Sydney
INDIA – Gurgaon – Bangalore
INDONESIA – Bekasi
JAPAN – Chiba – Tokyo
MALAYSIA – Kuala Lumpur
PAKISTAN – Karachi
SINGAPORE – Singapore
SOUTH KOREA – Seoul
TAIWAN – Hsinchu
THAILAND – Bangkok
TURKEY – Istanbul
VIETNAM – Hanoi

DIAMOND WIRE SAWS

FINE CUTTING AND ABSOLUTE PRECISION

Ref. 52020

With their stainless steel wire set with diamonds, the diamond wire saws cuts most materials.

It is particularly recommended for cutting delicate samples such as silicon, glass or electronic components. Low speeds allow samples to be cut whilst protecting materials and preventing overheating. They ensure flat cut surfaces with clear edges, avoiding modifications to the structure on each side of the cut.

Also, its sample clamping system avoids any dimensional distortion and its horizontal/vertical working modes make cutting easier.

4500 SAW Ref. 52040 CE

860mm | 85kg | L: 590mm W: 480mm

6500 SAW Ref. 52050 CE

1200mm | 105kg | L: 650mm W: 480mm

3400 SAW Ref. 52030 CE

310mm | 11.3kg | L: 450mm W: 290mm

3500 BASE SAW Ref. 52010 CE

460mm | 13.8kg | L : 410mm W: 345mm

3500 PREMIUM SAW Ref. 52020 CE

460mm | 13.8kg | L: 410mm W: 345mm

CHARACTERISTICS

	3500	3500 PREMIUM	3400
POWER SUPPLY - CONTROL			
Voltage 230V, 50-60Hz	✔	✔	✔
Access code	✔	✔	✔
Mains cable	✔	✔	✔
Power supply USB 5V on the side of the machine	✔	✔	✔
Touchscreen (optimal regulation of wire speed, measurement of effective cutting time)	✔	✔	✔
WiFi Ready	on demand	on demand	on demand
Timer	✔	✔	✔
WORKING AREA			
Height adjustment (counterweight position markers using coloured dots, like on the winder)	✔	✔	
ADVANCEMENT			
Gravity (wire)	✔	✔	
Scale/Weight (sample)			✔
CUTTING DEPTH			
Maximum in mm	60	35/52	50
Slider with electronic end-of-cut stop		✔	
SAMPLE HOLDER			
Slotted table	✔	✔	
Micrometric table	option	✔	✔
30mm diameter with 5 ceramic plates	✔	✔	✔
30mm diameter 90° with 5 ceramic plates	option	option	option
Turning deck		✔	
LUBRIFICATION			
Dampening device	✔	✔	✔
WARRANTY			
12 months (excluding wear parts)	✔	✔	✔

See DIAMOND WIRE SAWS video link

CONSUMABLES

REF.	DESCRIPTIF	Ø	GRIT
52100	Standard wire - 120m	Ø 0.3mm	60µ
52101	Standard wire - 120m	Ø 0.3mm	40µ
52102	Standard wire - 120m	Ø 0.22mm	40µ
52103	Standard wire - 120m	Ø 0.17mm	30µ
52104	Standard wire - 120m	Ø 0.17mm	20µ
52105	Standard wire - 120m	Ø 0.13mm	30µ
52106	Standard wire - 120m	Ø 0.13mm	20µ
52107	Standard wire - 120m	Ø 0.1mm	20µ
52200	Standard wire - 30m	Ø 0.3mm	60µ
52201	Standard wire - 30m	Ø 0.3mm	40µ
52202	Standard wire - 30m	Ø 0.22mm	40µ
52203	Standard wire - 30m	Ø 0.17mm	30µ
52204	Standard wire - 30m	Ø 0.17mm	20µ
52205	Standard wire - 30m	Ø 0.13mm	30µ
52206	Standard wire - 30m	Ø 0.13mm	20µ
52207	Standard wire - 30m	Ø 0.1mm	20µ
52293	Wire refill - 10m	Ø 0.3mm	60µ
52294	Wire refill - 10m	Ø 0.3mm	40µ
52295	Wire refill - 10m	Ø 0.22mm	40µ
52296	Wire refill - 10m	Ø 0.17mm	30µ
52297	Wire refill - 10m	Ø 0.17mm	20µ
52298	Wire refill - 10m	Ø 0.13mm	30µ
52299	Wire refill - 10m	Ø 0.13mm	20µ
52300	Wire refill - 10m	Ø 0.1mm	20µ
52301	33 type winder		

ACCESSORIES

Sample holder

Turning deck

X-Y table

Micrometric table

Dual vice

Goniometer

Digital camera on request

Torque wrench

Cutting liquid

Set of 5 ceramic plates

Wax sticks

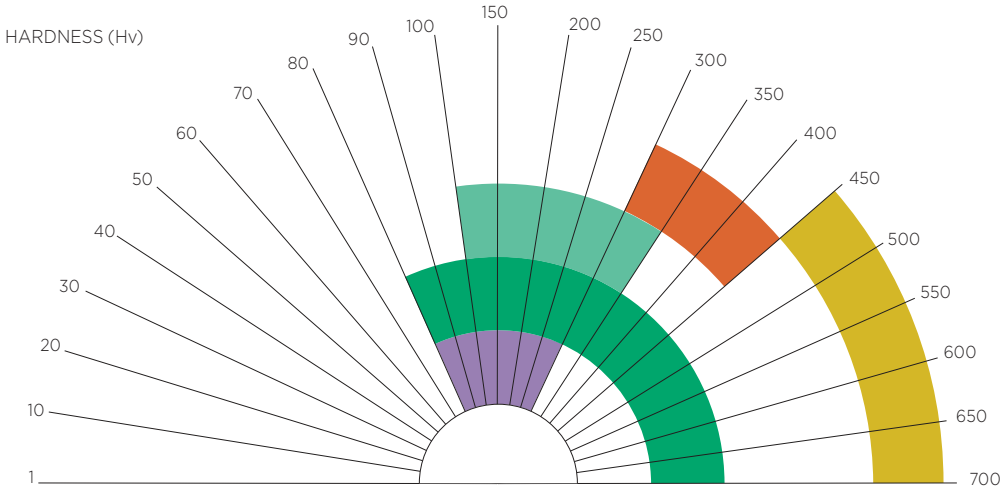
Drum

All Mecatome T202 specimen holders are suitable for all our diamond wire saws.

RESINOID CUT-OFF WHEELS

FERROUS MATERIALS

Resinoid cut-off wheels are made of a mixture of resin and abrasive powder and are suitable for cutting most materials. The nature of the abrasive and the hardness of the resin used are fundamental elements to ensure a perfect cut. The harder the material is, the softer the cut-off wheel must be.



WHEELS	RECOMMENDED MATERIALS
S	Treated steels, with fragile coatings, difficult materials.
AO	Treated steels, stainless steels, refractory metals, alloyed cast irons.
A	Low carbon, mild and extra mild and treated steels with medium cross-sections.
UTW	All types of metallic materials.
S	All types of metallic materials.
AOFII	Rubber bonded cut-off wheel, thin section cutting, low cross-section sintered steels, hard metal layers.

STANDARD RESINOID CUT-OFF WHEELS

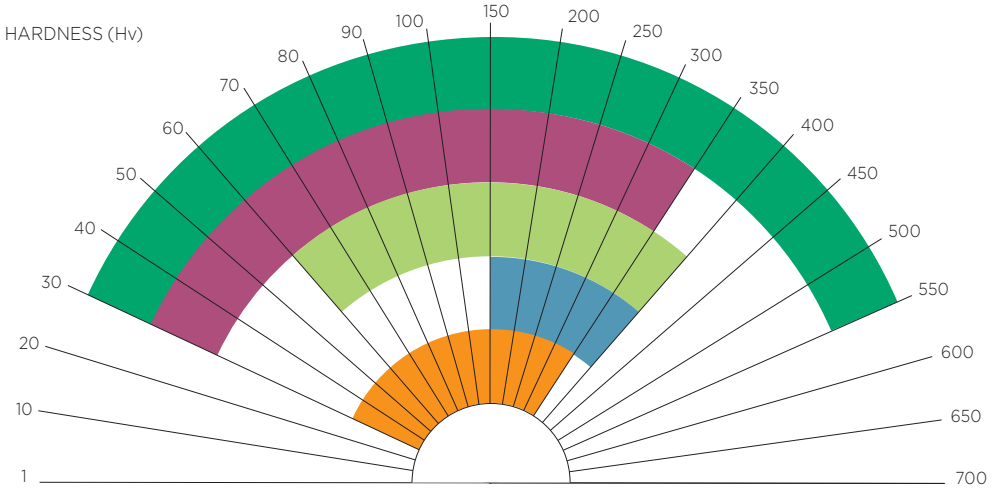
Pack of 10

	REF.	DESIGNATION	ABRASIVE	Ø	
S	01016	Cut-off wheel	Al_2O_3	Ø 250 x 1.6 x 32mm	
	01022	Cut-off wheel		Ø 300 x 2 x 32mm	
	01032	Cut-off wheel		Ø 350 x 2.5 x 32mm	
	01034	Cut-off wheel		Ø 400 x 3 x 32mm	
	01039	Cut-off wheel		Ø 450 x 3.5 x 32mm	
	01064	Cut-off wheel		Ø 500 x 3 x 32mm	
AO	01046	Cut-off wheel	Al_2O_3	Ø 125 x 0.5 x 12.7mm	
	01043	Cut-off wheel		Ø 150 x 0.5 x 12.7mm	
	01002	Cut-off wheel		Ø 200 x 1.6 x 25.4mm	
	01008	Cut-off wheel		Ø 230 x 1.6 x 22mm	
	01014	Cut-off wheel		Ø 250 x 1.6 x 32mm	
	01020	Cut-off wheel		Ø 300 x 2 x 32mm	
	01030	Cut-off wheel		Ø 350 x 2.5 x 32mm	
	01027	Cut-off wheel		Ø 400 x 3 x 32mm	
	01036	Cut-off wheel		Ø 450 x 3.5 x 32mm	
	01063	Cut-off wheel		Ø 500 x 3.5 x 32mm	
A	01040	Cut-off wheel	Al_2O_3	Ø 100 x 0.3 x 12.7mm	
	01015	Cut-off wheel		Ø 250 x 1,6 x 32mm	
	01021	Cut-off wheel		Ø 300 x 2 x 32mm	
	01033	Cut-off wheel		Ø 350 x 2.5 x 32mm	
	01029	Cut-off wheel		Ø 400 x 3 x 32mm	
	01038	Cut-off wheel		Ø 450 x 3.5 x 32mm	
	01062	Cut-off wheel		Ø 500 x 3 x 32mm	
UTW	01100	Cut-off wheel	SiC	Ø 180 x 0.5 x 25.4mm	
	01101	Cut-off wheel	SiC	Ø 200 x 0.5 x 25.4mm	
S	01060	Cut-off wheel	SiC	Ø 180 x 0.5 x 25.4mm	
AOF II	01001	Cut-off wheel	Al_2O_3	Ø 200 x 0,8 x 25.4mm	
	01012	Cut-off wheel "S"		Ø 250 x 0,8 x 32mm	
	01013	Cut-off wheel		Ø 250 x 0,8 x 32mm	
	01019	Cut-off wheel		Ø 300 x 1 x 32mm	

NON-FERROUS MATERIALS

Resinoid cut-off wheels are made of a mixture of resin and abrasive powder and are suitable for cutting most materials. The nature of the abrasive and the hardness of the resin used are fundamental elements to ensure a perfect cut. The harder the material is, the softer the cut-off wheel must be.

PRESI GUIDE CUTTING



WHEELS	RECOMMENDED MATERIALS
S	All types of metallic materials.
UTW	All types of metallic materials.
MNF	Aluminium, copper and alloys, non ferrous metals, titanium and alloys.
T	Titanium, titanium alloys, non ferrous metals.
F	White, grey and spheroidal graphite cast iron, titanium and alloys.
C	Aluminium, copper and alloys, non ferrous metals, titanium and alloys.

STANDARD RESINOID CUT-OFF WHEELS

Pack of 10

	REF.	DESIGNATION	ABRASIVE	Ø	
S	01060	Cut-off wheel	SiC	Ø 180 x 0.5 x 25.4mm	
UTW	01100	Cut-off wheel	SiC	Ø 180 x 0.5 x 25.4mm	
	01101	Cut-off wheel		Ø 200 x 0.5 x 25.4mm	
MNF	01005	Cut-off wheel	SiC	Ø 200 x 1.6 x 25.4mm	
	01017	Cut-off wheel		Ø 250 x 1.6 x 32mm	
	01023	Cut-off wheel		Ø 300 x 2 x 32mm	
	01031	Cut-off wheel		Ø 350 x 2.5 x 32mm	
	01028	Cut-off wheel		Ø 400 x 3 x 32mm	
	01037	Cut-off wheel		Ø 450 x 3.5 x 32mm	
	01066	Cut-off wheel		Ø 500 x 3 x 32mm	
T	01071	Cut-off wheel	SiC	Ø 250 x 1.6 x 32mm	
	01072	Cut-off wheel		Ø 300 x 2 x 32mm	
	01073	Cut-off wheel		Ø 350 x 2.5 x 32mm	
	01047	Cut-off wheel		Ø 400 x 3 x 32mm	
	01048	Cut-off wheel		Ø 450 x 3.5 x 32mm	
	01065	Cut-off wheel		Ø 500 x 3 x 32mm	
F	01018	Cut-off wheel	SiC	Ø 250 x 1.6 x 32mm	
	01024	Cut-off wheel		Ø 300 x 2 x 32mm	
C	01041	Cut-off wheel	SiC	Ø 100 x 0.3 x 12.7mm	

NEW ULTRA THIN CUT-OFF WHEELS UTW

Ultra-thin resinoid cut-off wheels. Suitable for cutting all types of metallic materials and allow cutting with great precision thanks to their extreme finesse.

METALLIC CUT-OFF WHEELS

Metallic cut off-wheels and CBN cutting discs only cut hard materials. There are two types of abrasives: diamond and boron nitride (CBN). Resin bonds give better surface conditions than metal bonds. Metal bonds have a longer life than resin bonds.

HARD FERROUS MATERIALS

CBN CUTTING DISCS (BORON NITRIDE CARBIDE)

Delivered with a dressing stick

	REF.	DESIGNATION	Ø	
CBN	02059	CBN cutting disc	Ø 75 x 0.5 x 12.7mm	
	02062	CBN cutting disc	Ø 100 x 0.5 x 12.7mm	
	02050	CBN cutting disc	Ø 125 x 0.5 x 12.7mm	
	02065	CBN cutting disc	Ø 150 x 0.6 x 12.7mm	
	02056	CBN cutting disc	Ø 175 x 0.7 x 12.7mm	
	02039	CBN cutting disc	Ø 200 x 0.9 x 32mm	
	02043	CBN cutting disc	Ø 250 x 1.2 x 32mm	
	02047	CBN cutting disc	Ø 300 x 1.2 x 32mm	

CBN
Resin bond
High boron nitride concentration disk for cutting hard ferrous materials, cast iron and treated, high-speed and hard steel.

HARD NON-FERROUS MATERIALS

METALLIC CUT-OFF WHEELS

Delivered with a dressing stick

	REF.	DESIGNATION	Ø	
LR	02058	Cut-off wheel	Ø 75 x 0.5 x 12.7mm	
	02033	Cut-off wheel	Ø 100 x 0.5 x 12.7mm	
	02035	Cut-off wheel	Ø 125 x 0.5 x 12.7mm	
	02037	Cut-off wheel	Ø 150 x 0.6 x 12.7mm	
	02067	Cut-off wheel	Ø 175 x 0.7 x 12.7mm	
	02041	Cut-off wheel	Ø 200 x 0.9 x 32mm	
	02045	Cut-off wheel	Ø 250 x 1.2 x 32mm	
	02049	Cut-off wheel	Ø 300 x 1.2 x 32mm	

LR
Resin bond
High concentration disc, advised when you want the best cutting quality. To cut hard and fragile materials, composites, plasma deposit, ceramics, electronic components.

	REF.	DESIGNATION	Ø	
LM	02030	Cut-off wheel	Ø 75 x 0.3 x 12.7mm	
	02031	Cut-off wheel	Ø 100 x 0.3 x 12.7mm	
	02034	Cut-off wheel	Ø 125 x 0.5 x 12.7mm	
	02036	Cut-off wheel	Ø 150 x 0.6 x 12.7mm	
	02055	Cut-off wheel	Ø 175 x 0.7 x 12.7mm	
	02038	Cut-off wheel	Ø 200 x 0.9 x 32mm	
	02042	Cut-off wheel	Ø 250 x 1.2 x 32mm	
	02046	Cut-off wheel	Ø 300 x 1.4 x 32mm	

LM
Metallic bond
Very polyvalent cut-off wheel, normal concentration, to cut very hard materials such as: ceramics, alumina, sintered carbides, minerals, concretes, stones.

	REF.	DESIGNATION	Ø	
LM+	02057	Cut-off wheel	Ø 75 x 0.3 x 12.7mm	
	02060	Cut-off wheel	Ø 100 x 0.3 x 12.7mm	
	02063	Cut-off wheel	Ø 125 x 0.5 x 12.7mm	
	02064	Cut-off wheel	Ø 150 x 0.6 x 12.7mm	
	02066	Cut-off wheel	Ø 175 x 0.7 x 12.7mm	
	02040	Cut-off wheel	Ø 200 x 0.9 x 32mm	
	02044	Cut-off wheel	Ø 250 x 1.2 x 32mm	
	02048	Cut-off wheel	Ø 300 x 1.4 x 32mm	

LM+
Metallic bond
High concentration disc to cut hard materials such as: tungsten carbide, silicon carbide, plasma deposit, composites, mounted samples, refractory materials.

CUTTING

CONSUMABLES

ANTIRUST COOLANT

The quality of the coolant is part of the cut quality and efficiency. Our coolant is corrosion protective (machine & specimen).
The anti-rust coolant is available in 1.5L or 10L containers (mixing ratio: 4% in water).

REF.	DESIGNATION
01025	1L bottle
01090	5L drum
01026	10Ldrum

1L bottle

5L drum

10L drum

ANTIFOAM AGENT

Available in 1, 5 and 10 liters containers. The antifoam agent removes or reduces the formation of foam during cutting. The mixing ratio ranges from 0.01g/l to 0.5g/l depending on water hardness level and working conditions.

REF.	DESIGNATION
01094	1L bottle
01095	5L drum
01096	10L drum

1L bottle

5L drum

10L drum

ANALOGICAL REFRACTOMETER

Equipment for measuring the cutting tank concentration and maintaining an optimal concentration of anti rust coolant.

REF.	DESIGNATION
19074	Analogical refractometer BRIX 0-10

Analogical refractometer BRIX 0-10

ANTISEPTIC LIQUID

Avoids spreading of bacteries in the cutting machine, unpleasant smell and extends life time of cut-off machines (mixing ratio: 1.6% in water).

REF.	DESIGNATION
01093	500CC antibacteria bottle
01097	1L antibacteria bottle
01098	5L antibacteria drum

500CC antibacteria bottle

DRESSING STICK FOR DIAMOND DISC

REF.	DESIGNATION
51164	Dressing stick for diamond disc

Dressing stick for diamond disc

REDUCTION RINGS*

Allow to adapt the interior diameter of the cut-of wheel with the machine arbor.

REF.	DESIGNATION	Ø
Pack of 20		
01091	Reduction ring	25.4 / 22mm
01092	Reduction ring	32 / 25.4mm
Pack of 5		
51324	Reduction ring aluminium	25,. / 12.7mm
51331	Reduction ring aluminium	32 / 12.7mm
51332	Reduction ring aluminium ultra thin	25.4 / 12.7mm

* Other diameters on request.

Reduction ring

Reduction ring aluminium

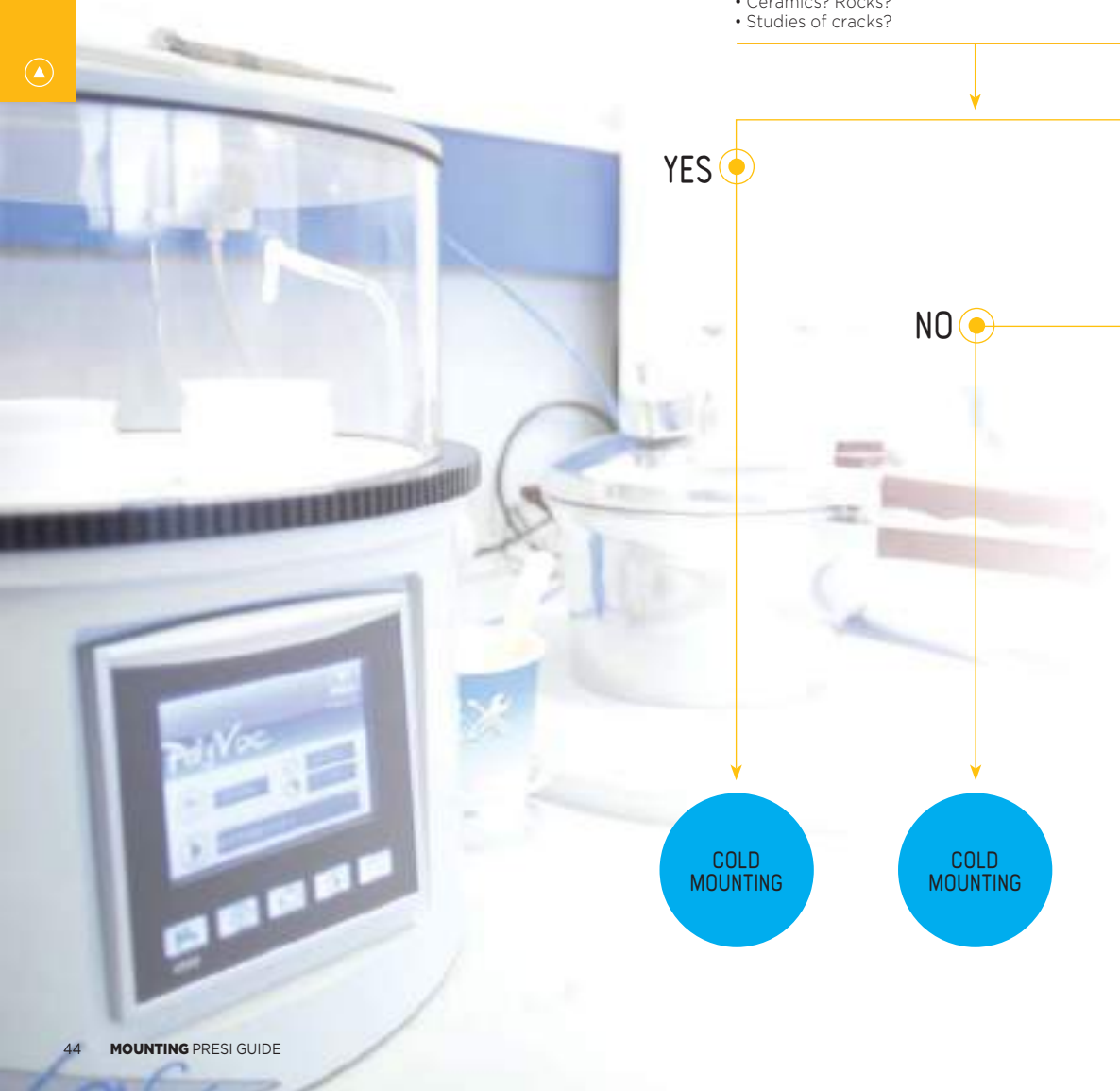
COLD MOUNTING

Achieving a high quality mount is essential.
Our machines and cold mounting consumables cover all the possible requirements involved in the handling of any given sample type.

For cold mounting, we use either acrylic, epoxy, or polyester resins. The advantages of our processing techniques include eliminating the risk of blistering and edges shrinkage are guaranteed.

44 PRESI GUIDE
45 PRESSURE AND VACUUM MOUNTING MACHINES
46 TRANSPARENT RESINS
47 OPAQUE RESINS
48 IP-FAST KM-BACK
49 MOULDS

COLD OR HOT MOUNTING?



WILL ANALYZE MATERIAL MEETS ONE OF THE FOLLOWING CRITERIA:

- Fragile material / sensitive to the temperature or the pressure?
- Porous material? Honeycomb structures?
- Ceramics? Rocks?
- Studies of cracks?

YES → COLD MOUNTING

NO → Do you have a hot mounting press?

- **NO** → COLD MOUNTING
- **YES** → Number of mounts per day?
  - FEWER THAN 15 → HOT MOUNTING
  - MORE THAN 15 with only one hot mounting press → COLD MOUNTING
  - MORE THAN 15 with several hot mounting presses → HOT MOUNTING

Hot mounting is recommended to make:

- high quality mounts (observation of coating),
- hardness measurements,
- polishing in individual pressure.

COLD MOUNTING

PRESSURE VESSEL FOR MOUNTING UNDER PRESSURE

Ref. 04300

The vessel for mounting under pressure can dramatically improve the quality of acrylic mounts. Resin type KM becomes more transparent and resin type KM-U has reduced shrinkage. Additionally, improved resin impregnation of porous materials can be achieved.

70mm

220mm

4.5liters

2 bar

VACUUM IMPREGNATION SYSTEM

Ref. 53600

Vacuum mounting system

The vacuum mounting system provides for improved resin impregnation of porous materials. Its best use is with epoxy resins. The device can be manually operated or programmed and controlled through a touch screen with options for setting cycle time (timer from one minute to several hours) and various levels of vacuum.
It includes a resin dispenser.

Poly'Vac Kit Ref. 53600

50 bed protection sheets
50 pipes
50 plastic nozzles

ACCESSORIES

50 bed protection sheets
Ref. 53605

Pipes and plastic nozzles (set of 50)
Ref. 53606

See POLYVAC video link

TRANSPARENT RESINS

MA2+, 2S and IP resins are composed of two liquid parts: the resin and its hardener. These resins are totally transparent. MA2+, 2S and IP polymerise at ambient temperature, whereas IP resins require a vacuum oven.

TYPE OF RESINS	USE	POLYMERISATION TIME	SHRINKAGE	EXOTHERMIC PEAK	HARDNESS	PROPORTION
IP (epoxy)	General use, observations of edges, very good impregnation capacity, suitable for hard materials	8 at 10h (3h at 50°C)	Very low	30°C	83 Shore D	10% catalyst
IP-FAST (epoxy) NEW	General use, visual control of material removal with fast polymerisation, suitable for hard materials	2h* at 20°C	Low	120°C	89 Shore D	30% catalyst
MA2+ (epoxy)	General use, visual control of material removal, suitable for soft materials	12h at 20°C	Low	60°C*	62 Shore D	10% catalyst
KM-U under pressure (acrylic)	General use with fast polymerisation	15min at 20°C	Low	115°C	90 Shore D	2 volumes of powder for 1 volume of liquid
2S (polyester)	General use with fast polymerisation, suitable for large quantity of mounts at one time	1h30 at 20°C	Medium	80°C	76 Shore D	2.5% catalyst

*depends on the volume

DYES POWDER

Red Ref. 04184 | **Blue** Ref. 04185 | **Yellow** Ref. 04186

IP RESIN

REF.	DESIGNATION
04200	Pack 1kg resin + 100 CC catalyst**
04201	Catalyst: 100 CC
04202	Resin: 1kg
04805	Resin: 15kg
04806	Catalyst: 1.5L

IP-FAST RESIN

REF.	DESIGNATION
04070	Pack 1kg resin + 300 CC catalyst**
04071	Catalyst: 300 CC
04072	Resin: 1kg

MA2+ RESIN

REF.	DESIGNATION
04040	Pack 1kg resin + 100 CC catalyst**
04009	Catalyst 100 CC
04041	Resin: 1kg
04803	Resin: 15kg
04804	Catalyst: 1.5L

2S RESIN

REF.	DESIGNATION
04010	Pack 1kg resin + 30 CC catalyst**
04011	Catalyst: 30 CC
04042	Resin: 1kg

** Packs of IP, IP-FAST, MA2+ and 2S resins are delivered with: 10 plastic cups, 10 stirring sticks and 2 dosing syringes.

DYES (POWDER) FOR IP / IP-FAST / MA2+ / 2S RESINS

REF.	DESIGNATION
04184	1000mg Red
04185	1000mg Blue
04186	1000mg Yellow

OPAQUE RESINS

The KM resins are acrylic. They are composed of two parts: powder and liquid. Easy to use, these resins polymerise quickly with an exothermic peak around 70°C and 115°C. Those temperatures do not alter most specimens.

TYPE OF RESINS	USE	POLYMERISATION TIME	SHRINKAGE	EXOTHERMIC PEAK	HARDNESS	COLOUR	PROPORTION
KM-U (acrylic)	Control/ General use with fast polymerisation	15min at 20°C	Medium	115°C	90 Shore D	White	2 volumes of powder for 1 volume of liquid
KM-V (acrylic)	Control/ General use with fast polymerisation. Mineral loaded for a reduction of shrinkage	15min at 20°C	Low	115°C	90 Shore D	Blue	2 volumes of powder for 1 volume of liquid
KM-B (acrylic)	Control/ General use with fast polymerisation. Mineral loaded for a reduction of shrinkage	15min at 20°C	Very low	115°C	91 Shore D	Blue	2 volumes of powder for 1 volume of liquid
KM-EM (acrylic)	Casting replica's of sample surface	8min at 20°C	-	95°C	87 Shore D	Yellow	2 volumes of powder for 1 volume of liquid
KM-CO (acrylic)	Conductive resin for SEM applications	30min at 20°C	Medium	70°C	62 Shore D	Black	8 volumes of powder for 5 volumes of liquid
KM-BACK (acrylic) NEW	Resin 100% dissoluble into acetone. Allows to get back the sample.	10 at 15min at 20°C	Medium	115°C	83 Shore D	Green	2 volumes of powder for 1 volume of liquid

KM-U RESIN

REF.	DESIGNATION
04140	Pack 1kg powder + 500 CC catalyst*
04141	Powder: 1kg
04142	Catalyst: 500 CC
04143	Powder: 10kg
04144	Catalyst: 5L

KM-V RESIN

REF.	DESIGNATION
04031	Pack 1kg powder + 500 CC catalyst*
04032	Powder: 1kg
04033	Catalyst: 500 CC
04034	Powder: 10kg
04035	Catalyst: 5L

KM-B RESIN

REF.	DESIGNATION
04130	Pack 1 kg powder + 500 CC catalyst*
04131	Powder: 1kg
04132	Catalyst: 500 CC

KM-EM RESIN

REF.	DESIGNATION
04150	Pack 1kg powder + 500 CC catalyst*
04151	Powder: 1kg
04152	Catalyst: 500 CC

KM-CO RESIN

REF.	DESIGNATION
04160	Pack 1kg powder + 1L catalyst*
04161	Powder: 1kg
04162	Catalyst: 1L

KM-BACK RESIN

REF.	DESIGNATION
04060	Pack 1kg powder + 500 CC catalyst*
04061	Powder: 1kg
04062	Catalyst: 500 CC

* Packs of KM-U / KM-V / KM-B / KM-EM / KM-CO and KM-BACK are delivered with: 10 plastic cups and 10 stirrinbg sticks.

DYES (LIQUID) FOR KM-U

REF.	DESIGNATION
04180	10ml Red
04181	10ml Green
04182	10ml Blue
04183	10ml Yellow

KM-BACK

ITS MAIN ADVANTAGE:
ACRYLIC RESIN 100% DISSOLUBLE

KM-BACK acrylic resin was designed to get back rare and unique samples. Those who, after analysis and control, need to be preserved in their entirety and reused for other purposes.
The KM-Back resin has the particularity **to dissolve completely** in acetone.
Its hardness is 83 ShD.
It polymerizes quickly, between 10 and 15 minutes.

Polymerization between
10 and 15minutes

Hardness of
83 ShD

IP-FAST

ITS MAIN ADVANTAGE:
AN EPOXY RESIN WITH FAST POLYMERIZATION

The IP-FAST resin was developed to significantly reduce the control and analysis times of mounted samples with an epoxy resin. **This transparent resin, with an excellent hardness (89 ShD), polymerizes very quickly: in only 2 hours.** Its very low shrinkage preserves the edges of the sample and reduces the risk of pollution.

2 hours
Polymerization

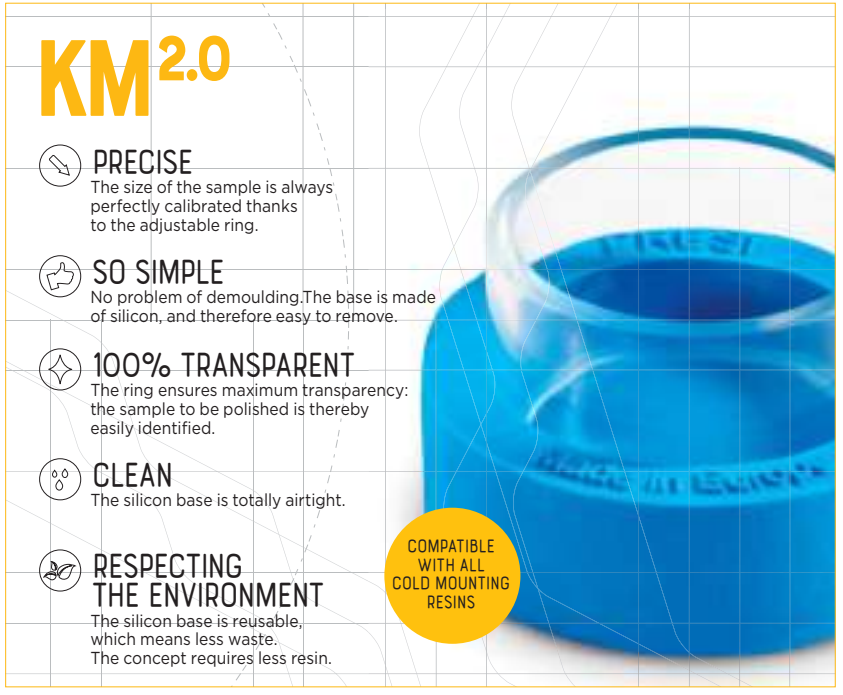
Hardness of
89 ShD

MOUNTING MOULDS

KM 2.0

Box of 5 bases and 50 rings.
Removable and reusable base.

REF.	DESIGNATION
04048	Kit of 50 rings + 5 x 25mm bases
04049	Kit of 50 rings + 5 x 30mm bases
04050	Kit of 50 rings + 5 x 40mm bases
04045	50 x 25mm ring refills
04046	50 x 30mm ring refills
04047	50 x 40mm ring refills
04051	Box of 5 x 25mm bases
04052	Box of 5 x 30mm bases
04053	Box of 5 x 40mm bases



TEFLON

Box of 5.
Detachable base. Reusable.

REF.	DESIGNATION
04016	Teflon Ø 20mm
04017	Teflon Ø 25mm
04036	Teflon Ø 25.4mm
04018	Teflon Ø 30mm
04037	Teflon Ø 31.7mm
04038	Teflon Ø 38.1mm
04019	Teflon Ø 40mm
04020	Teflon Ø 50mm

RUBBER SILICONE

Box of 5.
One piece. Reusable.

REF.	DESIGNATION
04021	Silicone Rubber Ø 25mm
04022	Silicone Rubber Ø 30mm
04023	Silicone Rubber Ø 40mm
04025	Rectangular 55 x 30 x 25mm
04026	Rectangular 70 x 40 x 25mm
04027	Rectangular 100 x 50 x 25mm

POLYETHYLENE

Box of 5.
Detachable base. Reusable.

REF.	DESIGNATION
04028	Polyethylene Ø 25mm
04029	Polyethylene Ø 30mm
04030	Polyethylene Ø 40mm

ACCESSORIES

REF.	DESIGNATION
04112	Set of 100 holding (multi-colour) clips
04110	Set of 100 spring clips (metal) Ø 9mm
04111	Set of 100 holding blue clips (plastic)
04024	Box of 5 graduated measuring cups (250 CC) with stirring sticks
04900	Set of 100 paper cups + 100 stirring sticks
04901	Kit 25 syringes 50ml + 25 syringes 5ml for liquid resins
04114	Box of 50 holding clips “six slots”

ACCESSORIES

Set of 100 holding (multi-colour) clips
Ref. 04112

Set of 100 spring clips (metal) Ø 9mm
Ref. 04110

Set of 100 holding blue clips (plastic)
Ref. 04111

Box of 5 graduated measuring cups (250 CC) with stirring sticks
Ref. 04024

Set of 100 paper cups + 100 stirring sticks
Ref. 04900

Kit 25 syringes 50ml + 25 syringes 5ml for liquid resins
Ref. 04901

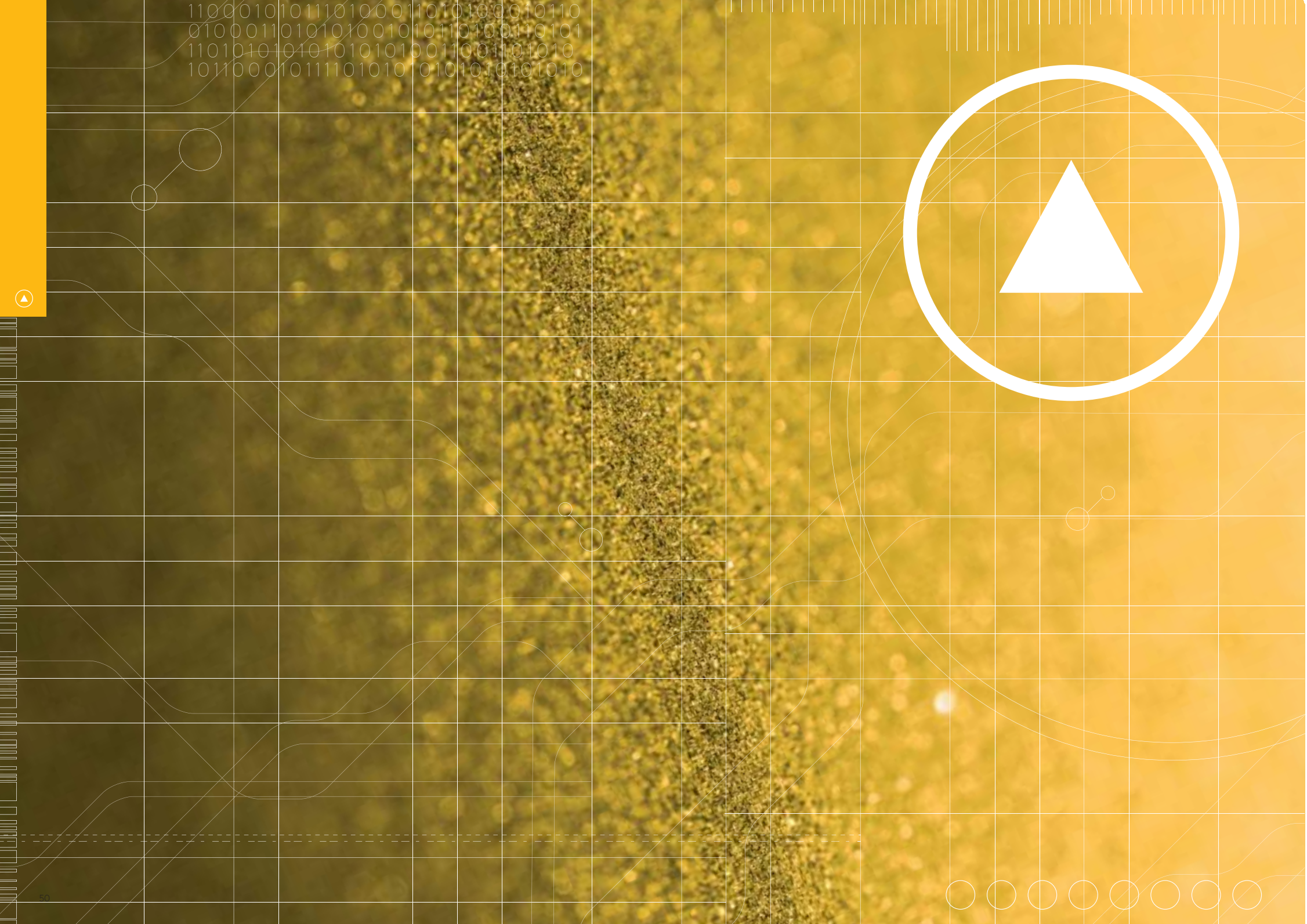
Box of 50 holding clips “six slots”
Ref. 04114

MOUNT RELEASE AGENT

Just spray into the cold-mounting molds.

REF.	DESIGNATION
03208	Silfree-Jet* mould removal aerosol

* Non-disruptive mold release spray.



HOT MOUNTING

Achieving a high quality mount is essential.
Our machines and hot mounting consumables cover all the possible requirements involved in the handling of any given sample type.

For hot mounting, we use either phenolic, acrylic, epoxy, or allylic resins. The advantages of our processing techniques include eliminating the risk of blistering and edges shrinkage are guaranteed.
Hot mounting offers superior hardness and allows greater control over the diameter of the mount layer.

52

MECAPRESS 3

54

RESINS

RESINS

When properly cured, hot mounting resins are hard, acid and solvent resistant and have low shrinkage.
As such, they provide good edge retention and so reduce edge rounding and the possibility of bleeding from the sample edge during polishing.

TYPE OF RESINS	USE	SHRINKAGE	HARDNESS	CONDUCTIVITY	COLOUR
EPOXY	Hard materials, edge observation, surface deposits, coatings	Very low	96 Shore D	-	Black
PHENOLIC	Standard mounting media for soft to medium hard materials	Low	90 Shore D	-	White, green, red, black
CONDUCTIVE PHENOLIC (with carbon)	SEM applications or electrolytic polishing	Low	90 Shore D	Good	Black
GLASS FIBER PHENOLIC	Standard mounting media for soft to medium hard materials	Low	95 Shore D	-	Black
GLASS FIBER ALLYLIC	Observation of sample edges	Very low	93 Shore D	-	Blue
ACRYLIC	When a transparent mount is required	Low	88 Shore D	-	Transparent
ACRYLIC COPPER POWDER	For electro-polishing or electrolytic etching	Low	90 Shore D	Good	Copper

EPOXY RESIN

REF.	DESIGNATION	
03009	Pack 2.5kg	Black Epoxy
03109	Pack 10kg	Black Epoxy
03156	25kg	Black Epoxy

MOUNT RELEASE AGENT

Just spray into the mould of the mounting machine!

REF.	DESIGNATION
03208	Silfree-Jet* mould removal aerosol

* Non-disruptive mold release spray.

PHENOLIC RESIN

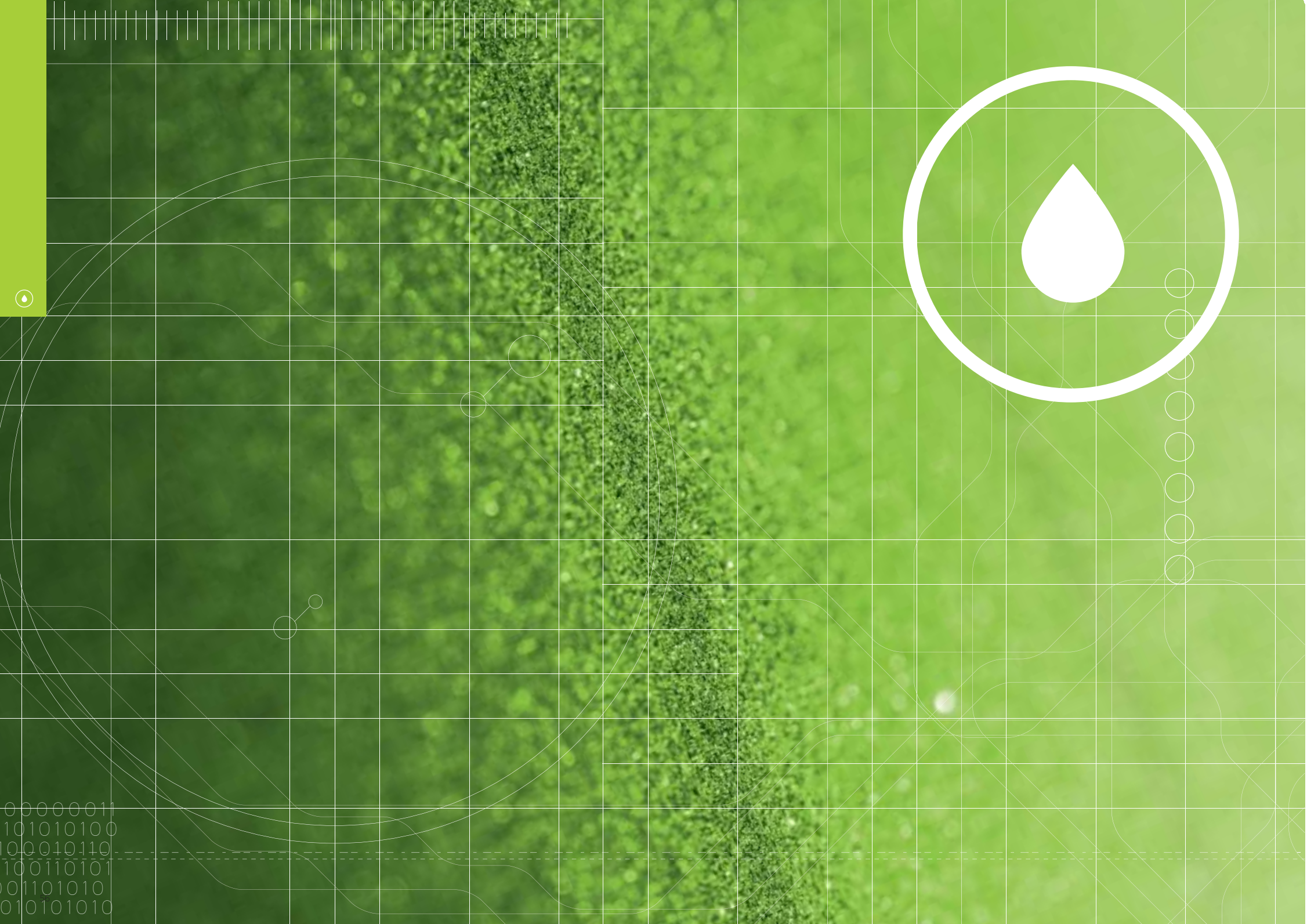
REF.	DESIGNATION	
03001	Pack 2.5kg	Black Phenolic
03101	Pack 10kg	Black Phenolic
03150	20kg	Black Phenolic
03002	Pack 2.5kg	Green Phenolic
03102	Pack 10kg	Green Phenolic
03151	20kg	Green Phenolic
03003	Pack 2.5kg	Red Phenolic
03103	Pack 10kg	Red Phenolic
03152	20kg	Red Phenolic
03011	Pack 2.5kg	White Phenolic
03105	Pack 10kg	White Phenolic
03010	Pack 2.5kg	Black fiber glass
03111	Pack 10kg	Black, with fiber glass filler
03012	Pack 2.5kg	Conductive Phenolic (black carbon)

ALLYLIC RESIN

REF.	DESIGNATION	
03005	Pack 2.5kg	Allylic fiber glass
03106	Pack 10kg	Allylic fiber glass
03157	Pack 20kg	Allylic fiber glass

ACRYLIC RESIN

REF.	DESIGNATION	
03006	Pack 2.5kg	Acrylic, with copper powder additive
03007	Pack 2.5kg	Transparent Clear Acrylic
03108	Pack 10kg	Transparent Clear Acrylic
03015	Pack 2.5kg	Granite Clear Acrylic



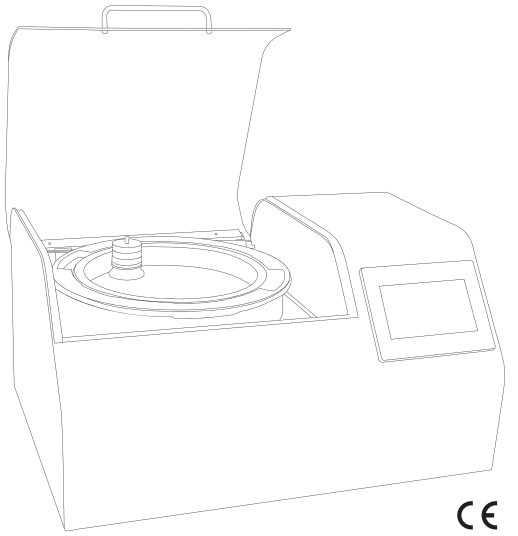
VIBROTECH 300

THE AUTOMATIC VIBRATION POLISHING MACHINE

Ref. 68100

The VIBROTECH 300 is a vibrating polishing machine of Ø 305mm reliable and robust. Vibration polishing is an ultra-soft technique suitable for the super-finishing stages and particularly for the samples to be analysed in EBSD (electron backscatter diffraction) or AFM (atomic force microscopy).

This polishing method makes it possible to save inclusions and to eliminate surface hardening. Very easy to use, the frequency and amplitude of the vibrations can be modified in real time.

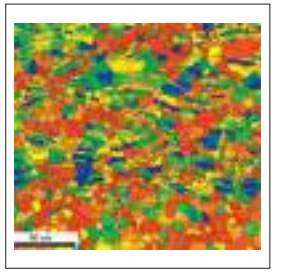


676mm (open hood)
396mm (closed hood)

715mm

554mm

90kg



EBSD mapping

CHARACTERISTICS

Diameter polishing bowl	Ø 308mm
Sample polishing ability	up to 21 simultaneous
Polishing cloths	Ø 300 to 305mm
Suitable polishing cloths	autocollants or PAD-Mag
Vibration frequency	80 - 110Hz
Rotation direction	Clockwise
Vibration bowl power	519 W
Power supply	230 VAC
Frequency	50 - 60Hz
16/9 color TFT LCD touch screen 7''	✔
Hood	transparent
Progressive acceleration	✔
Interchangeable polishing bowls	✔

Download VIBROTECH 300 technical sheet

SAMPLE HOLDER

FEATURES	Ø 25 Ø 25.4	Ø 30 Ø 31.7	Ø 38.1 Ø 40	Ø 50
Weight of the rack (g)	360	425	545	675
Max. capacity weight	4	4	4	4
Weight per unit (in g)	150	180	255	340
Sample holder max. weight (in g)	960	1145	1565	2035

SAMPLE HOLDER + LEVELLING PLATE

REF.	Ø
68110	Ø 25mm
68111	Ø 25.4mm
68112	Ø 30mm
68113	Ø 31.7mm
68114	Ø 38.1mm
68115	Ø 40mm
68116	Ø 50mm

ACCESSORIES

Storage rack for consumables
Ref. 57157

Draining for plates storage Ø 200 à 300mm
Ref. 57155

Storage box (3 to 18 samples)
Ref. 19005

Ultrasonic tanks
Ref. 61101 to 61108

Polishing bowl
Ref. 68105

Reflex MAG Ø 300mm for VIBROTECH
Ref. 24055

ELECTER EVOLUTION

Ref. 58100

170mm | 260mm | 330mm | 4.9kg | CE

Portable apparatus
for mechanical grinding
and polishing 'in-situ".
The ELECTER EVOLUTION
is ideal for preparation
of surfaces before chemical
etching or polishing
and electrolytic etching.

- Strong case for transport.
- Control panel.
- Electronic speed control.
- 2 outlets for motor connection.
- Selection of rotation direction.
- Torque motor 1500 to 25000 RPM.
- Reducer 1/4 increasing the power by 4.
- Tool holder with 90° bevel gear.
- Voltage: 220 Volts.
- Built in accordance with EC standards.

Strengthened transport case

ABRASIVE PAPERS ADHESIVE Ø 32MM

REF.	GRIT	
Bag of 100		
14010	P 60	
14000	P 100	
14001	P 120	
14002	P 180	
14003	P 240	
14004	P 320	
14005	P 400	
14006	P 600	
14007	P 800	
14008	P 1000	
14009	P 1200	
14011	P 2400	
14012	P 4000	

POLISHING CLOTHS Ø 32MM

RÉF.	DESIGNATION	
Bag of 25		
16004	Self Adhesive Disc HS-B	
16001	Self Adhesive Disc HS-V	
16002	Self Adhesive Disc RAM	
16005	Self Adhesive Disc ADR II	

ABRASIVE PAPERS ZR+ Ø 32MM

REF.	GRIT	
14015	P 120	
14016	P 80	
14017	P 180	

ULTRASONIC CLEANER

At that time, the ultrasonic cleaning is one of the most commonly used laboratory processes for cleaning. The main interest with this type of cleaning is to quickly produce automatic clean samples for analysis with no damage to the samples. This cleaning process is applied just after the samples polishing. Tank supplied with lid.

CHARACTERISTICS

REF.	DESIGNATION	TANK DIMENSIONS	CAPACITY
61101	Ultrasonic cleaner	190 x 85 x 60mm	0.8l
61121	Basket for tank 0.8l		
61102	Ultrasonic cleaner	151 x 137 x 100mm	1.75l
61122	Basket for tank 1.75l		
61103	Ultrasonic cleaner	240 x 137 x 100mm	2.75l
61123	Basket for tank 2.75l		
61104	Ultrasonic cleaner	240 x 137 x 150mm	4.25l
61124	Basket for tank 4.25l		
61105	Ultrasonic cleaner	300 x 151 x 150mm	5.75l
61125	Basket for tank 5.75l		
61106	Ultrasonic cleaner	300 x 240 x 150mm	9.5l
61126	Basket for tank 9.5l		
61107	Ultrasonic cleaner	300 x 240 x 200mm	12.75l
61127	Basket for tank 12.75l		
61108	Ultrasonic cleaner	505 x 300 x 200mm	28l
61128	Basket for tank 28l		

COMPLEMENTARY EQUIPMENTS

Super Torque Brushless Motor EVO ENK-250 T with power cord
Ref. 90076

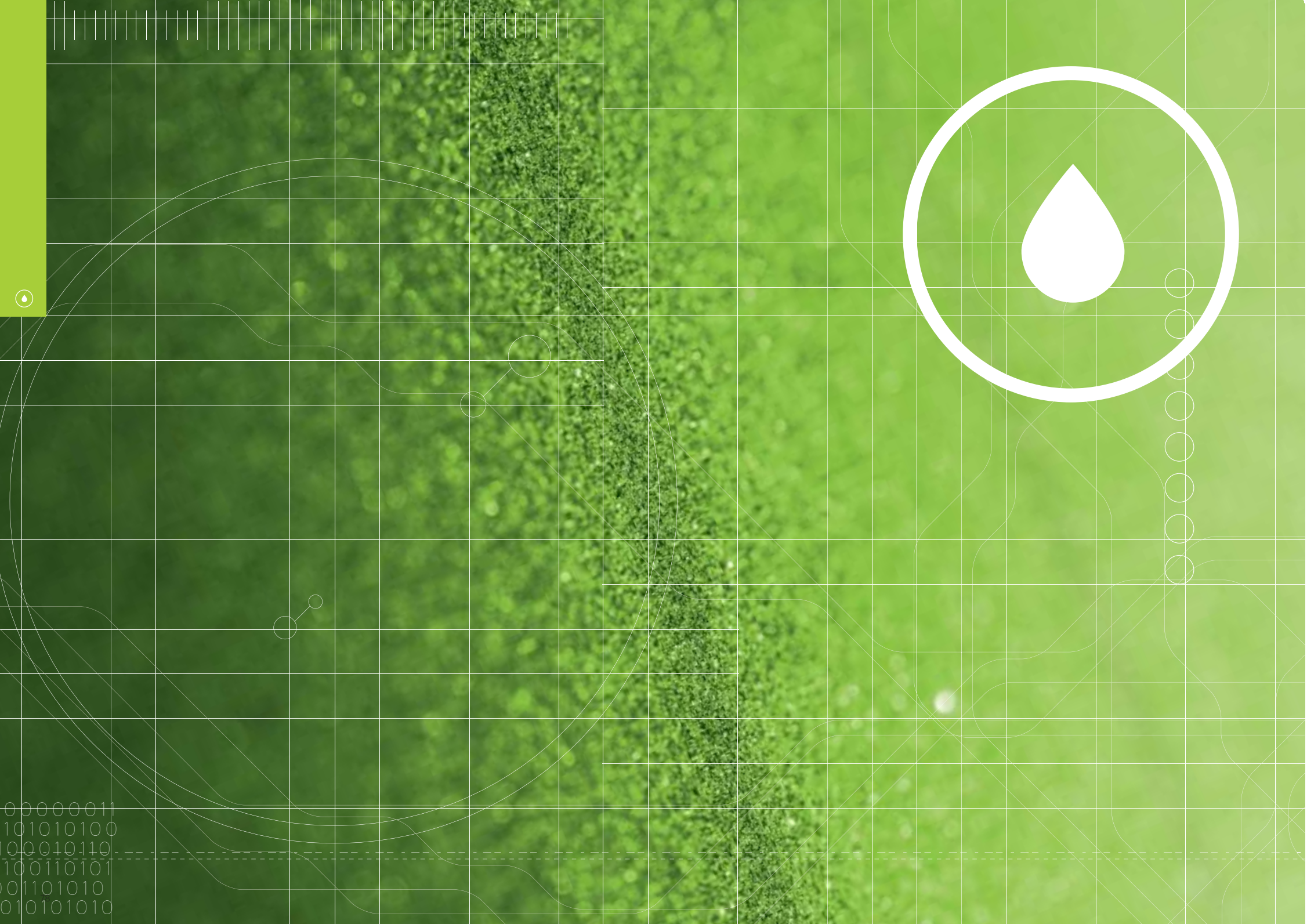
Ø 3 clamp for HG 200
Ref. 90060

HG 200 Straight end piece HG 200
Ref. 90052

KC 300 45° angle end piece
Ref. 90056

RG01 speed reduction gear (1/4)
Ref. 90071

Disc holder (set of 3) Ø 32mm
Ref. 25002



CONSUMABLES
FROM GRINDING TO SUPER-FINISHING

In metallogaphy, to polish a sample is essential in order to eliminate residual scratches and defects that would otherwise interfere with the analysis of the final results of metallographic controls (microscopic analysis, hardness testing and microstructure checks).

From the grinding stage to the super-finishing polishing stage, the aim consists in creating more and more fine scratches in order to obtain a mirror polish.

The high performance of our polishing process is made possible thanks to our wide range of consumables that fully preserve the integrity of the materials to be analysed.

Large scratches → **Fine scratches**

83 — **GRINDING**

I-MAX / I-MAX R
Tissediam
Grinding discs
Abrasive papers

90 — **FINISHING POLISHING**

Polishing cloths
MED R Discs
Diamond polishing:
• suspensions
• pastes and sticks

98 — **SUPER-FINISHING POLISHING**

Polishing cloths
Alumina suspensions
SPM
Cerium oxide

ADAPTATION DEVICES

Standard or magnetic polishing platens, non-adhesive, adhesive or magnetic polishing supports...
There are many possibilities and it can be sometimes complex!

PRESI invented and patented a revolutionary fixing process: Reflex FIX.
This exclusive system is a holding method for all kind of polishing supports (abrasive papers, diamond discs or polishing cloths).

Simplicity and speed.
No more adhesive or magnetic polishing supports, polish all your samples on one polishing platen!

Reflex CONCEPT

- EASIER PROCESSES
- FLEXIBILITY OF USE
- TIME SAVING
- NO TEDIOUS REMOVAL OF ADHERED SURFACES

REFLEX CONCEPT

AN IDEA OFTEN COPIED, NEVER EQUALLED.

European patent n° EP 1504846

1 Stick
the Reflex FIX to the polishing platen.

2 Put
your consumable on the Reflex FIX. It is fixed!

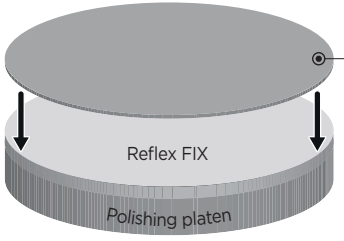
3 Remove
your consumable by simply lifting it.

Download the Reflex Fix technical sheet

ADAPTATION DEVICES

This devices enable adaptation across-all manufacturer machines and consumables.

REFLEX FIX

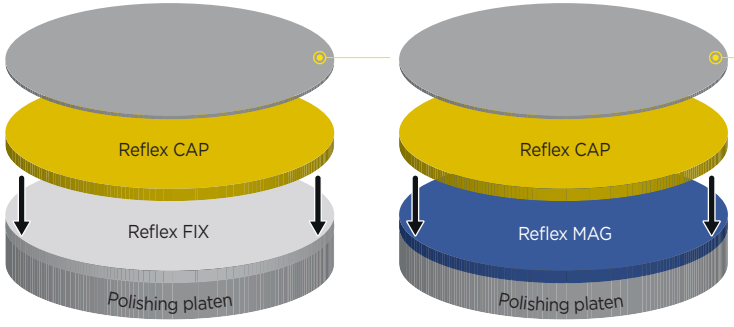


Consumables adapted to Reflex FIX:
- NAC abrasive papers
- I-MAX R diamond discs
- MED R polishing discs
- PAD-Mag polishing cloths
- Reflex CAP

REF.	DESIGNATION	Ø	
24030	1 device Reflex FIX	Ø 200 mm	
24031	1 device Reflex FIX	Ø 230 mm	
24032	1 device Reflex FIX	Ø 250 mm	
24033	1 device Reflex FIX	Ø 300 mm	
24034	1 device Reflex FIX	Ø 400 mm	

REFLEX CAP

The Reflex CAP (metallic plate) is a device that allows the use of adhesive consumables on the Reflex FIX or Reflex MAG.



Consumables adapted:
- Tissediam
- Papers and/or adhesive clothes
- ZR+

REF.	DESIGNATION	Ø	
Box of 5 discs			
24040	Reflex CAP	Ø 200mm	
24042	Reflex CAP	Ø 250mm	
24043	Reflex CAP	Ø 300mm	

NEW

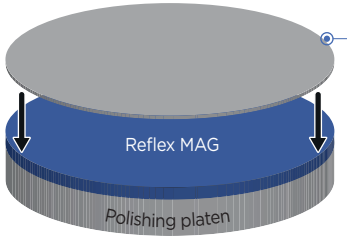
Non-adhesive device AD/AC

Adhesive device fixed on the polishing platen. It allows to use adhesive consumables with strong glue and to remove them without leaving any traces of glue.

REF.	DESIGNATION	Ø	
Box of 5 discs			
14950	Device AD/AC	Ø 200mm	
14951	Device AD/AC	Ø 250mm	
14952	Device AD/AC	Ø 300mm	
14953	Device AD/AC	Ø 400mm	

REFLEX MAG

The Reflex MAG is a device that allows the use of PRESI metal-backed consumables (for those who do not use the Reflex FIX) as well as all other magnetic consumables of a brand other than PRESI.

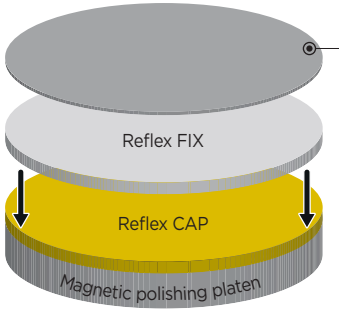


Consumables adapted to Reflex MAG:
- I-MAX R diamond discs
- MED R polishing discs
- PAD-Mag polishing cloths

REF.	DESIGNATION	Ø	
24036	1 Reflex MAG	Ø 200mm	
24038	1 Reflex MAG	Ø 250mm	
24039	1 Reflex MAG	Ø 300mm	

MAGNETIC FIX

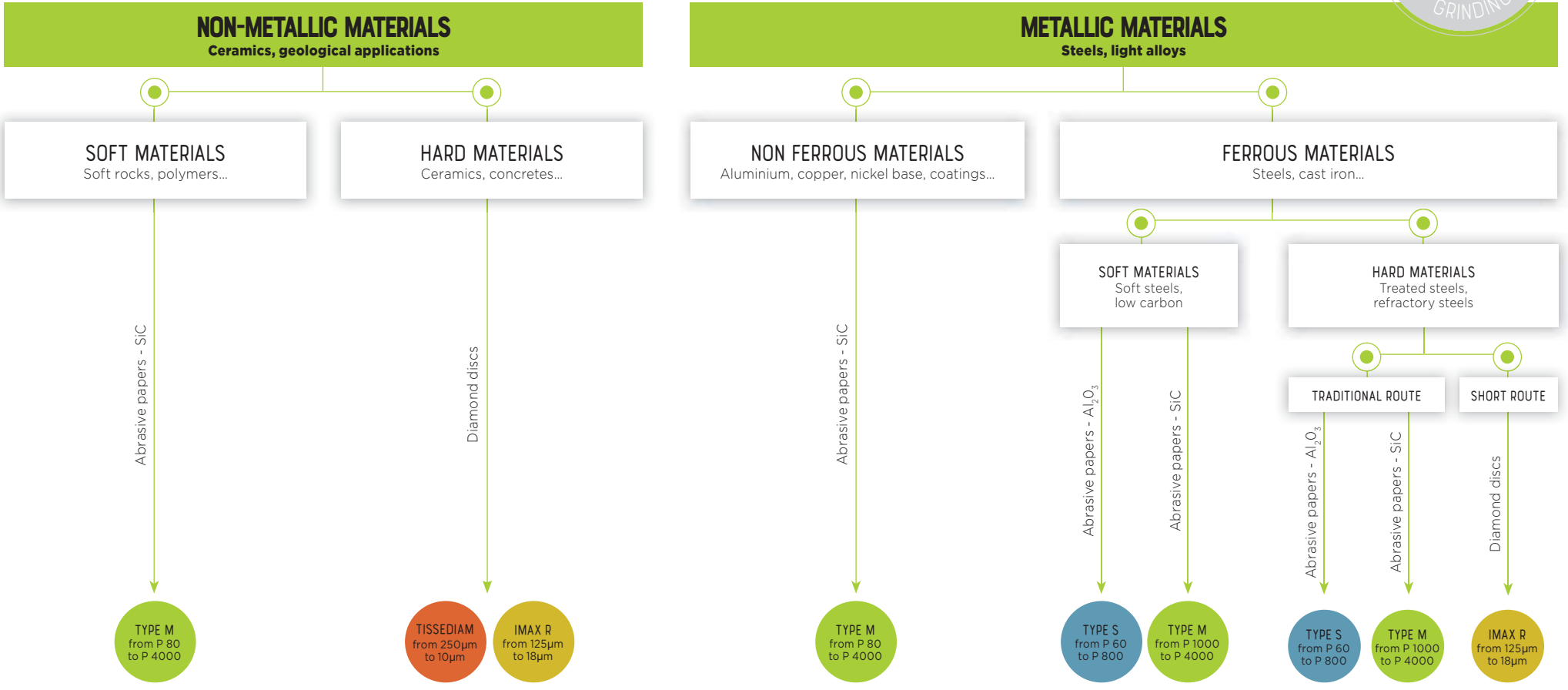
The Magnetic FIX is a device that allows the use of Reflex consumables on any polishing machine equipped with a magnetic polishing platen.



Consumables adapted to Reflex FIX:
- NAC abrasive papers
- I-MAX R diamond discs
- MED R polishing discs
- PAD-Mag polishing cloths
- Reflex CAP

REF.	DESIGNATION	Ø	
24025	Magnetic FIX (1 Reflex FIX + 1 Reflex CAP)	Ø 200mm	
24026	Magnetic FIX (1 Reflex FIX + 1 Reflex CAP)	Ø 250mm	
24027	Magnetic FIX (1 Reflex FIX + 1 Reflex CAP)	Ø 300mm	

GRINDING



LEGEND

- Metallic or resin bond diamond discs for the levelling or grinding of very hard materials.
- SiC abrasive.
- Al_2O_3 abrasive, except P1000, P1200, P2400 and P4000.
- Resin bond diamond discs designed for hard metallic materials adapted to reduce process time.

STANDARDS AND EQUIVALENTS														
FEPA P	P 60	P 80	P 100	P 120	P 180	P 240	P 320	P 400	P 600	P 800	P 1000	P 1200	P 2400	P 4000
US	60	80	100	120	180	240	-	320	-	400	600	-	800	1200
µ average	260	200	150	120	76	60	46	35	26	22	18	15	10	5
I-MAX R	125				75			54			18			

GRINDING

I-MAX R

New diamond discs with resin binder, designed and manufactured by PRESI, which saves around 40% polishing time. Delivering perfect flatness, the discs are developed with an innovative pattern for better residue flow.
With high diamond concentration, I-MAX R is designed for hard ferrous metal materials (cast iron, treated steal, etc.), and are adapted to short production runs.
Supplied with dressing stick.

REF.	DESIGNATION	GRIT	Ø	
24067	Reflex I-MAX R	Grey 18µ	200mm	
24069	Reflex I-MAX R	Grey 18µ	250mm	
24070	Reflex I-MAX R	Grey 18µ	300mm	
24072	Reflex I-MAX R	Yellow 54µ	Ø 200mm	
24074	Reflex I-MAX R	Yellow 54µ	Ø 250mm	
24075	Reflex I-MAX R	Yellow 54µ	Ø 300mm	
24077	Reflex I-MAX R	Red 75µ	Ø 200mm	
24079	Reflex I-MAX R	Red 75µ	Ø 250mm	
24080	Reflex I-MAX R	Red 75µ	Ø 300mm	
24082	Reflex I-MAX R	Blue 125µ	Ø 200mm	
24084	Reflex I-MAX R	Blue 125µ	Ø 250mm	
24085	Reflex I-MAX R	Blue 125µ	Ø 300mm	

Dressing stick for IMAX-R
Ref. 19014

I-MAX R

EVEN MORE EFFICIENT DIAMOND DISCS!

PRECISE
Unparalleled flatness for perfect polishing homogeneity.

100% EUROPEAN
Designed, developed and manufactured by PRESI.

DURABLE
Unparalleled service life for less waste.

EFFECTIVE
Polishing time gain of around 40%.

ECONOMICAL
1 I-MAX R = + 500 abravise papers*

*Depends on materials and polishing processes used.

MULTI-PURPOSE
Recognition of granulometry thanks to colour.

4 colours = 4 grit.
Metal back to fit magnetic or reflex FIX devices.

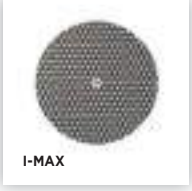
Download the I-MAX R technical sheet

GRINDING

I-MAX

Resin bond diamond discs designed for hard ferrous materials (cast iron, processed steel, etc...) adapted for fewer steps.

REF.	DESIGNATION	GRIT	Ø	
24400	Reflex I-MAX	18µ	200mm	
24402	Reflex I-MAX	18µ	250mm	
24404	Reflex I-MAX	18µ	300mm	
24411	Reflex I-MAX	18µ	400mm	
24401	Reflex I-MAX	54µ	200mm	
24403	Reflex I-MAX	54µ	250mm	
24405	Reflex I-MAX	54µ	300mm	
24412	Reflex I-MAX	54µ	400mm	
24408	Reflex I-MAX	75µ	200mm	
24409	Reflex I-MAX	75µ	250mm	
24410	Reflex I-MAX	75µ	300mm	
24413	Reflex I-MAX	75µ	400mm	
24414	Reflex I-MAX	125µ	200mm	
24415	Reflex I-MAX	125µ	250mm	
24416	Reflex I-MAX	125µ	300mm	



I-MAX

TISSEDIAM

Adhesive metallic or resin bond diamond discs for the leveling or grinding of non-metallic hard materials (ceramic, glass, quartz, ...). Delivered with dressing stick. If used with Reflex Fix, plan to use a Reflex CAP (cf p.81).

REF.	DESIGNATION	GRIT	Ø	
15066	1 Tissediam R	Blue 10µ	200mm	
15076	1 Tissediam R	Blue 10µ	250mm	
15086	1 Tissediam R	Blue 10µ	300mm	
15065	1 Tissediam R	Yellow 30µ	200mm	
15075	1 Tissediam R	Yellow 30µ	250mm	
15085	1 Tissediam R	Yellow 30µ	300mm	
15064	1 Tissediam M	Grey 20µ	200mm	
15074	1 Tissediam M	Grey 20µ	250mm	
15084	1 Tissediam M	Grey 20µ	300mm	
15063	1 Tissediam M	Yellow 40µ	200mm	
15073	1 Tissediam M	Yellow 40µ	250mm	
15083	1 Tissediam M	Yellow 40µ	300mm	
15062	1 Tissediam M	Red 75µ	200mm	
15072	1 Tissediam M	Red 75µ	250mm	
15082	1 Tissediam M	Red 75µ	300mm	
15061	1 Tissediam M	Black 125µ	200mm	
15071	1 Tissediam M	Black 125µ	250mm	
15081	1 Tissediam M	Black 125µ	300mm	
15060	1 Tissediam M	Green 250µ	200mm	
15070	1 Tissediam M	Green 250µ	250mm	
15080	1 Tissediam M	Green 250µ	300mm	

R = resin bond
M = metallic bond

SPECIAL ABRASIVE DISCS ZIRCONIUM OXIDE - ZR+

Abrasive discs made of zirconium oxide for high removal rate of material.

REF.	DESIGNATION	GRIT	Ø	
Box of 25				
14224	Self adhesive	P 60	200mm	
14225	Self adhesive	P 80	200mm	
14226	Self adhesive	P 120	200mm	
14227	Self adhesive	P 180	200mm	
14267	Self adhesive	P 60	250mm	
14268	Self adhesive	P 80	250mm	
14269	Self adhesive	P 120	250mm	
14270	Self adhesive	P 180	250mm	
14317	Self adhesive	P 60	300mm	
14318	Self adhesive	P 80	300mm	
14319	Self adhesive	P 120	300mm	
14320	Self adhesive	P 180	300mm	

DRESSING STICKS

For the cleaning and dressing of diamond discs.
20 x 12 x 75mm. Delivered in pack of 10.

REF.	DESIGNATION	GRIT	
19015	For metallic bond	220	
19016	For resin bond	400	

Dressing sticks for Tissediam

ADHESIVE DISCS REFLEX

Disk for converting non-adhesive and adhesive papers into NAC paper on the Reflex Fix. Box of 25 papers.

REF.	DESIGNATION	Ø	
24052	Adhesive discs Reflex	200mm	
24053	Adhesive discs Reflex	250mm	
24054	Adhesive discs Reflex	300mm	

Adhesive discs Reflex

ABRASIVE FOR LAPPING

SILICON CARBIDE POWDER*

REF.	DESIGNATION	GRIT	FEPA	
1 kg per box				
12027	Silicon Carbide	7µ	F800	
12026	Silicon Carbide	9µ	F600	
12024	Silicon Carbide	17µ	F400	
12023	Silicon Carbide	23µ	F360	
12021	Silicon Carbide	37µ	F280	
12020	Silicon Carbide	45µ	F240	
5 kg per box				
12127	Silicon Carbide	7µ	F800	
12126	Silicon Carbide	9µ	F600	
12125	Silicon Carbide	17µ	F400	
12124	Silicon Carbide	23µ	F360	
12123	Silicon Carbide	37µ	F280	
12122	Silicon Carbide	45µ	F240	

* Other abrasives and grain sizes: contact us.

Silicon Carbide

LAPPING OIL

Lapping mineral oil for abrasive powders (150 to 200g/l).

REF.	DESIGNATION	
12040	Bottle 1l	
12042	Bottle 10l	

LUBRICANT LAPPING

Lubrifiant soluble dans l'eau.

REF.	DESIGNATION	
12041	Flacon 1 l	
12043	Bidon 10 l	

Lubricant lapping

ALUMINA OXIDE POWDER*

REF.	DESIGNATION	GRIT	FEPA	
1kg per box				
12018	Alumina oxide powder	1µ	F1500	
12016	Alumina oxide powder	3µ	F1200	
12015	Alumina oxide powder	5µ	F1000	
12014	Alumina oxide powder	9µ	F600	
12013	Alumina oxide powder	12µ	F500	
12012	Alumina oxide powder	15µ	F400	
12011	Alumina oxide powder	20µ	F380	
12010	Alumina oxide powder	25µ	F340	
12009	Alumina oxide powder	30µ	F320	
12008	Alumina oxide powder	40µ	F260	
5kg per box				
12139	Alumina oxide powder	1µ	F1500	
12138	Alumina oxide powder	3µ	F1200	
12137	Alumina oxide powder	5µ	F1000	
12136	Alumina oxide powder	9µ	F600	
12135	Alumina oxide powder	12µ	F500	
12134	Alumina oxide powder	15µ	F400	
12133	Alumina oxide powder	20µ	F380	
12132	Alumina oxide powder	25µ	F340	
12131	Alumina oxide powder	30µ	F320	
12130	Alumina oxide powder	40µ	F260	

* Other abrasives and grit sizes: contact us.

Alumina oxide

BORON CARBIDE POWDER*

REF.	DESIGNATION	GRIT	FEPA	
500 gr per box				
12033	Boron Carbide	37µ	F280	
12035	Boron Carbide	17µ	F400	
12036	Boron Carbide	9µ	F600	
12038	Boron Carbide	5µ	F1000	

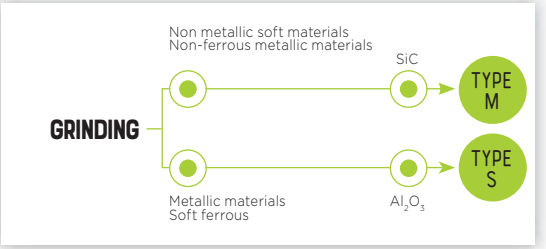
* Other abrasives and grit sizes: contact us.

Boron carbide

Micro-abrasive

Polyester sheets loaded with alumina oxide or diamond for the optics and electronic polishing. **Contact us.**

ABRASIVE PAPERS
Ø 200MM



NON-ADHESIVE

REF.	DESIGNATION	GRIT	
Box of 100			
13099	Type S	P 60	
13100	Type S	P 100	
13101	Type S	P 120	
13102	Type S	P 180	
13103	Type S	P 240	
13104	Type S	P 320	
13105	Type S	P 400	
13106	Type S	P 600	
13107	Type S	P 800	
13400	Type M	P 80	
13401	Type M	P 120	
13402	Type M	P 180	
13403	Type M	P 240	
13404	Type M	P 320	
13405	Type M	P 400	
13406	Type M	P 600	
13407	Type M	P 800	
13408	Type M	P 1000	
13409	Type M	P 1200	
13150	Type M	P 2400	
13151	Type M	P 4000	
Box of 25			
13200	Type S	P 100	
13201	Type S	P 120	
13202	Type S	P 180	
13209	Type S	P 240	
13203	Type S	P 320	
13204	Type S	P 400	
13205	Type S	P 600	
13206	Type S	P 800	
13207	Type M	P 1000	
13208	Type M	P 1200	
13222	Type M	P 2400	
13223	Type M	P 4000	

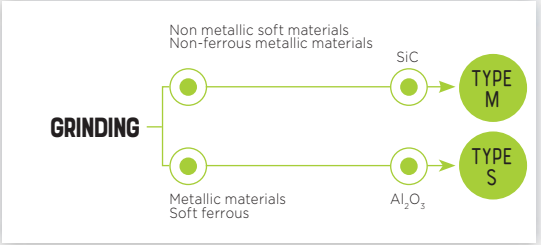
ADHESIVE

REF.	DESIGNATION	GRIT	
Box of 100			
14096	Type S	P 60	
14099	Type S	P 100	
14100	Type S	P 120	
14101	Type S	P 180	
14102	Type S	P 240	
14097	Type S	P 320	
14103	Type S	P 400	
14106	Type S	P 600	
14104	Type S	P 800	
14600	Type M	P 80	
14601	Type M	P 120	
14602	Type M	P 180	
14603	Type M	P 240	
14604	Type M	P 320	
14605	Type M	P 400	
14606	Type M	P 600	
14607	Type M	P 800	
14608	Type M	P 1000	
14609	Type M	P 1200	
14107	Type M	P 2400	
14108	Type M	P 4000	
Box of 25			
14199	Type S	P 60	
14200	Type S	P 100	
14201	Type S	P 120	
14202	Type S	P 180	
14209	Type S	P 240	
14203	Type S	P 320	
14204	Type S	P 400	
14205	Type S	P 600	
14206	Type S	P 800	
14207	Type M	P 1000	
14208	Type M	P 1200	
14244	Type M	P 2400	
14245	Type M	P 4000	

REFLEX NAC

REF.	DESIGNATION	GRIT	
Box of 100			
24500	Type S	P 60	
24501	Type S	P 100	
24502	Type S	P 120	
24503	Type S	P 180	
24504	Type S	P 240	
24505	Type S	P 320	
24506	Type S	P 400	
24507	Type S	P 600	
24508	Type S	P 800	
24575	Type M	P 80	
24576	Type M	P 120	
24577	Type M	P 180	
24578	Type M	P 240	
24579	Type M	P 320	
24580	Type M	P 400	
24581	Type M	P 600	
24582	Type M	P 800	
24583	Type M	P 1000	
24584	Type M	P 1200	
24511	Type M	P 2400	
24512	Type M	P 4000	

ABRASIVE PAPERS
Ø 250MM



NON-ADHESIVE

REF.	DESIGNATION	GRIT	
Box of 100			
13161	Type S	P 60	
13120	Type S	P 100	
13121	Type S	P 120	
13122	Type S	P 180	
13123	Type S	P 240	
13124	Type S	P 320	
13125	Type S	P 400	
13126	Type S	P 600	
13127	Type S	P 800	
13420	Type M	P 80	
13421	Type M	P 120	
13422	Type M	P 180	
13423	Type M	P 240	
13424	Type M	P 320	
13425	Type M	P 400	
13426	Type M	P 600	
13427	Type M	P 800	
13428	Type M	P 1000	
13429	Type M	P 1200	
13154	Type M	P 2400	
13155	Type M	P 4000	
Box of 25			
13250	Type S	P 100	
13251	Type S	P 120	
13252	Type S	P 180	
13259	Type S	P 240	
13253	Type S	P 320	
13254	Type S	P 400	
13255	Type S	P 600	
13256	Type S	P 800	
13257	Type M	P 1000	
13258	Type M	P 1200	
13295	Type M	P 2400	
13296	Type M	P 4000	

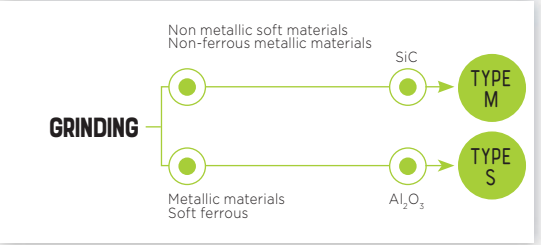
ADHESIVE

REF.	DESIGNATION	GRIT	
Box of 100			
14134	Type S	P 60	
14120	Type S	P 100	
14121	Type S	P 120	
14122	Type S	P 180	
14123	Type S	P 240	
14128	Type S	P 320	
14124	Type S	P 400	
14125	Type S	P 600	
14126	Type S	P 800	
14620	Type M	P 80	
14621	Type M	P 120	
14622	Type M	P 180	
14623	Type M	P 240	
14624	Type M	P 320	
14625	Type M	P 400	
14626	Type M	P 600	
14627	Type M	P 800	
14628	Type M	P 1000	
14629	Type M	P 1200	
14130	Type M	P 2400	
14131	Type M	P 4000	
Box of 25			
14249	Type S	P 60	
14250	Type S	P 100	
14251	Type S	P 120	
14252	Type S	P 180	
14259	Type S	P 240	
14253	Type S	P 320	
14254	Type S	P 400	
14255	Type S	P 600	
14256	Type S	P 800	
14257	Type M	P 1000	
14258	Type M	P 1200	
14265	Type M	P 2400	
14266	Type M	P 4000	

REFLEX NAC

REF.	DESIGNATION	GRIT	
Box of 100			
24530	Type S	P 60	
24531	Type S	P 100	
24532	Type S	P 120	
24533	Type S	P 180	
24534	Type S	P 240	
24535	Type S	P 320	
24536	Type S	P 400	
24537	Type S	P 600	
24538	Type S	P 800	
24595	Type M	P 80	
24596	Type M	P 120	
24597	Type M	P 180	
24598	Type M	P 240	
24599	Type M	P 320	
24600	Type M	P 400	
24601	Type M	P 600	
24602	Type M	P 800	
24603	Type M	P 1000	
24604	Type M	P 1200	
24541	Type M	P 2400	
24542	Type M	P 4000	

ABRASIVE PAPERS
Ø 300MM



NON-ADHESIVE

REF.	DESIGNATION	GRIT	
Box of 100			
13163	Type S	P 60	
13130	Type S	P 100	
13131	Type S	P 120	
13132	Type S	P 180	
13133	Type S	P 240	
13134	Type S	P 320	
13135	Type S	P 400	
13136	Type S	P 600	
13137	Type S	P 800	
13430	Type M	P 80	
13431	Type M	P 120	
13432	Type M	P 180	
13433	Type M	P 240	
13434	Type M	P 320	
13435	Type M	P 400	
13436	Type M	P 600	
13437	Type M	P 800	
13438	Type M	P 1000	
13439	Type M	P 1200	
13156	Type M	P 2400	
13157	Type M	P 4000	
Box of 25			
13300	Type S	P 100	
13301	Type S	P 120	
13302	Type S	P 180	
13309	Type S	P 240	
13303	Type S	P 320	
13304	Type S	P 400	
13305	Type S	P 600	
13306	Type S	P 800	
13307	Type M	P 1000	
13308	Type M	P 1200	
13330	Type M	P 2400	
13331	Type M	P 4000	

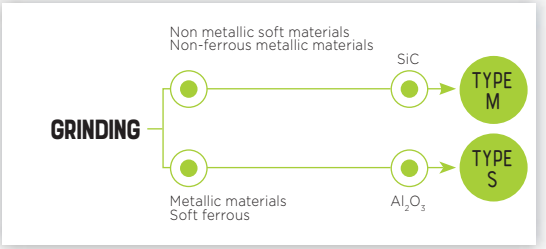
ADHESIVE

REF.	DESIGNATION	GRIT	
Box of 100			
14133	Type S	P 60	
14109	Type S	P 100	
14110	Type S	P 120	
14111	Type S	P 180	
14112	Type S	P 240	
14117	Type S	P 320	
14113	Type S	P 400	
14116	Type S	P 600	
14114	Type S	P 800	
14640	Type M	P 80	
14641	Type M	P 120	
14642	Type M	P 180	
14643	Type M	P 240	
14644	Type M	P 320	
14645	Type M	P 400	
14646	Type M	P 600	
14647	Type M	P 800	
14648	Type M	P 1000	
14649	Type M	P 1200	
14119	Type M	P 2400	
14132	Type M	P 4000	
Box of 25			
14299	Type S	P 60	
14300	Type S	P 100	
14301	Type S	P 120	
14302	Type S	P 180	
14309	Type S	P 240	
14303	Type S	P 320	
14304	Type S	P 400	
14305	Type S	P 600	
14306	Type S	P 800	
14307	Type M	P 1000	
14308	Type M	P 1200	
14315	Type M	P 2400	
14316	Type M	P 4000	

REFLEX NAC

REF.	DESIGNATION	GRIT	
Box of 100			
24545	Type S	P 60	
24546	Type S	P 100	
24547	Type S	P 120	
24548	Type S	P 180	
24549	Type S	P 240	
24550	Type S	P 320	
24551	Type S	P 400	
24552	Type S	P 600	
24553	Type S	P 800	
24605	Type M	P 80	
24606	Type M	P 120	
24607	Type M	P 180	
24608	Type M	P 240	
24609	Type M	P 320	
24610	Type M	P 400	
24611	Type M	P 600	
24612	Type M	P 800	
24613	Type M	P 1000	
24614	Type M	P 1200	
24556	Type M	P 2400	
24557	Type M	P 4000	

ABRASIVE PAPERS
Ø 230MM - Ø 305MM - Ø 400MM



NON-ADHESIVE Ø 230MM

REF.	DESIGNATION	GRIT	
Box of 100			
13110	Type S	P 100	
13111	Type S	P 120	
13112	Type S	P 180	
13113	Type S	P 240	
13114	Type S	P 320	
13115	Type S	P 400	
13116	Type S	P 600	
13117	Type S	P 800	
13410	Type M	P 80	
13411	Type M	P 120	
13412	Type M	P 180	
13413	Type M	P 240	
13414	Type M	P 320	
13415	Type M	P 400	
13416	Type M	P 600	
13417	Type M	P 800	
13418	Type M	P 1000	
13419	Type M	P 1200	
13152	Type M	P 2400	
13153	Type M	P 4000	
Box of 25			
13230	Type S	P 100	
13231	Type S	P 120	
13232	Type S	P 180	
13239	Type S	P 240	
13233	Type S	P 320	
13234	Type S	P 400	
13235	Type S	P 600	
13236	Type S	P 800	
13237	Type M	P 1000	
13238	Type M	P 1200	
13240	Type M	P 2400	
13241	Type M	P 4000	

REFLEX NAC Ø 230MM

REF.	DESIGNATION	GRIT	
Box of 100			
24515	Type S	P 60	
24516	Type S	P 100	
24517	Type S	P 120	
24518	Type S	P 180	
24519	Type S	P 240	
24520	Type S	P 320	
24521	Type S	P 400	
24522	Type S	P 600	
24523	Type S	P 800	
24585	Type M	P 80	
24586	Type M	P 120	
24587	Type M	P 180	
24588	Type M	P 240	
24589	Type M	P 320	
24590	Type M	P 400	
24591	Type M	P 600	
24592	Type M	P 800	
24593	Type M	P 1000	
24594	Type M	P 1200	
24526	Type M	P 2400	
24527	Type M	P 4000	

ADHESIVE Ø 400MM

REF.	DESIGNATION	GRIT	
Box of 25			
14410	Type S	P 60	
14400	Type S	P 100	
14401	Type S	P 120	
14402	Type S	P 180	
14409	Type S	P 240	
14403	Type S	P 320	
14404	Type S	P 400	
14405	Type S	P 600	
14406	Type S	P 800	
14407	Type M	P 1000	
14408	Type M	P 1200	
14411	Type M	P 2400	
14412	Type M	P 4000	

NON-ADHESIVE Ø 305MM

REF.	DESIGNATION	GRIT	
Box of 100			
13140	Type S	P 100	
13141	Type S	P 120	
13142	Type S	P 180	
13143	Type S	P 240	
13144	Type S	P 320	
13145	Type S	P 400	
13146	Type S	P 600	
13147	Type S	P 800	
13450	Type M	P 80	
13451	Type M	P 120	
13452	Type M	P 180	
13453	Type M	P 240	
13454	Type M	P 320	
13455	Type M	P 400	
13456	Type M	P 600	
13457	Type M	P 800	
13458	Type M	P 1000	
13459	Type M	P 1200	
13158	Type M	P 2400	
13159	Type M	P 4000	

POLISHING HOLDER

Polishing cloths influence the properties of the cutting of abrasives (diamond, alumina, silica...) with which they are used. MED R with a complete range of self-adhesive cloths and REFLEX PAD-MAG, solves all metallography or geology polishing problems using abrasives such as diamond, alumina, mechanico-chemical SPM solution.
Polishing cloths are classified in 4 main families: fine-grinding, rough-finishing, finishing and super-finishing.

MED R AND FINE GRINDING

NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	Metallic back-side version PAD MAG
MED R		Resinoids studs.	Levelling of all types of materials.	Polycrystalline super abrasive product / Diamond product	15 to 6µ		Ref. 24087: Ø 200mm Ref. 24089: Ø 250mm Ref. 24090: Ø 300mm
TMP		Wire gauze (stainless steel 18/8) fixed to a metallo-plastic support (polyethylene).	Very fast removal of material. Steels, carbides and ceramics.	Pastes / diamond solutions	45 to 6µ	Ref. 16208: Ø 200mm Ref. 16258: Ø 250mm Ref. 16308: Ø 300mm	Ref. 24174: Ø 200mm Ref. 24204: Ø 250mm Ref. 24232: Ø 300mm
TOP		Plasticised acetate silk taffeta.	Levelling of all types of materials.	Diamond products	15 to 6µ	Ref. 16214: Ø 200mm Ref. 16264: Ø 250mm Ref. 16314: Ø 300mm	Ref. 24161: Ø 200mm Ref. 24191: Ø 250mm Ref. 24206: Ø 300mm
RAM II		Acetate silk satin, plasticised and glued to a semi-rigid support.	Soft materials.	Diamond products	9 to 6µ	Ref. 16211: Ø 200mm Ref. 16261: Ø 250mm Ref. 16311: Ø 300mm	Ref. 24162: Ø 200mm Ref. 24192: Ø 250mm Ref. 24219: Ø 300mm

ROUGH-FINISHING CLOTHS

NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	Metallic back-side version PAD MAG
RAM		Acetate silk satin, plasticised and glued to a semi-rigid support.	Polishing and finishing with excellent flatness Inclusion retention-All materials.	Diamond products	3 to 1µ	Ref. 16216: Ø 200mm Ref. 16266: Ø 250mm Ref. 16316: Ø 300mm	Ref. 24160: Ø 200mm Ref. 24190: Ø 250mm Ref. 24205: Ø 300mm
STA		Acetate silk satin, plasticised and glued to a semi-rigid support.	All materials.	Diamond products	9 to 6µ	Ref. 16212: Ø 200mm Ref. 16262: Ø 250mm Ref. 16312: Ø 300mm	Ref. 24170: Ø 200mm Ref. 24200: Ø 250mm Ref. 24215: Ø 300mm
ADR II		Wool cloth woven on a soft support.	Semi-finishing polishing with excellent flatness. All types of steels/stainless steels.	Diamond products	6 to 3µ	Ref. 16226: Ø 200mm Ref. 16276: Ø 250mm Ref. 16326: Ø 300mm	Ref. 24172: Ø 200mm Ref. 24202: Ø 250mm Ref. 24218: Ø 300mm
NWF +		Synthetic fibers, elastomer bonded to a rough surface.	Final polishing of hard materials, refractories, carbides, ceramics. Applications for optics: glass and quartz (alumina & cerium oxide).	Diamond products Cerium oxide Alumina	3 to 1µ 2,5µ (cerium) 0,3µ (alumina)	Ref. 16215: Ø 200mm Ref. 16265: Ø 250mm Ref. 16309: Ø 300mm	Ref. 24168: Ø 200mm Ref. 24198: Ø 250mm Ref. 24213: Ø 300mm

FINISHING CLOTHS

NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	Metallic back-side version PAD MAG
NT		Flock and fixed to soft cotton taffeta.	Polishing and super-polishing of all types of materials.	Diamond products Aluminas SPM	3 to 1/4µ 0.03µ (SPM)	Ref. 16206: Ø 200mm Ref. 16256: Ø 250mm Ref. 16306: Ø 300mm	Ref. 24165: Ø 200mm Ref. 24195: Ø 250mm Ref. 24210: Ø 300mm
TFR		Very soft, short rayon flock embedded in a layer of soft plastic.	Super-finishing for inclusion investigations and control of structure on steels, aluminium, zirconium, magnesium.	Diamond products	1 to 1/4µ	Ref. 16204: Ø 200mm Ref. 16254: Ø 250mm Ref. 16304: Ø 300mm	Ref. 24167: Ø 200mm Ref. 24197: Ø 250mm Ref. 24212: Ø 300mm
RFI		Short rayon flock on cotton cloth.	Final polishing for all steels and super-finishing (inclusions).	Diamond products	3 to 1µ	Ref. 16230: Ø 200mm Ref. 16280: Ø 250mm Ref. 16330: Ø 300mm	Ref. 24169: Ø 200mm Ref. 24199: Ø 250mm Ref. 24207: Ø 300mm
HS V		Very short rayon flock fixed to semi-rigid plactic.	Polishing and finishing of all materials.	Diamond products (or alumina in some cases)	3µ	Ref. 16201: Ø 200mm Ref. 16251: Ø 250mm Ref. 16301: Ø 300mm	Ref. 24163: Ø 200mm Ref. 24193: Ø 250mm Ref. 24208: Ø 300mm
HS B		Very short rayon flock on strong cotton cloth.	Polishing and finishing of all materials.	Diamond products (or alumina in some cases)	1µ	Ref. 16202: Ø 200mm Ref. 16252: Ø 250mm Ref. 16302: Ø 300mm	Ref. 24164: Ø 200mm Ref. 24194: Ø 250mm Ref. 24209: Ø 300mm
NWF +		Elastomer bonded synthetic fibers on rough surface.	Final polishing of hard materials, refractories, carbides, ceramics. Applications for optics: glass and quartz (alumina & cerium oxide).	Diamond products Cerium oxide Aluminas	3 to 1µ 2.5µ (cerium) 0.3µ (alumina)	Ref. 16215: Ø 200mm Ref. 16265: Ø 250mm Ref. 16309: Ø 300mm	Ref. 24168: Ø 200mm Ref. 24198: Ø 250mm Ref. 24213: Ø 300mm

SUPER-FINISHING CLOTHS

NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	Metallic back-side version PAD MAG
DBM		Billiard cloth 100% wool.	Polishing and super-finishing for soft material (tin, lead).	Alumina Cerium oxide	6 to 0.3µ	Ref. 16218: Ø 200mm Ref. 16268: Ø 250mm Ref. 16318: Ø 300mm	Ref. 24173: Ø 200mm Ref. 24203: Ø 250mm Ref. 24231: Ø 300mm
SUPRA		Felt made of synthetic fibers impregnated with latex and covered by a layer of ploryurethane foam.	Super-finishing of all materials. Mirror polishing of semi-conductors, glass.	SPM Colloidal silica	0.03µ (SPM)	Ref. 16224: Ø 200mm Ref. 16274: Ø 250mm Ref. 16324: Ø 300mm	Ref. 24166: Ø 200mm Ref. 24196: Ø 250mm Ref. 24211: Ø 300mm
NV		Very soft flock cloth fixed to a soft cotton cloth.	Final polishing for soft materials (aluminium alloys, copper... Super -finishing for ceramics with cerium oxide.	Alumina Cerium oxide	0.8 - 1µ (alumine) 2.5µ (cérium)	Ref. 16207: Ø 200mm Ref. 16257: Ø 250mm Ref. 16307: Ø 300mm	Ref. 24171: Ø 200mm Ref. 24201: Ø 250mm Ref. 24217: Ø 300mm
LDR		Felt made of polyester fibers impregnated with polyurethane.	Electronic, carbon fiber Semi-conductor polishing.	Diamond products Alumina	1 to 1/4µ	Ref. 16223: Ø 200mm Ref. 16273: Ø 250mm Ref. 16323: Ø 300mm	On request

WOVEN

Made with **different fibres and weave sizes,** they are all laminated at the back to avoid penetration of the abrasive and extender into the adhesive layer. They generally offer "hard surface" polishing properties and guarantee flatness without edge deterioration.

FLOCKED

They are **classified according to their type, length, density and grade of flock, as well as flock support and bonding.**
Only flocked cloths provide a super-polished finish.
They must be used for the shortest possible time in order to avoid pull-out of inclusions.

NON-WOVEN

Mixture of various fibres impregnated with plastic, elastomer, latex... and often subject to mechano-chemical treatments.
They are used on very hard materials in order to get a high removal rate and for the finishing of light alloys.
They are an extension of metallographic methods for finishing of high precision surfaces such as glass, quartz, saphire and semi-conductors.

MED R

DISCS MED R

Polishing discs comprising of resin posts used with polycrystalline diamond or special super-abrasive suspensions.

REF.	DESIGNATION	Ø	
24087	Disc	Ø 200mm	
24089	Disc	Ø 250mm	
24090	Disc	Ø 300mm	

POLYCRYSTALLINE DIAMOND SUSPENSION FOR MED R

REF.	DESIGNATION	GRIT	
20613	500CC Bottle	6µ	
20623	1l Bottle	6µ	
20633	2.5l Bottle	6µ	
20614	500CC Bottle	9µ	
20624	1l Bottle	9µ	
20634	2.5l Container	9µ	
20615	500CC Bottle	15 µ	
20625	1l Bottle	15µ	
20635	2.5l Container	15µ	

SUPER-ABRASIVE SUSPENSION FOR MED R

REF.	DESIGNATION	GRIT	
20653	500CC Bottle	6µ	
20663	1l Bottle	6µ	
20673	2.5l Container	6µ	
20654	500CC Bottle	9µ	
20664	1l Bottle	9µ	
20674	2.5l Container	9µ	
20655	500CC Bottle	15µ	
20665	1l Bottle	15µ	
20675	2.5l Container	15µ	

MED R. QUICKER. MORE EFFECTIVE.

USED WITH A POLYCRYSTALLINE DIAMOND SUSPENSION OR A SPECIAL SUPER-ABRASIVE SUSPENSION.

REPLACES SEVERAL POLISHING STAGES:

- SAVINGS IN ABRASIVE PAPERS AND POLISHING CLOTHS
- GREATER STRENGTH THAN POLISHING CLOTH

Better removal rate

Better flatness

Enhanced circulation of polishing fluids

A complete range
3 diameters: 200, 250 and 300mm

Download the MED R technical sheet

POLISHING CLOTHS

Ø 200MM

ADHESIVE

Box of 5.

REF.	DESIGNATION	
16226	ADR II	
16218	DBM	
16202	HS-B	
16201	HS-V	
16223	LDR	
16206	NT	
16207	NV	
16215	NWF+	
16216	RAM	
16211	RAM II	
16230	RFI	
16212	STA	
16224	SUPRA	
16204	TFR	
16208	TMP	
16214	TOP	

REFLEX PAD-MAG

Box of 5.

REF.	DESIGNATION	
24172	ADR II	
24173	DBM	
24164	HS-B	
24163	HS-V	
24165	NT	
24171	NV	
24168	NWF+	
24160	RAM	
24162	RAM II	
24169	RFI	
24170	STA	
24166	SUPRA	
24157	SUPRA 5 embossed	
24167	TFR	
24174	TMP	
24161	TOP	

Ø 250MM

ADHESIVE

Box of 5.

REF.	DESIGNATION	
16276	ADR II	
16268	DBM	
16252	HS-B	
16251	HS-V	
16273	LDR	
16256	NT	
16257	NV	
16265	NWF+	
16266	RAM	
16261	RAM II	
16280	RFI	
16262	STA	
16274	SUPRA	
16254	TFR	
16258	TMP	
16264	TOP	

REFLEX PAD-MAG

Box of 5.

REF.	DESIGNATION	
24202	ADR II	
24203	DBM	
24194	HS-B	
24193	HS-V	
24195	NT	
24201	NV	
24198	NWF+	
24190	RAM	
24192	RAM II	
24199	RFI	
24200	STA	
24196	SUPRA	
24158	SUPRA 5 embossed	
24197	TFR	
24204	TMP	
24191	TOP	

Ø 300MM

ADHESIVE

Box of 5.

REF.	DESIGNATION	
16326	ADR II	
16318	DBM	
16302	HS-B	
16301	HS-V	
16323	LDR	
16306	NT	
16307	NV	
16309	NWF+	
16316	RAM	
16311	RAM II	
16330	RFI	
16312	STA	
16324	SUPRA	
16304	TFR	
16308	TMP	
16314	TOP	

Our adhesive polishing cloths are available in several other diameters! **Contact us.**

REFLEX PAD-MAG

Box of 5.

REF.	DESIGNATION	
24218	ADR II	
24231	DBM	
24209	HS-B	
24208	HS-V	
24210	NT	
24217	NV	
24213	NWF+	
24205	RAM	
24219	RAM II	
24207	RFI	
24215	STA	
24211	SUPRA	
24159	SUPRA 5 embossed	
24212	TFR	
24232	TMP	
24206	TOP	

Ø 400MM

ADHESIVE

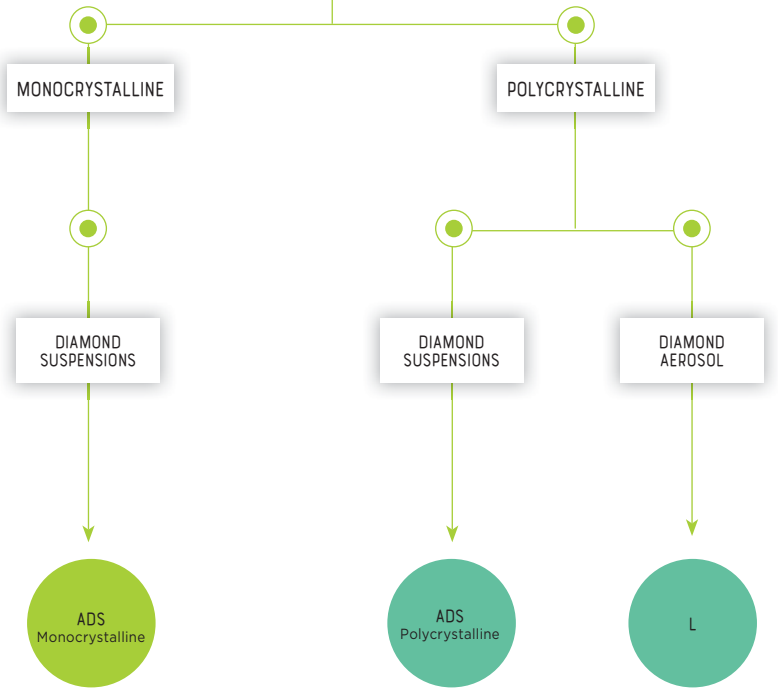
Box of 5.

REF.	DESIGNATION	
16402	HS-B	
16401	HS-V	
16423	LDR	
16406	NT	
16441	NWF+	
16416	RAM	
16411	RAM II	
16430	RFI	
16412	STA	
16424	SUPRA	

DIAMOND POLISHING

ALCOHOL BASE

Materials very sensitive to corrosion. Observation of inclusions

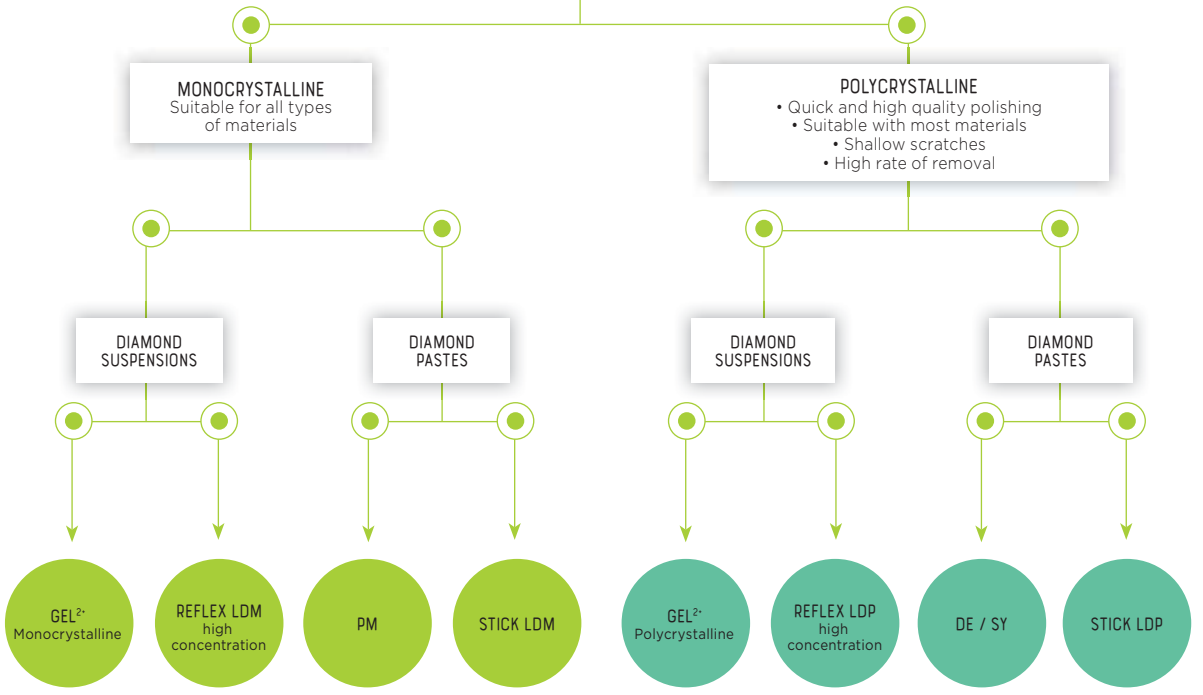


RECOMMENDED LUBRICANT

ADS | ADS | ADS

WATER BASE

Other applications



RECOMMENDED LUBRICANT

Ready for use | Reflex Lub | Lub PM | Reflex Lub | Ready for use | Reflex Lub | Lub DE | Reflex Lub

NB: all monocrystalline solutions are colored (except PM pastes).
The color is related to the grain size.

MONOCRYSTALLINE DIAMOND SUSPENSIONS

REFLEX LDM

Water based coloured diamond suspensions, monocrystalline, high concentration.
For the polishing of semi-hard and ductile materials.
To be used with lubricant Reflex Lub.

REF.	DESIGNATION	GRIT	
24330	250CC Bottle*	1/4µ	
24250	500CC Bottle*	1/4µ	
24283	1l Bottle	1/4µ	
24290	2.5l Drum	1/4µ	
24331	250CC Bottle*	1µ	
24251	500CC Bottle*	1µ	
24284	1l Bottle	1µ	
24291	2.5l Drum	1µ	
24332	250CC Bottle*	3µ	
24252	500CC Bottle*	3µ	
24285	1l Bottle	3µ	
24292	2.5l Drum	3µ	
24333	250CC Bottle*	6µ	
24253	500CC Bottle*	6µ	
24286	1l Bottle	6µ	
24293	2.5l Drum	6µ	
24334	250CC Bottle*	9µ	
24254	500CC Bottle*	9µ	
24287	1l Bottle	9µ	
24294	2.5l Drum	9µ	
24335	250CC Bottle*	15µ	
24255	500CC Bottle*	15µ	
24288	1l Bottle	15µ	
24295	2.5l Drum	15µ	

* Comes in a spray bottle.

ADS MONOCRYSTALLINE

New alcohol base diamond suspensions, anhydrous.
For the polishing of semi-hard and ductile materials, sensitive to corrosion and for observation of inclusions.
To be used with lubricant Lub ADS.

REF.	DESIGNATION	GRIT	
20096	250CC Bottle*	1/4µ	
20105	500CC Bottle*	1/4µ	
20114	1l Bottle	1/4µ	
20122	2.5l Drum	1/4µ	
20097	250CC Bottle*	1µ	
20106	500CC Bottle*	1µ	
20115	1l Bottle	1µ	
20123	2.5l Drum	1µ	
20098	250CC Bottle*	3µ	
20107	500CC Bottle*	3µ	
20116	1l Bottle	3µ	
20124	2.5l Drum	3µ	
20099	250CC Bottle*	6µ	
20108	500CC Bottle*	6µ	
20117	1l Bottle	6µ	
20125	2.5l Drum	6µ	
20100	250CC Bottle*	9µ	
20109	500CC Bottle*	9µ	
20118	1l Bottle	9µ	
20126	2.5l Drum	9µ	
20101	250CC Bottle*	15µ	
20110	500CC Bottle*	15µ	
20119	1l Bottle	15µ	
20127	2.5l Drum	15µ	

* Comes in a spray bottle.

GEL^{2+} MONOCRYSTALLINE

Coloured water base diamond gel, monocrystalline.
For the polishing of semi-hard and ductile materials.
Ready for use, no need to add lubricant.

REF.	DESIGNATION	GRIT	
24301	1l Bottle*	1/4µ	
24315	2.5l Drum	1/4µ	
24302	1l Bottle*	1µ	
24316	2.5l Drum	1µ	
24303	1l Bottle*	3µ	
24317	2.5l Drum	3µ	
24304	1l Bottle*	6µ	
24318	2.5l Drum	6µ	
24305	1l Bottle*	9µ	
24319	2.5l Drum	9µ	
24306	1l Bottle*	15µ	
24320	2.5l Drum	15µ	

* Comes in a spray bottle.

SPRAYS

REF.	DESIGNATION	
10008	5 bottles of 500CC	
10015	10 bottles of 250CC	
10016	50 bottles of 50CC	

Sprays 500 CC

Sprays 250 CC

Sprays 50 CC

POLYCRYSTALLINE DIAMOND
SUSPENSIONS

REFLEX LDP

Water base diamond suspensions, polycrystalline, high concentration.
For the polishing of mi-hard to very-hard materials.
To be used with lubricant Reflex Lub.

REF.	DESIGNATION	GRIT	
24340	250CC Bottle*	1/4µ	
24260	500CC Bottle*	1/4µ	
24439	1l Bottle	1/4µ	
24446	2.5l Drum	1/4µ	
24341	250CC Bottle*	1µ	
24261	500CC Bottle*	1µ	
24440	1l Bottle	1µ	
24447	2.5l Drum	1µ	
24342	250CC Bottle*	3µ	
24262	500CC Bottle*	3µ	
24441	1l Bottle	3µ	
24448	2.5l Drum	3µ	
24343	250CC Bottle*	6µ	
24263	500CC Bottle*	6µ	
24442	1l Bottle	6µ	
24449	2.5l Drum	6µ	
24344	250CC Bottle*	9µ	
24264	500CC Bottle*	9µ	
24443	1l Bottle	9µ	
24450	2.5l Drum	9µ	
24345	250CC Bottle*	15µ	
24265	500CC Bottle*	15µ	
24444	1l Bottle	15µ	
24451	2.5l Drum	15µ	

* Comes in a spray bottle.

ADS POLYCRISTALLINE

New alcohol base diamond suspensions, anhydrous. For the polishing of mi-hard to very-hard materials, sensitive to corrosion and for observation of inclusions. To be used with lubricant Lub ADS.

REF.	DESIGNATION	GRIT	
20060	250CC Bottle*	1/4µ	
20069	500CC Bottle*	1/4µ	
20078	1l Bottle	1/4µ	
20087	2.5l Drum	1/4µ	
20061	250CC Bottle*	1µ	
20070	500CC Bottle*	1µ	
20079	1l Bottle	1µ	
20088	2.5l Drum	1µ	
20062	250CC Bottle*	3µ	
20071	500CC Bottle*	3µ	
20080	1l Bottle	3µ	
20089	2.5l Drum	3µ	
20063	250CC Bottle*	6µ	
20072	500CC Bottle*	6µ	
20081	1l Bottle	6µ	
20090	2.5l Drum	6µ	
20064	250CC Bottle*	9µ	
20073	500CC Bottle*	9µ	
20082	1l Bottle	9µ	
20091	2.5l Drum	9µ	
20065	250CC Bottle*	15µ	
20074	500CC Bottle*	15µ	
20083	1l Bottle	15µ	
20092	2.5l Drum	15µ	

* Comes in a spray bottle.

GEL^{2+} POLYCRISTALLINE

Water base diamond Gel, polycrystalline.
For the polishing of mi-hard to very-hard materials.
Ready for use, no need to add lubricant.

REF.	DESIGNATION	GRIT	
24309	1l Bottle*	1/4µ	
24321	2.5l Drum	1/4µ	
24310	1l Bottle*	1µ	
24322	2.5l Drum	1µ	
24311	1l Bottle*	3µ	
24323	2.5l Drum	3µ	
24312	1l Bottle*	6µ	
24324	2.5l Drum	6µ	
24313	1l Bottle*	9µ	
24325	2.5l Drum	9µ	
24314	1l Bottle*	15µ	
24326	2.5l Drum	15µ	

* Comes in a spray bottle.

SPRAYS

REF.	DESIGNATION	
10008	5 bottles of 500CC	
10015	10 bottles of 250CC	
10016	50 bottles of 50CC	

Sprays 500 CC

Sprays 250 CC

Sprays 50 CC

DIAMOND PASTES & STICKS

MONOCRYSTALLINE AND POLYCRYSTALLINE

DIAMOND PASTES - PM

Monocrystalline diamond paste, high concentration, soluble in water and alcohol. For the polishing of special and stainless steels, cast iron... To be used with lubricant PM.

REF.	DESIGNATION	GRIT	
05001	5g syringe	1/4µ	
05002	10g syringe	1/4µ	
05003	5g syringe	1µ	
05004	10g syringe	1µ	
05005	5g syringe	2µ	
05006	10g syringe	2µ	
05007	5g syringe	3µ	
05008	10g syringe	3µ	
05009	5g syringe	6µ	
05010	10g syringe	6µ	
05011	5g syringe	9µ	
05012	10g syringe	9µ	
05013	5g syringe	15µ	
05014	10g syringe	15µ	
05015	5g syringe	30µ	
05016	10g syringe	30µ	
05017	5g syringe	45µ	
05018	10g syringe	45µ	

DIAMOND AEROSOLS - L

Alcohol base diamond suspension, polycrystalline, aerosol. For the polishing of very hard and ductile materials.

REF.	DESIGNATION	GRIT	
07001	Flacon 150 CC	1/4 µ	
07002	Flacon 150 CC	1 µ	
07003	Flacon 150 CC	3 µ	
07004	Flacon 150 CC	6 µ	

DIAMOND PASTES - DE/SY

Polycrystalline diamond paste, high concentration, soluble in water and alcohol. For the polishing of hard materials. To be used with lubricant DE.

REF.	DESIGNATION	GRIT	
06017	5g syringe	1/4µ	
06018	10g syringe	1/4µ	
06019	5g syringe	1µ	
06020	10g syringe	1µ	
06021	5g syringe	3µ	
06022	10g syringe	3µ	
06023	5g syringe	6µ	
06024	10g syringe	6µ	
06025	5g syringe	9µ	
06026	10g syringe	9µ	
06027	5g syringe	15µ	
06028	10g syringe	15µ	
06029	5g syringe	30µ	
06030	10g syringe	30µ	
06031	5g syringe	45µ	
06032	10g syringe	45µ	

LUBRICANTS

REF.	DESIGNATION	TYPE	COLOR	
10005	1l Bottle	DE	Pink	
10020	10l Drum	DE	Pink	
10006	1l Bottle	PM	Orange	
10021	10l Drum	PM	Orange	
10013	1l Bottle	ADS	Transparent	
10025	10l Drum	ADS	Transparent	
24270	1l Bottle*	Reflex Lub	Green	
24271	10l Drum	Reflex Lub	Green	

* Comes in a spray bottle.

DIAMOND STICKS - LDM

Coloured water base diamond paste, monocrystalline, delivered in stick. For the polishing of mi-hard to very-hard materials.
To be used with lubricant Reflex Lub.

REF.	DESIGNATION	GRIT	
18010	20g	1/4µ	
18011	20g	1µ	
18012	20g	3µ	
18013	20g	6µ	
18014	20g	9µ	
18015	20g	15µ	
18016	20g	25µ	

DIAMOND STICKS - LDP

Water base diamond paste, polycrystalline, not coloured, delivered in stick. For the polishing of mi-hard to very-hard materials.
To be used with lubricant Reflex Lub.

REF.	DESIGNATION	GRIT	
18020	20g	1/4µ	
18021	20g	1µ	
18022	20g	3µ	
18023	20g	6µ	
18024	20g	9µ	
18025	20g	15µ	
18026	20g	25µ	

Diamond sticks

Lubricants

SUPER-FINISHING
POLISHING

PRESI ALUMINA SUSPENSIONS

PRESI N° 1 - Grit: 0.04µ.
Use: super-finishing of soft materials such as copper, lead, aluminium...

PRESI N° 2 - Grit: 0.3µ.
Use: finishing of copper alloys, nickel, brass, bronze, aluminium...

PRESI N° 3 - Grit: 0.8µ.
Use: finishing of hard steels and materials (finish suitable for direct observation or medium magnification).

PRESI N° 4 - Grit: 1µ.
Use: specially recommended for fine pre-polishing of all metals.

REF.	DESIGNATION	GRIT	
Bottle of 1l			
11004	N° 1 (48h)	0.04µ	
11005	N° 2 (24h)	0.3µ	
11006	N° 3 (12h)	0.8µ	
11007	N° 4 (6h)	1µ	

SPM (COLLOIDAL SILICA) NON CRYSTALLISING

New SPM non crystallising formulation, especially recommended for super-finishing of specimens with thin coatings.

REF.	DESIGNATION	GRIT	
12045	1l Bottle	0.03µ	
12046	10l Drum	0.03µ	
24281	1l trigger Spray bottle (Reflex)*	0.03µ	

* Comes in a spray bottle.

DUJARDIN ALUMINA SUSPENSIONS

DUJARDIN N° 1 - Grit: 0-1µ. Blue.
Use: suitable for polishing of steel and hard steels.

DUJARDIN N° 2 - Grit: 0-0.7µ. White.
Use: produces a flawless surface with all hard and semi-hard metals. Suitable for brass, bronze... and more generally, for all copper and nickel alloys.

DUJARDIN N° 3 - Grit: 0-0.3µ. Pink.
Use: for finishing of metallographic specimens and in particular for soft metals: copper, lead... Can be used in certain cases for finishing after diamond polishing.

REF.	DESIGNATION	GRIT	
Bottle of 1l			
11012	N° 3	0-0.3µ	
11011	N° 2	0-0.7µ	
11010	N° 1	0-1µ	

SPM (COLLOIDAL SILICA)

SPM suspension is intended for super-finishing of aluminium, copper, titanium specimens and more generally any specimen with thin layers. This suspension can be diluted up to 7 times in water. To avoid crystallisation, the specimens and the cloth must be thoroughly rinsed with water after polishing.

REF.	DESIGNATION	GRIT	
12006	1l Bottle	0.03µ	
12007	10l Drum	0.03µ	
24280	1l trigger Spray bottle (Reflex)*	0.03µ	

* Comes in a spray bottle.

PRESI ALUMINA POWDERS

REF.	DESIGNATION	
Box of 1 kg		
11001	Gamma 0.04µ	
11002	Alpha 0.3µ	
11003	Alpha 1µ	

CERIUM OXIDE

Suitable for the polishing of optics and ceramics.

REF.	DESIGNATION	GRIT	
36207	1kg Pack	2.5µ	

ELECTROLYTIC POLISHING

Electrolytic attack polishing is used for the examination of homogenously-structured materials, both for control and research purposes.

ELECTROLYTES FOR ELLOPOL TYPE PORTABLE DEVICE

ELLOPOL electrolytes can be used on-site for non-destructive testing (replic) or in the laboratory. They can only be used in the case of pad polishing.
The area to polish is just dampened with the electrolyte contained in the cap, and a very small quantity of electrolyte is used. The polishing or attack operation is slower, but delivers ideal attack of fine structures.

REF.	DESIGNATION	FORMULA	USE
17201	Electrolyte BEPER	909ml butylene glycol + 91ml perchloric acid	Alpax, beryllium, cadmium, magnesium and its alloys, cast irons
17202	Electrolyte BAPER	944ml butylene glycol + 56ml perchloric acid	Magnesium and its alloys
17203	Electrolyte BUPAC	455ml butylene glycol + 454ml acetic acid + 91ml perchloric acid	Lamellar or nodular graphite cast iron
17204	Electrolyte BUPER	833ml butylene glycol + 167ml perchloric acid	Lamellar or nodular graphite cast iron
17206	Electrolyte FOSET*	400ml orthophosphoric acid + 560ml Ethanol + 40ml water	Copper and alloys, aluminium and alloys, uranium
17213	Electrolyte OPALU-B*	540ml orthophosphoric acid + 216ml butylene glycol + 216ml Ethanol + 27ml water	Copper and alloys, uranium

* Subject to customs regulations. Certificate of use to be provided.

SOLUTIONS FOR ELECTROLYTIC POLISHING FOR POLISEC C 25

POLISEC electrolytes are designed for laboratory control on samples.
They are made up to be used in cells or in a bath, depending on the materials to be polished or attacked. Polishing or attack operations are generally very short because of the circulation of electrolytes causing rapid material removal.

REF.	DESIGNATION	FORMULA	USE
17100	Electrolyte D 11 1/2*	700ml Ethanol + 100ml butylene glycol	Steels, stainless steels, aluminium, iron, nickel
	Electrolyte D 11 2/2	200ml Perchloric acid	
17101	Electrolyte D 12 1/2	590ml methanol + 350ml butylene glycol	Molybdène, zirconium, titane, aluminium
	Electrolyte D 12 2/2	60ml perchloric acid	
17102	Electrolyte D 13 1/2*	600ml Ethanol + 180ml glacial acetic acid + 45g sodium acetate + 32g sodium hydroxide	Uranium, lead, tin, antimony
	Electrolyte D 13 2/2	90ml perchloric acid + 66ml water	
17103	Electrolyte D 14 1/2*	900ml Ethanol + 50g tartric acid	Aluminium alloys, cobalt alloys
	Electrolyte D 14 2/2	60ml perchloric acid	
17104	Electrolyte D 15 1/2*	1l Ethanol + 100g sodium thiocyanate + 100g citric acid	Cast iron, magnesium and magnesium alloys, high-alloys steels
	Electrolyte D 15 2/2	15ml perchloric acid	
17106	Electrolyte D 31 1/2	500ml water + 250ml orthophosphoric acid + 250ml ethyl alcohol	Copper, cobalt alloys, brass
	Electrolyte D 31 2/2	50ml isopropanol + 5g urea	
17107	Electrolyte D 61*	800ml Ethanol + 160g sodium thiocyanate + 80ml butyl glycol	Zinc and zinc alloys, magnesium and magnesium alloys
17108	Electrolyte D 62 1/2*	900ml Ethanol + 300g copper nitrate	Copper alloys, bronze, brass
	Electrolyte D 62 2/2	30ml nitric acid	
17110	Electrolyte D 71 1/2	1l water	Tungsten
	Electrolyte D 71 2/2	200g sodium hydroxide	

* Subject to customs regulations. Certificate of use to be provided.

ATTACK REAGENTS

Attack reagents reveal the macrographic or micrographic structure of your samples.
Generally applied to a properly-prepared surface they will reveal: welds, grain joints, phases, etc.
As a contrast agent or a true revealer of a structure or microstructure, PRESI has selected a set of reagents to meet practically all your needs.
Specific reagents on demand. Dangerous products : specific transport costs and prices upon request.

REF. 100ML	REF. 1L	NAME	FORMULA	ETCHANT	USE
17251	17252	NITAL 3%*	3ml HNO_3 + 100ml Ethanol	Micro	Steels - Revealing ferrite grains / phases Magnesium and most magnesium alloys Tin and tin rich alloys with cadmium, copper, iron and antimony Gadolinium Rare earth Cobalt alloys
17220	17221	NITAL 4%*	4ml HNO_3 + 100ml Ethanol		
17253	17254	NITAL 5%*	5ml HNO_3 + 100ml Ethanol		
17255	17256	NITAL 7%*	7ml HNO_3 + 100ml Ethanol	Macro	Steels - after approach work
17257	17258	NITAL 15%*	15ml HNO_3 + 100ml Ethanol		
17259	17260	Oberhoffer etchant*	500ml H_2O + 500ml Ethanol + 50ml HCl + 30g $FeCl_3$ + 1g $CuCl_2$ + 0.5g $SnCl_2$	Macro	Non-alloys or low-alloyed steels
17222	17223	Picral -1 etchant*	10g Picric acid + 100ml Ethanol	Micro	Iron Carbon steels Low-alloyed steels Cast iron & cast steels coated with iron / tin General etchant for steels, in particular revealing carbide, good phase resolution
17261	17262	Picral -2 etchant*	4g Picric acid + 100ml Ethanol		
17263	17264	Béchet - Beaujard etchant	4g acid picrique + 99ml H_2O + 1ml Teepol	Micro	Steels - Revealing grain joints in and low-alloys quenched and tempered carbon steels (1 to 3 hours attack)
17265	17266	Iron chloride III acidified solution	48ml H_2O + 12 ml HCl + 5g $FeCl_3$	Macro	Steels - Macroscopic examination in general use. For chromium steels, nickel and stainless steels
17267	17268	Iron chloride III neutral solution	Aqueous solution - 41% $FeCl_3$	Macro	Steels - Steels weld
17228	17229	Fry A etchant*	40ml HCl + 5g $CuCl_2$ + 30ml H_2O + 25ml Ethanol	Macro	Steels - Steels attack
17283	17284	Fry B etchant	100ml H_2O + 150ml HCl + 67g $CuCl_2$	Macro	Carbon steels - Flux lines
17269	17270	Le Chatelier N°2 etchant*	100ml Ethanol + 10ml H_2O + 1g $CuCl_2$ + 0,5g Picric acid + 2ml HCl	Micro	Iron - Eutectic cells of a grey cast iron
17244	17245	Curran etchant	10ml $FeCl_3$ + 30ml HCl + 100ml H_2O	Micro	Stainless steels
17232	17233	Marble etchant	10g $CuSO_4$ + 50 ml HCl + 50 ml H_2O	Macro	
17224	17225	Aqua regia	20 ml HNO_3 + 60 ml HCl	Micro	Austenitic stainless steels
17230	17231	Murakami etchant	10 g $K_3Fe(CN)_6$ + 10 g KOH + 100ml H_2O	Micro	Austenitic and ferritic stainless steels, tungsten carbide
17226	17227	Kalling etchant*	2g $CuCl_2$ + 40ml HCl + 60ml Ethanol	Micro	Austenitic and ferritic stainless steels
17234	17235	Villela etchant*	5ml HCl + 1g Picric acid + 100ml Ethanol	Micro	Austenitic stainless steels - Revealing of grain, tool steels, martensitic stainless steels
17285	17286	V2A etchant	100ml H_2O + 100ml HCl + 10ml HNO_3	Micro	Stainless steels - Size of grain (Attack between 50 and 60°C)

* Subject to customs regulations. Certificate of use to be provided.

REF. 100ML	REF. 1L	NAME	FORMULA	ETCHANT	USE
17236	17237	Barker etchant	5g HBF_4 + 200ml H_2O	Micro	Aluminium - Revealing of structure/grains
17238	17239	Keller etchant	2ml HF + 3ml HCl + 5ml HNO_3 + 190ml H_2O	Micro	Aluminium - Revealing of structure.
17271	17272	5% HF solution in distilled water	Aqueous solution - 5% de HF	Micro	Aluminium - Microstructures of brazed aluminium seals (Observation of dissolution phenomena)
17273	17274	5% sodium solution	Aqueous solution - 5% NaOH	Micro	Aluminium alloys
17275	17276	10% sodium solution	Aqueous solution - 10% NaOH	Macro	Aluminium alloys, weld
17240	17241	Potassium dichromate	1g $K_2Cr_2O_7$ + 4ml H_2SO_4 + 50ml H_2O	Micro	Copper - Revealing of grain
17277	17278	Alcohol solution of iron chloride III acid	5g de $FeCl_3$ + 5ml d'HCl + 95ml Ethanol	Micro	Copper compounds - Copper compound attack
17246	17247	INVAR / KOVAR	400ml HCl + 8g $CuCl_2$ + 400ml H_2O + 800ml MEthanol + 28g $FeCl_3$ + 20ml HNO_3	Micro	Invar - Kovar
17242	17243	Kroll etchant	3ml HF + 6ml HNO_3 + 100ml H_2O	Micro	Titanium - Revealing of structure Titanium alloys primarily alloys Ti-Al-V-(Sn)
17279	17280	Adler etchant	25ml water + 3g [$(NH_4)2CuCl_4$, 2 H_2O] + 50ml HCl + 15g $FeCl_3$	Micro/Macro	Attack of Inconel Superalloys Corrosion resistant steels Cobalt and nickel alloys
	17281	Denatured ethanol (5l)*	-	-	Cleaning
	17282	Denatured ethanol (10l)*	-	-	Cleaning

* Subject to customs regulations. Certificate of use to be provided.

ATTACK OF A STEEL WELD USING NITAL 4%

Macro before attack

Macro after attack

Micro before attack

Micro after attack

NUCLEAR

MACHINES DEDICATED TO NUCLEAR AND HOSTILE ENVIRONMENTS

PRESI has real expertise to adapt to hostile environments. Its experience is based on strong points:

- Absolute control of production and manufacturing processes
- High technicality
- Easy maintenance tools.

To meet very specific needs, PRESI adapts its cutting, mounting and polishing machines using high technology to achieve the highest quality.

Exemplary reliability for glove boxes and hot cells.

Designed and developed on demand, our custom-made equipment and accessories are completely redesigned with the appropriate materials: stainless steel, reduction of plastics, etc.

They offer optimal resistance to aggressive sources, adapt safely to hostile environments and can be used remotely with manipulator arms and remote controls.

Specific project, specific machine.

PRESI provides support from project definition to on-site product training.

NUCLEAR CUTTING MACHINE

NUCLEAR MOUNTING MACHINE

NUCLEAR POLISHING MACHINE

MADE TO MEASURE

MACHINES 100% CUSTOMISED TO YOUR PROJECTS

Since 1961, we have been developing our experience, the know-how of our technicians and the resources of our Research and Development department.

Our customers trust us and ask us for more and more precise and specific requests. This allows us to transform our initial offer to 100% adapted products: biomedical, aeronautic, metallurgy.

A tested and approved method.

Whatever your area of application, your problem, your budget or your deadline, PRESI will be there to help you in your projects to offer you a 100% tailor-made solution.

Tailor-made conception of benches.

A fully equipped custom-made materialographic laboratory (follow-up of the project in 3D with projections in realistic format).

CUTTING SPECIFIC VICES AND OTHER ACCESSORIES

Ball vice
T300, T330, ST310

Pneumatic vice for core cutting on dual blade T260

Specific vice for tip slotting, indexed to 90°

Turning deck: fixed on slotted T table
(T300, ST310, T330, EVO 400)

Specific jaws for vice

POLISHING SPECIFIC PLATES

Special central pressure plate for tube

Special central pressure plate with dual tightening

Special central pressure plate for thin section tube

Special central pressure plate for rectangular sample

Special individual pressure plate for rectangular sample

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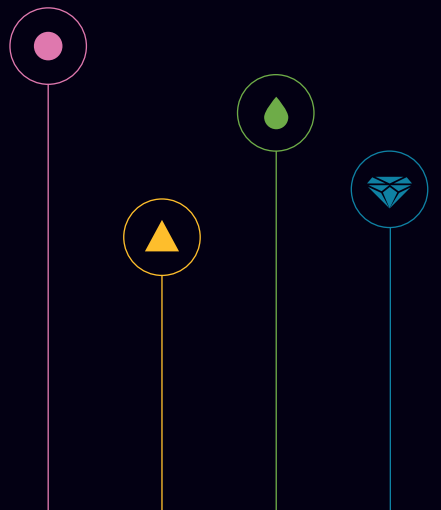

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