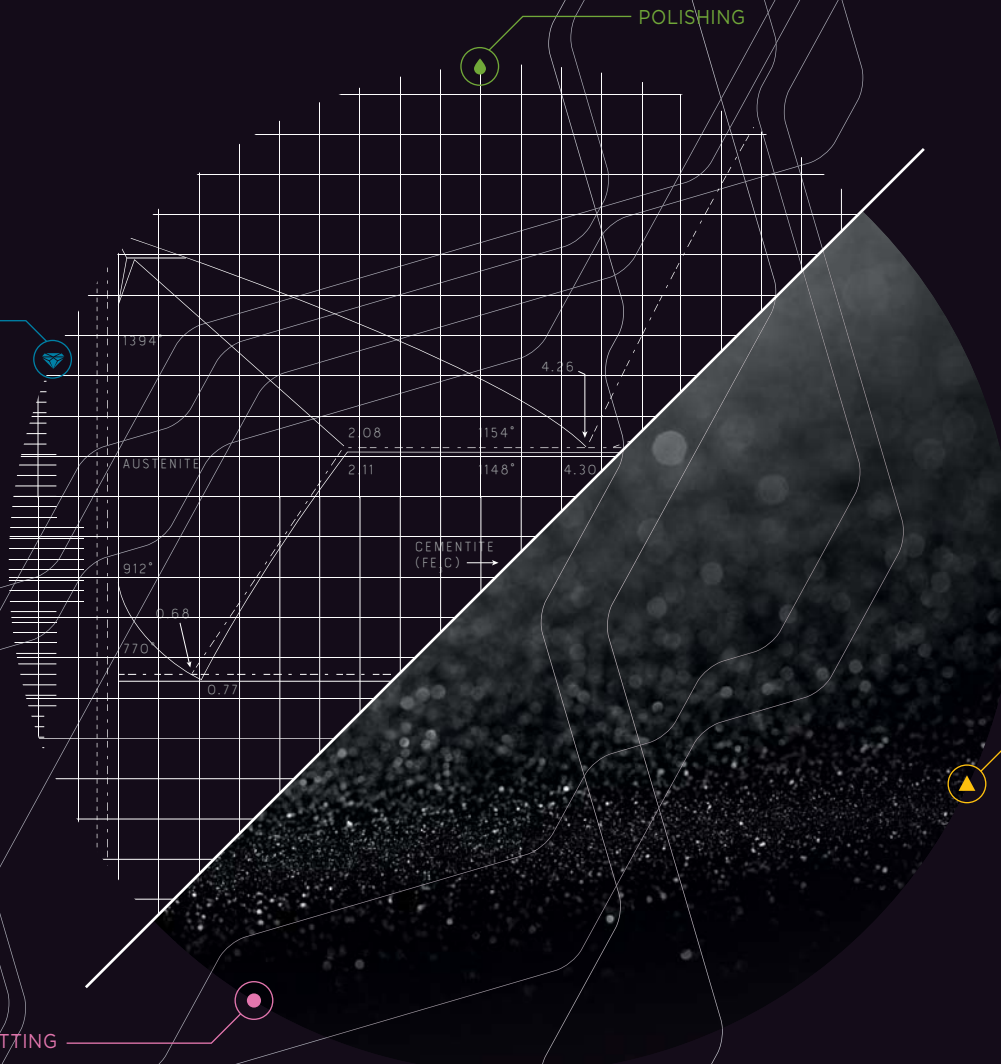


HARDNESS AND MICROSCOPY

POLISHING

MOUNTING

CUTTING



# PRESI

CATALOG 2019





# INNOVATION AND PRECISION

THROUGHOUT THE WORLD

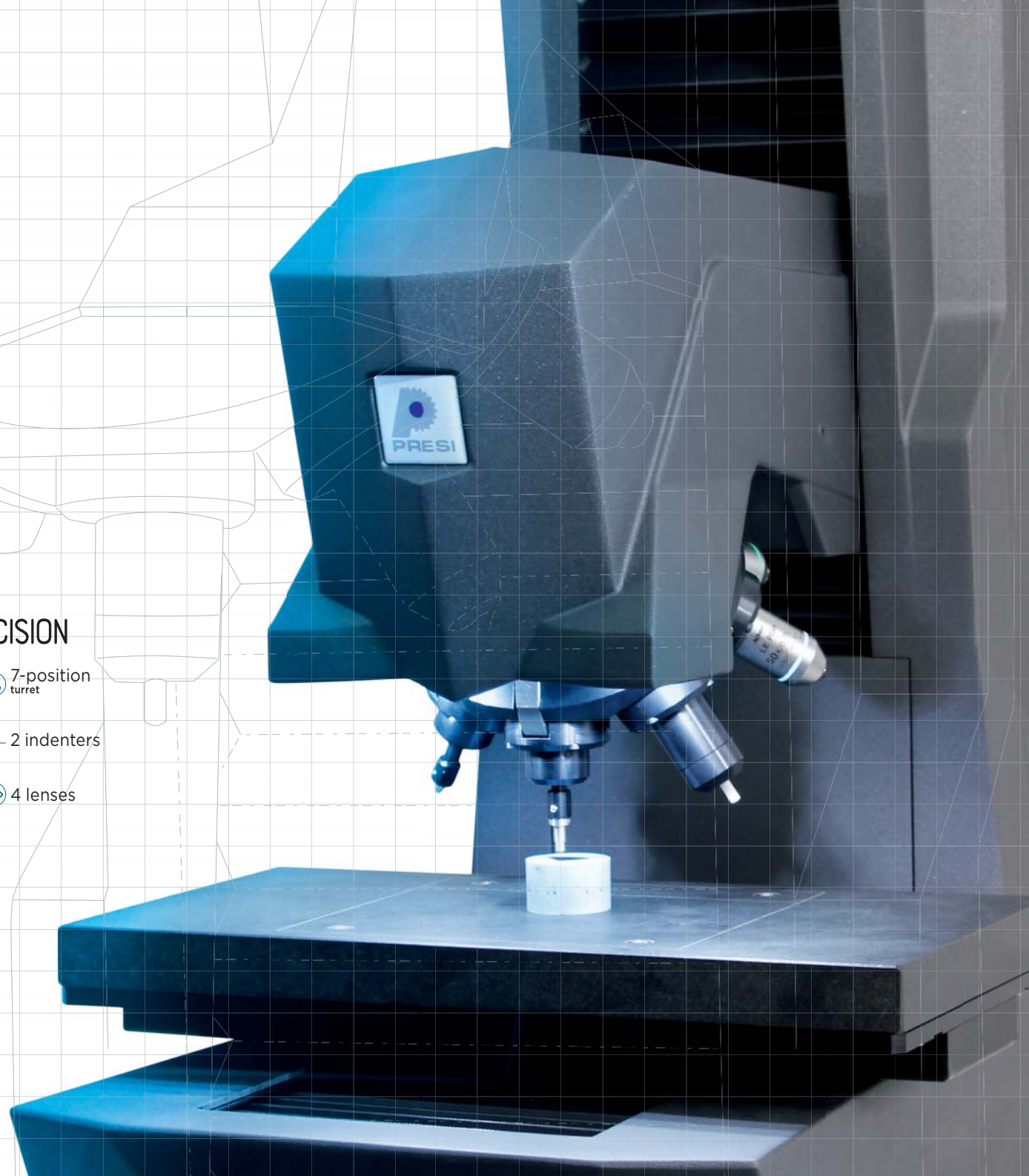
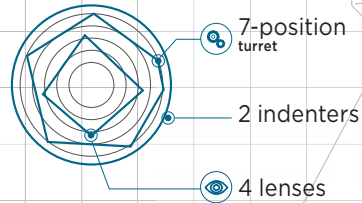


HARDNESS & MICROSCOPY

# HARDNESS TESTER HZ50-4

FULLY AUTOMATIC,  
OPTICAL QUALITY, RELIABILITY AND PRECISION

100% made in France, the HZ50-4 hardness tester is instantly recognizable. Original and elegant design, it has a 7-position turret. Fitted with the intuitive PRESI Touch software with a fully customizable interface, this hardness tester will become an essential work tool.



FIND OUT MORE P112 OF YOUR CATALOG

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## CUTTING

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MACHINES & ACCESSORIES	PRESI GUIDE Resinoid cut-off wheels	PRESI GUIDE Metallic cut-off wheels / CBN	CONSUMABLES



## MOUNTING

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## POLISHING

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# EDITO

## QUALITY, A PERFECTLY REASONABLE EXPECTATION

For the last 50 years, we have been working towards simplifying and increasing the reliability of the validation process and the analysis of our customers' materials.

Whether it is for the raw material, the finished product, or for research purposes, over many years we have been developing machinery, consumables and methods to enable our customers to go even further.

The business ecosystem that we create between our suppliers and our customers results in a win-win situation for everyone. Our expertise, our research and development benefit from the regular exchanges and communication we are able to have with our partners.

Thanks to our subsidiaries and our extensive commercial network, we are here to provide support to our customers, no matter where they are located in the world, as well as being able to facilitate the flow and share of best practice.

**Quality is our business, clearly, worldwide.**

*PRESI team*



# PRESI

Established in 1961 in France, PRESI is recognised as one of the leading global players in the manufacturing and distribution of machines and consumables in the field of metallography. PRESI offers a complete range of products, covering all that is needed for each stage in the preparation of a sample: cutting, mounting, polishing, hardness and microscopy.

As a top performer in quality control and material analyses, PRESI machines and consumables set themselves apart by their quality and highly technical specifications, in response to increasingly stringent requirements.



## PRESI, EXPERTISE AND QUALITY, 100% FRENCH

- The one and only French manufacturer of metallography machines
- Machinery designed in-house by our R&D department
- The milling of parts, the assembly of machines and consumables, pre-shipment inspection, customer service... all carried out in our Grenoble based headquarters.



Machining parts in the PRESI mechanics and precision tooling workshop



Mass production. Machine Assembly

**The strength of PRESI lies in its expertise, its flexibility, its responsiveness, and its impeccable customer service.**

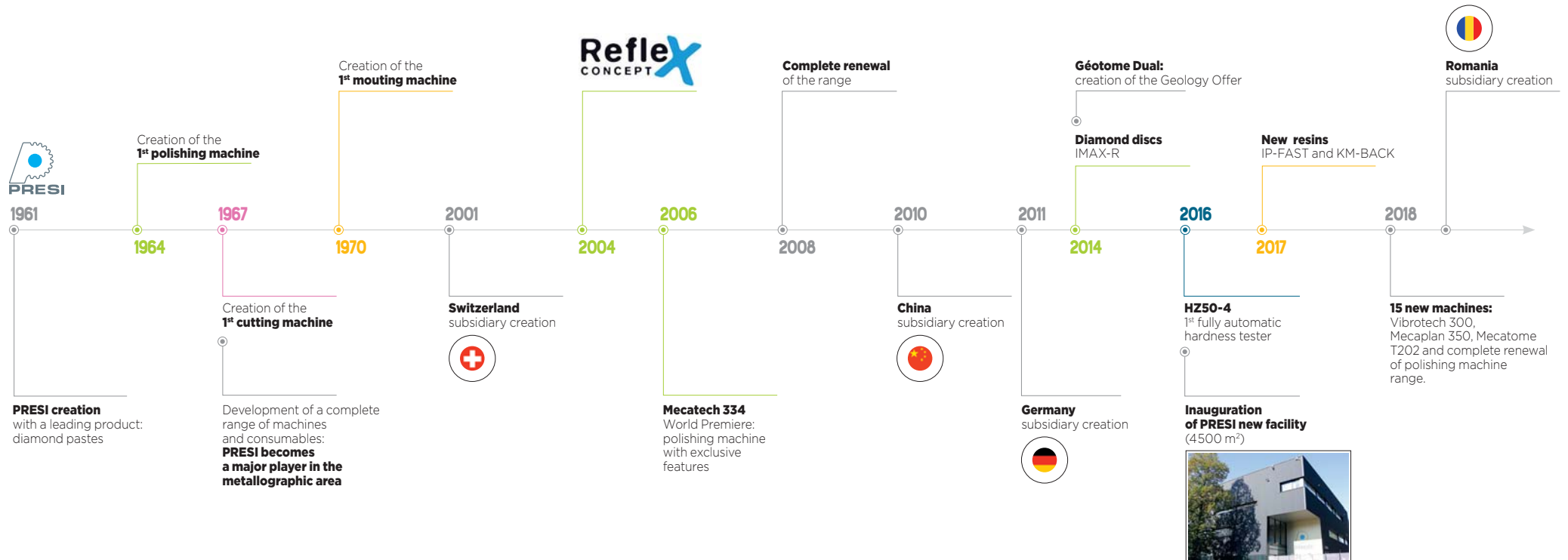
We pay attention to the requests and challenges of our customers, irrespective of the size of the company or the industry sector from which the request arises.

## VALUING HUMAN CAPITAL

While PRESI is constantly expanding, it remains a people sized company encouraging initiative, valuing individual potential and respecting the individuality of each team member. This in turn gives a dynamic structure to our business. Expertise and creativity... the PRESI team is made up of a group of highly skilled and committed staff. The guarantee of constantly high quality products.



# PRESI HISTORY



1 PIONEER COMPANY CREATED IN	75% TURNOVER FOR EXPORT	MORE THAN 40 DISTRIBUTORS IN THE WORLD
<b>1961</b>	4 SUBSIDIARIES CHINA, GERMANY, SWITZERLAND, ROMANIA	



# THE PRESI BRAND



## RECOGNISABLE QUALITY

Achieved by combining quality control, strict compliance with standards and the careful selection local suppliers (with contractors located within a 100km radius of Grenoble).



## AFTER-SALES SERVICE

The integration of spare parts at our production site, allows for maximum responsiveness and excellent customer care, provided by our fully trained distributors.



## EXPERTISE

Process management is constantly enhanced by our responsive R&D team, supported by the expertise of our in-house Laboratory staff.



## EXCELLENT RESPONSIVENESS AND VERSATILITY

Due to relationships built at a local level and the versatility of a PME, associated with a large well established network of worldwide suppliers.



## CONTROLLED PRODUCTION

The entire production line and manufacturing control of all our machinery takes place in our Grenoble based workshops.



## 100% FRENCH

100% designed and manufactured in France.

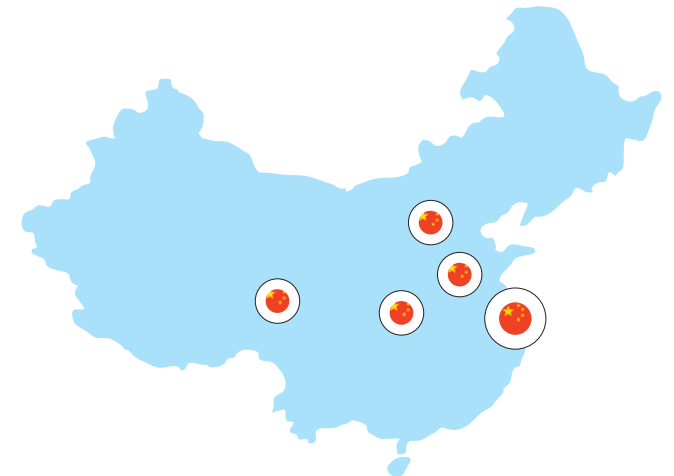




# PRESI WORLDWIDE

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 SAS**  
FRANCE, 1961  
MANAGING DIRECTOR: NICOLAS ZUILLI

**PRESI France**  
11, rue du Vercors, 38320 Eybens  
Tel.: +33 (0)4 76 72 00 21  
Fax: +33 (0)4 76 72 05 84  
presi@presi.com

**PRESI SÀRL**  
SWITZERLAND, 2001  
MANAGING DIRECTOR: DAVID GRAUFEL

**PRESI Sàrl**  
Rue Jehan-Droz 13 CH-2400 Le Locle  
Tel.: +41 (0) 32 931 17 91  
Fax: +41 (0) 32 931 23 36  
presi.ch@presi.com

**PRESI GMBH**  
GERMANY, 2011  
MANAGING DIRECTOR: MARTIN STUCKMANN

**PRESI GmbH**  
Rohrstrasse 15, 58093 Hagen  
Tel: +49(0)2331-73678-70  
Fax: +49(0)2331-73678-99  
presi.de@presi.com

## PRESI TRADE CO., LTD

CHINA, 2010  
MANAGING DIRECTOR: JOHN LU

**PRESI (Shanghai) Trade Co., Ltd**  
Rm D, 8/F, bldg 01  
9 Joy Plaza, 9 Zhenning Rd  
200050 Shanghai  
Tel.: +86 (0)21 5237 12 77  
Fax: +86 (0)21 5237 11 78  
presi.china@presi.com

**Nanjing Office**  
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210005 Nanjing  
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Fax: +86 (0)25 8466 08 49  
m.li@presi.com

**Chengdu Office**  
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610016 Chengdu  
Sichuan Province  
Tel.: +86 (0)28 6505 67 10  
Fax: +86 (0)28 6505 67 11  
t.li@presi.com

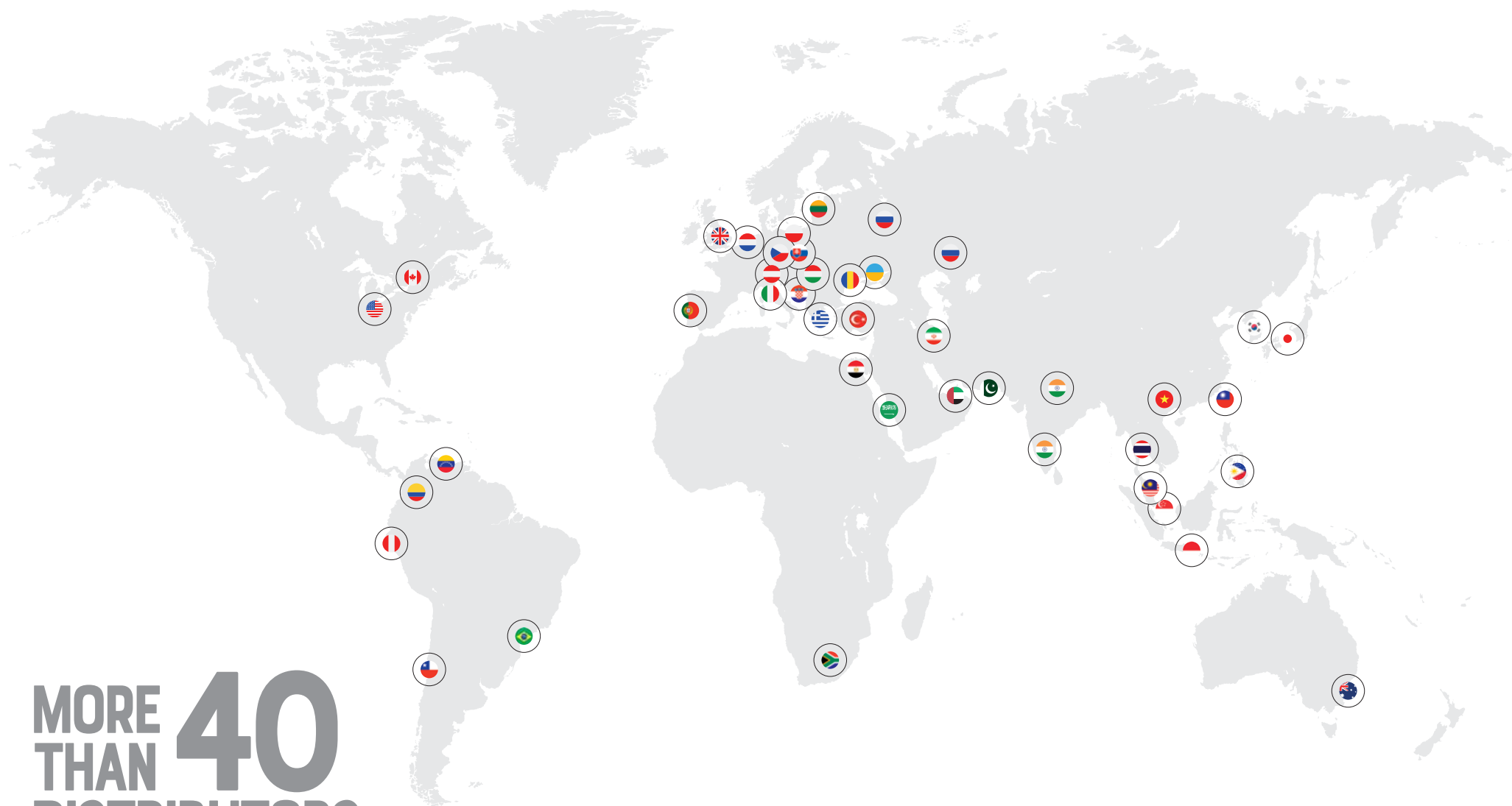
**Wuhan Office**  
Rm 1604, Austral Pleasant  
Mansion, Minzhu Road  
Wuchang District, Wuhan  
Hubei Province 430071  
Tel: 86 (0)27 - 87275018.  
Fax: +86 (0)27 - 87275018.  
ch.zhu@presi.com

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Rm 3522 Junlin Tianxia  
No.1 Boai Rd, Hebei District  
30011 Tianjin  
Tel.: +86 (0)22 8672 89 98  
Fax: +86 (0)22 8672 89 87  
th.li@presi.com

**PRESI METALOGRAFIE SRL**  
ROMANIA, 2018  
MANAGING DIRECTOR: BOGDAN DINU

**PRESI Metalografie SRL**  
Bucuresti Sectorul 3, Drumul ÎNTRE  
TARLALE, Nr. 41C, BIROUL NR 82, Etaj 2  
Tel: +40 (0)744 313 350  
c.constantin@presi.com





# MORE THAN 40 DISTRIBUTORS

To contact our distributors:  
[www.presi.com](http://www.presi.com) or [presi@presi.com](mailto:presi@presi.com)

#### AMERICA

BRAZIL - São Paulo  
 CANADA - Toronto  
 CHILE - Santiago  
 COLUMBIA - Bogota  
 MEXICO - Mexico - Leon  
 PERU - Lima  
 USA - Sturbridge  
 VENEZUELA - Caracas

#### EUROPA

AUSTRIA - Gmunden  
 CROATIA - Zagreb  
 CZECH REP. - Praha  
 GREECE - Pallini  
 HUNGARY - Gmunden (AT)  
 ITALY - Noventa Padovana - Milano - Torino  
 LITHUANIA - Vilnius  
 NETHERLANDS - Tilburg  
 POLAND - Warszawa

PORTUGAL - Lisboa - Porto  
 ROMANIA - Bucarest  
 RUSSIA - Moscow - Chelyabinsk  
 SLOVAKIA - Bratislava  
 SPAIN - Bilbao  
 UK - Maidstone  
 UKRAINE - Kyiv

#### AFRICA

EGYPT - Cairo  
 SOUTH AFRICA - Johannesburg

#### MIDDLE East

ARABIA - Jeddah  
 UNITED ARAB EMIRATES - Dubai  
 IRAN - Tehran

#### ASIA

AUSTRALIA - Sydney  
 INDIA - Gurgaon - New Delhi - Bangalore  
 INDONESIA - Bekasi  
 JAPAN - Osaka - Chiba - Tokyo

MALAYSIA - Kuala Lumpur  
 PAKISTAN - Karachi  
 PHILIPPINES - Manila  
 SINGAPOUR - Singapore  
 SOUTH KOREA - Seoul  
 TAIWAN - Taipei  
 THAILAND - Bangkok  
 TURKEY - Istanbul  
 VIETNAM - Hanoi

# METALLOGRAPHIC EXPERTISE



## PRESI R&D

OPTIMISE. IMAGINE.  
NON-STOP INNOVATION.

New challenges, specific cases, the ongoing development of machines and consumable items... the metallography market never stops evolving!

Faced with these challenges, our Research and Development department redesigns our machinery on average, every 6 years. The study and development of new solutions for metallographic testing is constantly researched, as well as the conception of prototypes, technology intelligence, and the development of customised applications...

**The objective is simple: to enhance and fine tune our range of products so we can effectively meet our client's needs.**



## PRESI LAB

THE LAB IS A PILLAR OF EXPERTISE  
WITHIN THE PRESI ORGANISATION.

And an indispensable means of benefiting from the experience of both our R&D department and that of our clients.

The PRESI headquarters and the premises of our subsidiaries each have their own Lab, fully equipped with PRESI machines.

In this way, we can deliver 100% customised advice, by carrying out a detailed and precise study adapted to each client's individual needs.

### **A Centre of Expertise**

Individual support and technical answers tailored to specific projects, design and preparation process optimisation... the Lab deepens and broadens the technical subjects initiated by the R&D department.

TO ANALYSE, TO OBSERVE,  
TO TEST: THE LAB,  
THE HEART OF OUR  
EXPERTISE.





## METALLO TRAINING

PRESI OFFERS CUSTOMISED TRAINING PROGRAMMES, ADAPTED TO EVERYONE'S NEEDS, FROM TRAINEE TO EXPERIENCED METALLOGRAPHIC TECHNICIAN.

Our training sessions are led by experts in the metallography field, based in our laboratory, which contains the most recent equipment in the area of metallography.

Choose the content of your training programme depending on your specific needs or challenges.

**General Training** (2-3 day course)

Overview of the basic principles of the techniques used in metallographic preparation (cutting, mounting, polishing, hardness and microscopy)

**Specific Training** (1 day course)

Finding a solution to a specific problem, or a detailed study into a particular stage of preparation.

Our training programmes combine both a theoretical and a practical approach.

**Objective: to learn, to understand, to perform.**

FOR FURTHER INFORMATION  
ON OUR TRAINING PROGRAMMES,  
CONTACT US BY EMAIL  
[PRESI@PRESI.COM](mailto:PRESI@PRESI.COM)









# CUTTING

The cutting stage is used to collect a sample in order to analyze its characteristics.

Powerful, precise and with a varied range of cutting capacities, our machines cover all needs.

Our cut-off wheels, with very high quality, allow to completely preserve the sample's structure during a metallographic cut.



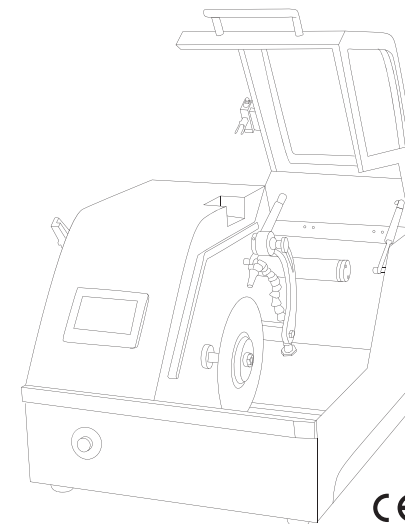
# MECATOME T202

## PRECISION MANUAL MICRO-CUTTING MACHINE

### Ref. 51750

The Mecatome T202 is a robust and compact precision cutting machine, with the ability to section a wide range of materials of differing hardness, from the hardest to the softest. It has a powerful brushless engine which allows it to work at a constant torque over the entire speed range of 100 to 4000 RPM.

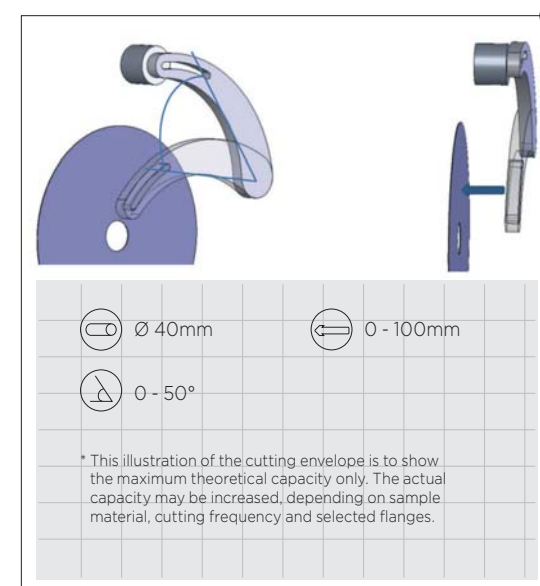
The cover, automatically locks as soon as the motor is switched on, and unlocks only when the cutting disc has completely stopped.



CE



### CUTTING ENVELOPE\*





## CHARACTERISTICS

### HOOD

Type	Metal frame and PETG
Safety	Lock during the cycle

### MOTORIZATION - POWER SUPPLY

Power	960W
Power supply	110 - 230V single phase 50 / 60 Hz
Control of the motor	Brushless motor control board

### CUT-OFF WHEELS

Type of cut-off wheels	Resinoid and diamond
Cut-off wheel size range	From Ø 75 to Ø 200mm
Rotation speed	From 100 to 4000 RPM
Arbor size	12.7mm

### CONTROL

Control Interface	4.3 TFT color touch screen, 16/9
Security Access	Can activate password protection
Programmability	Up to 3 programs

### CUTTING

Cutting method	Manual or by gravity (Weight/counter-Weight)
X axis range	100mm X-axis movement of the sample carrier arm
Holders	Sample carrier arm will accept a wide variety of holders

### LUBRICATION - COOLING

Pump & tank	Integrated - Capacity 3.5L
Type of lubrication	Pump lubrication
Method of directing pumped coolant	A single alignable nozzle
Type of filtration	100µm washable filter cloth

### ERGONOMICS

Spray nozzle for cleaning	Integrated
Internal lighting	LED tube interior lighting IP68

## ACCESSORIES

### VICE



**Mini screw vice**  
Ref. 51722

### SAMPLE CHUCKS



**V shaped sample chuck**  
Ref. 51715



**Vice chuck for longitudinal cuts**  
Ref. 51717



**Vice chuck for longitudinal cuts (length 53mm)**  
Ref. 51718



**Chuck for small samples (vice type)**  
Ref. 51713



**Orientable chuck (to be used with aluminium plates)**  
Ref. 51162 and 51163  
Ref. 51156



**Chuck for cylindrical sample**  
Ref. 51714



**Irregular shaped sample chuck**  
Ref. 51716



**Set of 5 Aluminium plates for samples sticking**  
60 x 25mm - Ref. 51162  
40 x 25mm - Ref. 51163

### FLANGES



**Set of 2 flanges ø 35mm for wheel ø 75 to 100mm**  
Ref. 51710



**Set of 2 flanges ø 50mm for wheel ø 100 to 150mm**  
Ref. 51711



**Set of 2 flanges ø 75mm for wheel ø 150 to 200mm**  
Ref. 51712

Download MECATOME T202  
technical sheet



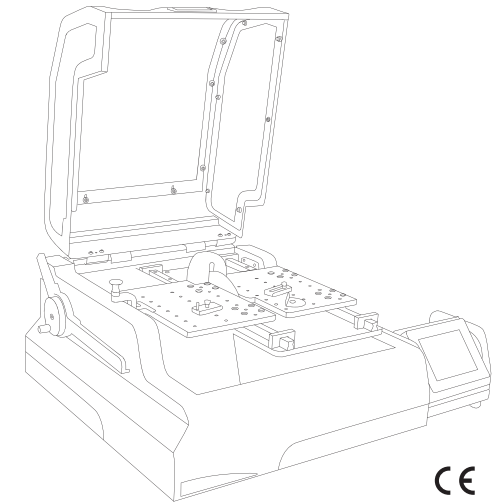
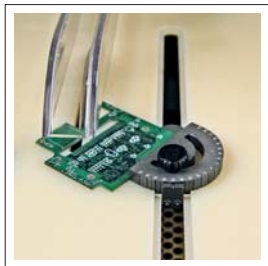
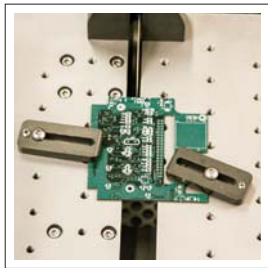
# FLEXICUT

## MICRO-CUTTING MACHINE DEDICATED TO PCB AND FLAT SAMPLES

### Ref. 51800

A compact machine designed for cutting PCBs (Printed Circuit Boards) and flat samples. There are three modes of cutting:

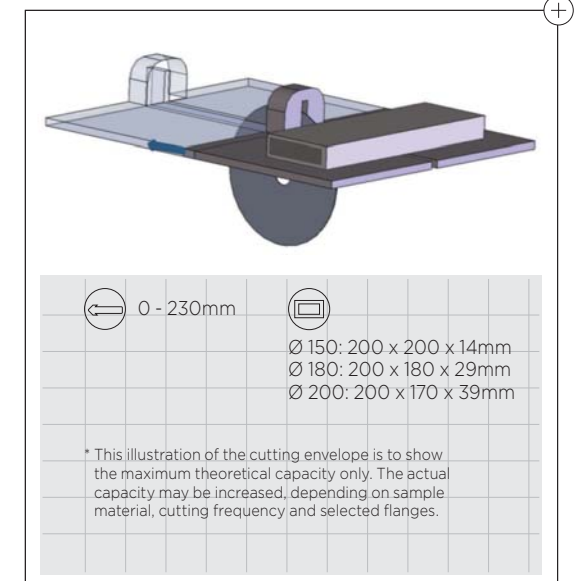
- Longitudinal mode: for sectioning PCBs
- Fixed mode: for sectioning PCBs
- Micro-sectioning mode



CE



### CUTTING ENVELOPE\*



## CHARACTERISTICS

HOOD	
Type	PETG enclosure with metal hinges
Safety	Closure switch to cut off motor when hood opened
Fumes extraction outlet	45mm

MOTORIZATION - POWER SUPPLY	
Power	575W
Power supply	220 V / Single phase / 50 Hz-110 V / Single phase / 60 Hz

CUT-OFF WHEELS	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	From Ø 75 to Ø 180mm - Ø 200mm for PCB cutting
Rotation speed	From 300 to 2.500 RPM Option: slow speed kit from 100 to 1.200 RPM
Arbor size	12.7mm

CONTROL	
Control Interface	Color touch control screen
Security Access	Can activate password protection

CUTTING	
Cutting method	Manual or by gravity (Weight/counter-Weight)
Type of table movement	Fixed or moving table options (Y axis) for PCB sectioning
Y axis range	Length of Y axis traverse - 230mm
X axis range	100mm X-axis movement of the sample carrier arm

Table dimensions	Longitudinal movement table option for PCB cutting: 385 x 250mm Fixed table option for PCB cutting: 430 x 520mm
Table material	Option table with longitudinal movement - micro-rollers
Holders	Sample carrier arm will accept a wide variety of holders

LUBRICATION - COOLING	
Pump & tank	Integrated - Capacity 2.8 L
Type of lubrication	Recirculating pump or drag feed
Method of directing pumped coolant	A single alignable nozzle
Type of filtration	Exchangeable paper filters

ERGONOMICS	
Spray nozzle for cleaning	Integrated

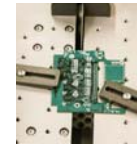
## ACCESSORIES

### VICE



**Mini screw vice**  
Ref. 51722

### TABLES AND POSITIONING



**Forward movement stage for PCB Cuts.**  
Supplied with 2 pad flanges  
Ref. 51801



**Fixed stage for PCB cuts.**  
Supplied with an angular guiding device  
Ref. 51802

### SAMPLE CHUCKS



**V Shaped sample chuck**  
Ref. 51715



**Vice chuck for longitudinal cuts**  
Ref. 51717



**Vice chuck for longitudinal cuts (length 53mm)**  
Ref. 51718



**Chuck for small samples (vice type)**  
Ref. 51713



**Orientable chuck (to be used with aluminium plates Ref. 51162 and 51163)**  
Ref. 51156



**Chuck for cylindrical sample**  
Ref. 51714



**Irregular shaped sample chuck**  
Ref. 51716



**Set of 5 Aluminium plates for samples sticking**  
60 x 25mm - Ref. 51162  
40 x 25mm - Ref. 51163

### OTHER ACCESSORIES



**Self lighting LED on magnetic base**  
Ref. 51730

**Set of 10 filters for Flexicut**  
Ref. 51721

**Low speed kit 100 to 1 200 RPM T202/Flexicut**  
Ref. 51720

### FLANGES



**Set of 2 flanges Ø 35mm for wheel Ø 75 to 100mm**  
Ref. 51710



**Set of 2 flanges Ø 50mm for wheel Ø 100 to 150mm**  
Ref. 51711



**Set of 2 flanges Ø 75mm for wheel Ø 150 to 180mm**  
Ref. 51712

See FLEXICUT video link



# MECATOME T210

## PRECISION AUTOMATIC MICRO-CUTTING MACHINE

### Ref. 51400

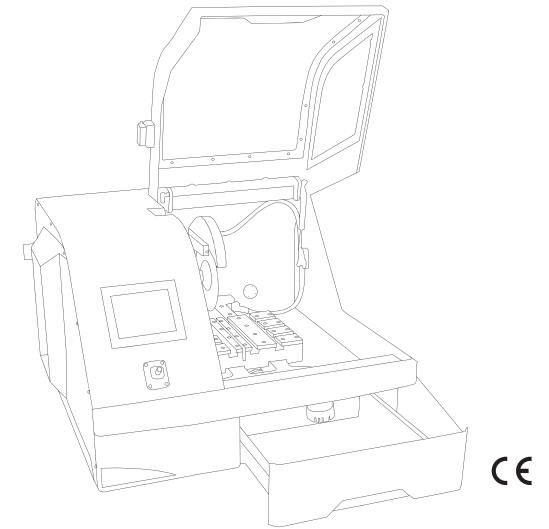
A powerful and precise micro-machine designed for sectioning medium sized samples from a wide variety of materials of differing hardness, from the hardest to the softest.

The optional X axis drive gives the possibility of carrying out multiple series sections.

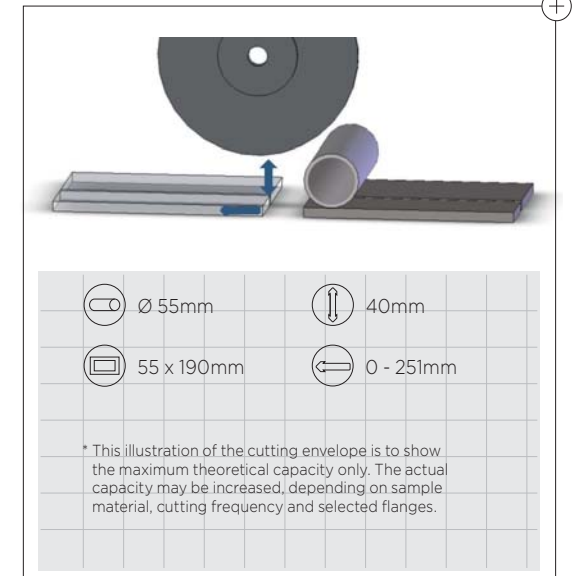
There are three modes of cutting:

- Assisted: a manual cut can be made using the joystick to pilot the table (effortless for the operator)
- Automatic: an automatic cut can be made by selecting both the disc rotation speed and the advance speed of the table. Possibility of an impulse cutting mode.
- Programmable: an automatic cut can be made using pre-selected parameters.

The grooved table (with interchangeable stainless steel pallets) is compatible with most readily available clamping systems.



### CUTTING ENVELOPE\*





## CHARACTERISTICS

HOOD	
Type	PETG enclosure with metal hinges
Safety	Interlock switch keeps hood locked during cutting

MOTORIZATION - POWER SUPPLY	
Nominal power S1	1500W
Nominal power S3	2700W
Power supply	220V / Single phase / 50Hz
Control of the motor	Frequency inverter

CUT-OFF WHEELS	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	From Ø 75 to Ø 203mm
Rotation speed	From 300 to 6.000 RPM
Arbor size	12.7mm

CONTROL	
Control Interface	Color touch control screen
Security Access	Can activate password protection
Programmability	Up to 100 programs protected by password

CUTTING	
Cutting modes	Assisted, automatic, programmed, pulse mode
Type of table movement	Motorised Y axis motion
Y axis speed	From 0.01 to 3mm/s
Cutting control	Automated regulation optimised to the motor ratings
Y axis range	251mm Y-axis movement of the table
X axis range	Optional 100mm X-axis movement of the table
Z axis range	60mm
Serial sectioning	Option (motorised X table)
Dimensions of the tables	Left table: 82 x 210mm-Right table: 142 x 210mm
Positioning laser	Option
Fume extraction port	Option
Space under cut-off wheel	40mm (with cut off wheel Ø 200mm)
Type of table	Treated aluminum table with exchangeable stainless blocks
Holders	Sample carrier arm will accept a wide variety of holders

LUBRICATION - COOLING	
Pump & tank	Integrated - Capacity 10L Option: 25L external pump and tank
Type of lubrication	Internal recirculating pump or optional external recirculating
Method of directing pumped coolant	6 nozzles in the blade guard
Type of filtration	Integrated: filtration grid - External: 100µm washable filter cloth

ERGONOMICS	
Internal lighting	LED
Spray nozzle for cleaning	Integrated

See MECATOME T210 video link



## ACCESSORIES

### STAINLESS STEEL VICES AND HOLDERS



**Quick clamping vice right side**  
Height 32mm  
Opening 50mm  
Ref. 51319



**Quick clamping vice left side**  
Height 32mm  
Opening 50mm  
Ref. 51321



**Mini screw vice**  
Ref. 51722



**Quick clamping vice for long sample**  
Ref. 51356



**Box of Kopal holders**  
Ref. 50613



**Kopal holding**  
Ref. 50616

### SAMPLE CHUCKS



**V Shaped sample chuck**  
Ref. 51715



**Vice chuck for longitudinal cuts**  
Ref. 51717



**Vice chuck for longitudinal cuts (length 53mm)**  
Ref. 51718



**Chuck for small samples (vice type)**  
Ref. 51713



**Orientable chuck**  
Ref. 51156



**Chuck for cylindrical sample**  
Ref. 51714



**Irregular shaped sample chuck**  
Ref. 51716



**Set of 5 aluminium plates for sample sticking (to be use with orientable chuck 51156)**  
60 x 25mm - Ref. 51162  
40 x 25mm - Ref. 51163



**Sample chucks (to use only with a motorized transversal table)**  
Ref. 51410

### FLANGES



**Set of stainless steel flanges Ø 75mm for wheels Ø 150 to 200mm**  
Ref. 51325

**Set of stainless steel flanges Ø 50mm for wheels Ø 100 to 150mm**  
Ref. 51326

**Set of stainless steel flanges Ø 35mm for wheels Ø 75 to 100mm**  
Ref. 51327

### TABLES & POSITIONING



**Motorised traversing table**  
Ref. 51420



**Manual traversing additional table. Right side movement**  
Ref. 51355



**Rotating vice**  
Ref. 51323

**Positioning laser**  
Ref. 51431

### OTHER ACCESSORIES



**Base Cabinet**  
Width 770mm  
x depth 880mm  
x height 855mm  
Ref. 51006

**Outlet for Ø76mm extractor (custom manufacturing - only on new machine order)**  
Ref. 51450

# MECATOME T260

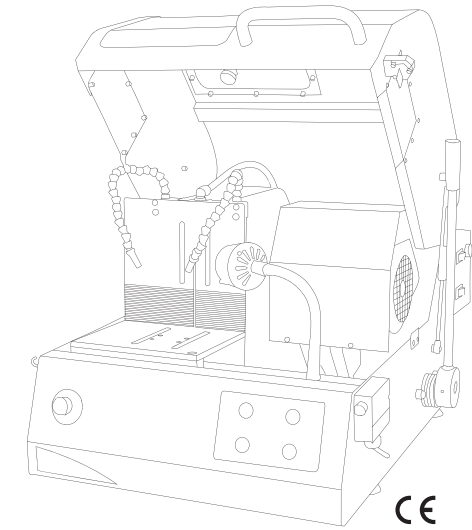
MANUAL CUTTING MACHINE WITH VERTICAL AND HORIZONTAL CLAMPING SYSTEM

**Ref. 51200**

The MECATOME T260 is a powerful and precise cutting machine designed for sectioning medium sized samples from a wide variety of materials of differing hardness, from the hardest to the softest.

It provides maximum flexibility, with a cutting table which allows clamping of the sample in either the vertical or the horizontal plane. In this way it can adapt to all sample shapes. Can be used with both vice-type clamping systems and KOPAL.

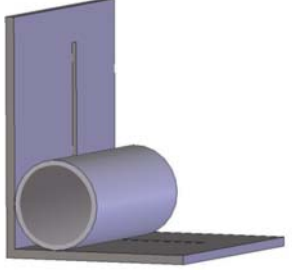
The motor/cutting disc assembly of this machine articulates around 4 bearings, which allows for clean, precise sectioning cuts, and reduces effort for the user at the same time.






CE

-  520mm (closed lid)
-  820mm
-  610mm
-  110kg

**CUTTING ENVELOPE\***



 Ø 95mm	 85 x 85mm
	 120 x 60mm 150 x 25mm

\* This illustration of the cutting envelope is to show the maximum theoretical capacity only. The actual capacity may be increased, depending on sample material, cutting frequency and selected flanges.

## CHARACTERISTICS

HOOD	
Type	PETG enclosure with metal hinges
Safety	Interlock switch keeps hood locked during cutting

MOTORIZATION - POWER SUPPLY	
Nominal power S1	2200W
Nominal power S3	3200W
Power supply	220V / Single phase / 50Hz
Control of the motor	Frequency inverter

CUT-OFF WHEELS	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	250 and 300mm
Rotation speed	3.200 or 3.800 RPM, option variable speed 1.000 RPM to 4.000 RPM
Arbor size	25.4mm

CONTROL	
Control Interface	Push buttons

CUTTING	
Cutting modes	Manual
Type of table	Treated steel table in L
Holders	Vices in horizontal or vertical position-Kopal

LUBRICATION - COOLING	
Pump & tank	External - 25L
Type of lubrication	External recirculating system
Method of directing pumped coolant	2 alignable nozzles
Type of filtration	100µm washable filter cloth

ERGONOMICS	
Internal lighting	LED
Spray nozzle for cleaning	Integrated

## ACCESSORIES

### STAINLESS STEEL VICES AND HOLDERS



**Left and right quick clamping vices**  
Height 45mm  
Ref. 51210



**Left quick clamping vice**  
Height 45mm  
Ref. 51213



**Right quick clamping vice**  
Height 45mm  
Ref. 51214

### TABLES & POSITIONING



**Manual traversing additional table.**  
Left side movement  
Ref. 51212



**Box of Kopal holders**  
Ref. 50613



**Kopal holding**  
Ref. 50616

### OTHER ACCESSORIES



**Base Cabinet**  
Width 770mm  
x depth 880mm  
x height 855mm  
Ref. 51006



**Variable speed option**  
(1.000 RPM to 4.000 RPM) T260  
Ref. 51250



**Set of 3 filters for coolant tank**  
T260  
Ref. 51621

See MECATOME T260 video link





# MECATOME ST310

## MANUAL CUTTING MACHINE WITH SWING ACTION MOVEMENT

### Ref. 50200

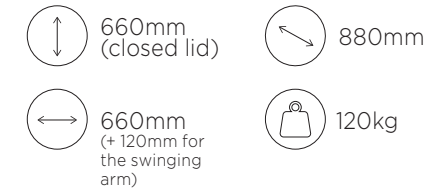
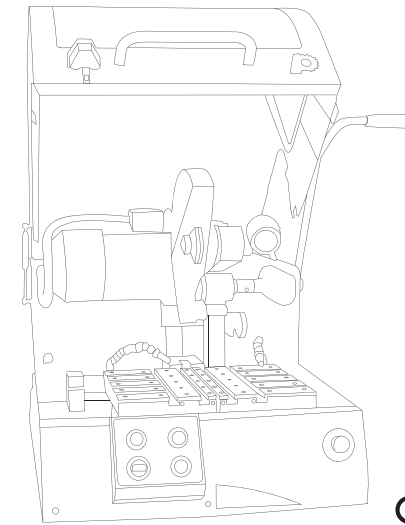
The MECATOME ST310 is a powerful and robust machine, designed to cut sections from sizeable parts and samples which are longer in length.

Equipped with exclusive PRESI swing arm technology, rapid, clean, and effortless sectioning can be carried out, without any risk of burning the sample, resulting in a time saving of up to 60%. This new technology increases the capacity of longitudinal sectioning.

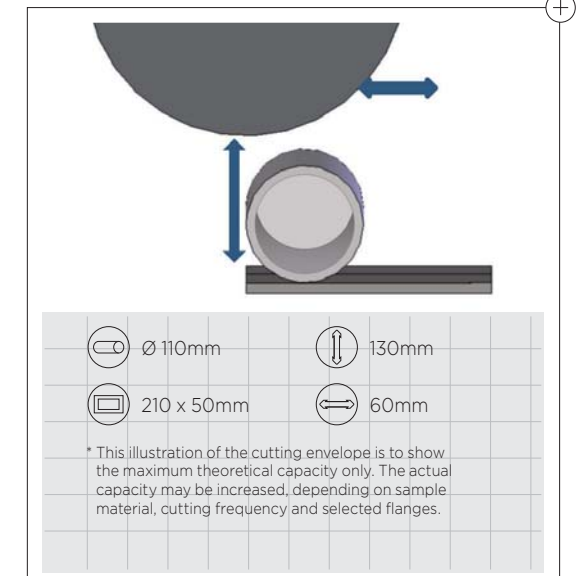
The machine's design means that large volume samples can be accommodated, and the double run of the 'rod' enables the sectioning of longer samples to take place.

The table (with interchangeable stainless steel plates) is compatible with most readily available clamping systems (including vice-type rapid clamping systems and KOPAL).

The cooling tank, equipped with a removable and washable filtration system, guarantees a clean supply of coolant during the cutting process, resulting in perfectly white sections.



### CUTTING ENVELOPE\*



## CHARACTERISTICS

HOOD	
Type	PETG enclosure with metal hinges and gas strut assisted lift
Safety	Interlock switch keeps hood locked during cutting
Fumes extraction outlet	76mm

MOTORIZATION - POWER SUPPLY	
Nominal power S2	3700W
Nominal power S3	4000W
Power supply	380V / Three-phases / 50Hz
Control of the motor	Frequency inverter

CUT-OFF WHEELS	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	Up to 300mm
Rotation speed	2.800, 3.200, 3.700 or 4.000 RPM
Arbor size	25.4mm

CONTROL	
Control Interface	Push buttons

CUTTING	
Cutting modes	Manual swing action
Table dimensions	390 x 290mm
Distance between cut-off wheel and table	130mm (with a Ø 300mm wheel)
Type of table	Treated aluminum table with exchangeable stainless blocks
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed

LUBRICATION - COOLING	
Pump & tank	External - 60L
Type of lubrication	External recirculating system
Method of directing pumped coolant	2 ports in the wheel guard 2 alignable nozzles in the cutting chamber
Type of filtration	100 µm washable filter cloth

ERGONOMICS	
Internal lighting	LED
Spray nozzle for cleaning	Integrated



Recirculating tank supplied with the machine

## ACCESSORIES

### STAINLESS STEEL VICES AND HOLDERS



**Left and right quick clamping vices**  
Height 45mm  
Ref. 50906



**Left quick clamping vice**  
Height 45mm  
Ref. 50905



**Right quick clamping vice**  
Height 45mm  
Ref. 50909



**Left and right quick clamping vices**  
Height 70mm  
Ref. 50510



**Double screw clamping vices left and right**  
Height 45mm  
Ref. 50902



**Left screw clamping vice**  
Height 45mm  
Ref. 50901



**Box of Kopal holders**  
Ref. 50613



**Kopal holding**  
Ref. 50616

### TABLES & POSITIONING



**Manual traversing additional table. Left side movement**  
Ref. 51610



**Base Cabinet**  
Width 770mm  
x depth 880mm  
x height 855mm  
Ref. 51006



**Set of 3 filters for coolant tank**  
ST310/T330/T300  
Ref. 51620



**Kit of V positioning supports**  
Ref. 50370

See MECATOME ST310 video link



# MECATOME T300

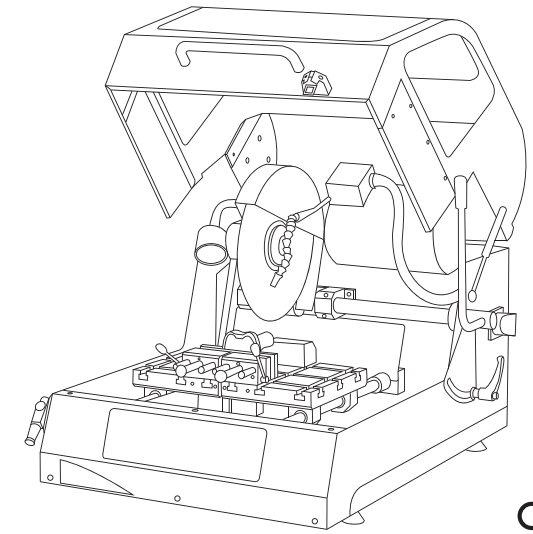
## MEDIUM SIZE MANUAL AND AUTOMATIC CUTTING MACHINE

### Ref. 51600

The MECATOME T300 is a powerful and robust machine, designed to cut sections from sizeable parts and from samples which are longer in length, from a wide range of materials.

As well as allowing for the sectioning of voluminous parts, its design also offers the possibility of rod sectioning.

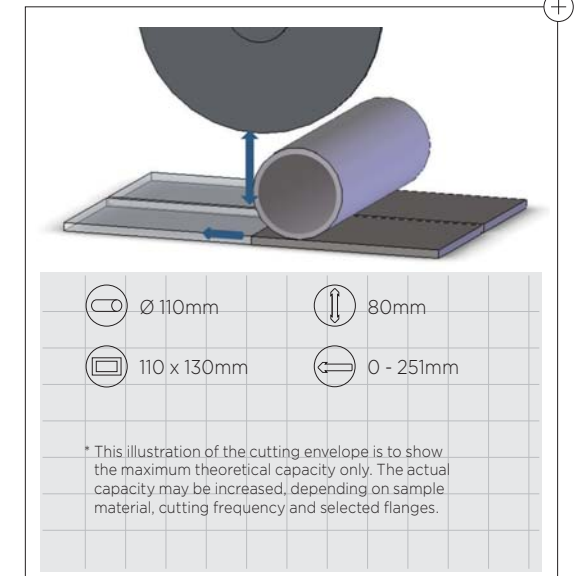
It is compatible with all clamping systems (including vice-type rapid clamping systems and KOPAL).



CE



### CUTTING ENVELOPE\*





## CHARACTERISTICS

HOOD	
Type	PETG enclosure with metal hinges and gas strut assisted lift
Safety	Interlock switch keeps hood locked during cutting
Fumes extraction outlet	76mm

MOTORIZATION - POWER SUPPLY	
Nominal power S2	3700W
Nominal power S3	4000W
Power supply	380V / Three-phases / 50Hz
Control of the motor	Frequency inverter

CUT-OFF WHEELS	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	Up to 300mm
Rotation speed	From 1.000 to 4.000 RPM
Arbor size	25.4mm

CONTROL	
Control Interface	7 segments display + control panel

CUTTING	
Cutting modes	Manual chop action or automated Y feed with optional pulse action
Table automation	Motor driven Y axis
Cutting control	Automated regulation of Y axis feed rate
Y axis travel	260mm
X axis travel	Option: 100mm
Table dimensions	390 x 230mm
Distance between cut-off wheel and table	80mm (with a Ø 300mm wheel)
Table type	Treated aluminium table with stainless steel "T" slots
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed

LUBRICATION - COOLING	
Pump & tank	External - 60L
Type of lubrication	External recirculating system
Method of directing pumped coolant	2 ports in the wheel guard 2 alignable nozzles mounted on the wheel assembly
Type of filtration	100µm washable filter cloth

ERGONOMICS	
Internal lighting	LED
Spray nozzle for cleaning	Integrated



Recirculating tank supplied with the machine

## ACCESSORIES

### STAINLESS STEEL VICES AND HOLDERS



Left and right quick clamping vices  
Height 45mm  
Ref. 50906



Left quick clamping vice  
Height 45mm  
Ref. 50905



Right quick clamping vice  
Height 45mm  
Ref. 50909



Left and right quick clamping vices  
Height 70mm  
Ref. 50510



Double screw clamping vices left and right  
Height 45mm  
Ref. 50902



Left screw clamping vice  
Height 45mm  
Ref. 50901



Box of Kopal holders  
Ref. 50613



Kopal holding  
Ref. 50616

### TABLES & POSITIONING



Manual traversing additional table.  
Right side movement  
Ref. 51610

### OTHER ACCESSORIES



Base Cabinet  
Width 770mm  
x depth 880mm  
x height 855mm  
Ref. 51006



Set of 3 filters for coolant tank  
ST310/T330/T300  
Ref. 51620



Kit of V positioning supports  
Ref. 50370

# MECATOME T330

## MEDIUM SIZE MANUAL AND AUTOMATIC CUTTING MACHINE

### Ref. 50300

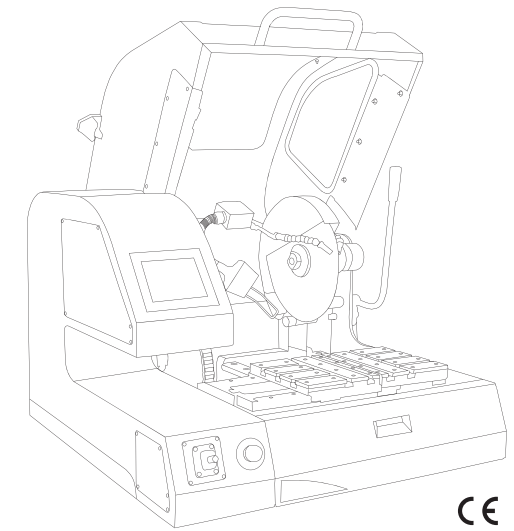
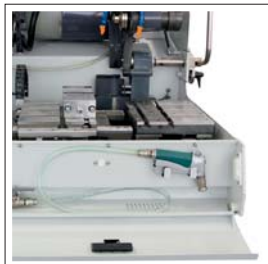
The spacious MECATOME T330 is a powerful and robust machine which can accommodate very sizeable parts and samples which are longer in length, made from a wide range of materials.

The optional X axis drive gives the possibility of carrying out multiple series sectioning.

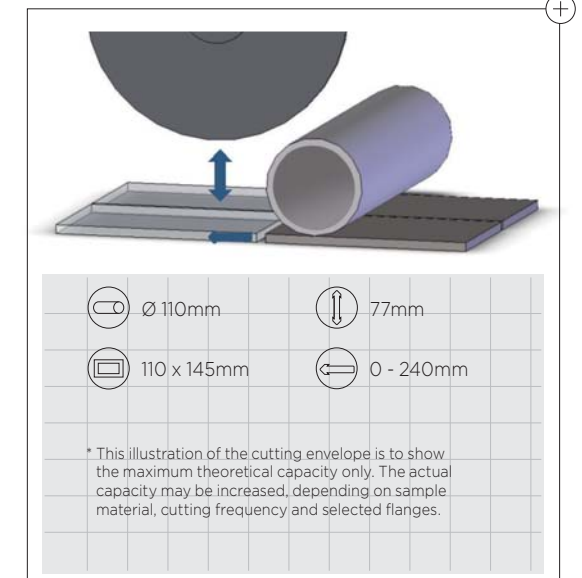
There are four cutting modes:

- Manual.
- Assisted: a manual cut can be made using the joystick to pilot the table (effortless for the operator).
- Automatic: an automatic cut can be made by selecting both the disc rotation speed and the advance speed of the table. Possibility of an impulse cutting mode.
- Programmable: an automatic cut can be made using pre-selected parameters.

The table (with interchangeable stainless steel pallets) is compatible with most readily available clamping systems.



### CUTTING ENVELOPE\*



## CHARACTERISTICS

### HOOD

Type	PETG enclosure with metal hinges and gas strut assisted lift
Safety	Interlock switch keeps hood locked during cutting
Fumes extraction outlet	76mm

### MOTORIZATION - POWER SUPPLY

Nominal power S2	3700W
Nominal power S3	4000W
Power supply	380V / Three-phases / 50Hz
Control of the motor	Frequency inverter

### CUT-OFF WHEELS

Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	Up to 300mm
Rotation speed	From 200 to 6000 RPM
Arbor size	25.4mm

### CONTROL

Control Interface	Color touch control screen
Security Access	Can activate password protection
Programmability	Up to 100 programs protected by password

### CUTTING

Cutting modes	Manual chop action or automated Y feed with optional pulse action
Table automation	Motor driven Y axis
Y axis speed	From 0.01 to 3mm/s
Cutting control	Automated regulation of Y axis feed rate
Y axis travel	240mm
X axis travel	Option: 100mm
Serial cutting	Option (motorized X table)
Table dimensions	Left table: 192 x 230mm Right table: 192 x 230mm
Positioning laser	Option
Distance between cut-off wheel and table	77.5mm (with a Ø 300mm wheel)
Table type	Treated aluminium table with stainless steel "T" slots
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed

### LUBRICATION - COOLING

Pump & tank	External - 60L
Type of lubrication	External recirculating system
Method of directing pumped coolant	2 ports in the wheel guard 2 alignable nozzles mounted on the wheel assembly
Type of filtration	100 µm washable filter cloth

### ERGONOMICS

Internal lighting	LED
Spray nozzle for cleaning	Integrated

See MECATOME T330 video link



Recirculating tank supplied with the machine

## ACCESSORIES

### STAINLESS STEEL VICES AND HOLDERS



Left and right quick clamping vices  
Height 45mm  
Ref. 50906



Left quick clamping vice  
Height 45mm  
Ref. 50905



Right quick clamping vice  
Height 45mm  
Ref. 50909



Left and right quick clamping vices  
Height 70mm  
Ref. 50510



Double screw clamping vices  
left and right  
Height 45mm  
Ref. 50902



Left screw clamping vice  
Height 45mm  
Ref. 50901



Box of Kopal holders  
Ref. 50613



Kopal holding  
Ref. 50616

### TABLES & POSITIONING



Manual traversing additional table.  
Left side movement  
Ref. 51610

Table transversale à déplacement motorisée  
Ref. 50305

Laser de positionnement de coupe  
Ref. 51430

### OTHER ACCESSORIES



Base Cabinet  
Width 770mm  
x depth 880mm  
x height 855mm  
Ref. 51010



Set of 3 filters for coolant tank  
ST310/T330/T300  
Ref. 51620



Kit of V positioning supports  
Ref. 50370



# EVO 400 - EVO 400+

## LARGE SIZE CUTTING MACHINE

### Evo 400 Ref. 50400 - Evo 400+ Ref. 50430

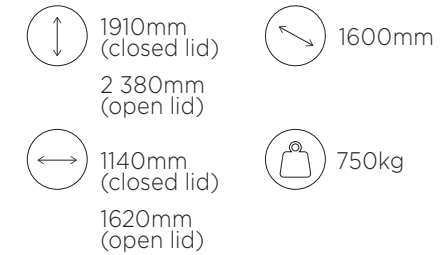
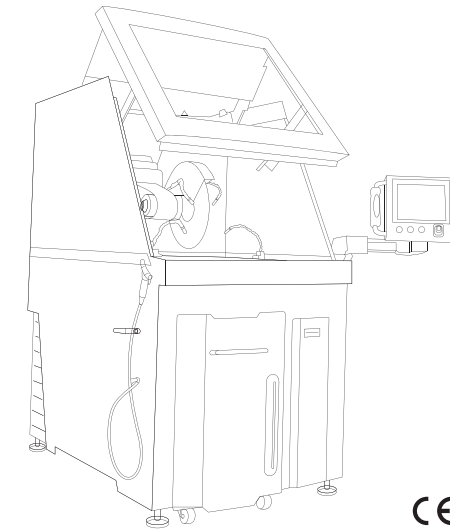
The EVO 400 is a very spacious, large capacity machine. The height of the space under the grinding wheel measures 190mm. Its tables can bear the weight of parts over 200kg.

This powerful machine, adapted for workshop use, combines ease of use with sturdiness. It has three cutting modes: assisted, automatic, programmable (ensures cut repeatability).

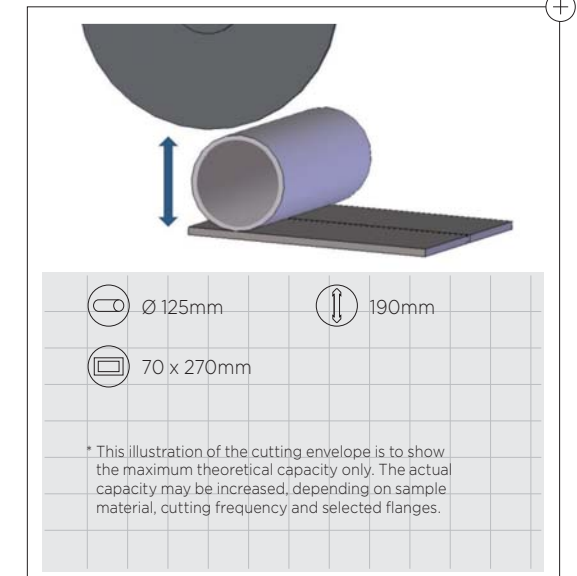
Its ergonomic design, with a motorised hood and multilingual, coloured, touch screen simplifies the user-machine interface.

Optional Extras:

- Positioning Laser.
- Manual transverse movement table (X axis) to assist with lateral adjustment of the sample, and enable parallel sectioning.
- Manual longitudinal movement table (Y axis) to increase cut capacity.



### CUTTING ENVELOPE\*



## CHARACTERISTICS EVO 400

### HOOD

Type	Metal frames & PETG Motorised opening and closing
Safety	Locked during motor rotation
Fumes extraction outlet	76mm

### MOTORIZATION - POWER SUPPLY

Nominal power S1	7500W
Nominal power S3	11000W
Power supply	380V / Three-phases / 50Hz
Control of the motor	Frequency control

### CUT-OFF WHEELS

Type of cutting disk	Resinoid & diamond
Size of cutting disk	Up to 400mm
Rotation speed	1000 to 3000 RPM
Shaft diameter	32mm

### CONTROL

Control interface	Colour touchscreen
Code protection	Can be activated
Programmable	Up to 6 password-protected programmes
Communication interface / Machine control	Modbus

### CUTTING

Cutting method	Assisted, automatic, programmed, by impulse
Cutting regulation	Movement of the arm according to motor load
Axis Y travel	Travel 300mm* (optional)
Axis X travel	Travel 200mm* (optional)
Axis Z travel	320mm
Standard table	Left table 300 x 600mm. Right table 300 x 600mm
With X axis option - Manual transverse movement table	Left table 300 x 600mm. Right table 250 x 600mm
With Y axis option - Manual longitudinal movement table	Left table 300 x 300mm. Right table 300 x 300mm
Positioning laser	Option
Distance between cut-off wheel and table	200mm
Type of table	Treated aluminium table, interchangeable stainless steel palettes
Holders	Slotted T table (12mm) accepting all clamping systems available on the market

### LUBRICATION - COOLING

Pump & tank	External - 200L
Type of lubrication	Pump
Method of directing pumped coolant	Cutting disk housing and 2 mobile sprinklers on the table
Type of filtration	100µm washable textile filter

### ERGONOMICS

Internal lighting	LED
Spray nozzle for cleaning	Integrated

\* Customisable tables and stroke lengths.

See EVO 400 video link



## EVO 400+

Only the engine power differs from the EVO 400's characteristics:

- Nominal power (S1): 9000W
- Nominal power (S3): 15000W

## ACCESSORIES

### STAINLESS STEEL VICES AND HOLDERS



**Left and right quick clamping vices**  
Height 45mm  
Ref. 50906



**Left quick clamping vice**  
Height 45mm  
Ref. 50905



**Right quick clamping vice**  
Height 45mm  
Ref. 50909



**Left and right quick clamping vices**  
Height 70mm  
Ref. 50510

**Left and right quick clamping vices**  
Height 90mm  
Ref. 50911



**Chain clamp**  
Ref. 50617



**Box of Kopal holders**  
Ref. 50613



**Kopal holding**  
Ref. 50616



**Left and right screw clamping vices**  
Height 45mm  
Ref. 50902



**Left screw clamping vice**  
Height 45mm  
Ref. 50901

**X axis option - Manual transverse movement table**  
Ref. 50410

**Y axis option - Manual longitudinal movement table**  
Ref. 50411

**Right screw clamping vice**  
Height 45mm  
Ref. 50903

### OTHER ACCESSORIES



**Kit of V positioning supports**  
Ref. 50370



**Positioning laser**  
Ref. 50412

# EVO 450

## LARGE SIZE CUTTING MACHINE

### Ref. 50450

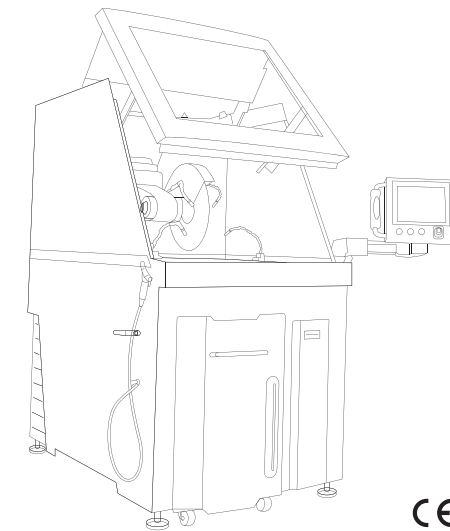
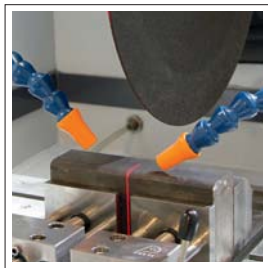
The EVO 450 is a very spacious, large capacity machine. The height of the space under the grinding wheel measures 165mm. Its tables can bear the weight of parts over 200kg.

This powerful machine, adapted for workshop use, combines ease of use with sturdiness. It has three cutting modes: assisted, automatic, programmable (ensures cut repeatability).

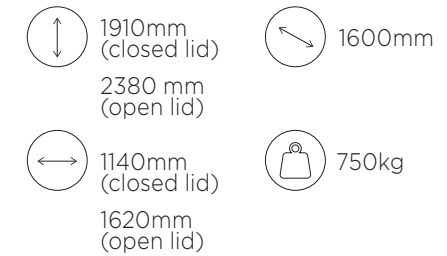
Its ergonomic design, with a motorised hood and multilingual, coloured, touch screen simplifies the user-machine interface.

Optional Extras:

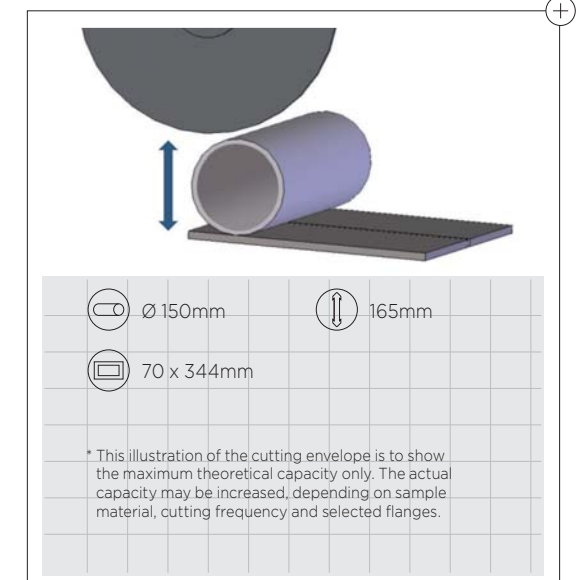
- Positioning Laser.
- Manual transverse movement table (X axis) to assist with lateral adjustment of the sample, and enable parallel sectioning.
- Manual longitudinal movement table (Y axis) to increase cut capacity



CE



### CUTTING ENVELOPE\*



Ø 150mm

165mm

70 x 344mm

\* This illustration of the cutting envelope is to show the maximum theoretical capacity only. The actual capacity may be increased, depending on sample material, cutting frequency and selected flanges.

## CHARACTERISTICS

### HOOD

Type	Metal frames & PETG Motorised opening and closing
Safety	Locked during motor rotation
Fumes extraction outlet	76mm

### MOTORIZATION - POWER SUPPLY

Nominal power S1	11000W
Nominal power S3	18500W
Power supply	380V / Three-phases / 50Hz
Control of the motor	Frequency control

### CUT-OFF WHEELS

Type of cutting disk	Resinoid & diamond
Size of cutting disk	Up to 450mm
Rotation speed	1000 to 3000 RPM
Shaft diameter	32mm

### CONTROL

Control interface	Colour touchscreen
Code protection	Can be activated
Programmable	Up to 6 password-protected programmes
Communication interface / Machine control	Modbus

### CUTTING

Cutting method	Assisted, automatic, programmed, by impulse
Cutting regulation	Movement of the arm according to motor load
Axis Y travel	Travel 300mm* (optional)
Axis X travel	Travel 200mm* (optional)
Axis Z travel	320mm
Standard table	Left table 300 x 600mm. Right table 300 x 600mm
With X axis option - Manual transverse movement table	Left table 300 x 600mm. Right table 250 x 600mm
With Y axis option - Manual longitudinal movement table	Left table 300 x 300mm. Right table 300 x 300mm
Positioning laser	Option
Distance between cut-off wheel and table	200mm
Type of table	Treated aluminium table, interchangeable stainless steel palettes
Holders	Slotted T table (12mm) accepting all clamping systems available on the market

### LUBRICATION - COOLING

Pump & tank	External - 200L
Type of lubrication	Pump
Method of directing pumped coolant	Cutting disk housing and 2 mobile sprinklers on the table
Type of filtration	100µm washable textile filter

### ERGONOMICS

Internal lighting	LED
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\* Customisable tables and stroke lengths.

See EVO 450 video link



## ACCESSORIES

### STAINLESS STEEL VICES AND HOLDERS



**Left and right quick clamping vices**  
Height 45mm  
Ref. 50906



**Left quick clamping vice**  
Height 45mm  
Ref. 50905



**Right quick clamping vice**  
Height 45mm  
Ref. 50909



**Left and right quick clamping vices**  
Height 70mm  
Ref. 50510



**Left and right quick clamping vices**  
Height 90mm  
Ref. 50911



**Chain clamp**  
Ref. 50617



**Box of Kopal holders**  
Ref. 50613



**Kopal holding**  
Ref. 50616



**Left and right screw clamping vices**  
Height 45mm  
Ref. 50902



**Left screw clamping vice**  
Height 45mm  
Ref. 50901

**X axis option - Manual transverse movement table**  
Ref. 50410

**Y axis option - Manual longitudinal movement table**  
Ref. 50411

**Right screw clamping vice**  
Height 45mm  
Ref. 50903

### OTHER ACCESSORIES



**Kit of V positioning supports**  
Ref. 50370



**Positioning laser**  
Ref. 50412



# EVO 500

## VERY LARGE SIZE CUTTING MACHINE ALL OPTIONS

### Ref. 50800

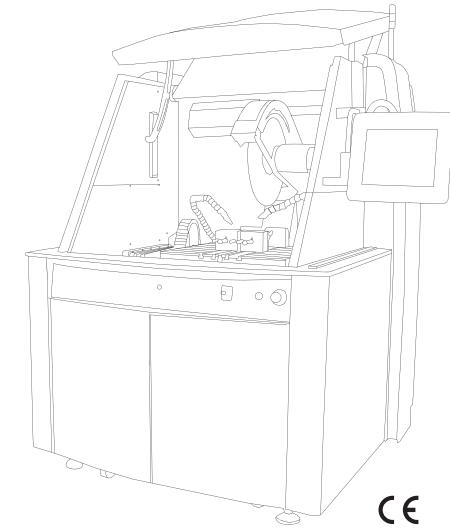
The EVO 500 is a very high capacity machine, equipped with the most recent technology. The height of the space under the grinding wheel measures 240mm. Its tables can bear the weight of parts over 200kg.

This top of the range machine boasts exceptional motorisation and an automatic cleaning system.

It has three cutting modes: assisted, automatic, and programmable. The X,Y and Z axes are motorised.

The EVO 500 benefits from cutting edge innovations such as part recognition and an integrated force sensor.

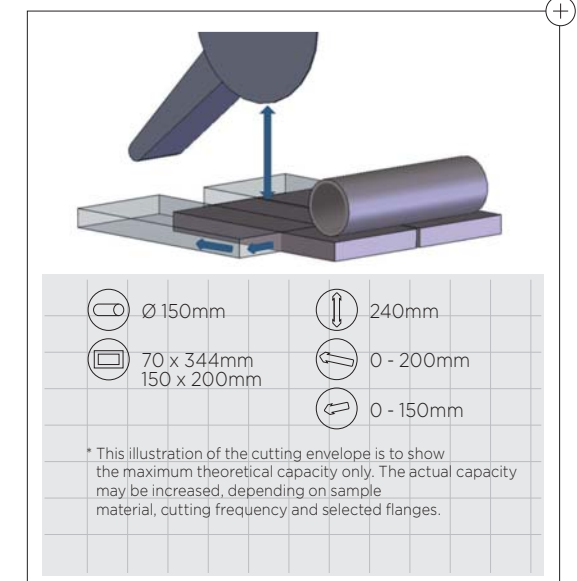
Its ergonomic design, with a motorised hood and a multilingual, coloured, touch screen simplifies the user-machine interface.



CE



### CUTTING ENVELOPE\*



## CHARACTERISTICS

### HOOD

Type	Metal frames & PETG Motorised opening and closing
Safety	Locked during motor rotation
Fumes extraction outlet	76mm

### MOTORIZATION - POWER SUPPLY

Nominal power S1	11000W
Nominal power S3	18500W
Power supply	380V / Three-phases / 50Hz
Control of the motor	Frequency inverter

### CUT-OFF WHEELS

Type of cut-off wheels	Resin bonded and metal bonded
Wheel diameter	Up to 500mm
Rotational speed	from 1.000 to 3.000 RPM
Arbor size	32mm

### CONTROL

Interface	Colour touchscreen
Security Access	Can be activated
Programmability	Up to 100 password-protected programmes
Communication interface / Machine control	MODBUS

### CUTTING

Cutting method	Assisted, automatic, programmed, by impulse
Work piece feed	Y axis table feed and Z axis wheel feed
Feed rate	From 0.01mm/sec to 3mm/sec Feed speed according to the motor load Movement of the arm according to the motor load
Cutting control	Feed of the table and movement of the arm according to the contact force cut off wheel / workpiece to cut
Axis Y travel	200mm*
Axis X travel	150mm*
Axis Z travel	400mm
Serial cutting	2 modes: Y Axis cut and Z Axis cut
Dimensions tables	Left table: 295 x 600mm Right table: 295 x 600mm*
Positioning laser	Yes
Table type	Treated aluminium table with interchangeable stainless steel
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed

### LUBRICATION - COOLING

Pump and tank	External-300L
Type of lubrication	By Pump
Position of lubrication-Cooling	2 ports in the wheel guard 2 alignable nozzles mounted on the wheel assembly
Type of filtration	Washable 200µm fabric filter
Automatic filling	Yes with control of levels

### ERGONOMICS

Internal lighting	LED
Spray nozzle for cleaning	Integrated
Automatic cleaning cycle	Yes

\* Customisable tables and stroke lengths.

## ACCESSORIES

### STAINLESS STEEL VICES AND HOLDERS



**Left and right quick clamping vices**  
Height 45mm  
Ref. 50906



**Left quick clamping vice**  
Height 45mm  
Ref. 50905



**Right quick clamping vice**  
Height 45mm  
Ref. 50909



**Left and right quick clamping vices**  
Height 70mm  
Ref. 50510



**Left and right quick clamping vices**  
Height 90mm  
Ref. 50911



**Chain clamp**  
Ref. 50617



**Box of Kopal holders**  
Ref. 50613



**Kopal holding**  
Ref. 50616



**Left and right screw clamping vices**  
Height 45mm  
Ref. 50902



**Left screw clamping vice**  
Height 45mm  
Ref. 50901

**Right screw clamping vice**  
Height 45mm  
Ref. 50903

### OTHER ACCESSORIES



**Kit of V positioning supports**  
Ref. 50370

See EVO 500 video link



# DIAMOND WIRE SAWS

FINE CUTTING AND ABSOLUTE PRECISION

## Ref. 52020

With their stainless steel wire set with diamonds, the diamond wire saws cut 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.



## 3500 PREMIUM SAW

↑ 460mm      ⚖ 13.8kg

↔ L: 410mm      CE  
W: 345mm



## 3500 BASE SAW Ref. 52010

↑ 460mm      ⚖ 13.8kg

↔ L: 410mm / W: 345mm      CE



## 3400 SAW Ref. 52030

↑ 310mm      ⚖ 11.3kg

↔ L: 450mm / W: 290mm      CE

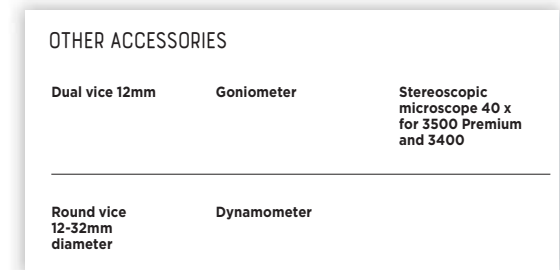
## CHARACTERISTICS

	3500	3500 PREMIUM	3400
<b>POWER SUPPLY - CONTROL</b>			
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)	✓	✓	✓
Wi-Fi (possibility of remote machine control in dangerous or difficult environments)	on demand	on demand	on demand
Timer	✓	✓	✓
<b>WORKING AREA</b>			
Height adjustment (counterweight position markers using coloured dots, like on the winder)	✓	✓	
<b>ADVANCEMENT</b>			
Gravity (wire)	✓	✓	
Scale/Weight (sample)			✓
<b>CUTTING DEPTH</b>			
Maximum in mm	60	35/52	50
Slider with electronic end-of-cut stop		✓	
<b>SAMPLE HOLDER</b>			
Slotted table	✓	✓	
Micrometric table	option	✓	✓
30mm diameter with 5 ceramic plates	option	✓	✓
30mm diameter 90° with 5 ceramic plates	✓	✓	✓
Turning deck		✓	
<b>LUBRIFICATION</b>			
Dampening device	✓	✓	✓
<b>WARRANTY</b>			
12 months (excluding wear parts)	✓	✓	✓

## CONSUMABLES

RÉF.	DESIGNATION	Ø
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



See DIAMOND WIRE SAWS  
video link

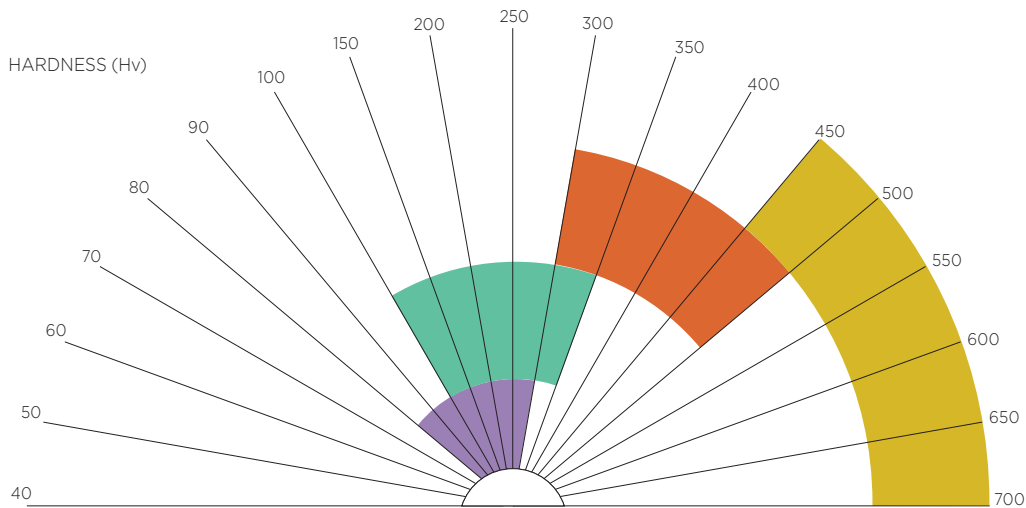




# RESINOID CUT-OFF WHEELS

## ABRASIVE $Al_2O_3$ - 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. Cut-off wheels made of abrasive  $Al_2O_3$  (alumina) are intended for cutting ferrous materials.



### WHEELS RECOMMENDED MATERIALS

<b>S</b>	Treated steels, with fragile coatings, difficult materials.
<b>AO</b>	Treated steels, stainless steels, refractory metals, alloyed cast irons.
<b>A</b>	Low carbon, mild and extra mild and treated steels with medium cross-sections.
<b>AOFII</b>	Rubber bonded cut-off wheel, thin section cutting, low cross-section sintered steels, hard metal layers.

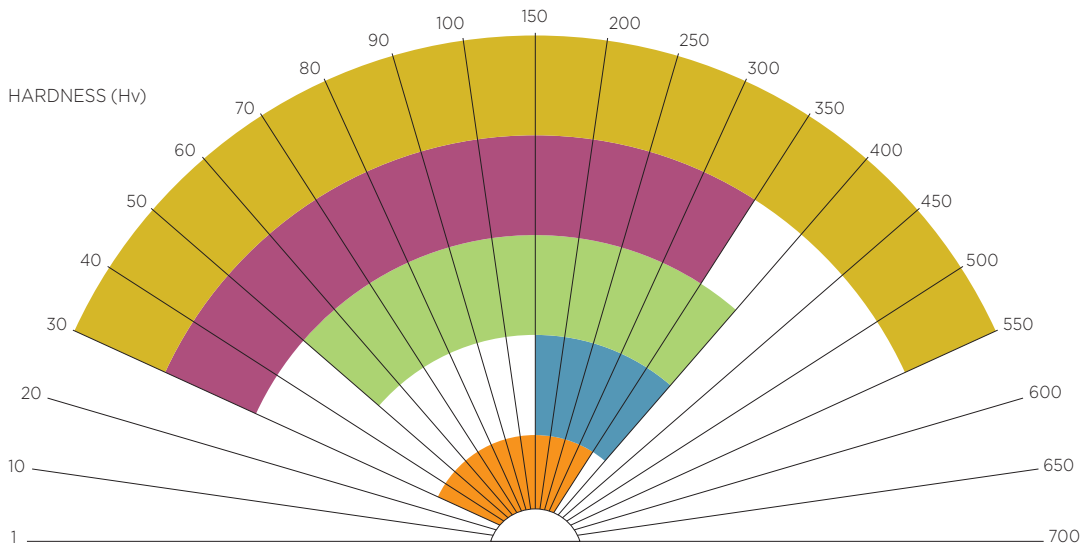
## STANDARD RESINOID CUT-OFF WHEELS

Pack of 10

REF.	DESIGNATION	Ø	
<b>S</b>	01016	Cut-off wheel type S	Ø 250 x 1.6 x 32mm
	01022	Cut-off wheel type S	Ø 300 x 2 x 32mm
	01032	Cut-off wheel type S	Ø 350 x 2.5 x 32mm
	01034	Cut-off wheel type S	Ø 400 x 3 x 32mm
	01039	Cut-off wheel type S	Ø 450 x 3.5 x 32mm
	01064	Cut-off wheel type S	Ø 500 x 3 x 32mm
<b>AO</b>	01046	Cut-off wheel type AO	Ø 125 x 0.5 x 12.7mm
	01043	Cut-off wheel type AO	Ø 150 x 0.5 x 12.7mm
	01002	Cut-off wheel type AO	Ø 200 x 1.6 x 25.4mm
	01008	Cut-off wheel type AO	Ø 230 x 1.6 x 22mm
	01014	Cut-off wheel type AO	Ø 250 x 1.6 x 32mm
	01020	Cut-off wheel type AO	Ø 300 x 2 x 32mm
	01030	Cut-off wheel type AO	Ø 350 x 2.5 x 32mm
	01027	Cut-off wheel type AO	Ø 400 x 3 x 32mm
	01036	Cut-off wheel type AO	Ø 450 x 3.5 x 32mm
01063	Cut-off wheel type AO	Ø 500 x 3 x 32mm	
<b>A</b>	01040	Cut-off wheel type A	Ø 100 x 0.3 x 12.7mm
	01015	Cut-off wheel type A	Ø 250 x 1.6 x 32mm
	01021	Cut-off wheel type A	Ø 300 x 2 x 32mm
	01033	Cut-off wheel type A	Ø 350 x 2.5 x 32mm
	01029	Cut-off wheel type A	Ø 400 x 3 x 32mm
	01038	Cut-off wheel type A	Ø 450 x 3.5 x 32mm
	01062	Cut-off wheel type A	Ø 500 x 3 x 32mm
<b>AOFII</b>	01001	Cut-off wheel type AOF II	Ø 200 x 0.8 x 25.4mm
	01012	Cut-off wheel type AOF II "S"	Ø 250 x 0.8 x 32mm
	01013	Cut-off wheel type AOF II	Ø 250 x 0.8 x 32mm
	01019	Cut-off wheel type AOF II	Ø 300 x 1 x 32mm

## ABRASIVE SIC - 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. Cut-off wheels made of abrasive Sic (silicon carbide) are intended for cutting non-ferrous materials.



### WHEELS RECOMMENDED MATERIALS

<b>S</b>	Multi-material micro-cutting machine
<b>MNF</b>	Aluminium, copper and alloys, non ferrous metals, titanium and alloys.
<b>T</b>	Titanium, titanium alloys, non ferrous metals.
<b>F</b>	White, grey and spheroidal graphite cast iron, titanium and alloys.
<b>C</b>	Aluminium, copper and alloys, non ferrous metals, titanium and alloys.

## STANDARD RESINOID CUT-OFF WHEELS

Pack of 10

	REF.	DESIGNATION	Ø
<b>S</b>	01060	Cut-off wheel type S (SIC)	Ø 180 x 0.5 x 25.4mm
<b>MNF</b>	01005	Cut-off wheel type MNF	Ø 200 x 1.6 x 25.4mm
	01017	Cut-off wheel type MNF	Ø 250 x 1.6 x 32mm
	01023	Cut-off wheel type MNF	Ø 300 x 2 x 32mm
	01031	Cut-off wheel type MNF	Ø 350 x 2.5 x 32mm
	01028	Cut-off wheel type MNF	Ø 400 x 3 x 32mm
	01037	Cut-off wheel type MNF	Ø 450 x 3.5 x 32mm
	01066	Cut-off wheel type MNF	Ø 500 x 3 x 32mm
<b>T</b>	01071	Cut-off wheel type T	Ø 250 x 1.6 x 32mm
	01072	Cut-off wheel type T	Ø 300 x 2 x 32mm
	01073	Cut-off wheel type T	Ø 350 x 2.5 x 32mm
	01048	Cut-off wheel type T	Ø 450 x 3 x 32mm
	01065	Cut-off wheel type T	Ø 500 x 3 x 32mm
<b>F</b>	01018	Cut-off wheel type AOF F	Ø 250 x 1.6 x 32mm
	01024	Cut-off wheel type AOF F	Ø 300 x 2 x 32mm
<b>C</b>	01041	Cut-off wheel type AOF C	Ø 100 x 0.3 x 12,7mm

# 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	
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	
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	

REF.	DESIGNATION	Ø	
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	

REF.	DESIGNATION	Ø	
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	

#### 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.

#### LM Metallic bond

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

#### LM+ Metallic bond

High concentration disc to cut hard materials such as: tungsten carbide, silicon carbide, plasma deposit, 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	10l drum



### ANTISEPTIC LIQUID

Avoids spreading of bacteria 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



### 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

### DRESSING STICK FOR DIAMOND DISC

REF.	DESIGNATION
51164	Dressing stick for diamond disc

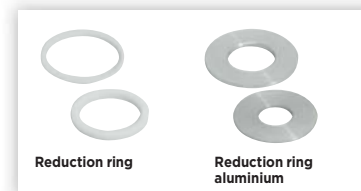


### REDUCTION RINGS\*

2 types of reduction rings also to adapt the cut-off wheels ID with the machine arbor.

REF.	DESIGNATION	Ø
<b>Pack of 20</b>		
01091	Reduction ring	25.4 / 22mm
01092	Reduction ring	32 / 25.4mm
<b>Pack of 5</b>		
51324	Reduction ring aluminium	25.4 / 12.7mm
51331	Reduction ring aluminium	32 / 12.7mm

\* Other diameters on request.







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# 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.



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PRESSURE AND VACUUM MOUNTING MACHINES



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IP-FAST KM-BACK



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MOULDS

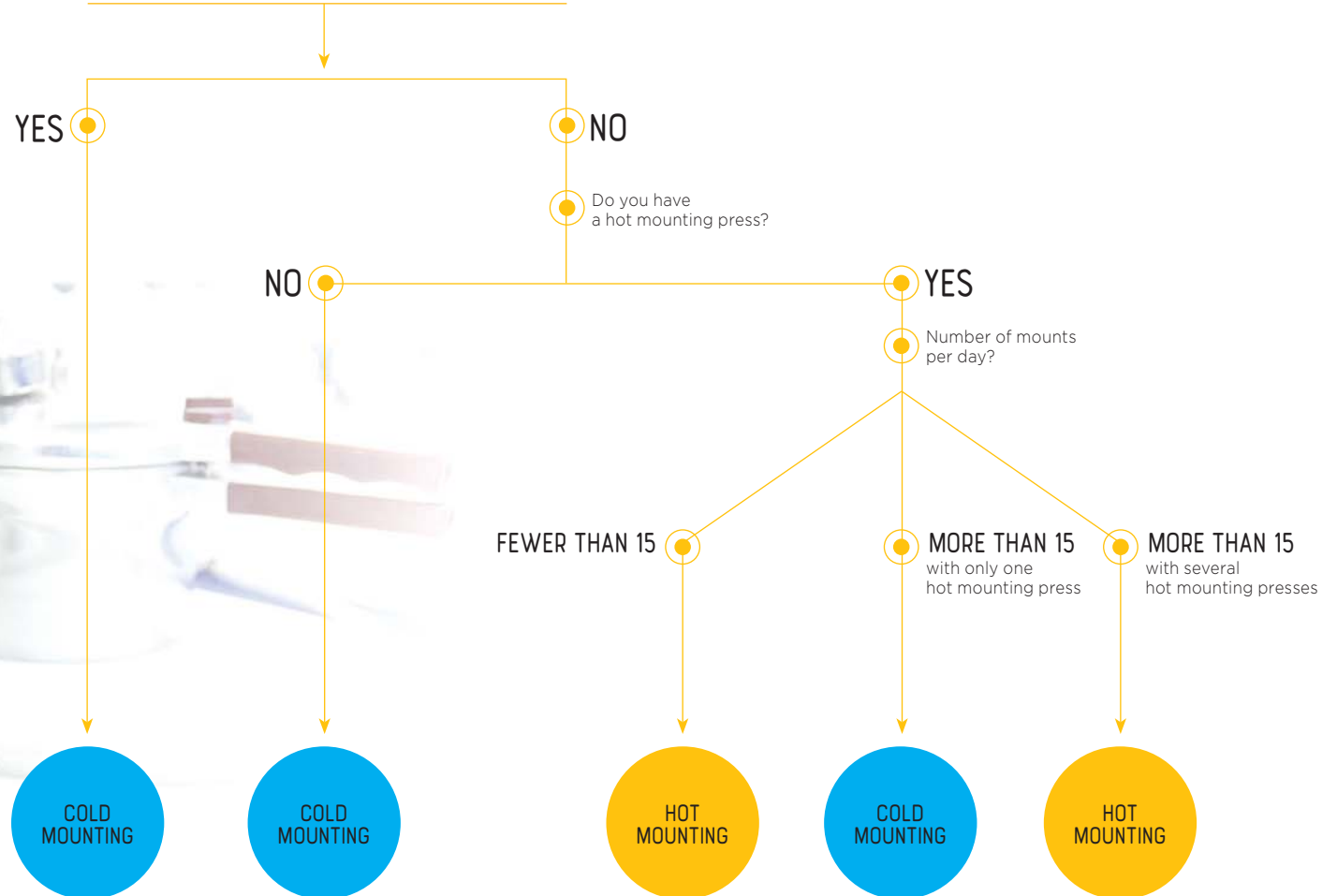


# COLD OR HOT MOUNTING?



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?



**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 RESIN	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) 	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

## IP RESIN

REF.	DESIGNATION
04200	Pack 1kg + 100 CC catalyst**
04201	Bottle 100 CC catalyst
04202	Bottle 1kg resin
04805	15kg resin
04806	1,5L catalyst

## IP-FAST RESIN

REF.	DESIGNATION
04070	Pack 1kg + 300 CC catalyst
04071	Bottle 300 CC catalyst
04072	Bottle 1kg resin

## MA2+ RESIN

REF.	DESIGNATION
04040	Pack 1kg + 100 CC catalyst**
04009	Bottle 100 CC catalyst
04041	Bottle 1kg resin
04803	15kg resin
04804	1,5L catalyst

## 2S RESIN

REF.	DESIGNATION
04010	Pack 1kg + 30 CC catalyst**
04011	Bottle 30 CC catalyst
04042	Bottle 1kg resin

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

## DYES (POWDER) FOR 2S, MA2+, IP RESINS

REF.	DESIGNATION
04184	1 000mg Red
04185	1 000mg Blue
04186	1 000mg 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 phenolic 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)	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	Pack 1kg powder
04142	Bottle 500 CC catalyst
04143	Pack 10kg powder
04144	Bottle 5l catalyst

## KM-V RESIN

REF.	DESIGNATION
04031	Pack 1kg powder + 500 CC catalyst*
04032	Pack 1kg powder
04033	Bottle 500 CC catalyst
04034	Pack 10kg powder
04035	Bottle 5l catalyst

## KM-B RESIN

REF.	DESIGNATION
04130	Pack 1kg powder KM-B + 500 CC catalyst*
04131	Pack 1kg powder resin KM-B
04132	Bottle 500 CC catalyst KM-B

## KM-EM RESIN

REF.	DESIGNATION
04150	Pack 1 kg powder + 500 CC catalyst*
04151	Pack 1kg powder
04152	Bottle 500 CC catalyst

## KM-CO RESIN

REF.	DESIGNATION
04160	Pack 1 kg poudre + 1 l de catalyseur*
04161	Pack 1kg powder resin
04162	Bottle 1litre catalyst

\* Packs of KM-U, KM-B, KM-V, KM-EM and KM-CO are delivered with 10 plastic cups and 10 stirring sticks.

## KM-BACK RESIN

REF.	DESIGNATION
04060	Pack 1kg powder + 500 CC catalyst
04061	Pack 1kg powder resin
04062	Bottle 500 CC catalyst

## DYES (LIQUID) FOR KM-U

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



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# 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 15 minutes

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

### ACCESSORIES



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



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



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



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



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

## MOUNT RELEASE AGENT



Just spray into the mould of the mounting machine!

REF.	DESIGNATION
03008	Mould release Silicone aerosol 500ml
03208	Silfree-Jet* mould removal aerosol

\* Non-disruptive mold release spray.

## KM 2.0



### PRECISE

The size of the sample is always perfectly calibrated thanks to the adjustable ring.



### SO SIMPLE

No problem of demoulding. The base is made of silicon, and therefore easy to remove.



### 100% TRANSPARENT

The ring ensures maximum transparency: the sample to be polished is thereby easily identified.



### CLEAN

The silicon base is totally airtight.



### RESPECTING THE ENVIRONMENT

The silicon base is reusable, which means less waste. The concept requires less resin.

COMPATIBLE WITH ALL COLD MOUNTING RESINS





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010001101010100101010110100110101  
110101010101010101010011001101010  
10110001011110101010101010101010

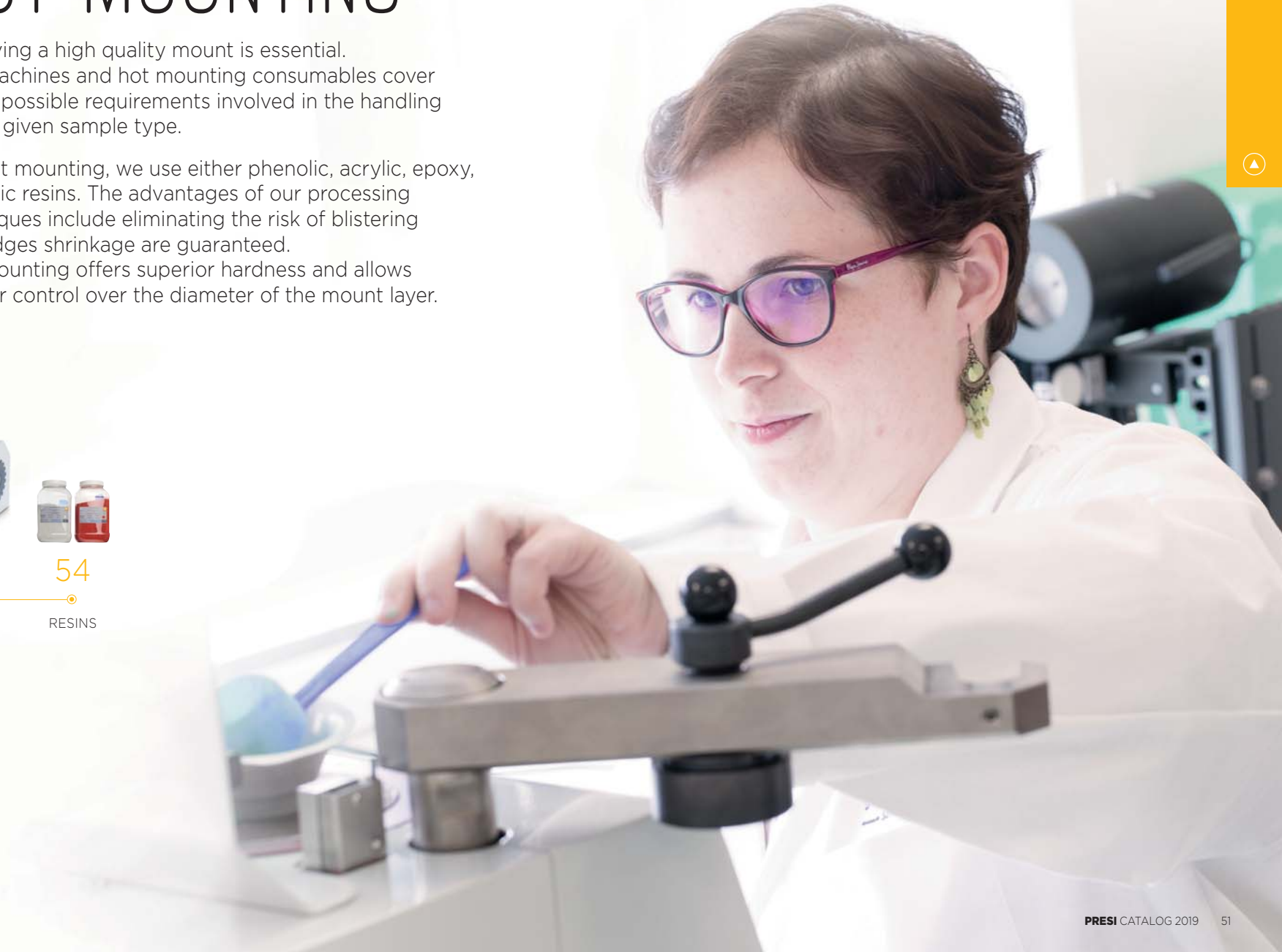




# HOT MOUNTING

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.

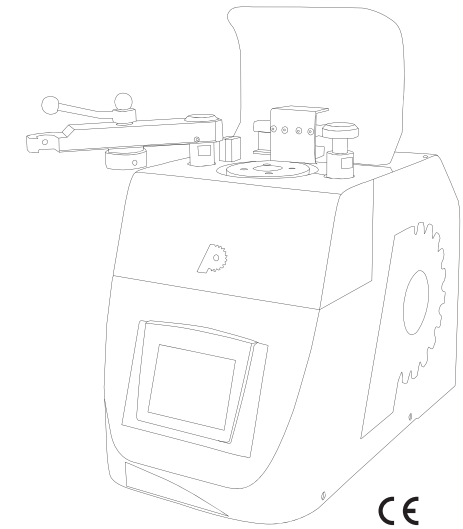
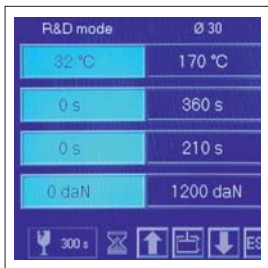


# MECAPRESS 3

## THE HOT MOUNTING PRESS

### Ref. 53500

MECAPRESS 3 is a fully automated hot mounting press. Very easy to use, MECAPRESS 3 offers all the features expected in a high precision machine: memorisation and adjustment of all mounting parameters, custom programmability, rapid cycle option and water saving mode. A powerful and flexible machine.



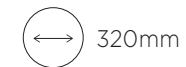
CE



530mm



560mm



320mm



65kg



## CHARACTERISTICS

Automatic cycle	✓
Fast cycle	✓
Temperature adjustable	From 100 to 200°C, by step of 1°C
Heating time adjustable	From 0 to 1800 seconds, by step of 1 second
Cooling time adjustable	From 0 to 1800 seconds, by step of 1 second
Cooling mode adjustable	✓
Pressure adjustable	From 300 to 1.800 daN, by step of 1 daN (for a 6 bars compressed air network)
Fragile sample function	✓ only with acrylic resin
Mould diameter	25.4/30/31.7/38.1/40/50mm
Intermediate ram (to allow two molds be made at the same time)	✓
Easy interchangeable moulds	✓
Possibility to stop the piston at the required position	✓
Fast arm lock	✓
Secure mould closing	✓
Sensor for detecting if mould is closed	✓
Mounting parameters adjustable	✓
Mounting parameters readable on tactile screen	✓
Memorised mounting processes	More than 100 processes
Cooling by pulse	✓
Connectors to plug and control tank and re-circulating pump	✓
Easy cleaning	✓
Easy use and maintenance	✓
Power	> 2 KW
Electrical input	230 V/50-60 Hz/8 A
Air pressure (input)	6-10 bars
Air connector diameter (input and output)	Ø 10mm
Water connector diameter (input and output)	Ø 12mm
Anti chalk system (ref. 53520)	✓

## ACCESSORIES

### MOULD SETS FOR MECAPRESS 3



**Mould set  
Ø 25.4mm**  
Ref. 53505

**Mould set  
Ø 30mm**  
Ref. 53506

**Mould set  
Ø 31.7mm**  
Ref. 50907

**Mould set  
Ø 38.1mm**  
Ref. 53508

**Mould set  
Ø 40mm**  
Ref. 53509

**Mould set  
Ø 50mm**  
Ref. 53510

### INTERMEDIATE RAMS

Intermediate rams enable to achieve 2 simultaneous mounts with only one mould.



**Intermediate rams  
Ø 25.4mm**  
Ref. 53416

**Intermediate rams  
Ø 30mm**  
Ref. 53420

**Intermediate rams  
Ø 31.7mm**  
Ref. 53421

**Intermediate rams  
Ø 38.1mm**  
Ref. 53422

**Intermediate rams  
Ø 40mm**  
Ref. 53423

**Intermediate rams  
Ø 50mm**  
Ref. 53424

### OTHER ACCESSORIES



#### 55 l recirculating tank and pump system

It allows to work with a closed circuit cooling. It saves water during the sample cooling cycle without lengthening the time.

A gesture for the environment!  
 • No more problem of limestone  
 • Water saving  
 Ref. 53515



**Low noise air compressor (for labs with no compressed air supply)**  
 Ref. 67750



**Refill cartridge for anti chalk system Mecapress 3**  
 Ref. 53521

See MECAPRESS 3 video link





# 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	
03008	Mount release agent Silicone aerosol 500ml	
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

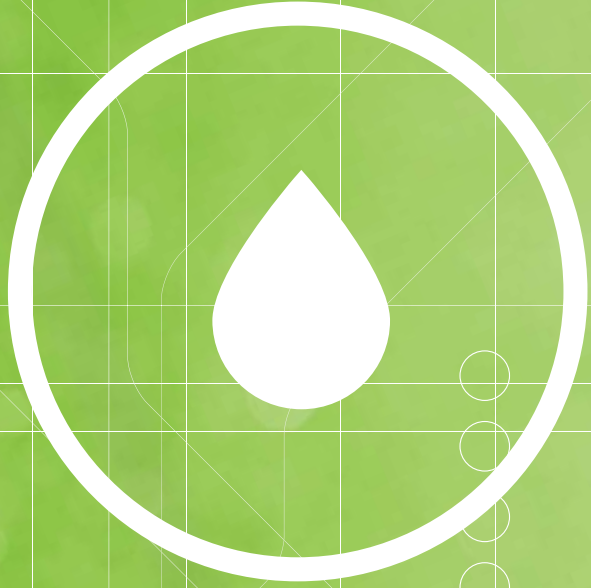
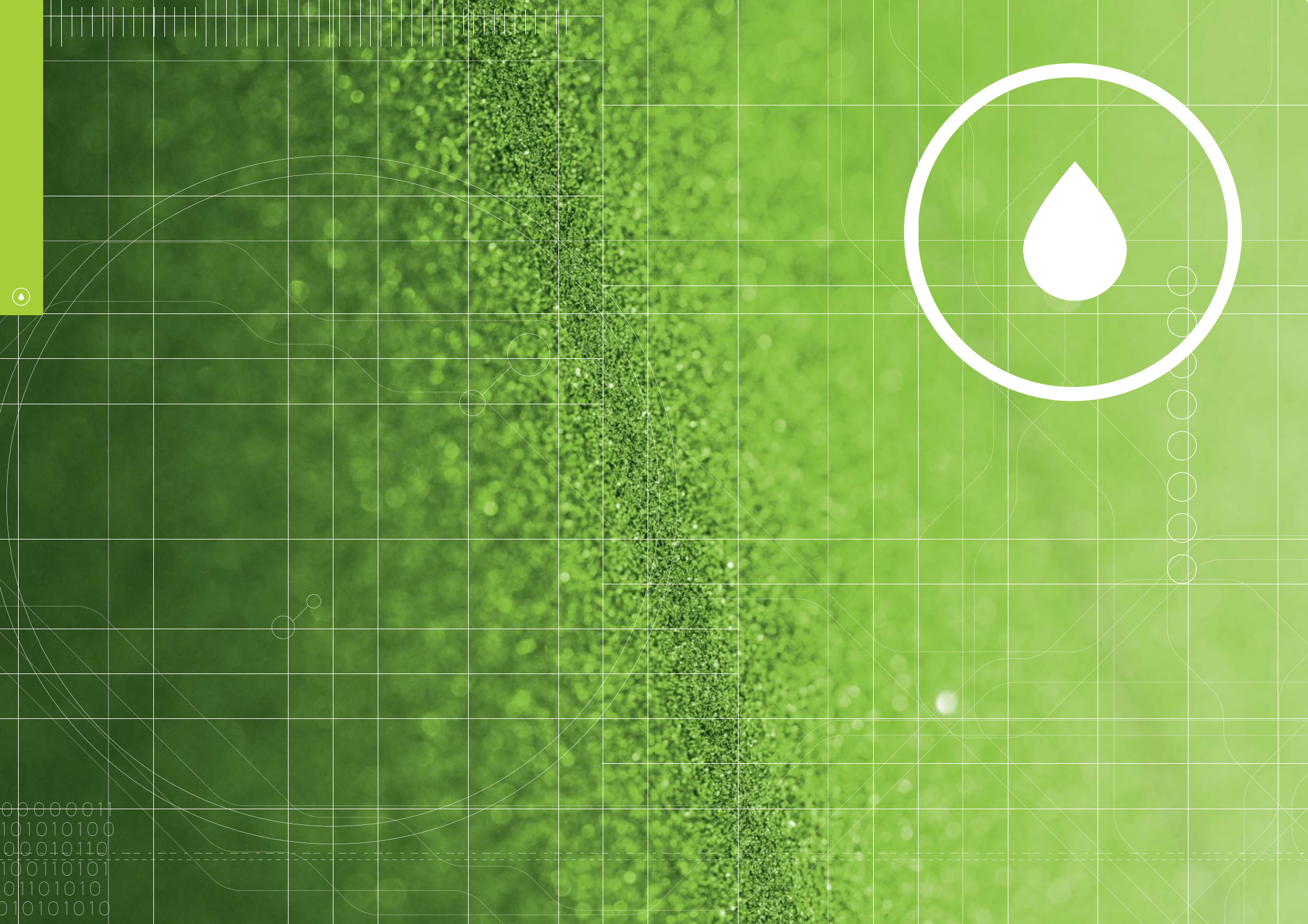
REF.	DESIGNATION	
03005	Pack 2.5kg Allylic fiber glass	
03106	Pack 10kg Allylic fiber glass	
03157	Pack 20kg Allylic fiber glass	

## 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	







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# POLISHING

The polishing step is essential in order to eliminate residual scratches and defects that would otherwise interfere with microscopic analysis or hardness measurements. Ever-more efficient, our new range of manual and automatic polishing machines covers all of your requirements, from the grinding stage to the super-finishing polishing stage, or from the polishing of a single sample to the polishing of multiple samples at a time.

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.



									
58	60	64	66	68	72	74	76	77	79
LE CUBE	MINITECH	MECAPLAN 350	MECATECH 334 SPC	MECATECH	MECATECH 300 SPS	VIBROTECH 300	POLISEC C25	ELECTER EVOLUTION	CONSUMABLES from grinding to super-finishing
									
80	82	83	90	92	94	95	98	99	100
PRESI GUIDE Adaptation devices	PRESI GUIDE Grinding	CONSUMABLES Grinding	PRESI GUIDE Polishing cloths	CONSUMABLES Polishing cloths	PRESI GUIDE Diamond polishing	CONSUMABLES Diamond	CONSUMABLES Super-finishing polishing	CONSUMABLES Electrolytic polishing	CONSUMABLES Attack reagents



# LE CUBE

## THE IDEAL SOLUTION FOR BASIC POLISHING OPERATIONS

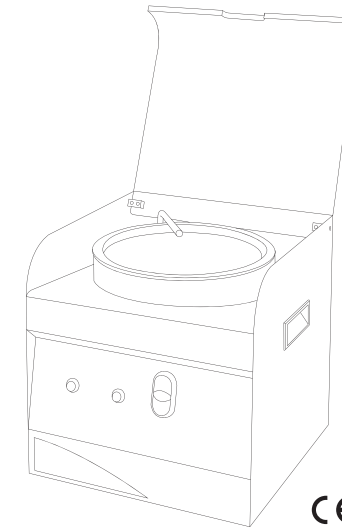
### Ref. 66250

LE CUBE is a Ø 200 and 250mm manual polishing machine. Simple, reliable and sturdy, it is the ideal solution for laboratories, schools or research centres. Equipped with a frequency inverter, LE CUBE has a high-torque motor turning either clockwise or counter-clockwise.

The polishing plate is equipped with two speed rotation settings (150 & 300 RPM). The multi-jet water spray ensures the optimum lubrication of the platen surface.

With its removable platen the cleaning of the machine is very easy. LE CUBE is dust free thanks to the clear integrated hood. LE CUBE direct transmission on bearings confers an incomparable silence in use.

LE CUBE can be used with any type of polishing surface: non-adhesive, adhesive, PRESI Reflex System and magnetic. No particular adaptation is required.



- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 32mm

## CHARACTERISTICS

Diameter of the polishing platen	200 or 250mm
Rotation speed	150 & 300 RPM
Direction of rotation	Clockwise and counter-clockwise
Multi jet water spray	✓
Removable polishing platen	✓
Nominal power S1	90W
Nominal power S3	180W
Frequency inverter	✓
High-torque motor	✓
Speed and torque compensation	✓
Immediate stop of the platen (safety)	✓
Progressive acceleration	✓
Transparent protection hood	✓
Splash guard	✓
Simplified maintenance and after sales use	✓
Power supply	230V / 50-60Hz

## ACCESSORIES

### PLATENS AND BASE PLATENS



**Almagtech platen  
Ø 200mm**  
Ref. 67822

**Almagtech platen  
Ø 250mm**  
Ref. 67820



**Circular paper holder  
(metal) Ø 200mm**  
Ref. 56054

**Circular paper holder  
(metal) Ø 250mm**  
Ref. 56055

### OTHER ACCESSORIES



**Grinding recirculation tank  
with 5µ filter**  
Ref. 67130

Download LE CUBE technical sheet



# MINITECH

## THE LATEST GENERATION OF MANUAL POLISHING MACHINES

### Ref. 66400

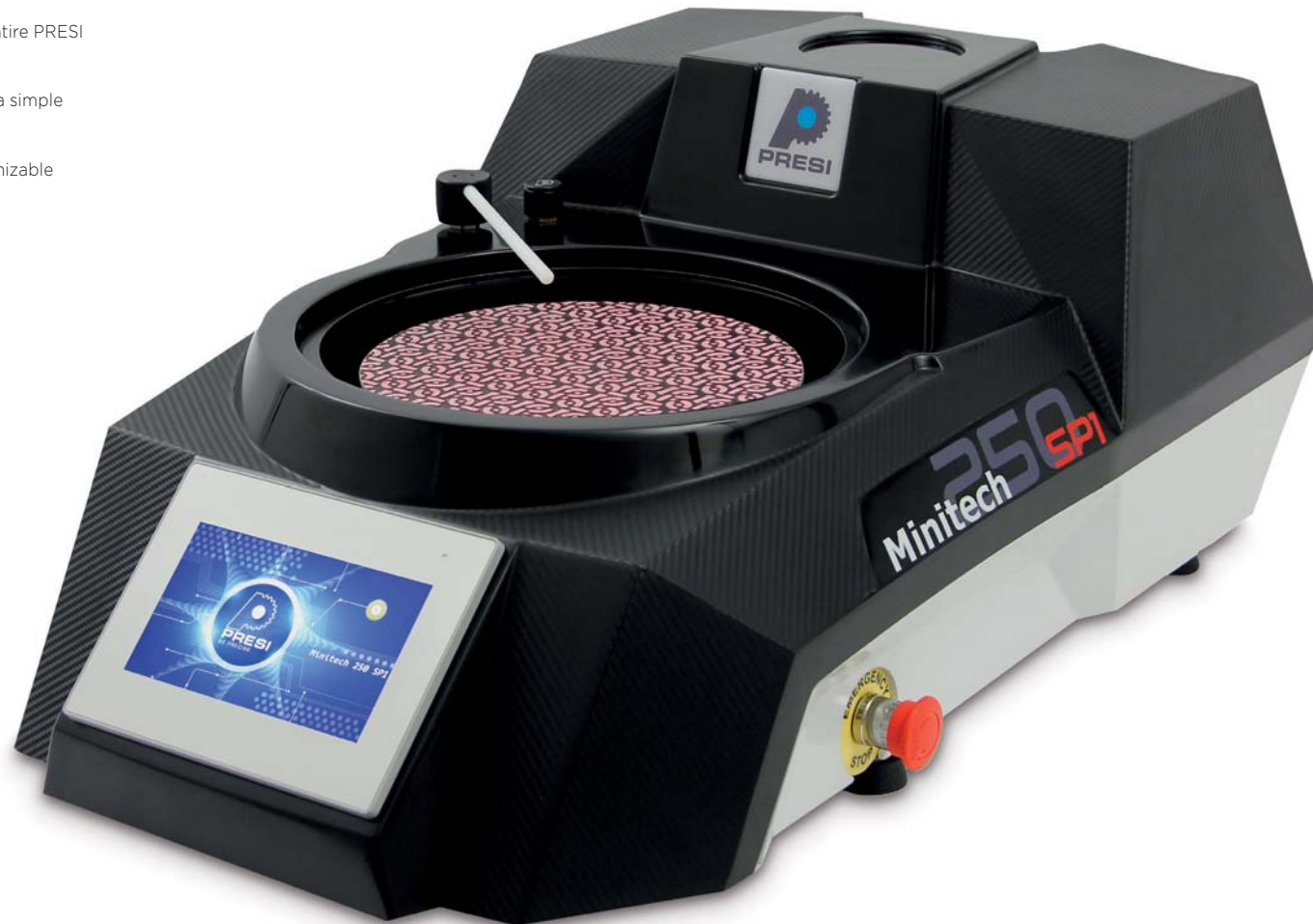
Equipped with platens from Ø200 to 300mm, the new range of MINITECH manual polishing machines has the most advanced technologies.

Thanks to a motor power from 750W to 1500W, the entire PRESI experience is condensed in this most complete range on the market.

User-friendly, reliable and robust, MINITECH provides a simple answer to all needs.

With its affirmed style and edged lines, this new range is distinguished by its new design with an easily recognizable sleek and refined carbon look.

All our machines are CE certified.



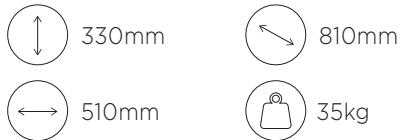
Download MINITECH technical sheet



PLATEN DIAMETERS: 200 TO 250MM

**MINITECH 250 SP1**

Ref. 66400



- 1 platen
- 1 motor
- 1 watering ramp
- 1 removable bowl

**MINITECH 250 DP1**

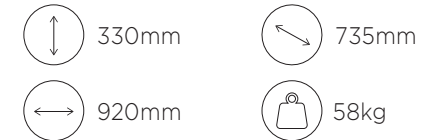
Ref. 66410



- 2 platens
- 1 motor
- 2 watering ramps
- 2 removable bowls

**MINITECH 250 DP2**

Ref. 66420

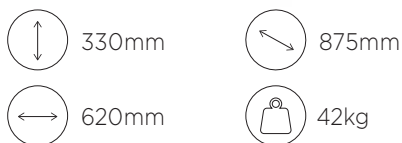
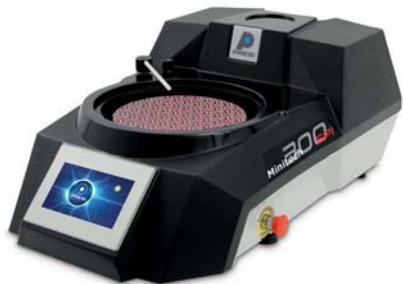


- 2 platens
- 2 motors
- 2 watering ramps
- 2 removable bowls

PLATEN DIAMETERS: 250 TO 300MM

**MINITECH 300 SP1**

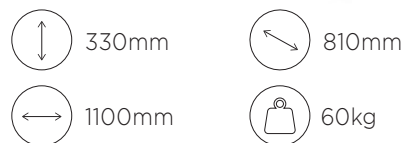
Ref. 66430



- 1 platen
- 1 motor
- 1 watering ramp
- 1 removable bowl

**MINITECH 300 DP1**

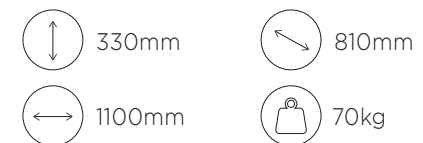
Ref. 66440



- 2 platens
- 1 motor
- 2 watering ramps
- 2 removable bowls

**MINITECH 300 DP2**

Ref. 66450



- 2 platens
- 2 motors
- 2 watering ramps
- 2 removable bowls



## CHARACTERISTICS MINITECH

	250 SP1	250 DP1	250 DP2	300 SP1	300 DP1	300 DP2
Number of platens	1	2	2	1	2	2
Number of motors	1	1	2	1	1	2
Diameter of the polishing platen	200 to 250mm	200 to 250mm	200 to 250mm	250 to 300mm	250 to 300mm	250 to 300mm
Rotation speed (in increment of 1RPM)	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM
Rotation direction	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise
Timer	✓	✓	✓	✓	✓	✓
Speed display	✓	✓	✓	✓	✓	✓
Time display in seconds	✓	✓	✓	✓	✓	✓
Display of applied force	✓	✓	✓	✓	✓	✓
Memorizing settings	✓	✓	✓	✓	✓	✓
Watering by multijet ramp	✓	✓	✓	✓	✓	✓
Nominal power S1	750W	750W	750W	900W	900W	900W
Nominal power S3	1100W	1100W	1100W	1500W	1500W	1500W
600 RPM spin function	✓	✓	✓	✓	✓	✓
High engine torque	✓	✓	✓	✓	✓	✓
Constant speed of the platen	✓	✓	✓	✓	✓	✓
Immediate stop of the platen	✓	✓	✓	✓	✓	✓
Bearing transmission	✓	✓	✓	✓	✓	✓
Additional bowl	✓	✓	✓	✓	✓	✓
Progressive acceleration of the platen	✓	✓	✓	✓	✓	✓
Splash guard	✓	✓	✓	✓	✓	✓
Power supply*	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Max. current	8 A	8 A	8 A	8 A	8 A	8 A
Water inlet	Ø 12mm	Ø 12mm	Ø 12mm	Ø 12mm	Ø 12mm	Ø 12mm
Water outlet	Ø 32mm	Ø 32mm	Ø 32mm	Ø 32mm	Ø 32mm	Ø 32mm

\* possibility 110 VAC: 50 - 60 Hz

## ACCESSORIES

### PLATEN AND BASE PLATEN



**Drive platen with aluminium positioner**  
 ø 196mm. Ref. 56350  
 ø 245mm. Ref. 67221



**Almagtech platen**  
 ø 200mm. Ref. 67822  
 ø 250mm. Ref. 67820  
 ø 300mm. Ref. 67821



**Circular paper holder (metal)**  
 ø 200mm. Ref. 56054  
 ø 250mm. Ref. 56055



**Circular paper holder (PVC)**  
 ø 200mm. Ref. 56067  
 ø 250mm. Ref. 56068  
 ø 300mm. Ref. 56069



**PVC platen with machined cone**  
 ø 230mm. Ref. 56066  
 ø 250mm. Ref. 56062  
 ø 300mm. Ref. 57163



**Full PVC platen with machined cone**  
 ø 200mm. Ref. 56053  
 ø 250mm. Ref. 56063  
 ø 300mm. Ref. 56064

### OTHER ACCESSORIES



**PVC lid**  
 ø 250mm. Ref. 66050  
 ø 300mm. Ref. 66025



**Grinding recirculation tank with 5µ filter**  
 Ref. 67130

**Accessories  
 100%  
 compatible**  
 with the older  
 generation  
 of MINITECH



# MECAPLAN 350

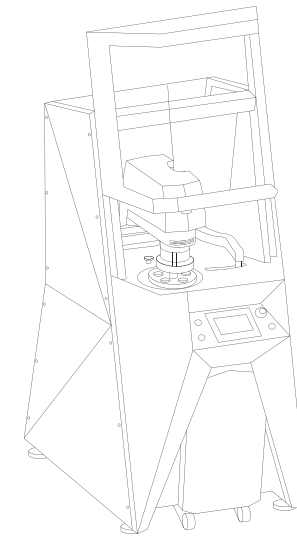
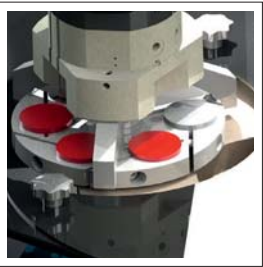
## AUTOMATIC PLANAR GRINDING MACHINE

### Ref. 54200

MECAPLAN 350 is an automatic planar grinding machine that allows rapid and extensive removal of material while preserving the integrity of the samples.

Powerful and fast, it saves a lot of time and uses less consumables.

This machine is particularly suitable for laboratories or workshops that perform tests on many samples.



CE

↕ 2170mm (open hood)  
1850mm (closed hood)

↔ 806mm

↗ 1240mm

📊 500kg

## GRINDING WHEEL CHARACTERISTICS

Diameter of the grinding wheel	356mm
Rotation speed	1 000 to 2 000 RPM
Direction of rotation	Clockwise and counter-clockwise
Nominal power S1	5 500W
Nominal power S3	9 000W
Constant torque	✓
Immediate stop of the platen	✓
Progressive acceleration of the grinding wheel	✓
TFT LCD 7" 16/9 colour touch screen	✓
Secure cover with interlocking	✓
LED spot light on head and machine	✓
Simplified service and maintenance without dismantling	✓
Voltage	400V three-phases
Frequency	50Hz
Max. current	21A
Air pressure	5 - 10 bars
Compressed air	Ø 10mm
Cleaning head shower	✓
Integrated recycling system	✓

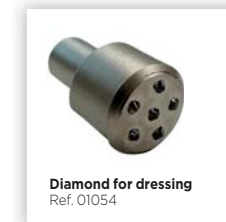
## POLISHING HEADS

Central pressure	✓
Mounted samples	✓
Non mounted samples	✓
Rectangular samples	✓
Head movement	Automatic
Rotation speed	100 to 200 RPM
Rotation direction	Clockwise and counter-clockwise
Motor power	500W
Maximum power available	100daN
Material removal measurement with automatic stop	✓
Force controlled electronically	✓
Force reduced at start and end of cycle	✓
Polishing head's vertical articulation: 150mm	✓

## MACHINE ACCESSORIES

### CLAMPING VICE

54210	Clamping vice Ø 120mm	for specimen holder Ø 120mm
54211	Clamping vice Ø 140mm	for specimen holder Ø 140mm
54212	Clamping vice Ø 160mm	for specimen holder Ø 160mm
54213	Clamping vice Ø 170mm	for specimen holder Ø 170mm
54214	Clamping vice Ø 210mm	for specimen holder Ø 210mm
54215	Clamping vice Ø 220mm	for specimen holder Ø 220mm



All information regarding specimen holders on page 71



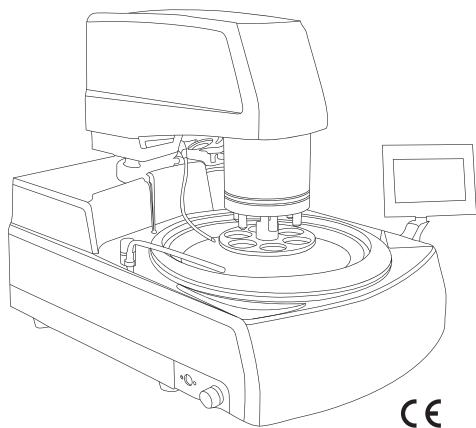


# MECATECH 334 SPC

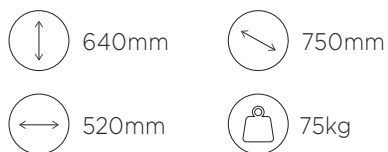
## SINGLE STATION, AUTOMATIC POLISHING MACHINE

### Ref. 67960

Equipped with a Ø 250 to 300mm platen, the MECATECH 334 SPC is a powerful and reliable polishing machine with the most advanced technologies for easy operation and easy maintenance. It gives the best polishing results on all types, sizes and number of samples.



CE



### CHARACTERISTICS

Number of motors	1
Number of polishing platens	1
Diameter of the polishing platen	250 to 300mm
Rotation speed	20 to 700 RPM
Rotation direction	Clockwise and counter-clockwise
Nominal power S1	750W
Nominal power S3	1100W
Torque compensation	Automatic
Immediate stop of the platen	Automatic
Progressive acceleration of the platen	Automatic
Drying function	600 RPM
Spindle on bearing	✓
Base platen + anti-vibration seals	✓
Additional removable bowl	✓
Splash guard	✓
High strength mechanically welded + painted steel chassis	✓
Body in composite	✓
16/9 color TFT LCD touch screen 7"	✓
Simplified service and maintenance without dismantling	✓
Voltage	230V 1P
Frequency	50-60Hz
Max. current	8 A
Air pressure	5 - 10 bars
Water inlet	Ø 12mm
Water outlet	Ø 32mm
Compressed air	Ø 10mm

## POLISHING HEADS

Individual pressure	✓
Central pressure	✓
Mounted samples	✓
Non mounted samples	✓
Rectangular samples	✓
Rotation speed	20 to 150 RPM
Rotation direction	Clockwise and counter-clockwise
Motor power	180W
Force per specimen	0,1 - 5daN
Maximum power available	30daN
Material removal measurement with automatic stop	-
Force controlled electronically	✓
Force reduced at start and end of cycle	✓
50mm lowering and raising of the polishing head	✓
Manual locking of the polishing head	✓
200CC lubricant included in the polishing head	✓
Sweeping function	-

### SPECIMEN HOLDERS FOR CENTRAL PRESSURE POLISHING



**Specimen holder  
Ø 160mm**  
Ref. 57102



**Specimen holder  
Ø 160mm**  
Ref. 57103



**Blank specimen  
holder**  
Ref. 57105



**Specimen holder  
Ø 160mm**  
Ref. 57106



**Specimen holder Ø 160mm  
annular holding**  
Ref. 57107



**Compulsory hooking  
system**  
Ref. 57116



**Levelling press  
for samples**  
Ref. 57162

### SPECIMEN HOLDERS FOR INDIVIDUAL PRESSURE POLISHING



**Specimen holder Ø 170mm**  
Ref. 67835

### REDUCTION RINGS FOR SPECIMEN HOLDERS



### SPECIFIC HOLDERS ON REQUEST



## ACCESSORIES FOR POLISHING HEADS

### SPECIMEN HOLDERS FOR CENTRAL PRESSURE POLISHING

57102	Specimen holder Ø 160mm	for 6 samples Ø 25 to 32mm
57103	Specimen holder Ø 160mm	for 4 samples Ø 30 to 40mm
57104	Specimen holder Ø 160mm	for 4 samples Ø 40 to 50mm
57106	Specimen holder Ø 160mm annular holding	for 6 samples Ø 30mm
57107	Specimen holder Ø 160mm annular holding	for 4 samples Ø 40mm
57105	Blank specimen holder	Ø 160mm
57119	Specimen holder Ø 170mm	for 6 samples Ø 30 to 40mm
57108	Specimen holder Ø 210mm	for 12 samples Ø 25 to 32mm
57109	Specimen holder Ø 210mm	for 8 samples Ø 30 to 40mm
57110	Specimen holder Ø 210mm	for 6 samples Ø 50mm
57114	Specimen holder Ø 210mm	for 6 rectangular Specimen holder 30 x 55mm
57111	Specimen holder Ø 220mm	for 3 rectangular Specimen holder 50 x 100mm
57116	Compulsory hooking system	for central pressure specimen holder
57162	Levelling press for samples	

### SPECIMEN HOLDERS FOR INDIVIDUAL PRESSURE POLISHING

67830	Specimen holder Ø 150mm	for 6 samples Ø 30mm
57145	Specimen holder Ø 160mm	for 6 samples Ø 38.1mm
67833	Specimen holder Ø 160mm	for 6 samples Ø 40mm
67835	Specimen holder Ø 170mm	for 6 samples Ø 50mm

### REDUCTION RINGS FOR SPECIMEN HOLDERS

67850	1 reduction ring	Ø 50mm --> Ø 25mm
67851	1 reduction ring	Ø 50mm --> Ø 25,4mm
67852	1 reduction ring	Ø 50mm --> Ø 30mm
67853	1 reduction ring	Ø 50mm --> Ø 31.7mm
67854	1 reduction ring	Ø 50mm --> Ø 38.1mm
67855	1 reduction ring	Ø 50mm --> Ø 40mm
67856	1 reduction ring	Ø 40mm --> Ø 25mm
67857	1 reduction ring	Ø 40mm --> Ø 25.4mm
67858	1 reduction ring	Ø 40mm --> Ø 30mm
67859	1 reduction ring	Ø 40mm --> Ø 31.7mm

# MECATECH

## THE LATEST GENERATION OF AUTOMATIC POLISHING MACHINES

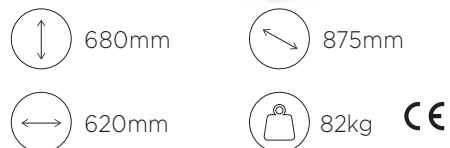
Equipped with platens from Ø200 to 300mm, the new range of MECATECH automatic polishing machines has the most advanced technologies. The MECATECH range allows both manual and automatic use. Thanks to a motor power from 750W to 1500W, the entire PRESI experience is condensed in this most complete range on the market.

Whatever the size or the number of samples, MECATECH guarantees an optimal polishing. With its affirmed style and edged lines, this new range is distinguished by its new design with an easily recognizable sleek and refined carbon look.

### PLATEN DIAMETERS: 250 TO 300MM

#### MECATECH 300 SPC

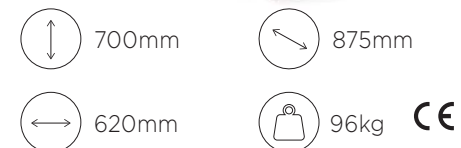
Ref. 67940



- 1 platen - 6 pistons
- Central and individual pressure

#### MECATECH 300 SPS

Ref. 67950

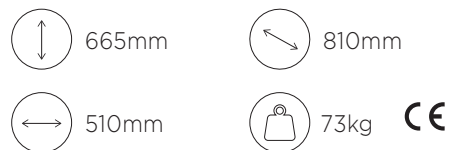


- 1 platen - 8 pistons
- Central and individual pressure

### PLATEN DIAMETERS: 200 TO 250MM

#### MECATECH 250 SPI

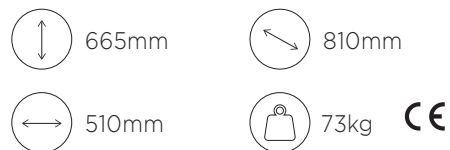
Ref. 67910



- 1 platen - 4 pistons
- Individual pressure

#### MECATECH 250 SPC

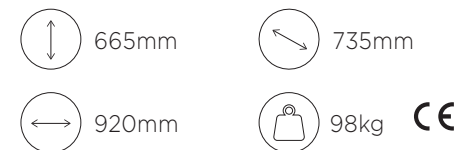
Ref. 67920



- 1 platen - 6 pistons
- Central and individual pressure

#### MECATECH 250 DPC

Ref. 67930



- 2 platens - 6 pistons
- Central and individual pressure

## CHARACTERISTICS

MACHINES	250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
Number of motors	1	1	2	1	1
Number of polishing platens	1	1	2	1	1
Diameter of the polishing platen	200 to 250mm	200 à 250mm	200 to 250mm x 2	250 to 300mm	300mm
Rotation speed	20 to 700 RPM	20 à 700 RPM	20 to 700 RPM	20 à 700 RPM	20 to 700 RPM
Rotation direction	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise
Nominal power S1	750W	750W	2 x 750W	900W	900W
Nominal power S3	1100W	1100W	2 x 1100W	1500W	1500W
Torque compensation	Automatic	Automatic	Automatic	Automatic	Automatic
Immediate stop of the platen	Automatic	Automatic	Automatic	Automatic	Automatic
Progressive acceleration of the platen	Automatic	Automatic	Automatic	Automatic	Automatic
Drying function	600 RPM	600 RPM	600 RPM	600 RPM	600 RPM
Spindle on bearing	✓	✓	✓	✓	✓
Base platen + anti-vibration seals	✓	✓	✓	✓	✓
Additional removable bowl	✓	✓	✓	✓	✓
Splash guard	✓	✓	✓	✓	✓
High strength mechanically welded + painted steel chassis	✓	✓	✓	✓	✓
Body RIM injection	✓	✓	✓	✓	✓
16/9 color TFT LCD touch screen 7"	✓	✓	✓	✓	✓
Simplified service and maintenance without dismantling	✓	✓	✓	✓	✓
Power supply	230V 1P	230V 1P	230V 1P	230V 1P	230V 1P
Frequency	50 - 60Hz	50 - 60Hz	50 - 60Hz	50 - 60Hz	50 - 60Hz
Max. current	8A	8A	8A	8A	8A
Air pressure	5 - 10 bars	5 - 10 bars	5 - 10 bars	5 - 10 bars	5 - 10 bars
Water inlet	Ø 12mm	Ø 12mm	Ø 12mm	Ø 12mm	Ø 12mm
Water outlet	Ø 32mm	Ø 32mm	Ø 32mm	Ø 32mm	Ø 32mm
Compressed air	Ø 10mm	Ø 10mm	Ø 10mm	Ø 10mm	Ø 10mm
POLISHING HEADS	250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
Individual pressure	✓	✓	✓	✓	✓
Central pressure	-	✓	✓	✓	✓
Mounted samples	✓	✓	✓	✓	✓
Non mounted samples	-	✓	✓	✓	✓
Rectangular samples	✓	✓	✓	✓	✓
Rotation speed	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM
Rotation direction	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise
Motor power	180W	180W	180W	270W	270W
Force per specimen	0,1 - 5daN	0,1 - 5daN	0,1 - 5daN	0,1 - 5daN	0,1 - 5daN
Maximum power available	20daN	30daN	30 daN	30daN	40daN
Material removal measurement with automatic stop	-	✓	✓	✓	✓
Force controlled electronically	✓	✓	✓	✓	✓
Force reduced at start and end of cycle	✓	✓	✓	✓	✓
50mm lowering and raising of the polishing head	✓	✓	✓	✓	-
Automatic locking of the polishing head	✓	✓	✓	✓	✓
200cc (x2) lubricant included in the polishing head	✓	✓	✓	✓	✓
Sweeping function	-	-	-	-	✓

Download MECATECH technical sheet





# MECATECH

## MACHINES ACCESSORIES

### DISTRITECH 5.1

Ref. 67890

#### ABRASIVE SUSPENSIONS DISPENSER DEVICE

Compatible with the entire MECATECH range

- Capacity: 5 bottles of 500CC.
- Each abrasive suspension dispenser is managed by the machine.
- No risk of pollution: each bottle has its own distribution circuit.
- Priming function.
- Colloidal silica distribution with automatic rinsing function, no risk of crystallisation.



#### PLATENS AND BASE DRIVE PLATENS



**Almagtech platen**  
Ø 200mm. Ref. 67822  
Ø 250mm. Ref. 67820  
Ø 300mm. Ref. 67821



**Circular paper holder (metal)**  
Ø 200mm. Ref. 56054  
Ø 250mm. Ref. 56055



**Circular paper holder (PVC)**  
Ø 200mm. Ref. 56067  
Ø 250mm. Ref. 56058  
Ø 300mm. Ref. 56069

#### OTHER ACCESSORIES



**Covers for polishing machines**  
Ø 250mm. Ref. 66050  
Ø 300mm. Ref. 66025



**Low noise air compressor  
(for labs with no compressed  
air supply)**  
Ref. 67750



**Grinding recirculation tank  
with 5µ filter**  
Ref. 67130

**Accessories  
100%  
compatible**  
with the  
older generation  
of MECATECH

# MECATECH

## POLISHING HEADS ACCESSORIES

### Polishing head has a:

- Powerful motor gearing driven by a frequency inverter.
- Automatic polishing head locking when the cycle starts: avoids every risk of error.
- Lateral shifting of the head to completely release the polishing platen and work in manual mode (except for the 300 SPS model)

SPECIMEN HOLDERS FOR CENTRAL PRESSURE POLISHING			250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
57120	Specimen holder Ø 120mm	for 3 samples Ø25 to 32 mm	-	✓	✓	-	-
57126	Specimen holder Ø 140mm	for 6 samples Ø25 to 32 mm	-	✓	✓	-	-
57125	Specimen holder Ø 140mm	for 3 samples Ø30 to 40 mm	-	✓	✓	-	-
57102	Specimen holder Ø 160mm	for 6 samples Ø25 to 32 mm	-	✓	✓	✓	✓
57103	Specimen holder Ø 160mm	for 4 samples Ø30 to 40 mm	-	✓	✓	✓	✓
57104	Specimen holder Ø 160mm	for 4 samples Ø40 to 50 mm	-	✓	✓	✓	✓
57106	Specimen holder Ø 160mm annular holding	for 6 samples Ø30 mm	-	✓	✓	✓	✓
57107	Specimen holder Ø 160mm annular holding	for 4 samples Ø40 mm	-	✓	✓	✓	✓
57105	blank specimen holder	Ø 160mm	-	✓	✓	✓	✓
57119	Specimen holder Ø 170mm	for 6 samples Ø30 to 40 mm	-	✓	✓	✓	✓
57108	Specimen holder Ø 210mm	for 12 samples Ø25 to 32 mm	-	-	-	✓	✓
57109	Specimen holder Ø 210mm	for 8 samples Ø30 to 40 mm	-	-	-	✓	✓
57110	Specimen holder Ø 210mm	for 6 samples Ø50 mm	-	-	-	✓	✓
57114	Specimen holder Ø 210mm	for 6 rectangular samples 30 x 55mm	-	-	-	✓	✓
57111	Specimen holder Ø 220mm	for 3 rectangular samples 50 x 100mm	-	-	-	✓	✓
57116	Compulsory hooking system	for central pressure specimen holder	-	✓	✓	✓	✓
57162	Levelling press for samples		-	✓	✓	✓	✓

SPECIMEN HOLDERS FOR INDIVIDUAL PRESSURE POLISHING			250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
57142	Specimen holder Ø 140mm	for 4 samples Ø30mm	✓	-	-	-	-
57141	Specimen holder Ø 150mm	for 4 samples Ø40mm	✓	-	-	-	-
57144	Specimen holder Ø 150mm	for 4 samples Ø38.1mm	✓	-	-	-	-
67830	Specimen holder Ø 150mm	for 6 samples Ø30 mm	-	✓	✓	✓	-
57145	Specimen holder Ø 160mm	for 6 samples Ø38.1mm	-	✓	✓	✓	-
67833	Specimen holder Ø 160mm	for 6 samples Ø40mm	-	✓	✓	✓	-
57143	Specimen holder Ø 170mm	for 3 samples Ø50mm	-	✓	✓	-	-
67835	Specimen holder Ø 170mm	for 6 samples Ø50mm	-	-	-	✓	-
67838	Specimen holder Ø 180mm	for 8 samples Ø30mm	-	-	-	-	✓
67837	Specimen holder Ø 190mm	for 8 samples Ø40mm	-	-	-	-	✓
67836	Specimen holder Ø 200mm	for 8 samples Ø50mm	-	-	-	-	✓

REDUCTION RINGS FOR SPECIMEN HOLDERS			250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
67850	1 reduction ring	Ø 50mm --> Ø 25mm	-	✓	✓	✓	✓
67851	1 reduction ring	Ø 50mm --> Ø 25.4mm	-	✓	✓	✓	✓
67852	1 reduction ring	Ø 50mm --> Ø 30mm	-	✓	✓	✓	✓
67853	1 reduction ring	Ø 50mm --> Ø 31.7mm	-	✓	✓	✓	✓
67854	1 reduction ring	Ø 50mm --> Ø 38.1mm	-	✓	✓	✓	✓
67855	1 reduction ring	Ø 50mm --> Ø 40mm	-	✓	✓	✓	✓
67856	1 reduction ring	Ø 40mm --> Ø 25mm	✓	✓	✓	✓	✓
67857	1 reduction ring	Ø 40mm --> Ø 25.4mm	✓	✓	✓	✓	✓
67858	1 reduction ring	Ø 40mm --> Ø 30mm	✓	✓	✓	✓	✓
67859	1 reduction ring	Ø 40mm --> Ø 31.7mm	✓	✓	✓	✓	✓

### SPECIMEN HOLDERS FOR CENTRAL PRESSURE POLISHING



**Specimen holder Ø 120mm**  
Ref. 57120  
**Specimen holder Ø 140mm**  
Ref. 57125



**Specimen holder Ø 160mm**  
Ref. 57102  
**Specimen holder Ø 140mm**  
Ref. 57126



**Specimen holder Ø 160mm**  
Ref. 57103



**Blank specimen holder**  
Ref. 57105



**Specimen holder Ø 160mm serrage annulaire**  
Ref. 57106 - 57107



**Specimen holder Ø 160mm serrage annulaire**  
Ref. 57107



**Compulsory hooking system**  
Ref. 57116



**Levelling press for samples**  
Ref. 57162

### SPECIMEN HOLDERS FOR INDIVIDUAL PRESSURE POLISHING



**Specimen holder Ø 150mm**  
Ref. 67830  
**Specimen holder Ø 160mm**  
Ref. 67833  
**Specimen holder Ø 170mm**  
Ref. 67835



**Specimen holder Ø 200mm**  
Ref. 67836  
**Specimen holder Ø 180mm**  
Ref. 67838



**Specimen holder Ø 140 to 150mm**  
Ref. 57141  
Ref. 57142  
Ref. 57144

### REDUCTION RINGS FOR SPECIMEN HOLDERS



### SPECIFIC HOLDERS ON REQUEST





# MECATECH 300 SPS

## THE AUTOMATIC SWEEPING POLISHING MACHINE LARGE CAPACITY

The sweeping movement of the MECATECH 300 SPS polishing head optimizes the use of consumables and improves samples flatness.

Compared to other MECATECH models, the 300 SPS model improves productivity by increasing the capacity of the polishing head from 6 to 8 samples.



# MECAPROTECT

## OPTIONAL

This protection hood meets the most stringent safety requirements. It perfectly isolates the machine from the operator. The connection between the machine and the hood prevents the MECATECH from working when the hood is open.

### MECAPROTECT 250

Ref. 67915

### MECAPROTECT 300

Ref. 67945



# IMAGINE YOUR MACHINE TAILOR-MADE!

DO YOU WANT TO BRING SOME COLOURS?  
MIX AND CUSTOMIZE TO GIVE NEW ENERGY  
TO YOUR EQUIPMENT!

Opt for a colour of the hood in the RAL colour  
of your choice.



Customization  
possible on  
all machines  
of the MINITECH  
and MECATECH  
range



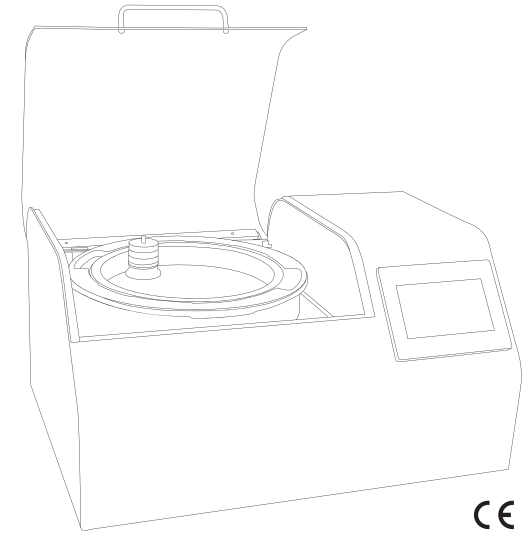
# VIBROTECH 300

## 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).

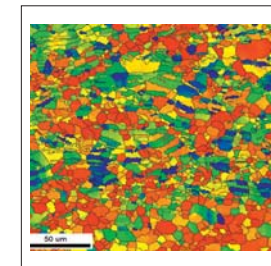
This polishing method makes it possible to save inclusions and to eliminate surface hardening. Very easy to use, the frequency and amplitude of the vibrations can be modified in real time.



CE

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	✓

## 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

Download VIBROTECH 300  
technical sheet



# POLISEC C25

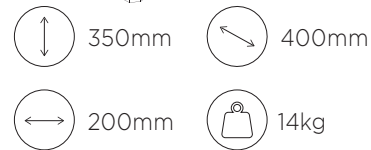
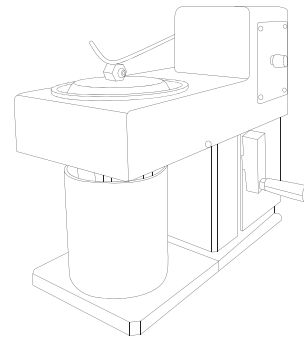
## Ref. 59106 ELECTRO-POLISHING UNIT

The Electro-polishing unit is designed to withstand both mechanical shock and corrosion. It includes a body that forms a base for the moving assembly and the electrolyte reservoir, the moving assembly with a pump and a motor, a cooling coil and an electro-polishing chamber equipped with electrodes.

The DC current produces the anodic dissolution of the surface of the metal specimen inside the electrolysis chamber.

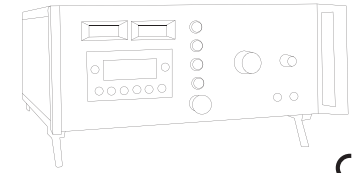
A flat, polished surface is obtained in a few seconds, ready for microscopic observation.

- PVC base, with rack and pinion system, crank driven vertical movement.
- Moving assembly in PVC with circulation pump and electric motor.
- Motor with variable speed to adjust the electrolyte flow.
- Stainless steel cooling coil.
- 5 PVC covers with openings of different shapes and sizes.
- Adjustable plastic-coated stainless steel rod as current feeder.
- 2l glass beaker.

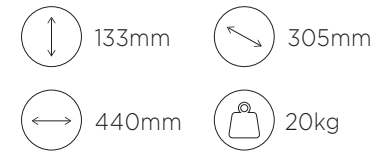


## Ref. 59101 POWER SUPPLY

- Input 220 volts single phase 50 or 60 Hz.
- Adjustable output from 0 to 100 volts, with display of voltage.
- Direct current rectified by silicon diodes.
- Ammeter with 2 ranges, 0 to 10 and 0 to 20 Amp.
- Programming managed by PLC with memorization of the polishing and etching ranges.
- 2 timers, polishing and etching.
- Rear output to electro-polishing unit and front connector for work with special clamp-type holder.
- Time delays for starting and electrolyte flow control.
- Built in accordance with EC standards.



CE



## COMPLEMENTARY EQUIPMENTS



**Stainless steel clip for secondary etching**  
Ref. 59111



**Stainless steel bowl for secondary etching**  
Ref. 59112



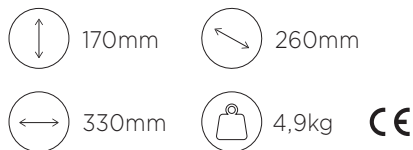
**Cable for clamp and bowl**  
Ref. 59113



**2l glass beaker**  
Ref. 59114

# ELECTER EVOLUTION

Ref. 58100



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
<b>Bag of 100</b>	
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

REF.	DESIGNATION
<b>Bag of 25</b>	
16004	Self Adhesive Disc HS-B
16001	Self Adhesive Disc HS-V
16002	Self Adhesive Disc RAM
16005	Self Adhesive Disc ADR II

## 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

# ULTRASONIC CLEANER

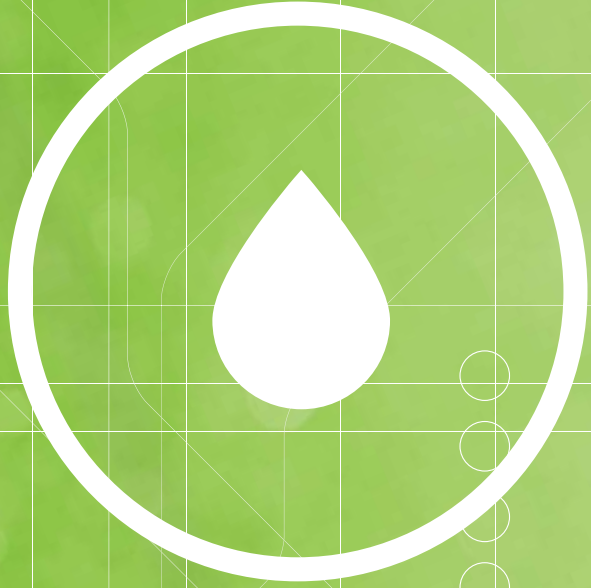
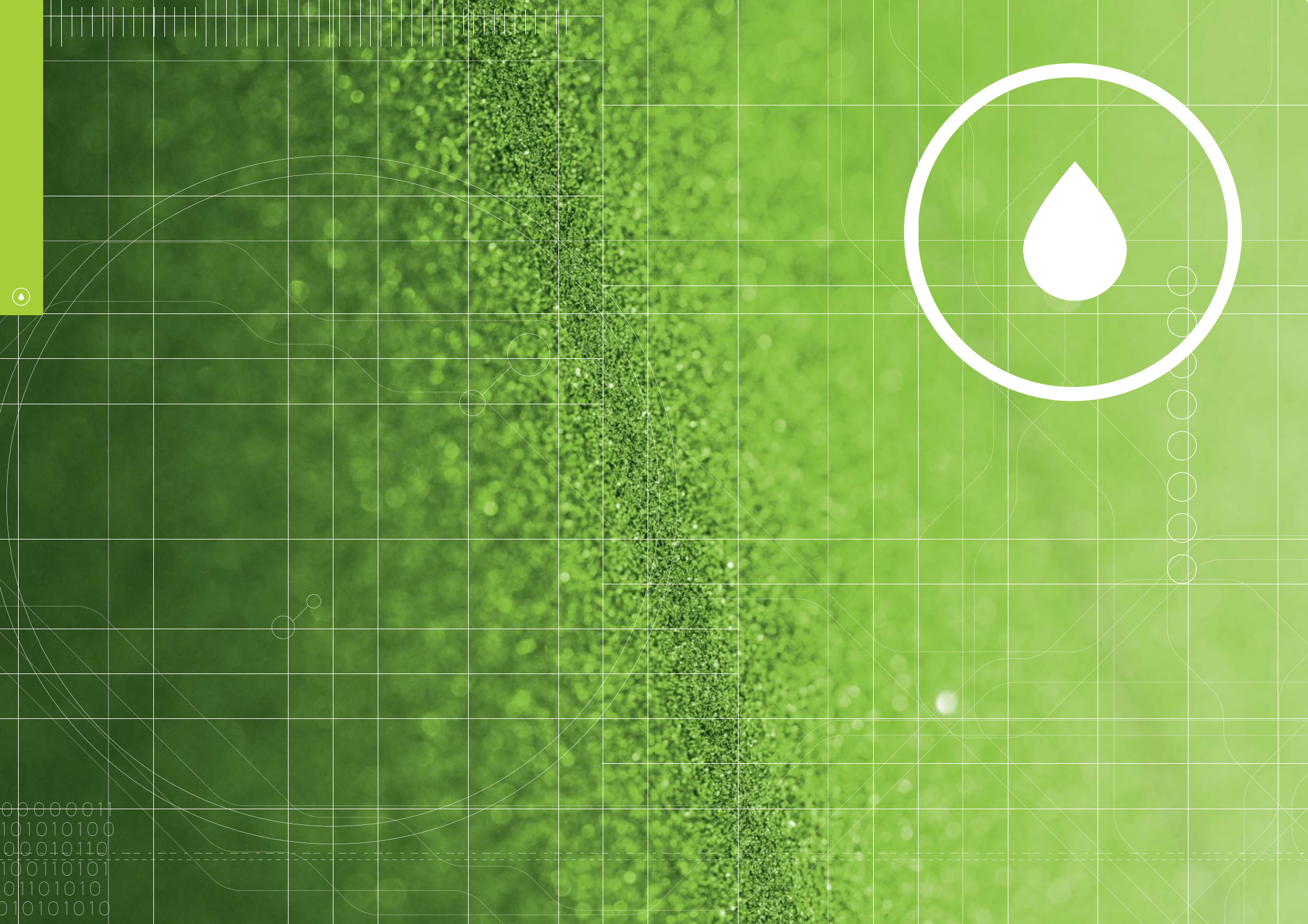
At that time, the ultrasonic cleaning is one of the most commonly used laboratory processes for cleaning. The main interest with this type of cleaning is to quickly produce automatic clean samples for analysis with no damage to the samples. This cleaning process is applied just after the samples polishing.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





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01101010  
010101010

# CONSUMABLES

## FROM GRINDING TO SUPER-FINISHING

In metallography, 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.



# 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

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.

**Reflex**  
CONCEPT

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

Download the Reflex Fix technical sheet

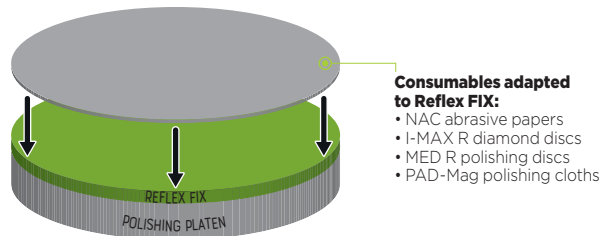




# ADAPTATION DEVICES

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

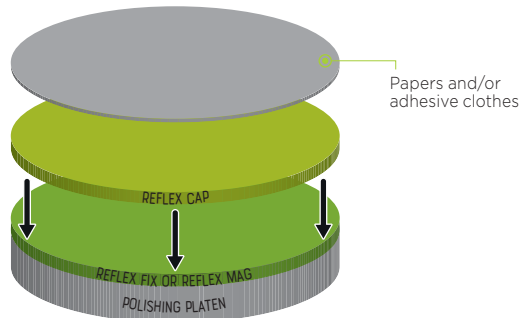
## REFLEX FIX



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

## REFLEX CAP

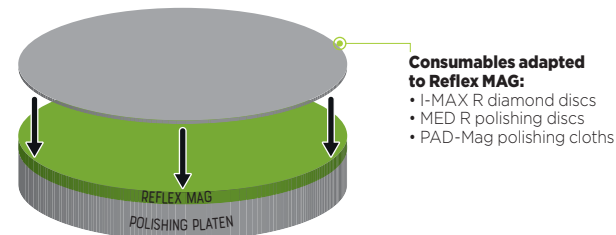
The **Reflex CAP** (metallic plate) is a device that allows the use of adhesive consumables on the Reflex FIX or Reflex MAG.



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

## REFLEX MAG

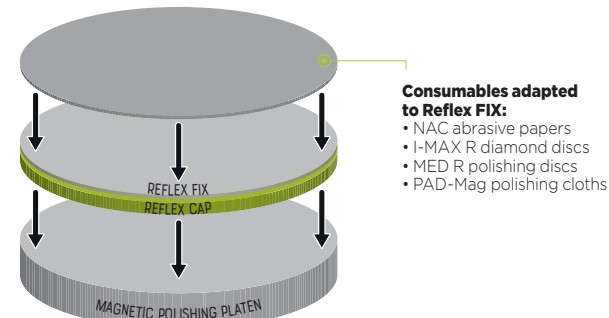
The Reflex MAG is a device that allows the use of PRESI metal-backed consumables (for those who do not use the Reflex FIX) as well as all other magnetic consumables of a brand other than PRESI.



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.



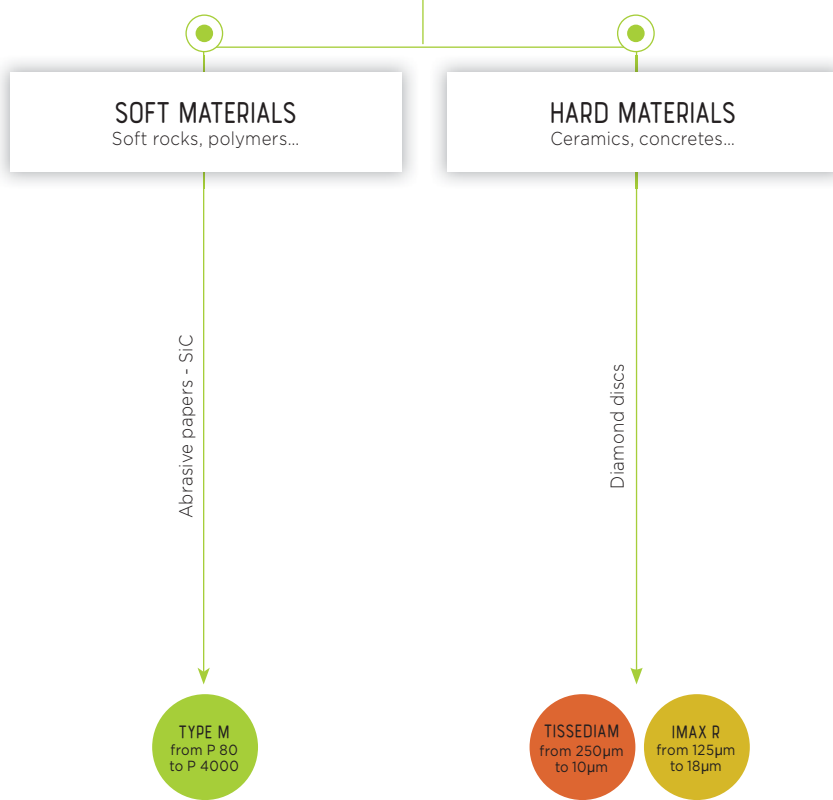
REF.	DESIGNATION	Ø	
24025	Magnetic FIX (1 Reflex FIX + 1 Reflex CAP)	Ø 200mm	
24026	Magnetic FIX (1 Reflex FIX + 1 Reflex CAP)	Ø 250mm	
24027	Magnetic FIX (1 Reflex FIX + 1 Reflex CAP)	Ø 300mm	



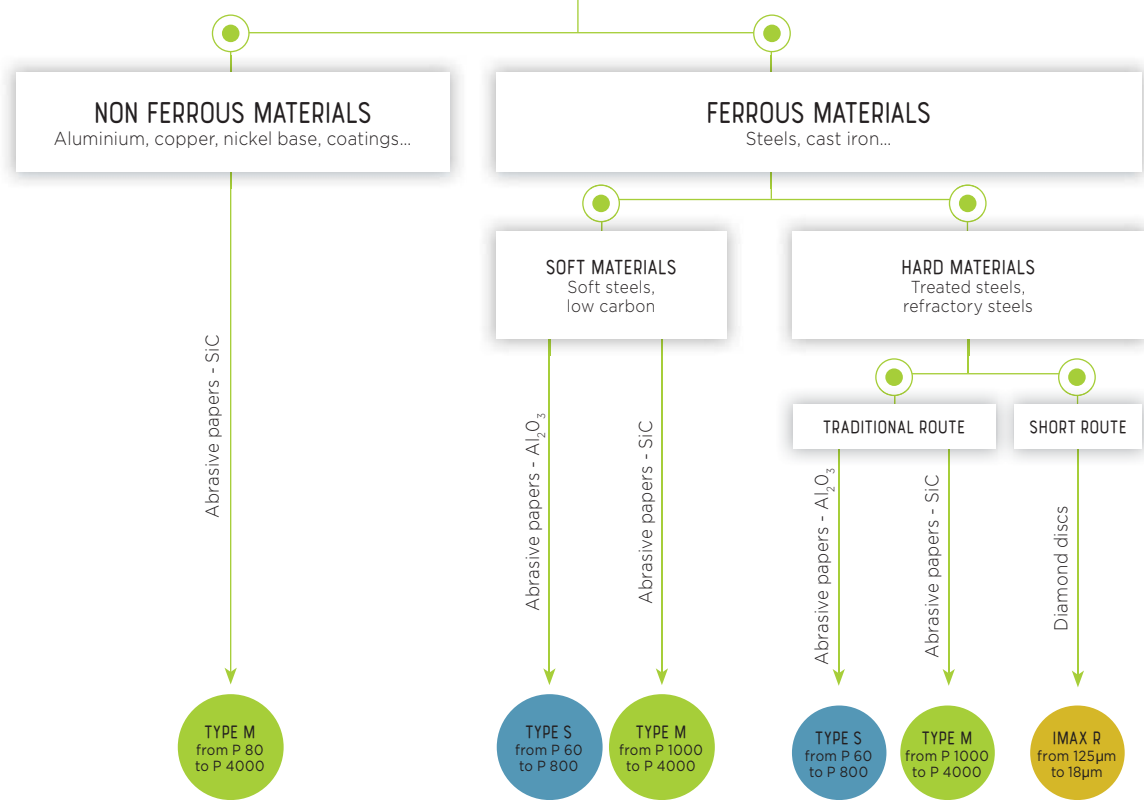
# GRINDING



## NON-METALLIC MATERIALS Ceramics, geological applications



## METALLIC MATERIALS Steels, light alloys



**LEGEND**

- Metallic or resin bond diamond discs for the levelling or grinding of very hard materials.
- SiC abrasive.
- Al<sub>2</sub>O<sub>3</sub> abrasive, except P1000, P1200, P2400 and P4000.
- Resin bond diamond discs designed for hard metallic materials adapted to reduce process time.

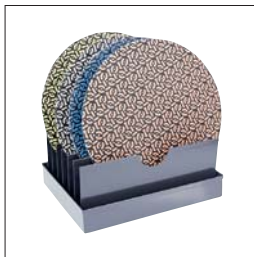
STANDARDS AND EQUIVALENTS														
FEPA P	P 60	P 80	P 100	P 120	P 180	P 240	P 320	P 400	P 600	P 800	P 1000	P 1200	P 2400	P 4000
US	60	80	100	120	180	240	-	320	-	400	600	-	800	1200
µ average	260	200	150	120	76	60	46	35	26	22	18	15	10	5
I-MAX R	125			75			54			18				

# 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 steel, 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



# I-MAX R

EVEN MORE EFFICIENT  
DIAMOND DISCS!



### PRECISE

Unparalleled flatness for perfect polishing homogeneity.



### ECONOMICAL

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

\*Depends on materials and polishing processes used.



### 100% EUROPEAN

Designed, developed and manufactured by PRESI.



### MULTI-PURPOSE

Recognition of granulometry thanks to colour.  
4 colours = 4 grit.  
Metal back to fit magnetic or reflex FIX devices.



### DURABLE

Unparalleled service life for less waste.



### EFFECTIVE

Polishing time gain of around 40%.

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

## SPECIAL ABRASIVE DISCS ZIRCONIUM OXIDE - ZR+

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

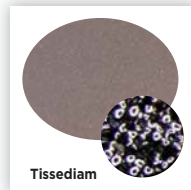
REF.	DESIGNATION	GRIT	Ø
<b>Box of 25</b>			
14224	Self adhesive	P 60	200mm
14225	Self adhesive	P 80	200mm
14226	Self adhesive	P 120	200mm
14227	Self adhesive	P 180	200mm
14267	Self adhesive	P 60	250mm
14268	Self adhesive	P 80	250mm
14269	Self adhesive	P 120	250mm
14270	Self adhesive	P 180	250mm
14317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

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

R = resin bond  
M = metallic bond



TISSEDIAM

## 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

## ADHESIVE DISCS REFLEX



Disk for converting adhesive paper into NAC paper. Box of 25 papers.

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

## GRINDING DISCS FOR GRINDING MACHINE

REF.	DESIGNATION	Ø	grit
01052	Stone grinding discs	Ø 356mm	grit 150



Grinding discs

# ABRASIVE FOR LAPPING

## SILICON CARBIDE POWDER\*

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

\* Other abrasives and grain sizes: contact us.



## LAPPING OIL

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

REF.	DESIGNATION
12040	Bottle 1l
12042	Bottle 10l

## ALUMINA OXIDE POWDER\*

REF.	DESIGNATION	GRIT	FEPA
<b>1 kg per box</b>			
12018	Alumina oxide powder	1 $\mu$	F1500
12016	Alumina oxide powder	3 $\mu$	F1200
12015	Alumina oxide powder	5 $\mu$	F1000
12014	Alumina oxide powder	9 $\mu$	F600
12013	Alumina oxide powder	12 $\mu$	F500
12012	Alumina oxide powder	15 $\mu$	F400
12011	Alumina oxide powder	20 $\mu$	F380
12010	Alumina oxide powder	25 $\mu$	F340
12009	Alumina oxide powder	30 $\mu$	F320
12008	Alumina oxide powder	40 $\mu$	F260

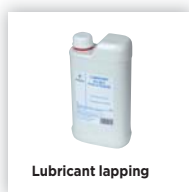
\* Other abrasives and grit sizes: contact us.



## LUBRICANT LAPPING

Water soluble lubricant.

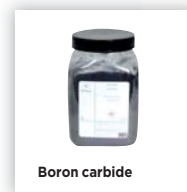
REF.	DESIGNATION
12041	Bottle 1l
12043	Bottle 10l



## BORON CARBIDE POWDER\*

REF.	DESIGNATION	GRIT	FEPA
<b>500 gr per box</b>			
12033	Boron Carbide	37 $\mu$	F280
12035	Boron Carbide	17 $\mu$	F400
12036	Boron Carbide	9 $\mu$	F600
12038	Boron Carbide	5 $\mu$	F1000

\* Other abrasives and grit sizes: contact us.



## Micro-abrasive

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



# ABRASIVE PAPERS

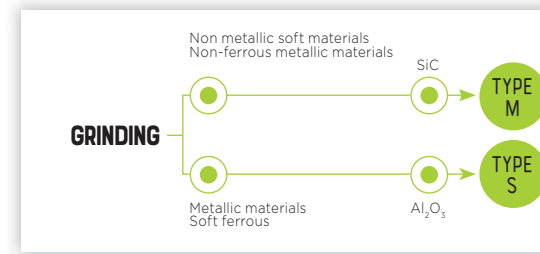
## Ø 200MM

### NON-ADHESIVE

REF.	DESIGNATION	GRIT		
<b>Box of 100</b>				
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		
<b>Box of 25</b>				
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		
<b>Box of 100</b>				
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		
<b>Box of 25</b>				
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		
<b>Box of 100</b>				
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

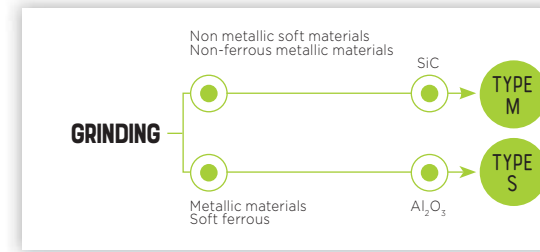
## Ø 250MM

### NON-ADHESIVE

REF.	DESIGNATION	GRIT		
<b>Box of 100</b>				
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		
<b>Box of 25</b>				
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		
<b>Box of 100</b>				
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		
<b>Box of 25</b>				
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		
<b>Box of 100</b>				
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

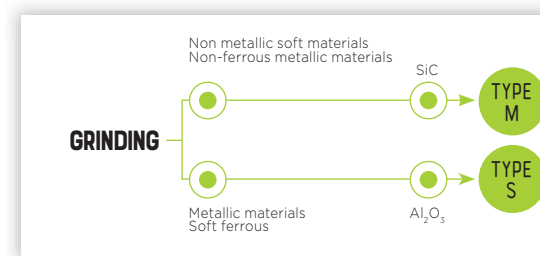
Ø 300MM

## NON-ADHESIVE

REF.	DESIGNATION	GRIT		
<b>Box of 100</b>				
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		
<b>Box of 25</b>				
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		
<b>Box of 100</b>				
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		
<b>Box of 25</b>				
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		



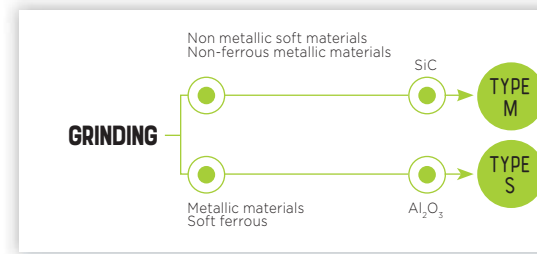
## REFLEX NAC



REF.	DESIGNATION	GRIT		
<b>Box of 100</b>				
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		
<b>Box of 100</b>				
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		
<b>Box of 25</b>				
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		
<b>Box of 100</b>				
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		
<b>Box of 25</b>				
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		
<b>Box of 100</b>				
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 6 $\mu$		Ref. 24087: $\varnothing$ 200mm Ref. 24089: $\varnothing$ 250mm Ref. 24090: $\varnothing$ 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 6 $\mu$	Ref. 16208: $\varnothing$ 200mm Ref. 16258: $\varnothing$ 250mm Ref. 16308: $\varnothing$ 300mm	Ref. 24174: $\varnothing$ 200mm Ref. 24204: $\varnothing$ 250mm Ref. 24232: $\varnothing$ 300mm
TOP		Plasticised acetate silk taffeta.	Levelling of all types of materials.	Diamond products	15 to 6 $\mu$	Ref. 16214: $\varnothing$ 200mm Ref. 16264: $\varnothing$ 250mm Ref. 16314: $\varnothing$ 300mm	Ref. 24161: $\varnothing$ 200mm Ref. 24191: $\varnothing$ 250mm Ref. 24206: $\varnothing$ 300mm
RAM II		Acetate silk satin, plasticised and glued to a semi-rigid support.	Soft materials.	Diamond products	9 to 6 $\mu$	Ref. 16211: $\varnothing$ 200mm Ref. 16261: $\varnothing$ 250mm Ref. 16311: $\varnothing$ 300mm	Ref. 24162: $\varnothing$ 200mm Ref. 24192: $\varnothing$ 250mm Ref. 24219: $\varnothing$ 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 1 $\mu$	Ref. 16216: $\varnothing$ 200mm Ref. 16266: $\varnothing$ 250mm Ref. 16316: $\varnothing$ 300mm	Ref. 24160: $\varnothing$ 200mm Ref. 24190: $\varnothing$ 250mm Ref. 24205: $\varnothing$ 300mm
STA		Acetate silk satin, plasticised and glued to a semi-rigid support.	All materials.	Diamond products	9 to 6 $\mu$	Ref. 16212: $\varnothing$ 200mm Ref. 16262: $\varnothing$ 250mm Ref. 16312: $\varnothing$ 300mm	Ref. 24170: $\varnothing$ 200mm Ref. 24200: $\varnothing$ 250mm Ref. 24215: $\varnothing$ 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 3 $\mu$	Ref. 16226: $\varnothing$ 200mm Ref. 16276: $\varnothing$ 250mm Ref. 16326: $\varnothing$ 300mm	Ref. 24172: $\varnothing$ 200mm Ref. 24202: $\varnothing$ 250mm Ref. 24218: $\varnothing$ 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 1 $\mu$ 2,5 $\mu$ (cerium) 0,3 $\mu$ (alumina)	Ref. 16215: $\varnothing$ 200mm Ref. 16265: $\varnothing$ 250mm Ref. 16309: $\varnothing$ 300mm	Ref. 24168: $\varnothing$ 200mm Ref. 24198: $\varnothing$ 250mm Ref. 24213: $\varnothing$ 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 1/4 $\mu$ 0.03 $\mu$ (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 1/4 $\mu$	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 1 $\mu$	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 plastic.	Polishing and finishing of all materials.	Diamond products (or alumina in some cases)	3 $\mu$	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)	1 $\mu$	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 1 $\mu$ 2.5 $\mu$ (cerium) 0.3 $\mu$ (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

Reflex  
CONCEPT

## 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 0.3 $\mu$	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 polyurethane foam.	Super-finishing of all materials. Mirror polishing of semi-conductors, glass.	SPM Colloidal silica	0.03 $\mu$ (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 - 1 $\mu$ (alumine) 2.5 $\mu$ (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 1/4 $\mu$	Ref. 16223: Ø 200mm Ref. 16273: Ø 250mm Ref. 16323: Ø 300mm	On request

Reflex  
CONCEPT

### 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, sapphire 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	10l 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

### 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

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

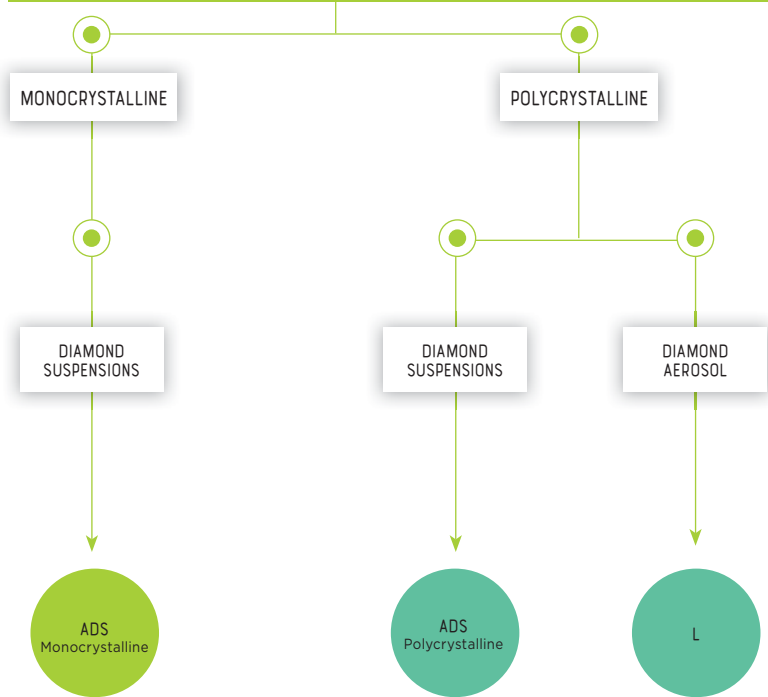


# DIAMOND POLISHING

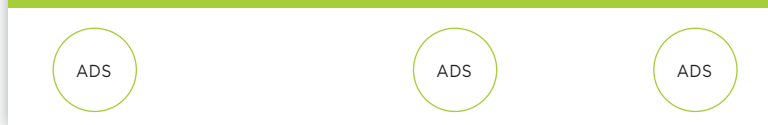


## ALCOHOL BASE

Materials very sensitive to corrosion. Observation of inclusions



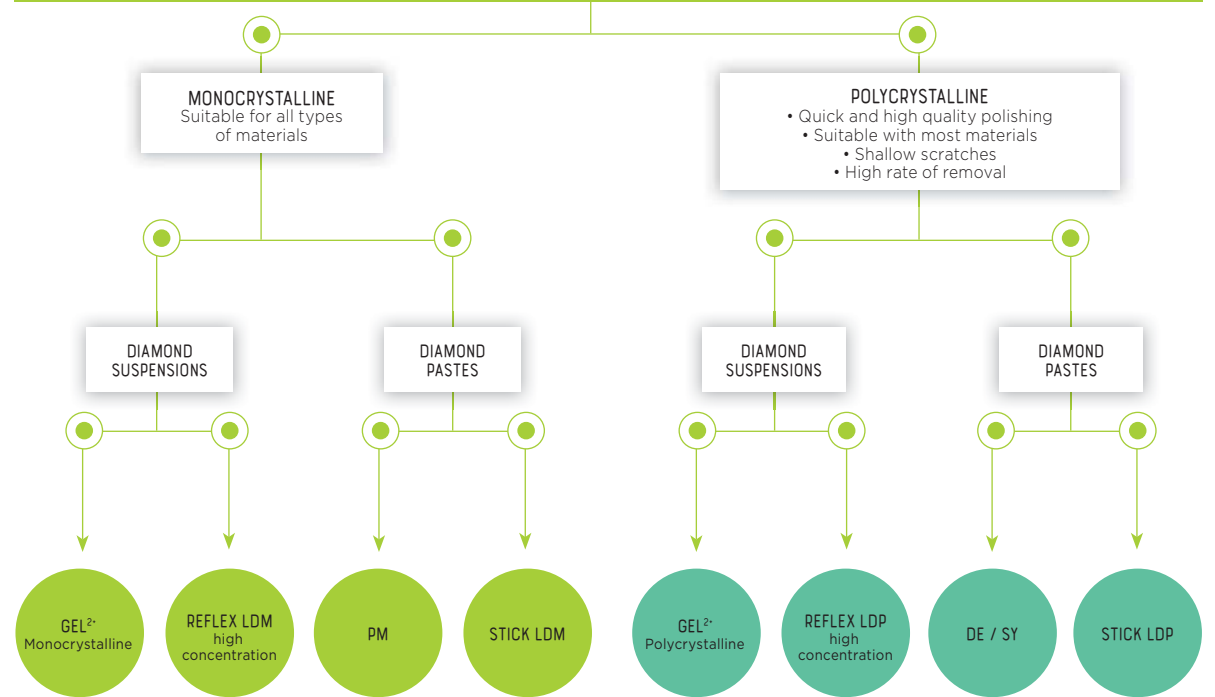
### RECOMMENDED LUBRICANT



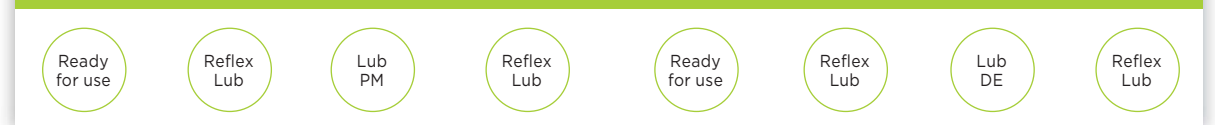
NB: all monocrystalline solutions are colored (except PM pastes). The color is related to the grain size.

## WATER BASE

Other applications



### RECOMMENDED LUBRICANT



# 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<sup>2</sup> MONOCRYSTALLINE

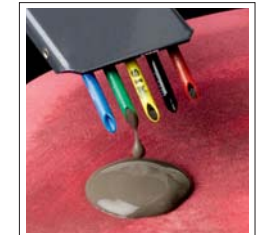
Coloured water base diamond gel, monocrystalline. For the polishing of semi-hard and ductile materials. Ready for use, no need to add lubricant.

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	



# 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<sup>2</sup> 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.



# 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	
10005	1l Bottle	DE	
10020	10l Drum	DE	
10006	1l Bottle	PM	
10021	10l Drum	PM	
10013	1l Bottle	ADS	
10025	10l Drum	ADS	
24270	1l Bottle*	Reflex Lub	
24271	10l Drum	Reflex Lub	

\* Comes in a spray bottle.

### 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.

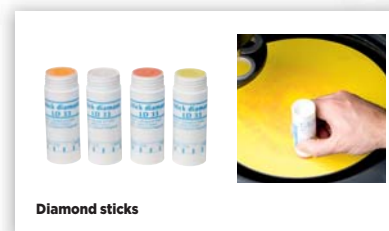
REF.	DESIGNATION	GRIT	
18020	20g	1/4μ	
18021	20g	1μ	
18022	20g	3μ	
18023	20g	6μ	
18024	20g	9μ	
18025	20g	15μ	
18026	20g	25μ	

### DIAMOND STICKS - 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	





# 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	
<b>Bottle of 1l</b>			
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	
<b>Bottle of 1l</b>			
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	
<b>Box of 1 kg</b>		
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 homogeneously-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 tartaric 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 <sub>3</sub> + 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 <sub>3</sub> + 100ml Ethanol		
17253	17254	NITAL 5%*	5ml HNO <sub>3</sub> + 100ml Ethanol		
17255	17256	NITAL 7%*	7ml HNO <sub>3</sub> + 100ml Ethanol	Macro	Steels - after approach work
17257	17258	NITAL 15%*	15ml HNO <sub>3</sub> + 100ml Ethanol		
17259	17260	Oberhoffer etchant*	500ml H <sub>2</sub> O + 500ml Ethanol + 50ml HCl + 30g FeCl <sub>3</sub> + 1g CuCl <sub>2</sub> + 0.5g SnCl <sub>2</sub>	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 <sub>2</sub> O + 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 <sub>2</sub> O + 12 ml HCl + 5g FeCl <sub>3</sub>	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 <sub>3</sub>	Macro	Steels - Steels weld
17228	17229	Fry A etchant*	40ml HCl + 5g CuCl <sub>2</sub> + 30ml H <sub>2</sub> O + 25ml Ethanol	Macro	Steels - Steels attack
17283	17284	Fry B etchant	100ml H <sub>2</sub> O + 150ml HCl + 67g CuCl <sub>2</sub>	Macro	Carbon steels - Flux lines
17269	17270	Le Chatelier N°2 etchant*	100ml Ethanol + 10ml H <sub>2</sub> O + 1g CuCl <sub>2</sub> + 0,5g Picric acid + 2ml HCl	Micro	Iron - Eutectic cells of a grey cast iron
17244	17245	Curran etchant	10ml FeCl <sub>3</sub> + 30ml HCl + 100ml H <sub>2</sub> O	Micro	Stainless steels
17232	17233	Marble etchant	10g CuSO <sub>4</sub> + 50 ml HCl + 50 ml H <sub>2</sub> O	Macro	
17224	17225	Aqua regia	20 ml HNO <sub>3</sub> + 60 ml HCl	Micro	Austenitic stainless steels
17230	17231	Murakami etchant	10 g K <sub>3</sub> Fe(CN) <sub>6</sub> + 10 g KOH + 100ml H <sub>2</sub> O	Micro	Austenitic and ferritic stainless steels, tungsten carbide
17226	17227	Kalling etchant*	2g CuCl <sub>2</sub> + 40ml HCl + 60ml Éthanol	Micro	Austenitic and ferritic stainless steels
17234	17235	Vilella 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 <sub>2</sub> O + 100ml HCl + 10ml HNO <sub>3</sub>	Micro	Stainless steels - Size of grain (Attack between 50 and 60°C)

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

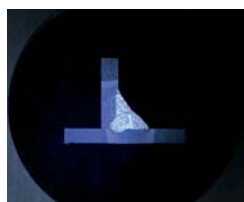
REF. 100ML	REF. 1L	NAME	FORMULA	ETCHANT	USE
17236	17237	Barker etchant	5g HBF <sub>4</sub> + 200ml H <sub>2</sub> O	Micro	Aluminium - Revealing of structure/grains
17238	17239	Keller etchant	2ml HF + 3ml HCl + 5ml HNO <sub>3</sub> + 190ml H <sub>2</sub> O	Micro	Aluminium - Revealing of structure.
17271	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 <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> + 4ml H <sub>2</sub> SO <sub>4</sub> + 50ml H <sub>2</sub> O	Micro	Copper - Revealing of grain
17277	17278	Alcohol solution of iron chloride III acid	5g de FeCl <sub>3</sub> + 5ml d'HCl + 95ml Ethanol	Micro	Copper compounds - Copper compound attack
17246	17247	INVAR / KOVAR	400ml HCl + 8g CuCl <sub>2</sub> + 400ml H <sub>2</sub> O + 800ml MEthanol + 28g FeCl <sub>3</sub> + 20ml HNO <sub>3</sub>	Micro	Invar - Kovar
17242	17243	Kroll etchant	3ml HF + 6ml HNO <sub>3</sub> + 100ml H <sub>2</sub> O	Micro	Titanium - Revealing of structure Titanium alloys primarily alloys Ti-Al-V-(Sn)
17279	17280	Adler etchant	25ml water + 3g [(NH <sub>4</sub> ) <sub>2</sub> CuCl <sub>4</sub> , 2 H <sub>2</sub> O] + 50ml HCl + 15g FeCl <sub>3</sub>	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.

## 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**



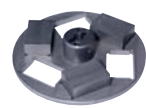
**Special central pressure plate with dual tightening**



**Special central pressure plate for thin section tube**



**Special central pressure plate for rectangular sample**



**Special individual pressure plate for rectangular sample**





# HARDNESS AND MICROSCOPY

To determine mechanical characteristics, perform microscopic analyses, and hardness measurements, PRESI offers upgradable hardware and software solutions high-end that cover needs the most advanced with the guarantee of reliable high precision results.





# MICROSCOPY

## THE PRESI OPTICAL OFFER

The determination of the mechanical characteristics and the observation of the microstructure of the materials, are made, among others, using micro hardness testers, hardness testers and microscopes.

These operations are done directly after the preparation of the samples. Choice and quality materials are essential for reliability of the results. PRESI offers you an offer complete high-end equipment intended to these applications.

## STEREOMICROSCOPES

### POWERFUL AND ECONOMIC TRINOCULAR STEREO-MICROSCOPE

With the highest magnification of its category (x7,5 zoom) this model offers powerful capabilities imaging at an economical price. It is suitable for digital imaging both in the industrial field than in the biomedical sector. A camera port and a C-mount adapter of x0.55 allow direct installation of digital cameras.

Trinocular optical head is ideal for monitoring and photomicrography

7.5x zoom: the most powerful in the class

Maximum ergonomics

Working distance: 115mm



### STEREOMICROSCOPE THAT COMBINES EFFICIENCY WORK AND ADVANCED PERFORMANCE

Thanks to the improvement of the zoom ratio to x8 (x1 -x8), this model offers high definition observation required in areas such as IVF. In addition, the new Objectives "Plan Apo WF and ED Plan WF" offer images clearer and sharper.

Improved ergonomics thanks to the existence several optical tubes

Double-objective turret adjustable

Wide zoom range up to x8 high resolution



Modular with a wide range of accessories



#### ADDITIONAL ACCESSORIES: LIGHTING



# MICROSCOPES

## RIGHT MICROSCOPE

THE ENCOUNTER BETWEEN DIGITAL IMAGERY AND AN ADVANCED OPTICAL SYSTEM WITH HALOGEN OR LED LIGHTING

These manual turret microscopes respond to different needs of observation, inspection, research and analysis of many industrial areas. Thanks to a numerical aperture and an unprecedented working distance, they offer superior optical performance and ultra-efficient digital imaging.

Compatible with several observations: bright field, dark field, simple polarization, interferential/differential contrast, epifluorescence and double band interferometry

Objectives x1 to x150  
The latest CFI60-2 range offers exceptionally long working distances as well as an optimal chromatic aberrations correction

Modular stand adapted to different tasks and observations

Halogen or LED lighting and modular stand



Digital imaging very easy to use

## INVERTED MICROSCOPE

ROBUST, EASY TO USE, LED LIGHTING

Compact, this model is very polyvalent for different industries (metallurgy, additive manufacturing, optics, electronics ...). Thanks to the high intensity LED lighting, its environmental impact is reduced.

Aperture of the diaphragm to control contrast and the depth of field

- No height constraint of the sample to be observed, possibility to place the sample plate directly on the rectangular stage

Objectives x1 to x150

The latest range

CFI60-2 offers:

- Working distances exceptionally long and an optimal chromatic aberrations correction
- A numerical aperture and working distances never reach before

High intensity LED lighting

Compact stand



## INVERTED MICROSCOPE

INNOVATIVE DESIGN AND FAULTLESS ERGONOMICS

This model offers many accessories and possibilities of evolution. It takes on its full dimension coupled with NIKON image analysis systems and software.

Evolutionary microscope

Magnification from x50 up to x1000

PLAN objectives

Trinocular head

Ergonomic stand: positioning of the sample on the front







# PRESI VIEW MESURE

ACQUISITION AND MEASURE SOFTWARE, DEVELOPED BY PRESI

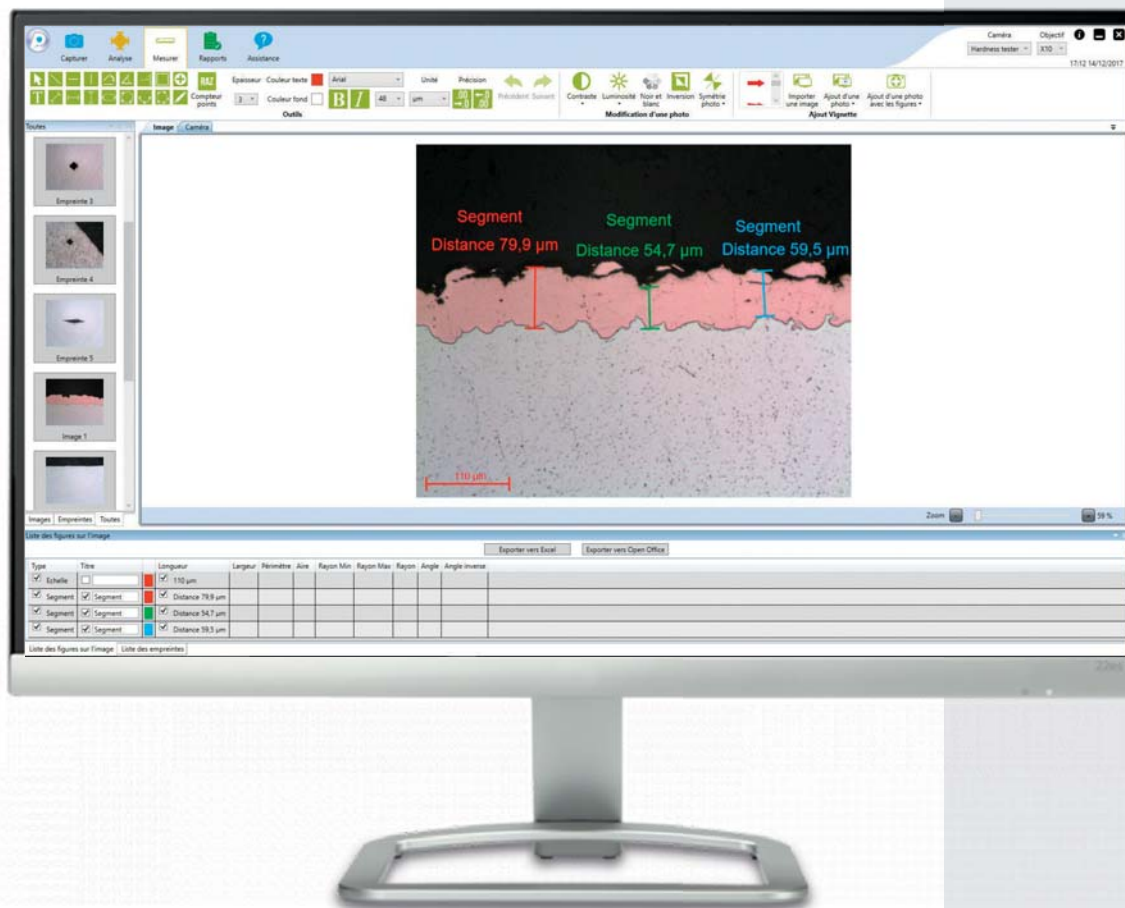
## Ref. 71101

Measure software on calibrated pictures developed by our engineers around a brand new generation of digital cameras, in order to respond to the needs of the laboratories and digital cameras users.

-  SIMPLE AND INTUITIVE
-  PICTURE FLUIDITY
-  AUTOMATIC ANALYSIS
-  DATA MEMORIZING

### Key features and advantages

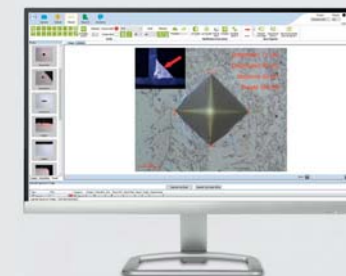
- Dimensional control on cut samples, paint layers, coatings, etc.
- Lengths, thickness, markers, angles, etc.
- Radius, diameters, perimeters, areas, circles, bow circles, etc.
- Text areas insertion, titles and arrows, etc.
- User friendly, made to take, treat and edit pictures
- Ergonomic and customizable interface, easy to use for all users.
- Full HD camera (monochromatic digital camera or USB2 color, equipped with CMOS 1/2" sensors with Rolling or Global Shutter according to the model) and very fluid during motions.
- 5 camera entries
- Customizable commentaries
- Saving in many formats
- Pictures insertions in reports
- "PIP" function



## PRESI VIEW HARDNESS (OPTIONAL)

### Ref. 71168

This software also has a Vickers and Knoop indents measure module in order to make it the more polyvalent it can be. It adapts on stereomicroscopes, on microscopes, hardness testers and micro-hardness testers equipped with a video output with a C-mount.



- Vickers and Knoop hardness measures
- Automatic measure of the indent by picture analysis
- Results board

# OTHER OPTICAL SOLUTIONS\*

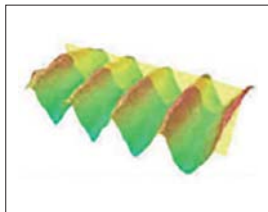
PRESI, IN PARTNERSHIP WITH OTHERS ACTORS OF THE OPTIC, EXTENDS ITS OFFER

## 3D DIGITAL MICROSCOPE HIROX RH-2000

Pioneer and worldwide leader in the 3D video microscopy since more than 30 years, HIROX is a producer of 3D macro video inspection and no-destructive microscopic systems, intended for R&D and quality controls.

**RH-2000, the 3D digital microscope more powerful, faster and more ergonomic**

**HIROX**  
EUROPE



3D view and measures

## BENCHTOP SEM (SCANNING ELECTRON MICROSCOPE)

JEOL is the worldwide leader in the Scanning Electronic Microscopy (SEM). The company develops and makes scientific high technology stuff intended to the research and the quality controls of new products.

**Neoscope JCM-6000 plus: a desk SEM with tactile screen, powerful and ergonomic.**

**JEOL**

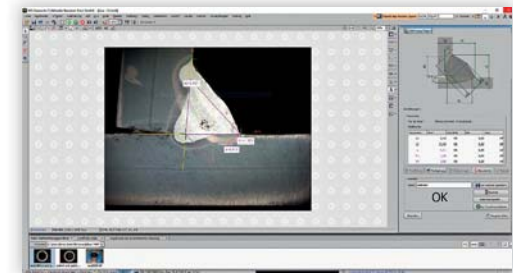


- Precise and reliable analysis on the sample composition by the contrast levels.
- Semiconductor detectors very sensitive
- Secondary electron and solid state backscattered electron detector: it offers, with a high magnification, a clear observation of the thin structures on the surface of the sample.

## WELDINGS CONTROL SOFTWARE WELDINSPECTOR

This optical equipment, tough and very easy to use, allows welding control without any focus. The measures are reliable and reproducible. High resolution digital camera and LED light. Alert for the non-compliant measures.

Portable briefcase version.  
Also exists in a fixed desk version.



\* Please contact us : your projects will be analysed on a case by case basis, depending on the country.



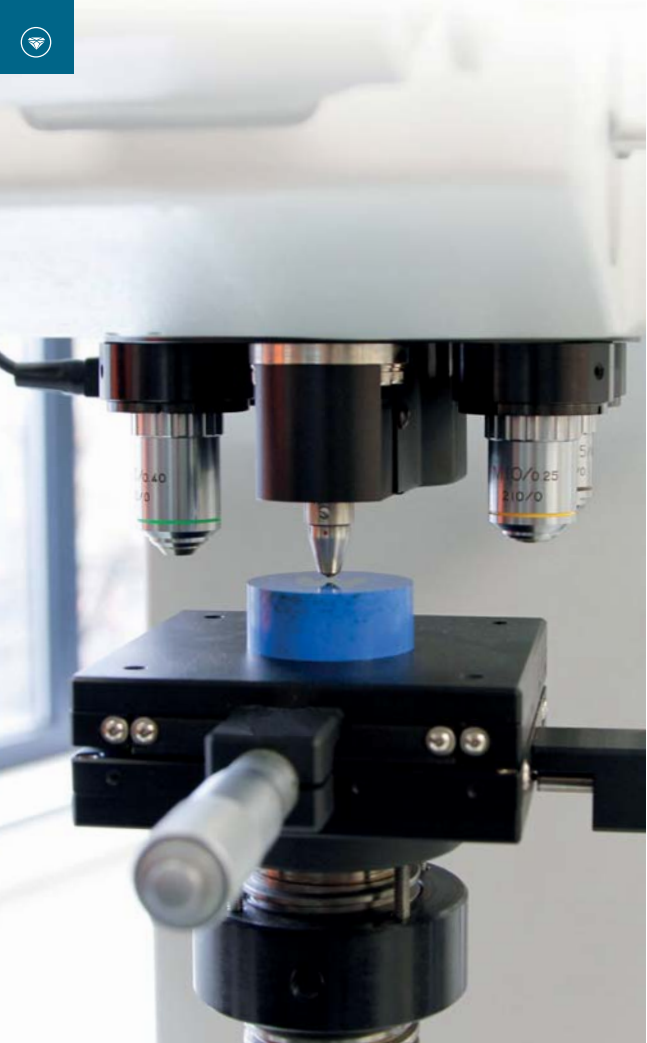
# THE FINAL STEP OF THE PROCESS

PRESI offers a new vision of hardness with its complete range of micro and macro-hardness testers.

For the examination of your samples and the determination of the material characteristics, we design top of the range equipment. They guarantee perfectly reliable and repeatable results.

Thanks to our scalable hardware and software solutions, we can cover the whole range, up to the highly specialised needs.

**A complete vision, without compromise.**



## INDENTER TYPE

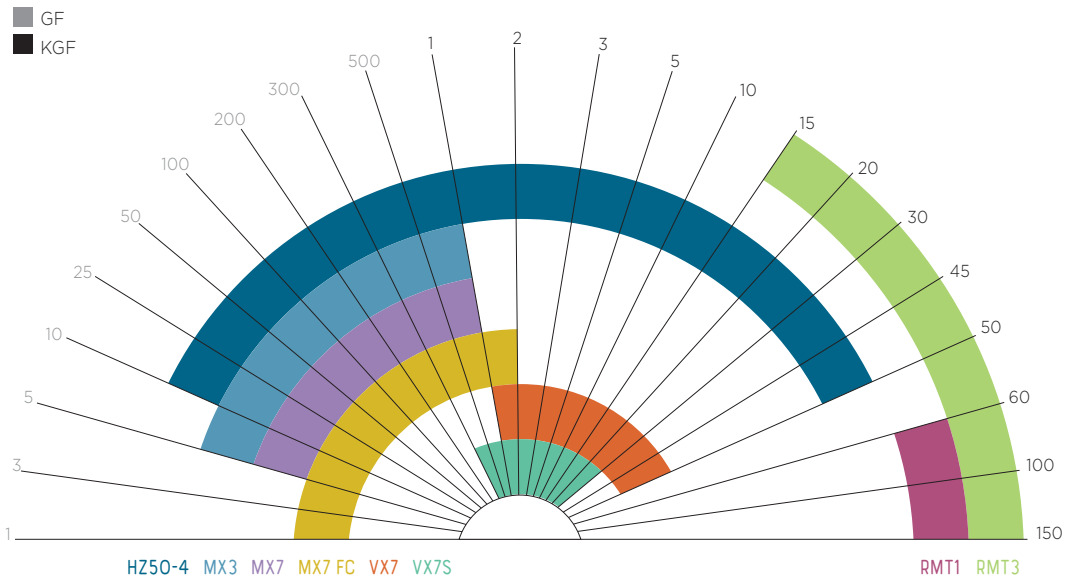
	HZ50-4	MICROTECH MX3	MICROTECH MX7	MICROTECH MX7 low loads	MACROTECH VX7	MACROTECH VX7S	MACROTECH RMT1	MACROTECH RMT3
VICKERS								
KNOOP								
BRINELL								
ROCKWELL								

## NUMBER OF TURRET POSITIONS

	NUMBER OF OBJECTIVES + NUMBER OF INDENTERS						TURRET
	2 + 1	2 + 2	3 + 1	3 + 2	4 + 1	4 + 2	
HZ50-4						standard	automatic
MICROTECH MX3	standard						manual
MICROTECH MX7	standard						automatic
MICROTECH MX7 FC				standard			automatic
MACROTECH VX7	standard						automatic
MACROTECH VX7S	standard						automatic

Available objectives for the MATSUZAWA range: x2,5 x5 x10 x20 x50 x100

## LOAD RANGE



## UPGRADABILITY MATSUZAWA RANGE PACK VIEW > PACK TOUCH MANUAL > PACK TOUCH SEMI-AUTO



	PACK PRESI View		PACK PRESI Touch	
	PACK VIEW Hardness	PACK TOUCH Manual	PACK TOUCH Semi-auto	
<b>INDENTATION TYPE</b>				
Single indents	✓	✓	✓	✓
Manual pattern		✓		
Semi-automatic pattern				✓
<b>EQUIPMENT</b>				
Multilingual software for measurement and image analysis	✓	✓	✓	✓
USB2 digital camera, 1.3M pixels	✓	✓	✓	✓
Automatic light		✓	✓	✓
Turret control		✓	✓	✓
Motorized stage and joystick				✓
Control box				✓
<b>FEATURES</b>				
Manual or automatic measurement	✓	✓	✓	✓
Automatic storage of results and photos	✓	✓	✓	✓
Pattern settings		✓	✓	✓
Hardness tester / PC communication		✓	✓	✓
Overview				✓
Alerts for measurement errors and load differences		✓	✓	✓
Analysis reports		✓	✓	✓

# HZ50-4

FULLY AUTOMATIC HARDNESS TESTER  
OPTICAL QUALITY, RELIABILITY AND PRECISION

## Ref. 71123

The HZ50-4 hardness tester is instantly recognizable. 100% made in France, its original design along with its robustness and highly technical capacities make it an essential work tool. High rigidity of the chassis for a perfect load application. Silent operation.

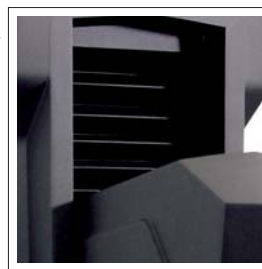
## 7 position turret:

- 4 lenses
- 2 indenters
- 1 touch sensor



**Nikon objectives**  
for a magnification up to 2000x

**Ergonomic joystick**  
with customizable sensitivity



**major vertical extension:**  
allows a large work space



**2 LED lighting system:**  
for micro and macroscopy use

**Motorized marble stage**

800mm

700mm

370mm

80kg

## CHARACTERISTICS

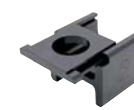
LOAD APPLICATION	
Test load range	From 10gf to 50kgf
Scales	Vickers, Knoop
Test load accuracy	< 1%
Dwell time	1 - 999 seconds
TURRET	
Load cells	2
Touch sensor	1
Objectives	4
Magnification	x200 to x2000
Cameras	1 macroscopic view, color 1 microscopic view, black and white
Z axis travel	250mm with stage
Z axis feeding accuracy	0.05µm
STAGE	
Dimensions	420 x 210mm
X axis travel	200mm
Y axis travel	180mm
Stage feeding accuracy	1µm
Max. work piece weight	80kg
GENERAL	
Power	220W
Ports	3 USB
Standard compliance	ISO 6507 & 4545; ASTM E384 and E92

## ACCESSORIES

### SAMPLE HOLDERS



**For non mounted sample holder**  
Ref. 71157



**Single place sample holder**  
Ref. 71109



**Sample holder 4 places**  
Ref. 71175



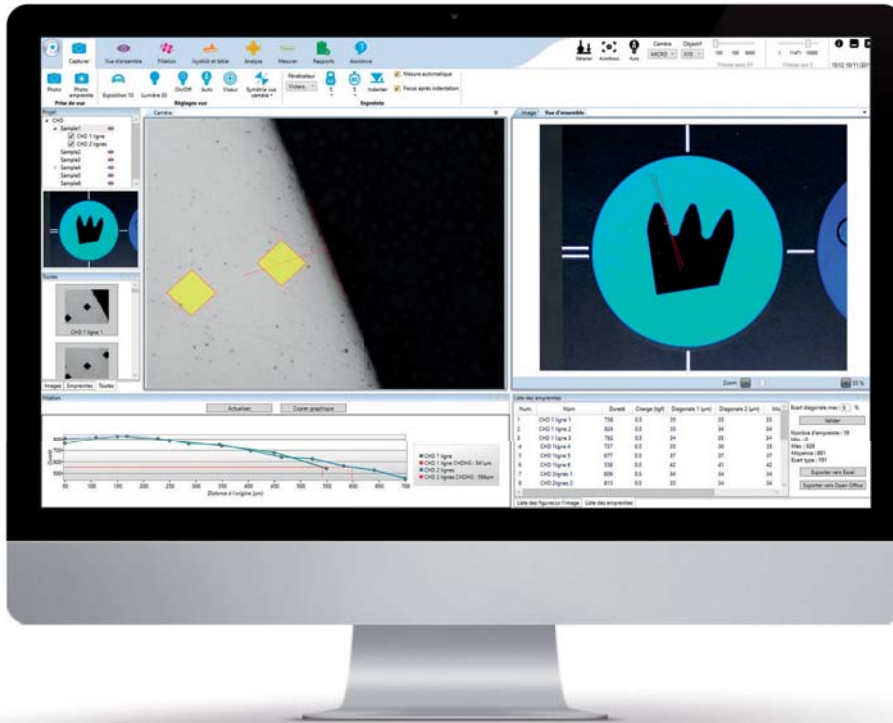
**Sample holder 6 places**  
Ref. 71176

Download the HZ50-4 technical sheet

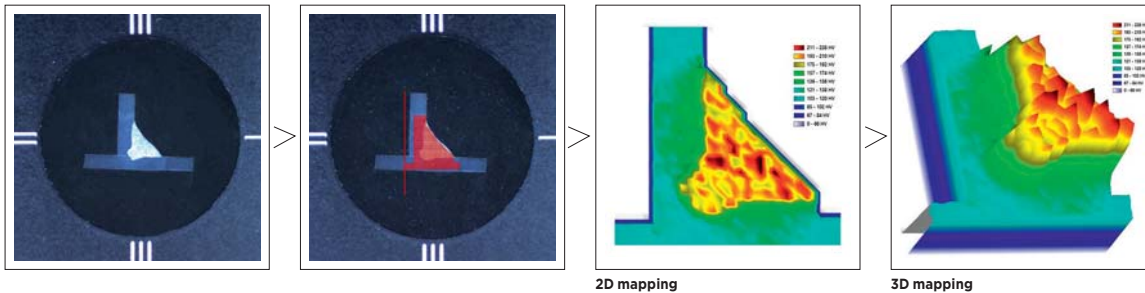


# PRESI TOUCH

Intuitive software with a graphic menu.  
 100% customizable interface.  
 Permanent overall view of the results and data.  
 Built-in search engine.  
 Automatic or manual indent measurement.  
 Single indent, regular or irregular pattern mapping.



## Automatic Mapping feature



2D mapping

3D mapping

## CHARACTERISTICS

### SOFTWARE

Version	Full automatic
Operating system	Windows 7, 8 and 10 - 64bit

### CONTROLS

- Automatic XYZ movement
- XYZ joystick movement
- Manual joystick sensitivity control
- Automatic Z focus
- Automatic and manual light intensity

### FEATURES

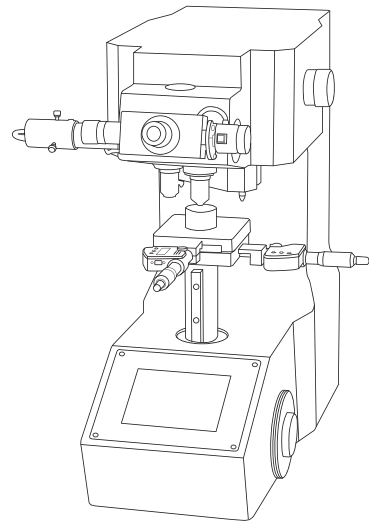
- Various measuring tools
- Automatic and manual measurements
- Automatic and manual mapping
- Single indentation
- Pattern/structure indentations (create, save and reopen)
- Irregular pattern
- Macroscopic view picture
- Microscopic/Macroscopic mosaic picture
- Automatic load selection
- Automatic multi sample detection
- Heat treatment feature (CHD)
- Integrated search engine
- Automatic report generator
- Report extraction (PDF, MS Excel, Open Office)



# MICROTECH MX3

## Ref. 71116

The Vickers MX3 hardness tester with manual turret offers a complete solution in order to meet the needs of quality laboratories, as well as on-line controls.



- 530mm
- 250mm
- 520mm
- 35kg

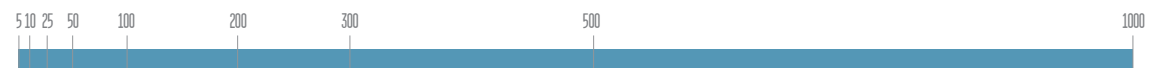


- Manual turret up to 6 positions.
- Vickers and Knoop hardness.
- Automatic load application.
- High-rigidity frame.

## UPGRADABILITY

PACK PRESI View Hardness → PACK PRESI Touch Manual → PACK PRESI Touch Semi-auto

## LOAD RANGE (GF)



## CHARACTERISTICS

	STANDARD	OPTION
Manual turret	2 objectives x10 x50 1 Vickers indenter	Up to 4 objectives including x10 and x50, 1 Vickers indenter and 1 Knoop indenter
Load application	Automatic load application	-
Indentation time	5 to 99s	-
Precision	0.01µm (x200 - x1000)	-
Magnification	x100 - x500	x25 - x1000
Max. measurable length	200µm	-
Data output	RS 232C output	-
Memory	999 max. memorized measurements	-
Conversions	Conversion to other scales according to SAE (J-417B), ASTM (E-140)	-
Max. sample height	120mm	-
Power supply	240V / 50 - 60Hz	-
Touchscreen	LCD display with backlight	-
Visualisation/Measurement	Direct measurement in the eyepiece and results display	-
Lighting	LED	-

## AVAILABLE OPTIONS

### INDENTERS



**VICKERS**  
Ref. 71164



**KNOOP**  
Ref. 71134

### STANDARD VICES



**50mm opening**  
Ref. 71133  
**100mm opening**  
Ref. 71199

### OBJECTIVES



**x2,5**  
Ref. 71106

**x5**  
Ref. 71154

**x10**  
Ref. 71142

**x20**  
Ref. 71129

**x50**  
Ref. 71143

**x100**  
Ref. 71135

### TURRET

**3-position turret for objectives**  
Ref. 71131

**4-position turret for objectives**  
Ref. 71130

**2 indenters Knoop and Vickers**  
Ref. 71115

### SAMPLE HOLDERS AND REMOVABLE HOLDERS



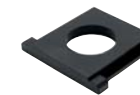
**Sample holder for non-mounted samples**  
Ref. 71157



**Single place sample holder**  
Ref. 71109



**Sample holder 4 places**  
Ref. 71175



**Removable holder 25mm**  
Ref. 71174

**Removable holder 25.4mm**  
Ref. 71144

**Removable holder 30mm**  
Ref. 71110

**Removable holder 31.7mm**  
Ref. 71111

**Removable holder 38.1mm**  
Ref. 71145

**Removable holder 40mm**  
Ref. 71125

**Removable holder 50mm**  
Ref. 71173

### OTHER ACCESSORIES



**C Mount for Microtech**  
Ref. 71108



**Standard Vickers test block 30mm x 10mm for Microtech**  
Ref. 71113



**Object micrometer**  
Ref. 71503



**Digital micrometers for manual XY stage**  
Ref. 71120

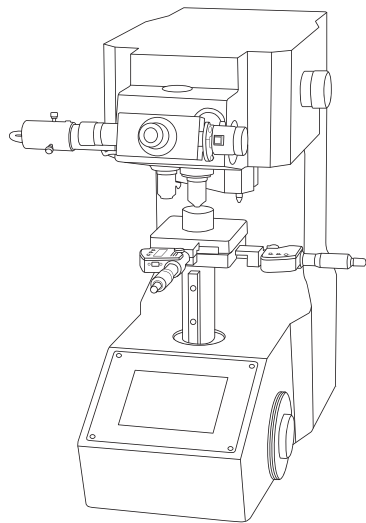
# MICROTECH MX7





# MICROTECH MX7

## LOW LOADS

**MX7 Ref. 71114 - MX7 low loads Ref. 71105**

The Vickers MX7 and MX7 low load hardness testers with automatic turret offer a complete solution in order to meet the needs of quality laboratories, as well as on-line controls.



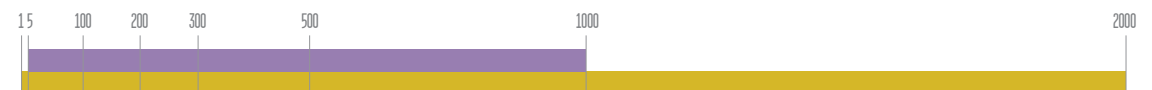
-  530mm
-  250mm
-  520mm
-  35kg

- Automatic turret up to 6 positions.
- Vickers and Knoop hardness.
- Automatic load application.
- High-rigidity frame.

### UPGRADABILITY

PACK PRESI View Hardness  PACK PRESI Touch Manual  PACK PRESI Touch Semi-auto

### LOAD RANGE (GF)



## CHARACTERISTICS

	MX7	MX7 LOW LOADS
Automatic turret	2 objectives x10 x50 1 Vickers indenter	3 objectives x10 x50 x100 1 Vickers indenter + 1 Knoop indenter
Turret options	Up to 4 objectives including x10 x50 + 2 indenters	Up to 4 objectives including x10 x50 x100
Load application	Automatic load application	Automatic load application
Load application speed	50µm/s	50µm/s
Indentation time	5 to 99s	5 to 99s
Precision	0.1µm (x200 - x1000)	0.1µm (x200 - x1000)
Magnification	x100 - x500	x100 - x500 - x1000
Max. measurable length	200µm	200µm
Data output	RS 232C output	RS 232C output
Memory	999 max. memorized measurements	999 max. memorized measurements
Conversions	Conversion to other scales according to SAE (J-417B), ASTM (E-140)	Conversion to other scales according to SAE (J-417B), ASTM (E-140)
Max. sample height	120mm	120mm
Power supply	240V / 50 - 60Hz	240V / 50 - 60Hz
Touchscreen	LCD display with backlight	LCD display with backlight
Lighting	LED	LED

## AVAILABLE OPTIONS

### INDENTERS



**VICKERS**  
Ref. 71164



**KNOOP**  
Ref. 71134

### STANDARD VICES



**50mm opening**  
Ref. 71133  
**100mm opening**  
Ref. 71199

### OBJECTIVES



**x2,5**  
Ref. 71106

**x5**  
Ref. 71154

**x10**  
Ref. 71142

**x20**  
Ref. 71129

**x50**  
Ref. 71143

**x100**  
Ref. 71135

### TURRET

**3-position turret  
for objectives**  
Ref. 71131

**4-position turret  
for objectives**  
Ref. 71130

**2 indenters Knoop  
and Vickers**  
Ref. 71115

### SAMPLE HOLDERS AND REMOVABLE HOLDERS



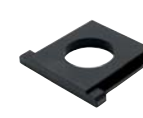
**Sample holder  
for non-mounted  
samples**  
Ref. 71157



**Single place sample  
holder**  
Ref. 71109



**Sample holder  
4 places**  
Ref. 71175



**Removable holder  
ø 25mm**  
Ref. 71174

**Removable holder  
ø 25.4mm**  
Ref. 71144

**Removable holder  
ø 30mm**  
Ref. 71110

**Removable holder  
ø 31.7mm**  
Ref. 71111

**Removable holder  
ø 38.1mm**  
Ref. 71145

**Removable holder  
ø 40mm**  
Ref. 71125

**Removable holder  
ø 50mm**  
Ref. 71173

### OTHER ACCESSORIES



**C Mount  
for Microtech**  
Ref. 71108



**Standard Vickers test  
block ø 30mm x 10mm  
for Microtech**  
Ref. 71113



**Object micrometer**  
Ref. 71503



**Digital micrometers  
for manual XY stage**  
Ref. 71120

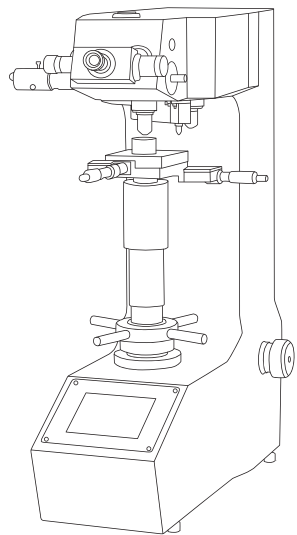


# MACROTECH VX7

# MACROTECH VX7S

## VX7 Ref. 71124 - VX7S Ref. 71132

The Vickers VX7 and VX7S hardness testers and semi-macro hardness testers with automatic turret offer complete solution to meet the needs of quality laboratories, as well as production line controls.



↕ 770mm

↔ 230mm

↙ 580mm

📦 55kg for MACROTECH VX7  
52kg for MACROTECH VX7S



- 5-position automatic turret.
- Touchscreen.
- Hardness Vickers, Knoop and Brinell.
- Automatic load application.
- High-rigidity frame.

## UPGRADABILITY

PACK PRESI  
View Hardness

▶ PACK PRESI  
Touch Manual

▶ PACK PRESI  
Touch Semi-auto

## LOAD RANGE (KGF)



## CHARACTERISTICS

	VX7	VX7S
Automatic turret	2 objectives x10 x20, 1 Vickers indenter	2 objectives x10 x20, 1 Vickers indenter
Options turret	Up to 4 objectives including x10 x20 + 1 indenter	Up to 4 objectives including x10 x20 + 1 indenter
Load application	Automatic load application	Automatic load application
Load application speed	85µm/s	85µm/s
Indentation time	5 to 99s	5 to 99s
Precision	In accordance with ISO 6507-2, JIS B7725, ASTM (E-384) standards	In accordance with ISO 6507-2, JIS B7725, ASTM (E-384) standards
Magnification	x100 - x200	x100 - x200
Max. measurable length	999.9µm - 600µm	999.9µm - 600µm
Data output	RS 232C output	RS 232C output
Memory	999 max. memorized measurements	999 max. memorized measurements
Conversions	Conversion to other scales according to ASTM (E-140) et JIS	Conversion to other scales according to ASTM (E-140) et JIS
Max. sample height	250mm	250mm
Max. sample length	150mm	150mm
Power supply	240V / 50 - 60Hz	240V / 50 - 60Hz
Touchscreen	LCD display with backlight	LCD display with backlight
Lighting	LED	LED

## AVAILABLE OPTIONS

### INDENTERS



**VICKERS**  
Ref. 71164



**KNOOP**  
Ref. 71134

### STANDARD VICES



**50mm opening**  
Ref. 71133  
**100mm opening**  
Ref. 71199

### OBJECTIVES



**x2,5**  
Ref. 71106

**x5**  
Ref. 71154

**x10**  
Ref. 71142

**x20**  
Ref. 71129

**x50**  
Ref. 71143

**x100**  
Ref. 71135

### SAMPLE HOLDERS AND REMOVABLE HOLDERS



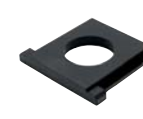
**Sample holder for non-mounted samples**  
Ref. 71157



**Single place sample holder**  
Ref. 71109



**Sample holder 4 places**  
Ref. 71175



**Removable holder ø 25mm**  
Ref. 71174

**Removable holder ø 25.4mm**  
Ref. 71144

**Removable holder ø 30mm**  
Ref. 71110

**Removable holder ø 31.7mm**  
Ref. 71111

**Removable holder ø 38.1mm**  
Ref. 71145

**Removable holder ø 40mm**  
Ref. 71125

**Removable holder ø 50mm**  
Ref. 71173

### OTHER ACCESSORIES



**Video output + C mount**  
Ref. 71128



**Standard Vickers test block (ø 64 x 15mm)**  
Ref. 71141



**Object micrometer**  
Ref. 71503



**Digital micrometers for manual XY stage**  
Ref. 71120

**Stage adapter for ref. 71122 & 71152**  
Ref. 71121

**Manual XY stage 25 x 25mm movement**  
Ref. 71122

### TURRET

**3-position turret for objectives**  
Ref. 71131

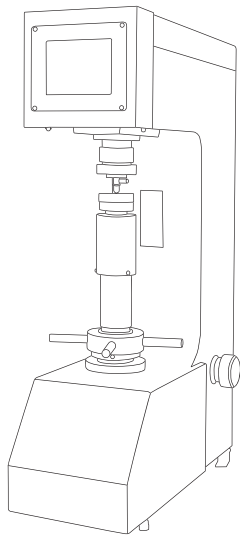
**4-position turret for objectives**  
Ref. 71130

# MACROTECH RMT1

# MACROTECH RMT3

**RMT1 Ref. 71199 - RMT3 Ref. 71117**

Rockwell RMT1 and RMT3 hardness testers cover all scales in order to meet the needs of quality laboratories, as well as controls on the production line.



- 830mm
- 220mm
- 540mm
- 100kg



- Automatic indent.
- Direct digital reading.
- Assisted pre-charge.
- Very easy settings.
- New LCD screen.

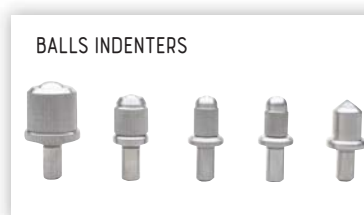
LOAD RANGE (KGF)



## CHARACTERISTICS

	MACROTECH RMT1	MACROTECH RMT3
Preload mode	Assisted preload (LCD Visual and BIP sound)	Assisted preload (LCD Visual and BIP sound)
Load application	Automatic	Automatic
Starting cycle	Automatic start / Possible in manual	Automatic start / Possible in manual
Indentation time	3 to 99s	3 to 99s
Measurements on plastics	Standard	Standard
Measurement scales	C D A G B F K E H P M L V S R	15N 30N 45N 15T 30T 45T 15W 30W 45W 15X 30X 45X 15Y 30Y 45Y C D A G B F K E H P M L V S R
Data output	RS 232C output	RS 232C output
Memory	999 max. memorized measurements	999 max. memorized measurements
Conversions	In accordance with SAE J417b, ASTM E 140 standards	In accordance with SAE J417b, ASTM E 140 standards
Precision	In accordance with JIS B7726, ASTM (E-18) standards	In accordance with JIS B7726, ASTM (E-18) standards
Max. sample height	200mm	200mm
Max. depth piece	165mm	165mm
Power supply	240V / 50 - 60Hz	240V / 50 - 60Hz
Touchscreen	LCD display with backlight	LCD display with backlight

## AVAILABLE ACCESSORIES



Ball indenter	Diam 1/8", 1/4", 1/2", 3/4"
Steel balls	Diam 1/8", 1/4", 1/2", 3/4"
Round stage	Diam 200mm
Other stage	V table (small), stud, diamond stud
JIG tests on long samples	Vari-Rest & Jack-Rest
Micrometric displacement stage for the Jomini tests	Maximum displacement: about 55 mm Mini scale: 1/10mm or 1/160"

## AVAILABLE OPTIONS

STANDARD VICES	OTHER ACCESSORY
<p><b>50mm opening</b> Ref. 71133</p> <p><b>100mm opening</b> Ref. 71199</p>	<p><b>Standard Rockwell C test block (ø 64 x 15mm)</b> Ref. 71167</p>



# PRESI VIEW & PRESI TOUCH

PRESI View and PRESI Touch softwares have been developed by our engineers around a new generation of digital cameras, to meet the needs of digital imaging laboratories and users.

**Very intuitive**, they handle the acquisition, treatment and editing of images. Thanks to an ergonomic architecture, the software is user-friendly.

Monochrome or color, our digital cameras are equipped with 1/2" CMOS sensors, with Rolling or Global Shutter, depending on the model. Our USB2 1.3 to 5 Mpixels cameras offer excellent **fluidity** and are **easy to install**.

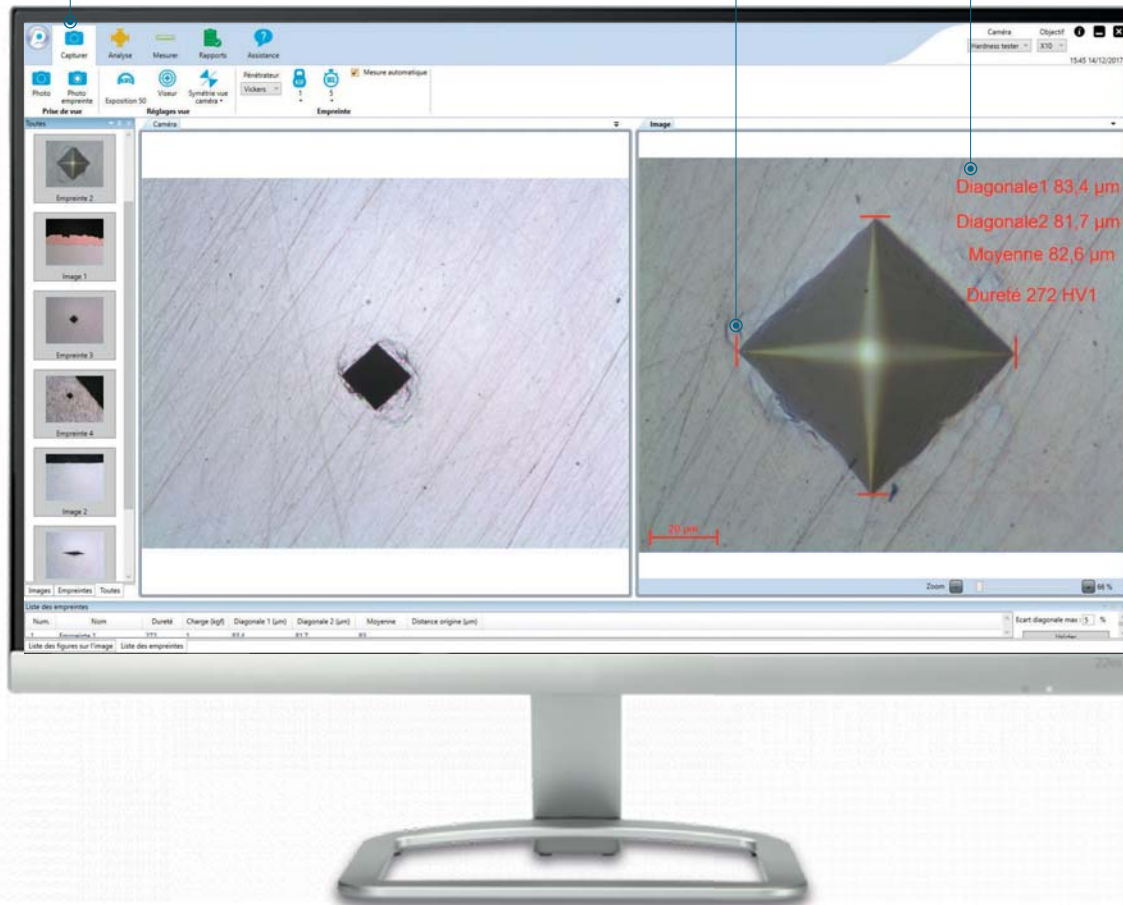
## THE RIGHT SOFTWARE FOR THE RIGHT USAGE

	PRESI View	PRESI Touch
Manual indent analysis	●	●
Automatic indent analysis	●	●
Single indent management	●	●
Multi-language software	●	●
Pattern management		●
Integrated report		●
Hardness tester control		●

Easy learning for the operator: pleasant and easy software interface

Accuracy of measurements

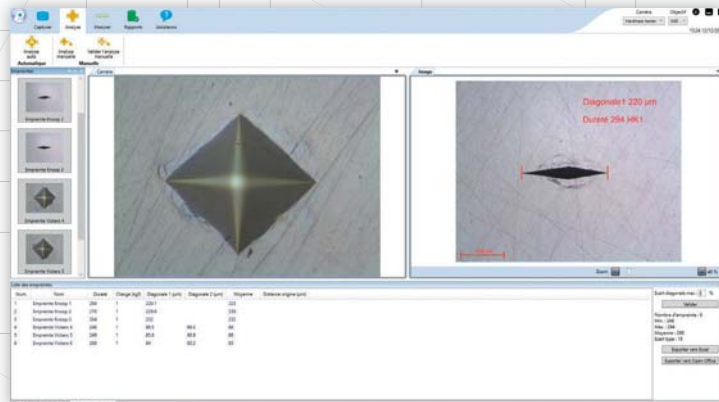
Great work confort and easy data reading



# PRESI VIEW & PRESI TOUCH

## HARDNESS CONTROL

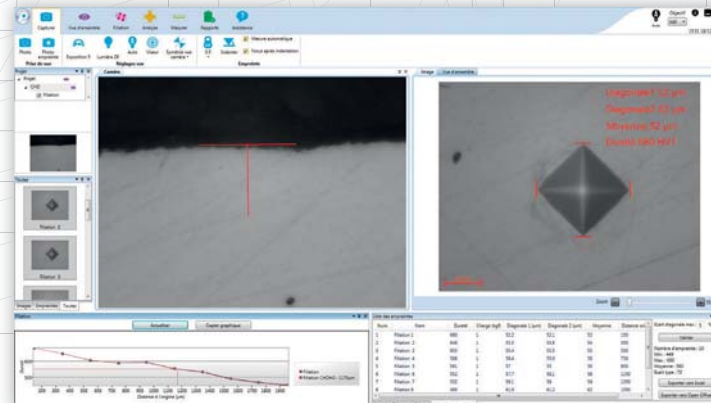
Image analysis and manual reading.  
Vickers and Knoop measurement.



PRESI View - Hardness interface

## THERMAL TREATMENT CONTROL

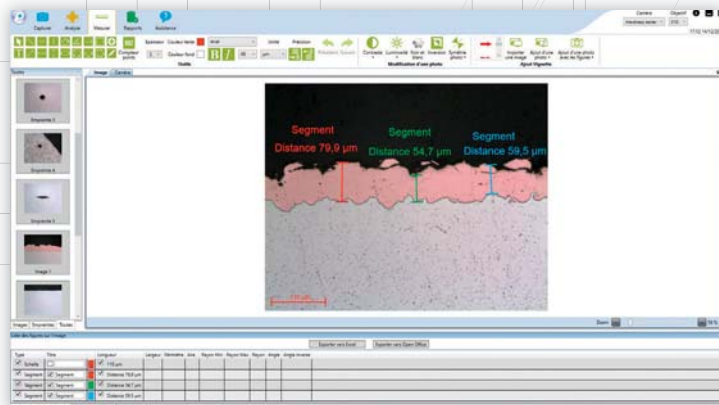
Depth control for heat treatments by direct measurement  
or by using composed measuring tools, such as projection.



PRESI Touch interface

## DIMENSIONAL CONTROL

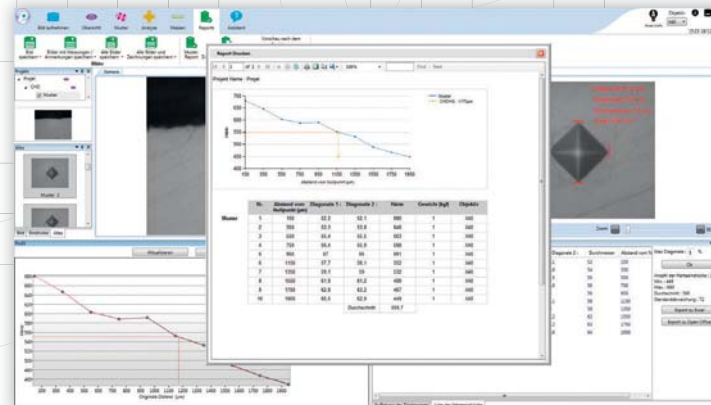
Length measurements, angles, diameters, surfaces on cuts  
of pieces such as layers painting, surface treatments, deposits, etc.



PRESI View - Full interface

## PRODUCTION CONTROL

Precise, intuitive and fast software for obtaining  
results in production controls.



PRESI Touch interface

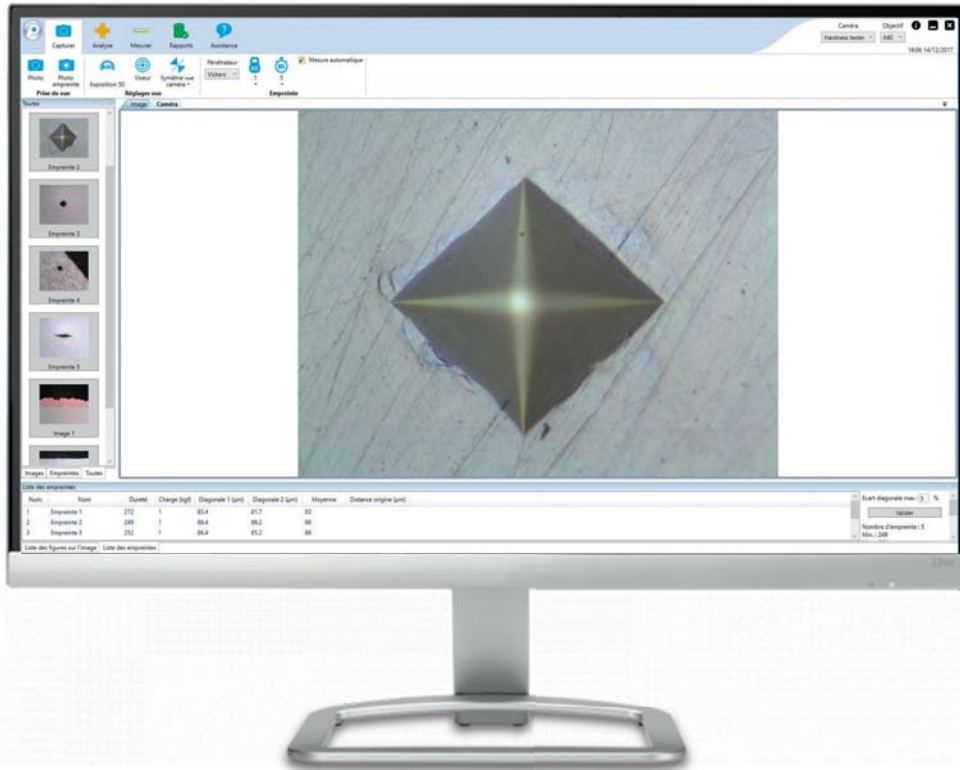
# PACK PRESI VIEW

## HARDNESS

### ACCESSIBLE AND INTUITIVE DIGITAL IMAGERY FOR SINGLE INDENTS

Specially designed for single indent analysis, the PRESI View Hardness software has a simple interface and a pleasant workspace. Thanks to easily identifiable icons, the software is user-friendly and the operator is quickly autonomous on his tasks. On-screen visualisation of the indent, as well as the assisted analysis, offer a great work comfort.

-  EASY AND INTUITIVE
-  AUTOMATIC ANALYSIS
-  IMAGE FLUIDITY
-  DATA STORAGE



## FUNCTIONALITIES

### LANGUAGE

Software available in 3 languages: English + French + German

### INDENTATION TYPE

Single indent

### SOFTWARE

Simultaneous functioning with multiple cameras on different acquisition means (macro lens, stereomicroscope, microscope, hardness tester and Vickers micro hardness tester)

Manual or automatic measurement

Miniature view of pictures

Customizable formatting

Streamlined and intuitive interface

### SETUP MENU

Easy and fast camera settings.  
Calibrations achievable in seconds

Presets of the measurement display

### EXPLOITATION OF RESULTS

Many recording formats

Automatic storage of results in database

Pictures exportation in format: JPEG / PNG / BMP / GIF

Data exportation in format: Excel / Open Office

### COMPATIBILITY

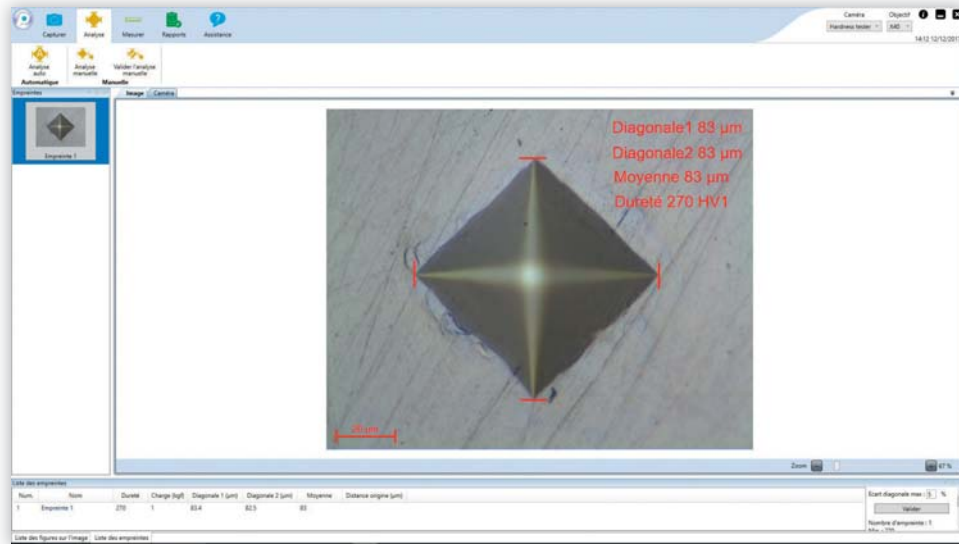
The software is compatible with all our Microtech, Macrotech VX7 and VX7S hardness testers, and all brands equipped with a video output and C mount

## EXTENDED FEATURES WITH PRESI VIEW MESURE

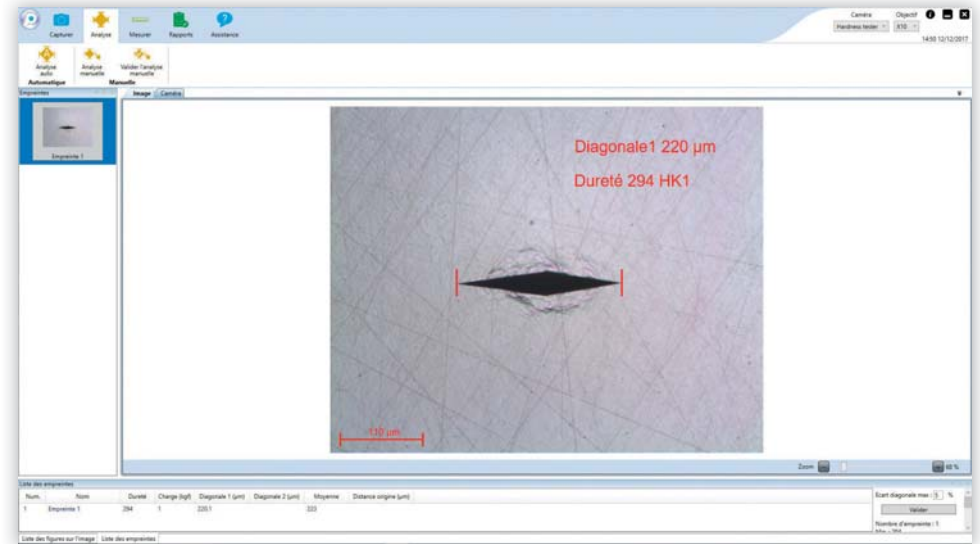
- Lengths, thicknesses, markers, angles...
- Rays, diameters, perimeters, surfaces, circles, arcs...
- Text boxes insertions, titles and arrows.

## PRESI VIEW HARDNESS

Automatic or manual measurement of Vickers indents.

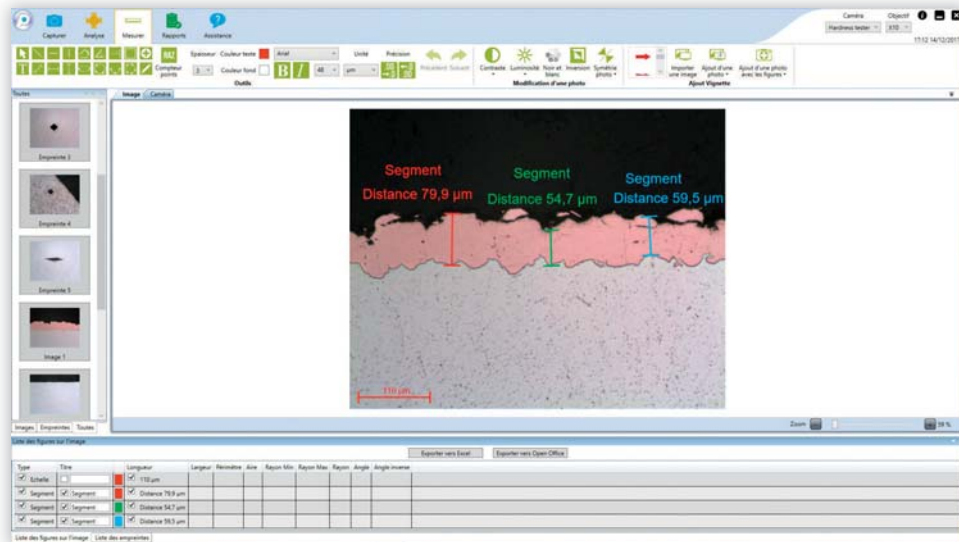


Automatic or manual measurement of Knoop indents.

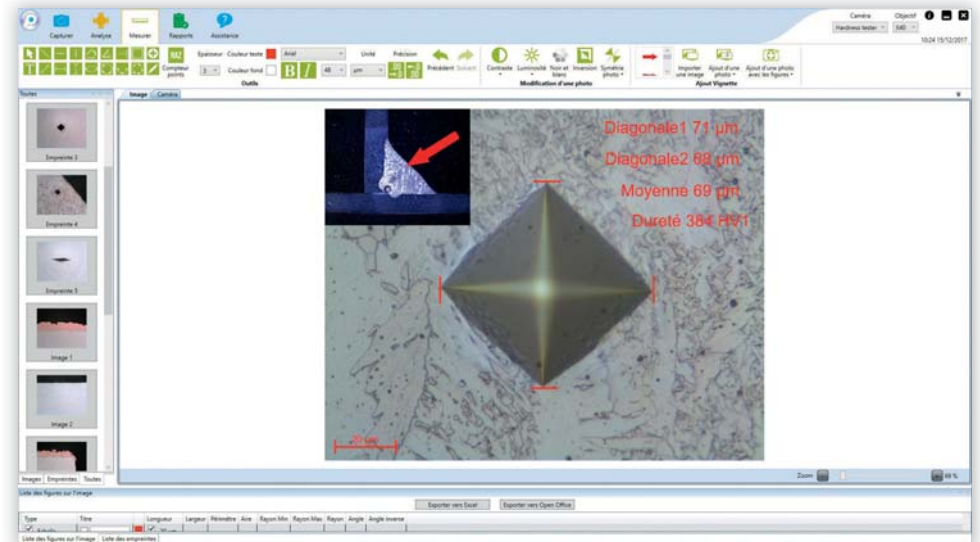


## PRESI VIEW FULL

The optional measurement module provides a large number of measurement tools such as measuring angles, polygons, projections, etc.



The addition of a thumbnail enriches the number of information on a photo. The drafting of the report is thus facilitated.





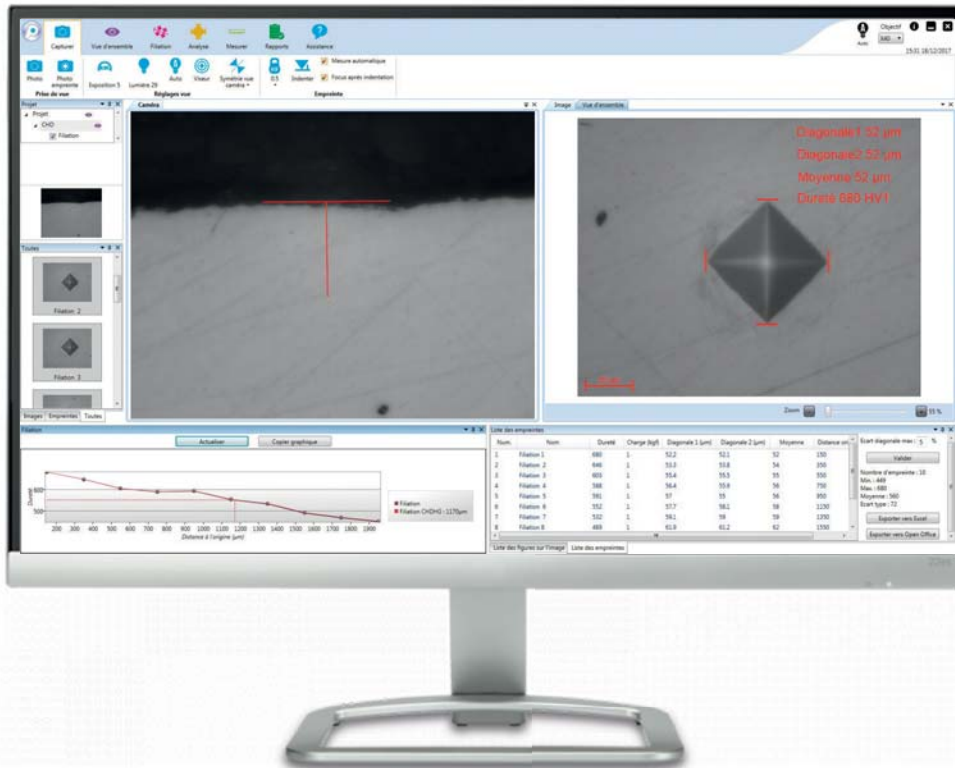
# PACK PRESI TOUCH

## MANUAL

### CREATE AND EASILY MANAGE YOUR HARDNESS FILIATIONS

The **PRESI Touch Manual Pack** is the 2<sup>nd</sup> level of computerization, allowing the creation and management of hardness patterns. The integrated image analysis in the software allows an easy and reliable interpretation. Designed to facilitate manual patterns and guarantee a perfect repeatability of the results, the PRESI Touch Manual software distinguishes itself by a clear, uncluttered and fully customizable interface. It has numerous features such as automatic measurement or manual indenting. The navigation is simplified, thanks to contextual menus, for a quick start by the operator.

- INTEGRATED MEASURING TOOLS
- PRECISION AND REPEATABILITY OF MEASUREMENTS
- GREAT WORK COMFORT AND EASY DATA READING
- USER-FRIENDLY SOFTWARE



## FUNCTIONALITIES

### LANGUAGE

Software available in 3 languages: English + French + German

### INDENTATION TYPE

Single indent  
Manual pattern with travel assistant: indication of the coordinates of the moves to be made

### EQUIPMENT

Measurement and analysis software

USB2 digital camera, 1.3M pixels: the transmitted image on the computer screen is accurate and fluid

Automatic or manual brightness: the software offers an optimal brightness setting on the sample to be analyzed

Turret management:

- Manual: the software indicates via pop-up which position to select
- Motorized: the software automatically controls the change of position

### FEATURES

Automatic or manual measurement: the operator can choose to let the PRESI Touch software automatically analyze the indents, or manually perform the interpretation

Automatic storage of results and photos into the database

Search engine: allows you to quickly find already completed projects

Pattern settings: graphical and dynamic menu, allowing real time monitoring of the programming

Hardness tester / PC communication: the operator can control and interact directly with the hardness tester via the software

Difference of load alert: in case of a difference between the programmed load and the manually defined load by the operator, an alert pops up on screen

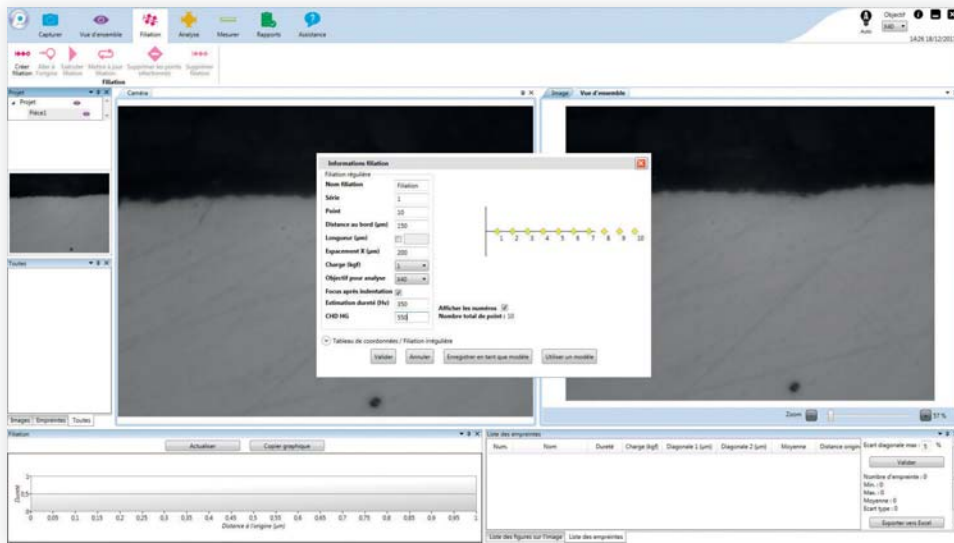
Analysis reports: numbers, graphs and statistics can be exported in one click in Word, Excel or PDF formats

### COMPATIBILITY

PRESI Touch Manual software is compatible with all Microtech, Macrotech VX7 and VX7S hardness testers

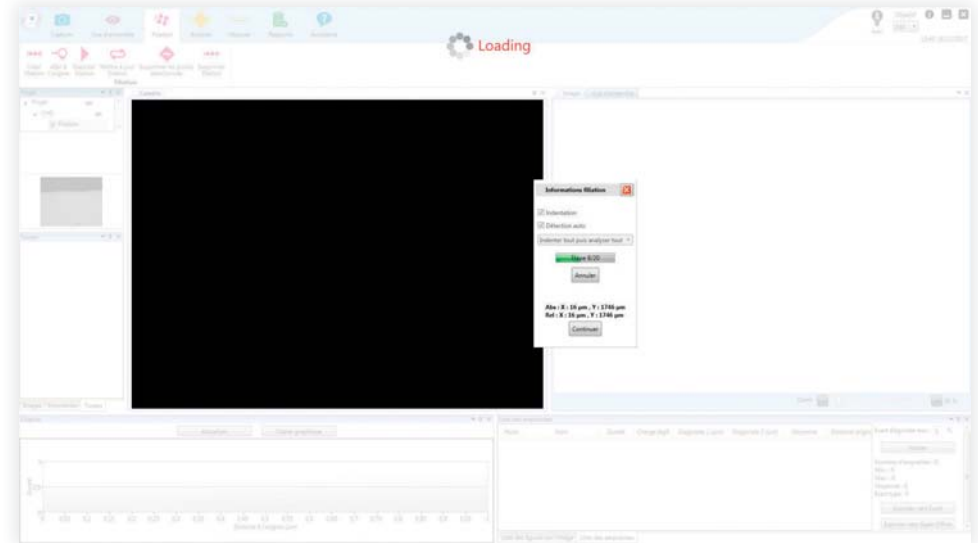
## PATTERN CREATION

A graphic and dynamic assistant allows pattern visualization during its programming.



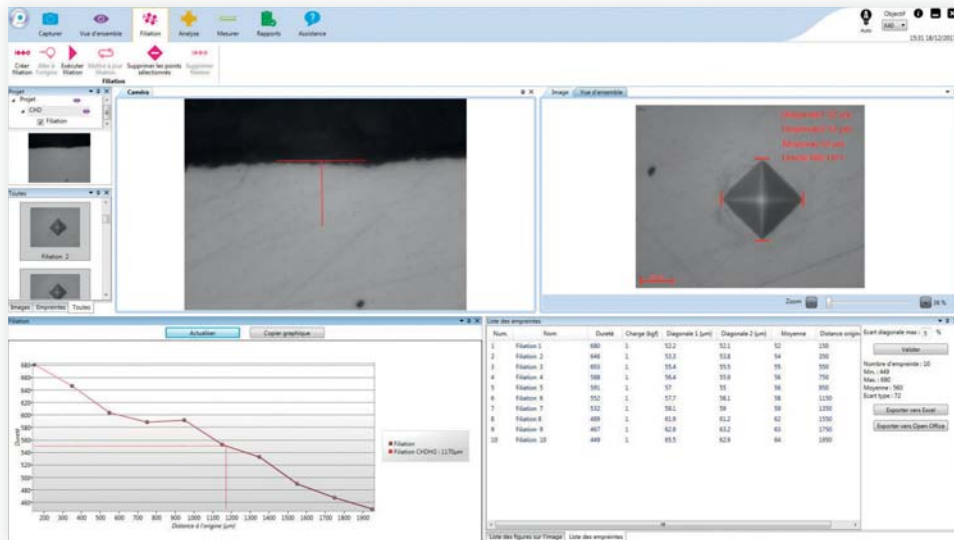
## PATTERN EXECUTION

The operator is guided by the software. XY coordinates of the indentations to perform are shown on the screen.



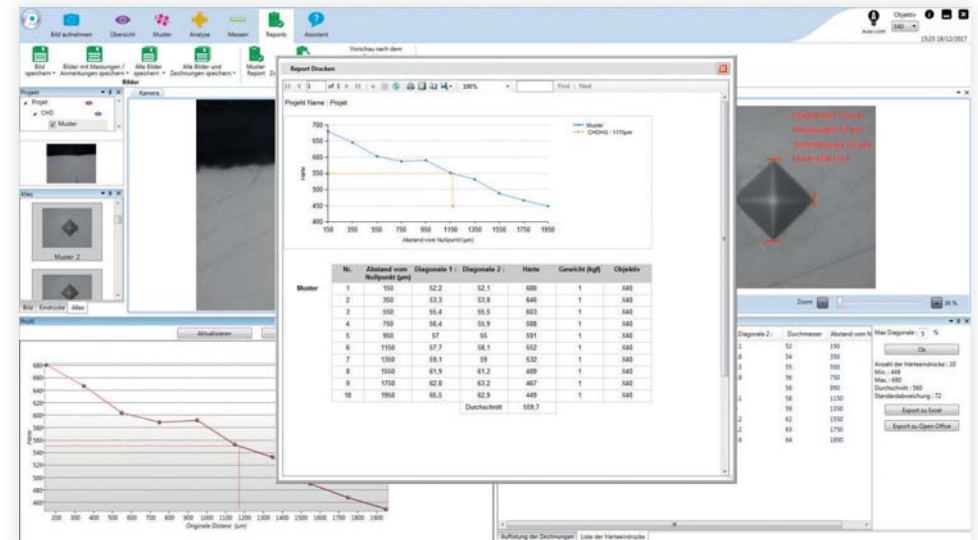
## INTERFACE

The fully configurable interface allows the visualization of all results, regardless of the selected function.



## AUTOMATIC REPORT

In one click, a report formats the results. This report is printable or recordable in many formats.



# PACK PRESI TOUCH

## SEMI-AUTO

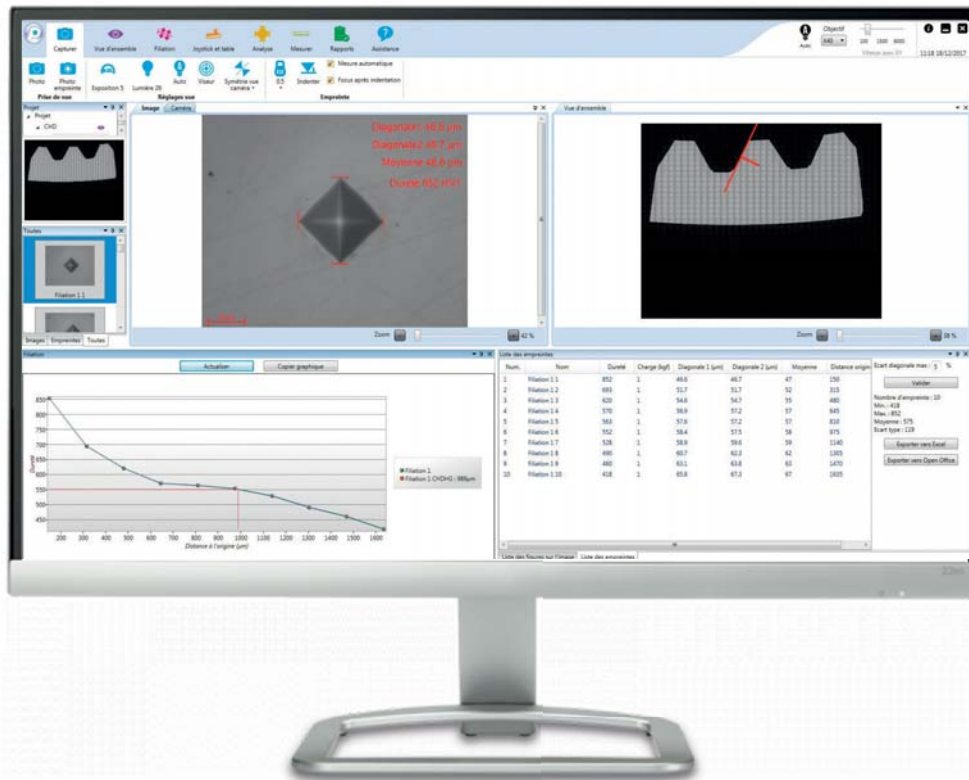
### THE XY AUTOMATIC DISPLACEMENT SERVING YOUR PATTERNS

Developed in an effort to optimize efficiency and to free the user from tedious operations and increase productivity, the Semi-Auto Pack incorporates a motorized stage, driven by joystick.

Its XY automatic displacement accuracy offers real time saving, repeatability and guarantees consistency in the interpretation of the results. PRESI Touch pattern storage facilitates the operator's work.

The software allows pattern creation in no time and instant editing of a hardness profile. Easy and automatic measurements, ideal for serial checks.

- 👍 COMPLETE, RELIABLE AND POWERFUL
- 👁️ INTUITIVE NAVIGATION
- 🌟 VERY HIGH QUALITY IMAGE
- 🕒 TIME SAVING



## FUNCTIONALITIES

### LANGUAGE

Software available in 3 languages: English + French + German

### INDENT TYPE

Single pattern  
Semi-automatic pattern

### EQUIPMENT

Multilingual software for measurement and image analysis

USB2 digital camera, 1.3M pixels: the image retransmitted on the computer screen is accurate and fluid

Automatic or manual brightness: the software offers an optimal brightness setting on the sample to be analyzed

Control box, motorized stage and joystick: a set of peripherals allowing fast and precise movements on the surfaces to be analyzed

### FEATURES

Manual or automatic measurement: the operator can choose to let the PRESI Touch software automatically analyze indents or manually manage the control

Pattern settings: graphical and dynamic menu, allowing real time monitoring of the programming

Hardness tester / PC communication: the operator can control and interact directly with the hardness tester via the software

Overview: possibility to photograph all or part of the sample to be analyzed and to directly place the patterns in the right places

Deformed indent alert: a colored line appears in the result table when  $d1 = d2 \pm x\%$  (adjustable tolerance)

Difference of load alert: in case of a difference between the programmed load via the software and the manually defined load by the operator, an alert pops-up on screen

Analysis reports: numbers, graphs and statistics can be exported in one click in Word, Excel or PDF formats

Image analysis: automatic or manual indent analysis on etched or non-etched samples

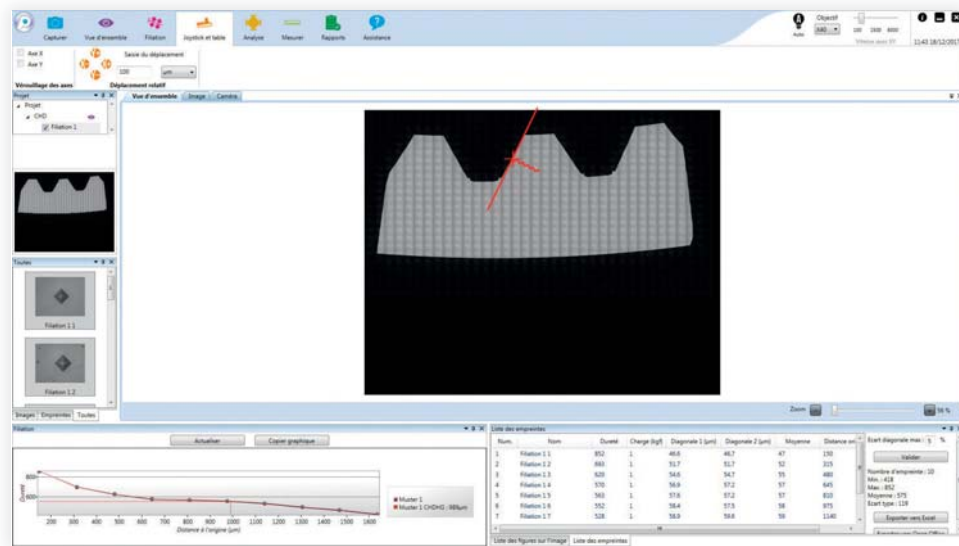
Single indents, regular or irregular patterns: in order to meet numerous needs, the software allows the execution of isolated points, the programming, the backup and the loading of a pattern or of a set of patterns

### COMPATIBILITY

The PRESI Touch Semi-auto software is compatible with all our Microtech, Macrotech VX7 and VX7S hardness testers

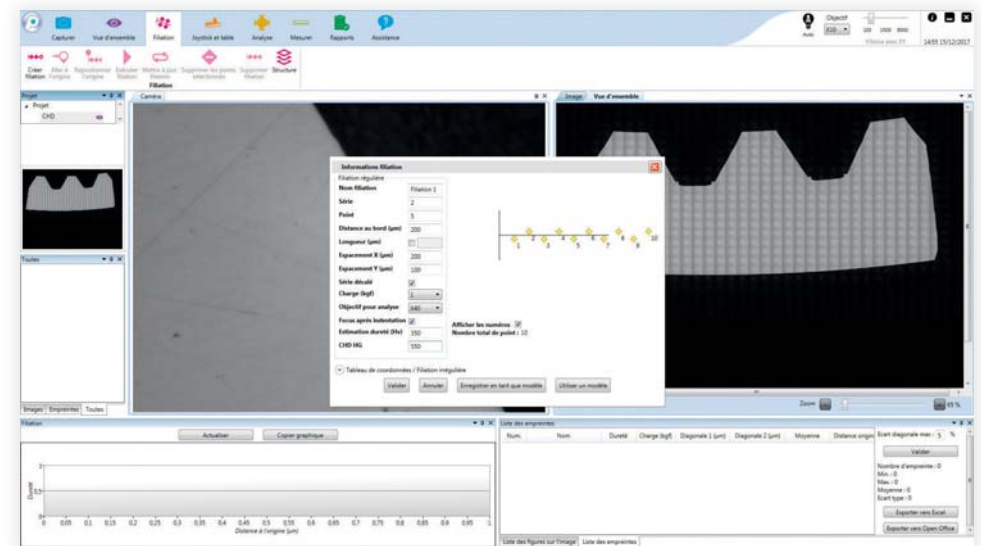
## OVERVIEW

The motorized stage makes it possible to reconstruct, by photos, the sample to be analyzed.



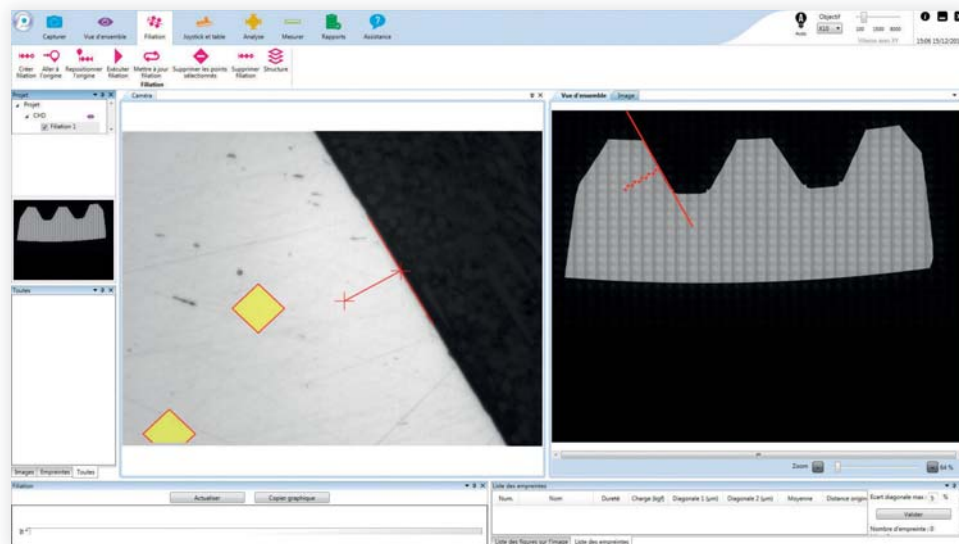
## PROGRAMMATION

A graphic and dynamic assistant allows pattern visualisation during its programming. It is possible to place the pattern directly on the overview.



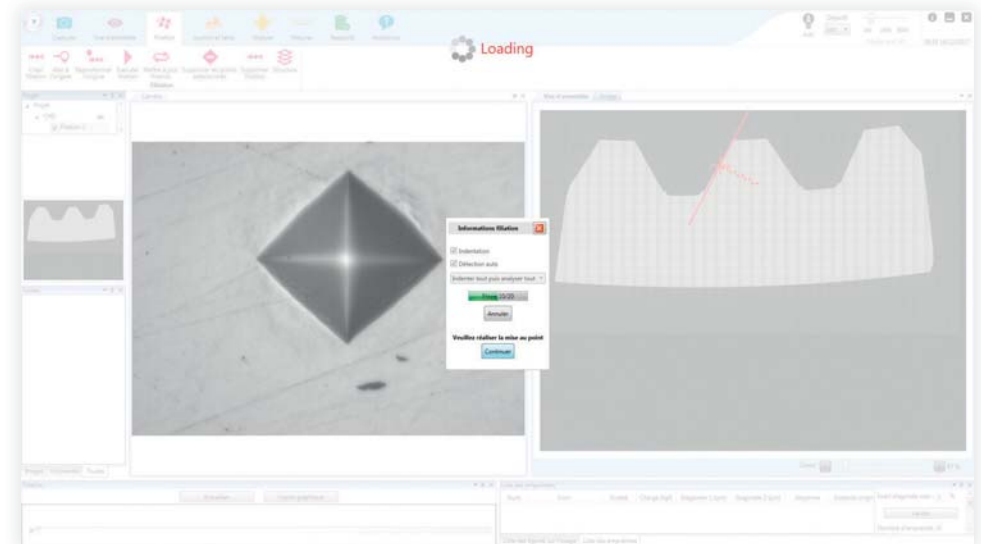
## VIRTUAL PATTERN

Once the pattern is programmed, it virtually appears on the camera view. It is possible to visualize the location of the different indents, as well as their estimated size.



## MEASURING CYCLE (AUTOMATIC OR MANUAL)

A pop-up window asks the operator to check the focus of the indent, before measurement.

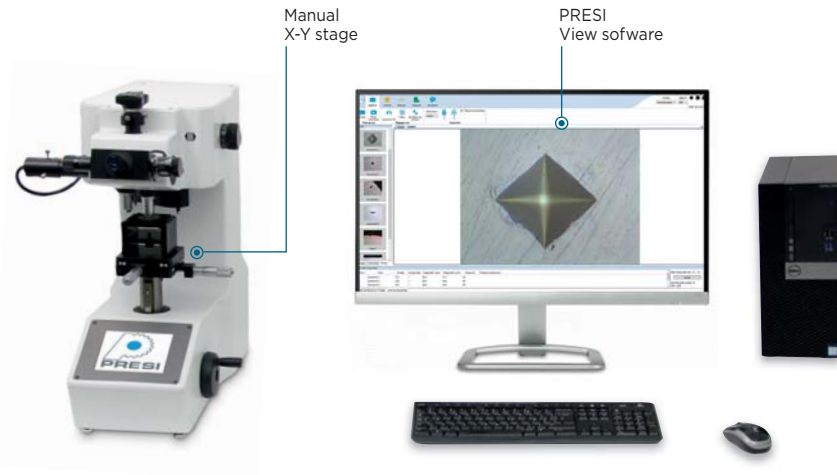




# PACKS

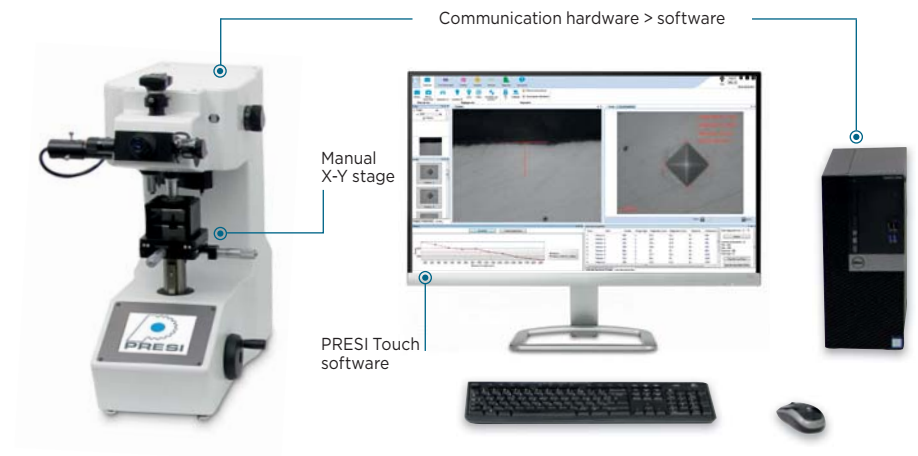
## PRESI VIEW HARDNESS

### MICROTECH

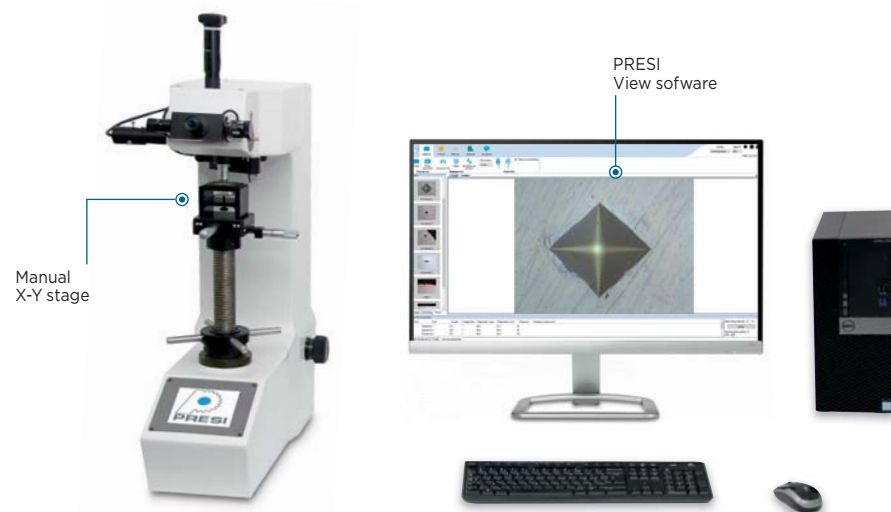


## PRESI TOUCH MANUAL

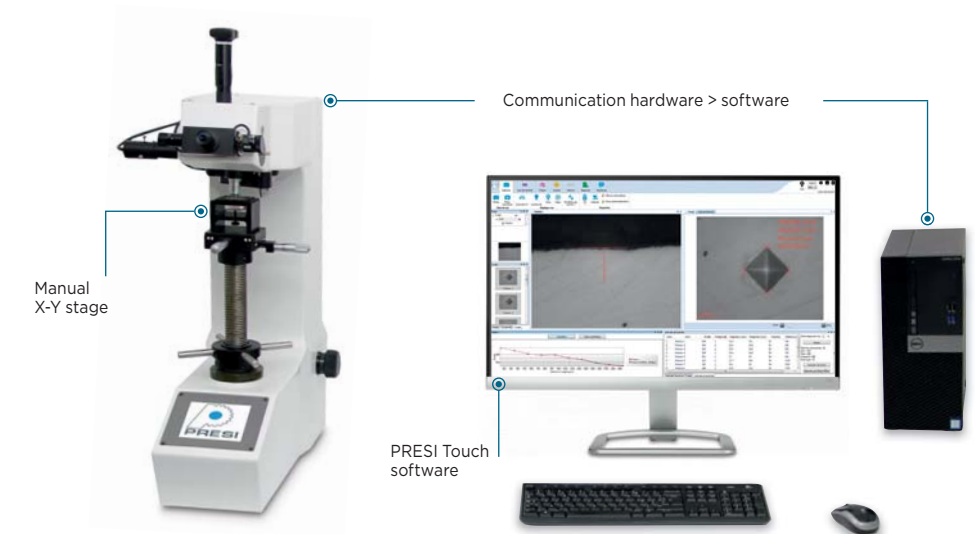
### MICROTECH



### MACROTECH



### MACROTECH

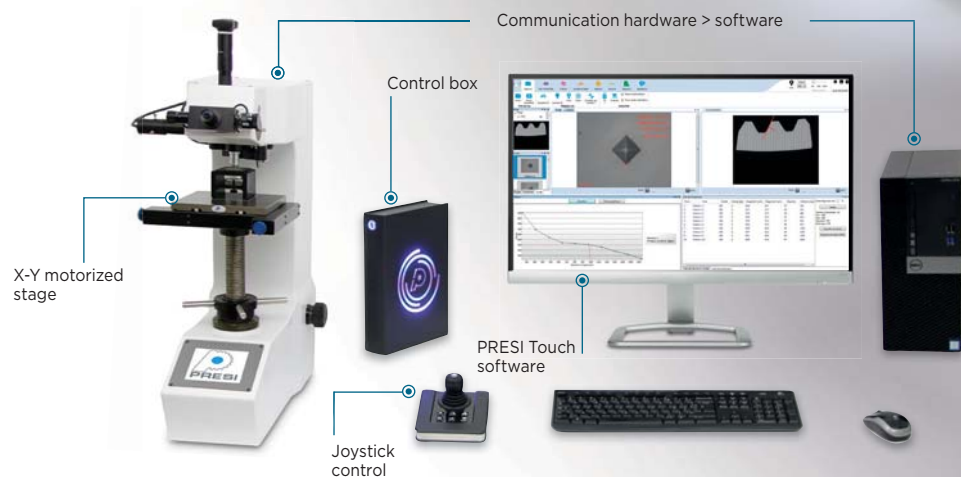


# PRESI TOUCH SEMI-AUTO

## MICROTECH



## MACROTECH



# EVERYTHING YOU NEED FOR YOUR LAB



## CLASSIFYING

REF.	DESIGNATION
19005	Storage box (3 at 18 specimen)
19020	Electrical engraver with carbide tungsten point for specimen marking
19018	Pack of 3 pins in tungsten carbide for engraver Ref. 19020
19019	Diamond point for engraver Ref. 19020
57155	Draining board for plates Ø 200 to 300mm
57157	Top Quality storage cabinet 9 platens Ø 200 to 300mm, closing by sliding doors

## REPLICATING

REF.	DESIGNATION
19035	Replica Kit complete with 20 replica sheets 10 x 12cm (thickness 0.035mm), 80 glass slides, 1 bottle of solvent 125 CC
19036	Pack of 20 replica sheets

## WIPING-CLEANING-DRYING

REF.	DESIGNATION
19001	1l cleaning liquid "AllClean"
19006	Protective lacquer spray (400ml)
19007	Pack of 4 Jet Pur Sprays (400ml)
19060	300 special wiping clothes (extreme softness, scratch free)
19070	Extra pure cotton wool (100g)
57159	Wall-mounted sample dryer
57160	Base-mounted sample dryer
19064	Absorbent roll for all liquids (46m x 41cm)

## BONDING

REF.	DESIGNATION
19004	500g sample mounting wax
19010	Glue spray can for polyurethane discs (500ml)
19011	5 wax sticks for specimen mounting
19012	25m double sided adhesive roll (width: 310mm)
19031	Bottle 100g Canada Balsam for mounting to glass slides

## OBSERVING

Non destructive testing.

REF.	DESIGNATION
55035	Precision rule 400mm
57236	Precision rule 300mm
07010	500ml developer aerosol (white)
07011	500ml dye penetrant aerosol (red)
07015	400ml dye penetrant aerosol (Fluo)
07016	400ml developer aerosol (Fluo)
07020	500ml background colour aerosol (white)
07021	500ml magnetic particles aerosol

## PROTECTING

REF.	DESIGNATION
19071	Safety glasses
78001	Lab coat (blue) PRESI
78002	Lab coat (white) PRESI
19050	Box of 100 Latex gloves (Size S)
19051	Box of 100 Latex gloves (Size M)
19052	Box of 100 Latex gloves (Size L)
19053	Box of 200 Nitrile gloves (Size S)
19054	Box of 200 Nitrile gloves (Size M)
19055	Box of 200 Nitrile gloves (Size L)
19062	Self-adhesive Teflon coated fabric for lab bench protection, 1m x 2m (Lab'Board Protect)

## WEIGHING

REF.	DESIGNATION
70051	Precision (Kern) weighing machine-from 0 to 500 g. Accuracy 0.1 g
19061	Box of 500 pipettes 3/0.5ml Length 155mm
04901	Kit 25 syringes 50ml + 25 syringes 5ml for liquid resins

## ACCESSORIES FOR OPTICS (MICROSCOPE)

REF.	DESIGNATION
19030	100 glass slides 30 x 45 x 1.2mm
19021	100 glass slides 28 x 43 x 0.13mm
19063	Storage box in wood for 50 glass slides 30 x 45mm
19072	PRESI mod-white plasticine to use with Press'1, 200g
71505	Press'1-Levelling press for microscopy

## POSTERS

REF.	DESIGNATION
78032	Poster Polishing processes
78031	Poster Diagram steel/carbon

## POLISHER ACCESSORIES

REF.	DESIGNATION
57170	Waste recovery tray
57181	Set of 2 plastic bags for waste recovery tray
57182	Set of 5 filters + 1 retaining ring for waste recovery tray



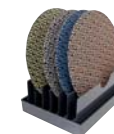
**Storage box (3 at 18 specimen)**  
Ref. 19005



**Electrical engraver with carbide tungsten point for specimen marking**  
Ref. 19020



**Top Quality storage cabinet 9 platens Ø 200 to 300mm, closing by sliding doors**  
Ref. 57157



**Draining board for plates Ø 200 to 300mm**  
Ref. 57155



**300 special wiping cloths (extreme softness, scratch free)**  
Ref. 19060



**Wall-mounted sample dryer**  
Ref. 57159



**Base-mounted sample dryer**  
Ref. 57160



**Absorbent roll for all liquids (46m x 41cm)**  
Ref. 19064



**Press'1-Levelling press for microscopy**  
Ref. 71505



**Waste recovery tray**  
Ref. 57170



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