



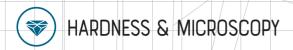


NEW WEBSITE

- New look
- New architecture
- E-shop for consumables
- MSDS free access
- News
- ... and much more!

WWW.PRESI.COM





THE RANGE OF THE HARDNESS TESTERS BY PRESI

OPTICAL QUALITY, RELIABILITY AND PRECISION

100% made in France, an original design, robustness and great technical capabilities.

FIND OUT THE NEW HZ RANGE P112 OF YOUR CATALOG

3 SEMI-AUTOMATIC HARDNESS TESTERS

HZ2-2 | HZ10-2 | HZ30-2

2 TABLES TO CHOOSE FROM



Fixed table



Manual table



HZ2-4 | HZ10-4 | HZ30-4 | HZ50-4

2 TABLES TO CHOOSE FROM

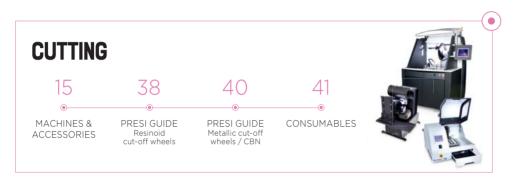


Motorized table Standard



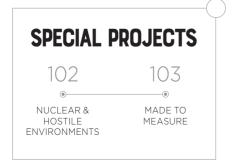
Motorized table Marble

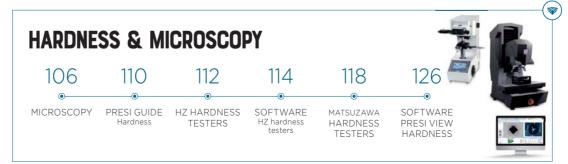
SUMMARY













EDITORIAL

INNOVATION AS A DEVELOPMENT STRATEGY

Our goal is to anticipate the expectations within our business segment, and innovation is the best way to respond to the challenges ahead.

This year, we continue to offer maximum support to our customers with regard to their material characterization methods. We offer solutions ranging from the most traditional ones, such as our metallographic reagents range, right through to the most advanced ones, including our range of hardness testers, which are entirely designed and manufactured by our teams.

All of this is possible due to frequent and regular open communication with our customers, as well as a voluntary investment policy. With a Research and Development department representing about 20% of our workforce, innovation at PRESI is everywhere. and we are encouraging our business partners, customers, suppliers and subcontractors to support us in this evolution.

Thanks to our different partnerships, our vision is clear: to increase the range and availability of tools which enhance our customers' development, wherever they are based.

Together, let's imagine tomorrow's market.

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.

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.



PRESI, EXPERTISE AND OUALITY, 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.





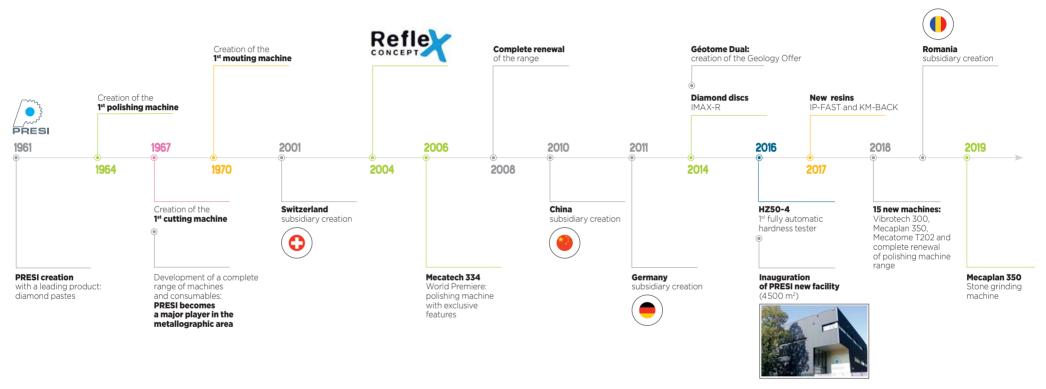




Mass production. Machine Assembly



PRESI HISTORY





THE PRESI BRAND









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.





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ROMANIA, 2018 MANAGING DIRECTOR: BOGDAN DINU

PRESI Metalografie SRL

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DISTRIBUTORS

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SOUTH KOREA - Seoul
TAIWAN - Hsinchu 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.

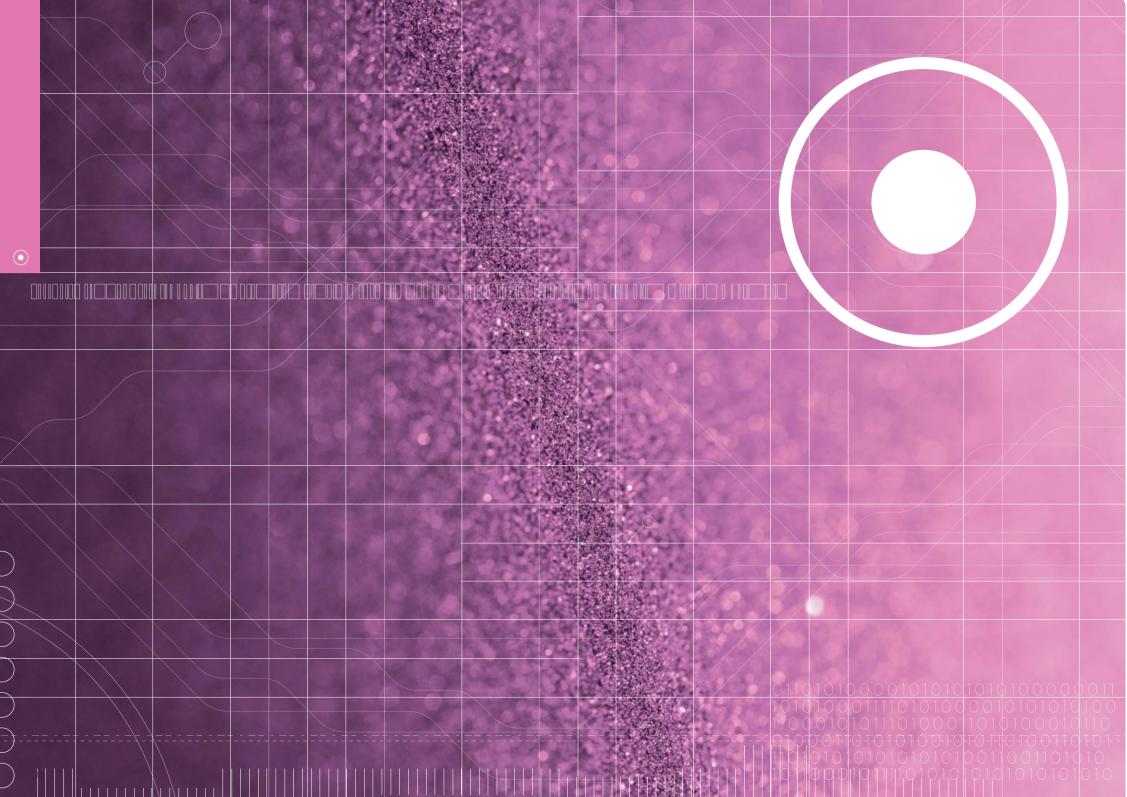
TO ANALYSE, TO OBSERVE, TO TEST: THE LAB, THE HEART OF OUR EXPERTISE.



FOR FURTHER INFORMATION

ON OUR TRAINING PROGRAMMES,

CONTACT US BY EMAIL 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 Metacome 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.

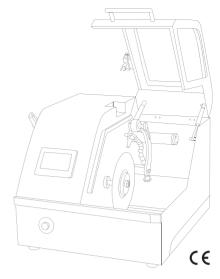
The cover, automatically locks as soon as the motor is switched on, and unlocks only when the cutting disc has completely stopped.











410mm (closed lid)



590mm



535mm



) 55kg



HOOD

Туре 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

12.7mm Arbor size

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

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

ERGONOMICS

Spray nozzle for cleaning Integrated

Internal lighting LED tube interior lighting IP68

ACCESSORIES

VICE



Mini screw vice

SAMPLE CHUCKS



V shaped sample chuck



Vice chuck for longitudinal cuts



Vice chuck for longitudinal cuts (length 53mm)



Chuck for small samples (vice type). 30mm max 40mm on request



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



Chuck for cylindrical sample



Irregular shaped sample chuck



Set of 5 Aluminium plates for samples sticking

60 x 25mm - Ref. 51162 40 x 25mm - Ref. 51163

FLANGES









Set of 2 flanges ø 50mm for wheel ø 100 to 150mm



Set of 2 flanges ø 75mm for wheel ø 150 to 200mm

OTHER ACCESSORIES

Set of 10 filters for T202

Download MECATOME T202 technical sheet



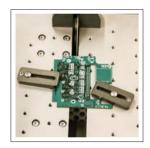
FLEXICUT

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









375mm (closed lid)



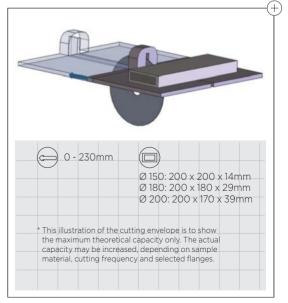
665mm



800mm



52kg



HOOD

Туре PETG enclosure with metal hinges

Safety Closure switch to cut off motor when hood opened

Fumes extraction outlet

MOTORIZATION - POWER SUPPLY

Power 575W

220 V / Single phase / 50 Hz-110 V / Single phase / 60 Hz Power supply

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

From 300 to 2.500 RPM Rotation speed

Option: slow speed kit from 100 to 1.200 RPM

12 7mm Arbor size

CONTROL

Control Interface Color touch control screen

Security Access Can activate password protection

CUTTING

Cutting method Manual or by gravity (Weight/counter-Weight)

Fixed or moving table options (Y axis) Type of table movement

for PCB sectioning

Y axis range Length of Y axis traverse - 230mm

X axis range 100mm X-axis movement of the sample carrier arm

Longitudinal movement table option for PCB cutting: Table dimensions

385 x 250mm

Fixed table option for PCB cutting: 430 x 520mm

Option table with longitudinal movement -Table material

micro-rollers

Sample carrier arm will accept a wide variety Holders

of holders

LUBRICATION - COOLING

Pump & tank Integrated - Capacity 2.8 L Type of lubrication Recirculating pump or drag feed

Method of directing A single alignable nozzle pumped coolant

Type of filtration Exchangeable paper filters

ERGONOMICS

Spray nozzle for cleaning Integrated

See FLEXICUT video link



ACCESSORIES

VICE



Mini screw vice

TABLES AND POSITIONING



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



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

OTHER ACCESSORIES

Self lighting LED

on magnetic base

T202/Flexicut

Set of 10 filters for Flexicut

Low speed kit 100 to 1 200 RPM

SAMPLE CHUCKS



V Shaped sample chuck Ref. 51715



Vice chuck for longitudinal cuts



Vice chuck for longitudinal cuts (length 53mm)



Chuck for small samples (vice type). 30mm max 4 mm on request







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



Chuck for cylindrical sample



Irregular shaped sample chuck



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



Set of 2 flanges Ø 50mm for wheel Ø 100 to 150mm



Set of 2 flanges Ø 75mm for wheel Ø 150 to 180mm

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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.

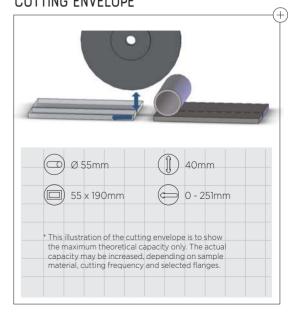
There are three modes of cutting:

- 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.







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

220V / Single phase / 50Hz Power supply

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

12 7mm Arbor size

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

Automated regulation optimised to the motor ratings Cutting control

Y axis range 251mm Y-axis movement of the table

X axis range Optional 100mm X-axis movement of the table

Z axis range

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

Sample carrier arm will accept a wide variety Holders

of holders

LUBRICATION - COOLING

Integrated - Capacity 10L Pump & tank

Option: 25L external pump and tank - Ref. 51440 Type of lubrication Internal recirculating pump or optional external recirculating

Method of directing 6 nozzles in the blade quard pumped coolant

Integrated: filtration grid - External: 100µm washable Type of filtration

filter cloth

ERGONOMICS

LED Internal lighting 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



Quick clamping vice left side Height 32mm Opening 50mm



Mini screw vice



Quick clamping vice for long sample Height 45mm Opening 150mm



holders Ref 50613



Kopal holding Ref 50616

OTHER **ACCESSORIES**

SAMPLE CHUCKS



V Shaped sample chuck



Vice chuck for longitudinal cuts



Vice chuck for longitudinal cuts (length 53mm)



Chuck for small samples (vice type). 30mm max 40mm on request



chuck



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



Chuck for cylindrical sample



Irregular shaped sample chuck



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)

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

Set of stainless steel flanges Ø 35mm for wheels Ø 75 to 100mm

TABLES & POSITIONING







Manual traversing additional table. Right side movement Ref. 51355



Rotating vice Ref. 51323

Positioning laser Ref 51431

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.

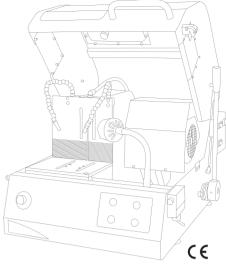
It provides maximum flexibility, with a cutting table which allows clamping of the sample in either the vertical or the horizontal plane. In this way it can adapt to all sample shapes. Can be used with both vice-type clamping systems and KOPAL.

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.







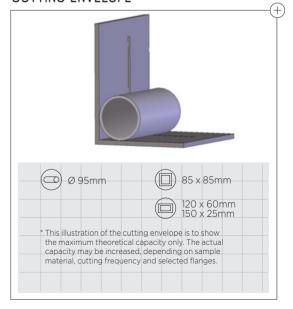


520mm (closed lid)

820mm

610mm

110kg



HOOD

Туре PETG enclosure with metal hinges

Safety Interlock switch keeps hood locked during cutting

MOTORIZATION - POWER SUPPLY

Nominal power S1 2200W 3200W Nominal power S3

Power supply 220V / Single phase / 50Hz

Control of the motor Frequency inverter

CUT-OFF WHEELS

Resin bonded and metal bonded Type of cut-off wheels

Cut-off wheel size range 250 and 300mm

3.200 or 3.800 RPM, option variable speed Rotation speed

1.000 RPM to 4.000 RPM

Arbor size 25.4mm

CONTROL

Control Interface Push buttons

CUTTING

Manual Cutting modes

Type of table Treated steel table in L - 240mm wide Holders Vices in horizontal or vertical position-Kopal

LUBRICATION - COOLING

Pump & tank External - 25L

Type of lubrication External recirculating system

Method of directing 2 alignable nozzles pumped coolant

Type of filtration 100µm washable filter cloth

ERGONOMICS

LED Internal lighting Spray nozzle for cleaning Integrated

ACCESSORIES

STAINLESS STEEL VICES AND HOLDERS



Left quick clamping vice Height 45mm Ref. 51213



TABLES & POSITIONING

Manual traversing additional table.

Left side movement

Right quick clamping vice Height 45mm





Kopal holding

OTHER ACCESSORIES



Box of Kopal

holders





Base Cabinet Width 770mm x depth 880mm x height 855mm

Variable speed option (1.000 RPM to 4.000 RPM) T260

Set of 3 filters for coolant tank T260

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.

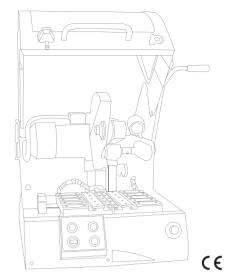
The table (with interchangeable stainless steel plates) is compatible with most readily available clamping systems (including vice-type rapid clamping systems and KOPAL).

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.









↑ 660mm (closed lid)



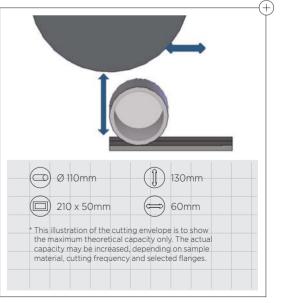
880mm



660mm (+ 120mm for the swinging arm)



120kg



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 2 ports in the wheel guard

pumped coolant 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

See MECATOME ST310 video link



ACCESSORIES

STAINLESS STEEL VICES AND HOLDERS



Left quick clamping vice Height 45mm Ref. 50905



Right quick clamping vice Height 45mm Ref. 50909



Left and right quick clamping vices Height 70mm



Right screw clamping vice Height 45mm



Left screw clamping vice Height 45mm



Box of Kopal holders



Kopal holding Ref. 50616

TABLES & POSITIONING



Manual traversing additional table. Left side movement Ref. 51610

OTHER ACCESSORIES



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



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



RANN 1

Kit of V positioning supports Ref. 50370

MECATOME T300

MEDIUM SIZE MANUAL AND AUTOMATIC CUTTING MACHINE

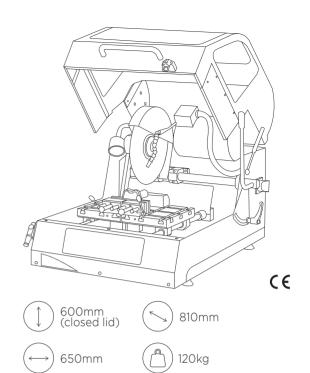
Ref. 51600

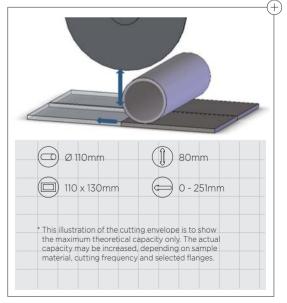
The MECATOME T300 is a powerful and robust machine, designed to cut sections from sizeable parts and from samples which are longer in length, from a wide range of materials.

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).







HOOD

Туре 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

380V / Three-phases / 50Hz Power supply

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

Manual chop action or automated Y feed with optional Cutting modes

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

Any sample fixturing system compatible Holders

with a 12mm "T" slot bed

LUBRICATION - COOLING

Pump & tank External - 60L

Type of lubrication External recirculating system Method of directing 2 ports in the wheel guard

pumped coolant 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 quick clamping vice Height 45mm



Right quick clamping vice Height 45mm



Left and right quick clamping vices Height 70mm



Right screw clamping vice Height 45mm



Left screw clamping vice Height 45mm



Box of Kopal holders



Kopal holding

TABLES & POSITIONING



Manual traversing additional table. Right side movement

OTHER ACCESSORIES



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



Set of 3 filters for recirculating tank ST310/T330/T300





Kit of V positioning supports

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.

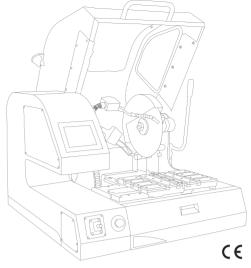
There are four cutting modes:

- 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.







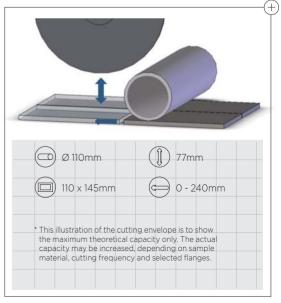
↑ 629mm (closed lid)

844mm

 $\left(\longleftrightarrow\right)$

→) 894mm

190kg



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

380V / Three-phases / 50Hz Power supply

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

Manual chop action or automated Y feed with optional Cutting modes

pulse action

Table automation Motor driven Y axis From 0.01 to 3mm/s Y axis speed

Automated regulation of Y axis Cutting control

feed rate Y axis travel 240mm

X axis travel Option: 100mm

Serial cutting Option (motorized X table) Left table: 192 x 230mm Table dimensions Right table: 192 x 230mm

Positioning laser Option

Distance between cut-off wheel and table 77.5mm (with a Ø 300mm wheel)

Treated aluminium table with stainless Table type

steel "T" slots

Any sample fixturing system compatible Holders

with a 12mm "T" slot bed

LUBRICATION - COOLING

Pump & tank External - 60L

Type of lubrication External recirculating system Method of directing 2 ports in the wheel quard

2 alignable nozzles mounted on the wheel assembly pumped coolant

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

ACCESSORIES

STAINLESS STEEL VICES AND HOLDERS



Left quick clamping vice Height 45mm



Right quick clamping vice Height 45mm



Left and right quick clamping vices Height 70mm



Right screw clamping vice Height 45mm



Left screw clamping vice Height 45mm



Box of Kopal holders



Kopal holding

TABLES & POSITIONING



Manual traversing additional table. Left side movement Ref 51610

Motorized transversal table

Ref. 50305

Positioning laser Ref. 51430

OTHER ACCESSORIES



Base Cabinet Width 1000mm x depth 880mm x height 855mm Ref. 51010



Set of 3 filters for recirculating tank ST310/T330/T300



Kit of V positioning supports

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.

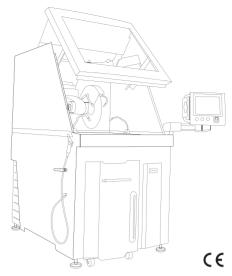
Optional Extras:

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









1910mm (closed lid) (F)

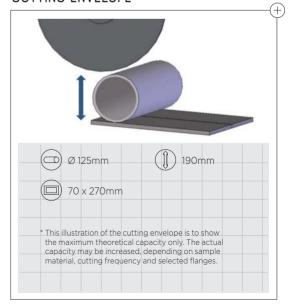
1600mm

2 380mm (open lid)

(closed lid)

) 750kg

1620mm (open lid)



CHARACTERISTICS EVO 400

HOOD

Metal frames & PETG Type Motorised opening and closing Safety Locked during motor rotation

Fumes extraction outlet 76mm

MOTORIZATION - POWER SUPPLY

7500W Nominal power S1 Nominal power S3 11000W

380V / Three-phases / 50Hz Power supply

Control of the motor Frequency control

CUT-OFF WHEELS

Type of cutting disk Resinoid & diamond Up to 400mm Size of cutting disk 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 / Modbus

Machine control

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 Left table 300 x 600mm. Right table 250 x 600mm

movement table With Y axis option - Manual longitudinal

movement table

Positioning laser Option

Distance between cut-off wheel and table 200mm

Treated aluminium table, interchangeable stainless Type of table

steel palettes

Slotted T table (12mm) accepting all clamping systems Holders

available on the market

Left table 300 x 300mm. Right table 300 x 300mm

LUBRICATION - COOLING

Pump & tank External - 200L

Type of lubrication Pump

Method of directing Cutting disk housing and 2 mobile sprinklers on the table pumped coolant

Type of filtration 100um 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 quick clamping vice Height 45mm



Right quick clamping vice Height 45mm



Left and right quick clamping vices Height 70mm



Left and right quick clamping vices Height 90mm



Ref 50617



Box of Kopal holders Ref. 50613



Kopal holding Ref 50616



Right screw clamping vice Height 45mm



Left screw clamping vice Height 45mm



Y axis option - Manual longitudinal movement Ref. 50411

OTHER ACCESSORIES



Kit of V positioning supports



Positioning laser Ref. 50412



2 filters for recirculating tank

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).

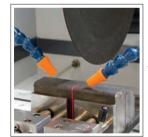
Its ergonomic design, with a motorised hood and multilingual, coloured, touch screen simplifies the user-machine interface.

Optional Extras:

Positioning Laser.

• Manual transverse movement table (X axis) to assist with lateral adjustment of the simple, and enable parallel sectioning

• Manual longitudinal movement table (Y axis) to increase cut capacity









1910mm (closed lid)

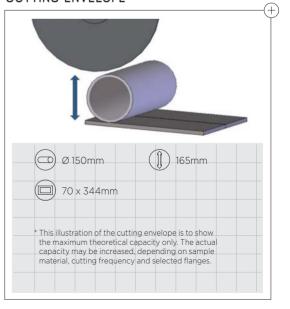
1600mm

2380 mm (open lid)

1140mm (closed lid) 1620mm

750kg

(open lid) CUTTING ENVELOPE*



HOOD

Metal frames & PETG Type Motorised opening and closing Safety Locked during motor rotation

Fumes extraction outlet 76mm

MOTORIZATION - POWER SUPPLY

11000W Nominal power S1 Nominal power S3 18500W

380V / Three-phases / 50Hz Power supply

Control of the motor Frequency control

CUT-OFF WHEELS

Type of cutting disk Resinoid & diamond Up to 450mm Size of cutting disk 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 / Modbus

Machine control

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 Left table 300 x 600mm. Right table 250 x 600mm

Option

movement table

With Y axis option - Manual longitudinal

movement table

Positioning laser

Distance between cut-off wheel and table 200mm

Treated aluminium table, interchangeable stainless Type of table

steel palettes

Slotted T table (12mm) accepting all clamping systems Holders

available on the market

Left table 300 x 300mm. Right table 300 x 300mm

LUBRICATION - COOLING

Pump & tank External - 200L

Type of lubrication Pump

Method of directing Cutting disk housing and 2 mobile sprinklers on the table pumped coolant

Type of filtration 100um washable textile filter

ERGONOMICS

Internal lighting LED Spray nozzle for cleaning Integrated

See EVO 450 video link



ACCESSORIES

STAINLESS STEEL VICES AND HOLDERS



Left quick clamping vice Height 45mm



Right quick clamping vice Height 45mm





Left and right quick clamping vices Height 70mm



Left and right quick clamping vices Height 90mm



Chain clamp





Box of Kopal Ref. 50613



Kopal holding



Right screw clamping vice Height 45mm



Left screw clamping vice Height 45mm

X axis option - Manual transverse movement table Ref. 50410

Y axis option - Manual longitudinal movement table

OTHER ACCESSORIES

Kit of V positioning supports









Positioning laser



2 filters for recirculating tank

^{*} Customisable tables and stroke lengths.

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.

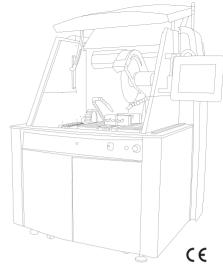
Its ergonomic design, with a motorised hood and a multilingual, coloured, touch screen simplifies the user-machine interface.









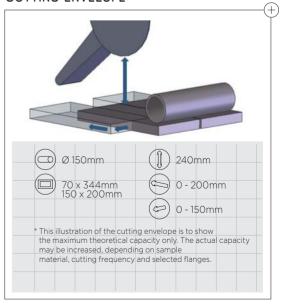


1955mm (closed lid) 2430mm (open lid)

1815mm

1660mm

1100kg



HOOD

Metal frames & PETG Type Motorised opening and closing Safety Locked during motor rotation

Fumes extraction outlet 76mm

MOTORIZATION - POWER SUPPLY

11000W Nominal power S1 Nominal power S3 18500W

380V / Three-phases / 50Hz Power supply

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 / MODBUS

Machine control

CUTTING

Cutting method Assisted, automatic, programmed, by impulse

Y axis table feed and Work piece feed 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

Left table: 295 x 600mm Dimensions tables Right table: 295 x 600mm*

Positioning laser

Table type Treated aluminium table with interchangeable stainless steel

Any sample fixturing system compatible with a 12mm Holders

"T" slot bed

LUBRICATION - COOLING

External-300L Pump and tank Type of lubrication By Pump

2 ports in the wheel guard Position of lubrication-Cooling

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 quick clamping vice Height 45mm



Right quick clamping



vice Height 45mm



Left and right quick clamping vices Height 70mm



Left and right quick clamping vices Height 90mm



Chain clamp





Box of Kopal Ref. 50613



Kopal holding



Right screw clamping vice Height 45mm



Left screw clamping vice Height 45mm

OTHER ACCESSORIES





Kit of V positioning supports

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 cuts most materials.

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

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



4500 SAW Ref. 52040 (€



860mm



L: 590mm W: 480mm



6500 SAW _{Ref. 52050} C€



1200mm







3400 SAW _{Ref. 52030} C€







L: 450mm W: 290mm



3500 BASE SAW _{Ref. 52010} C €





L: 410mm W: 345mm



3500 PREMIUM SAW Ref. 52020 C€





W: 345mm

CHARACTERISTICS

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

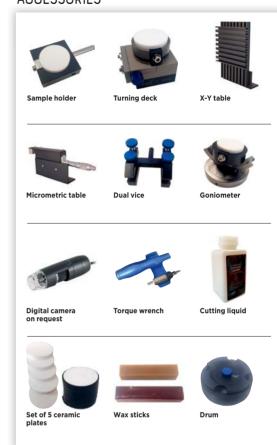
CONSUMABLES

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

52301 33 type winder



ACCESSORIES



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

See DIAMOND WIRE SAWS video link

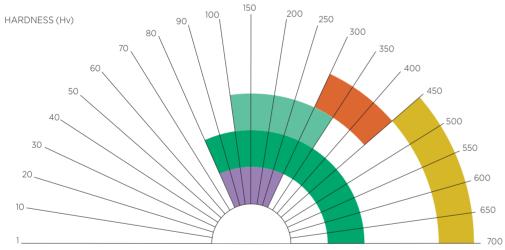


RESINOID CUT-OFF WHEELS

FERROUS MATERIALS

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





WHEELS RECOMMENDED MATERIALS

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

STANDARD RESINOID CUT-OFF WHEELS

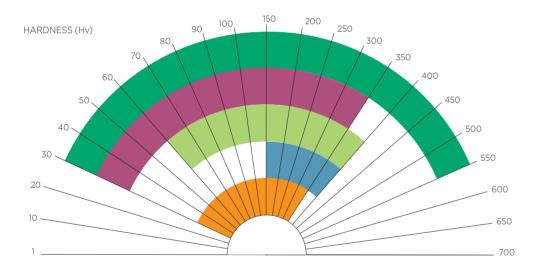
Pack of 10

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

NON-FERROUS MATERIALS

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





WHEELS DECOMMENDED MATERIALS

W	HEELS	RECOMMENDED MATERIALS
	s	All types of metallic materials.
	UTW	All types of metallic materials.
	MNF	Aluminium, copper and alloys, non ferrous metals, titanium and alloys.
	т	Titanium, titanium alloys, non ferrous metals.
	F	White, grey and spheroidal graphite cast iron, titanium and alloys.
	С	Aluminium, copper and alloys, non ferrous metals, titanium and alloys.

STANDARD RESINOID CUT-OFF WHEELS

	REF.	DESIGNATION	ABRASIVE	Ø	
S	01060	Cut-off wheel	SiC	Ø 180 x 0.5 x 25.4mm	
WTO	01100	Cut-off wheel	SiC	Ø 180 x 0.5 x 25.4mm	
	01101	Cut-off wheel	0.0	Ø 200 x 0.5 x 25.4mm	
	01005	Cut-off wheel		Ø 200 x 1.6 x 25.4mm	
	01017	Cut-off wheel		Ø 250 x 1.6 x 32mm	
	01023	Cut-off wheel		Ø 300 x 2 x 32mm	
AN H	01031	Cut-off wheel	SiC	Ø 350 x 2.5 x 32mm	
	01028	Cut-off wheel		Ø 400 x 3 x 32mm	
	01037	Cut-off wheel		Ø 450 x 3.5 x 32mm	
	01066	Cut-off wheel		Ø 500 x 3 x 32mm	
	01071	Cut-off wheel		Ø 250 x 1.6 x 32mm	
	01072	Cut-off wheel		Ø 300 x 2 x 32mm	
-	01073	Cut-off wheel	SiC	Ø 350 x 2.5 x 32mm	
	01047	Cut-off wheel	SIC	Ø 400 x 3 x 32mm	
	01048	Cut-off wheel		Ø 450 x 3.5 x 32mm	
	01065	Cut-off wheel		Ø 500 x 3 x 32mm	
	01018	Cut-off wheel		Ø 250 x 1.6 x 32mm	
ш	01024	Cut-off wheel	SiC	Ø 300 x 2 x 32mm	
O	01041	Cut-off wheel	SiC	Ø 100 x 0.3 x 12.7mm	

NEW ULTRA THIN CUT-OFF WHEELS UTW

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



Metallic cut off-wheels 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	
CBN	02065	CBN cutting disc	Ø 150 x 0.6 x 12.7mm	
Ö	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
껕	02037	Cut-off wheel	Ø 150 x 0.6 x 12.7mm
_	02067	Cut-off wheel	Ø 175 x 0.7 x 12.7mm
	02041	Cut-off wheel	Ø 200 x 0.9 x 32mm
	02045	Cut-off wheel	Ø 250 x 1.2 x 32mm
	02049	Cut-off wheel	Ø 300 x 1.2 x 32mm

LR

Resin bond

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



	REF.	DESIGNATION	Ø
	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
Σ	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

Metallic bond

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



LM+ Metallic bond

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



CUTTING

CONSUMABLES

ANTIRUST COOLANT

The quality of the coolant is part of the cut quality and efficiency. Our coolant is corrosion protective (machine & specimen).

The anti-rust coolant is available in 1.5L or 10L containers (mixing ratio: 4% in water).

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



ANALOGICAL REFRACTOMETER

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

REF.	DESIGNATION	
19074	Analogical refractometer BRIX 0-10	



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	



ANTISEPTIC LIQUID

500CC antibacteria bottle

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

01093 500CC antibacteria	cteria bottle
01097 Il antibacteria	
01037 IE diffibacterio	a bottle
01098 5L antibacteria	a drum

DRESSING STICK FOR DIAMOND DISC

REF. DESIGNATION

51164 Dressing stick for diamond disc



REDUCTION RINGS*

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

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

* Other diameters on request.





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.





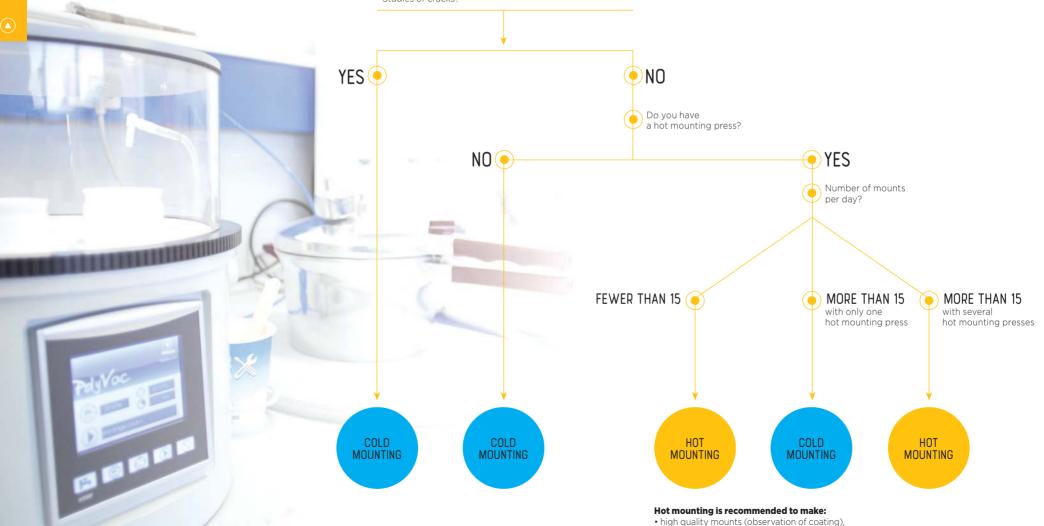
COLD OR HOT MOUNTING?

MOUNTING PRESIGUIDE

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?





- hardness measurements,
- · polishing in individual pressure.

COLD MOUNTING

PRESSURE VESSEL FOR MOUNTING **UNDER PRESSURE**

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.





220mm









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.



Ref. 53600

protection sheets 50 pipes 50 plastic

ACCESSORIES

50 bed protection sheets Ref 53605

Pipes and plastic nozzles (set of 50)

See POLYVAC video link



TRANSPARENT

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

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

*depends on the volume



IP RESIN

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

IP-FAST RESIN

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

MA2+ RESIN

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

2S RESIN

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

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

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

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

OPAQUE RESINS

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

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

KM-U RESIN

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

KM-V RESIN

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

KM-B RESIN

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

KM-EM RESIN

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

KM-CO RESIN

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

KM-BACK RESIN

REF.	DESIGNATION		
04060	Pack 1kg powder + 500 CC catalyst*		
04061	Powder: 1kg		
04062	Catalyst: 500 CC		
* Packs of KM-LL / KM-V / KM-B / KM-EM / KM-CO and KM-BACK are delivered with:			

¹⁰ plastic cups and 10 stirrinbg sticks. DYES (LIQUID) FOR KM-U

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

KM-BACK

ITS MAIN ADVANTAGE: ACRYLIC RESIN 100% DISSOLUBLE

KM-BACK acrylic resin was designed to get back rare and unique samples. Those who, after analysis and control,

need to be preserved in their entirety and reused for other purposes. The KM-Back resin has the particularity

to dissolve completely in acetone. Its hardness is 83 ShD.

It polymerizes quickly, between 10 and 15 minutes.

Polymerization between 10 and 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.











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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



Detachable base. Reusable.

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

ACCESSORIES

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



MOUNT RELEASE AGENT



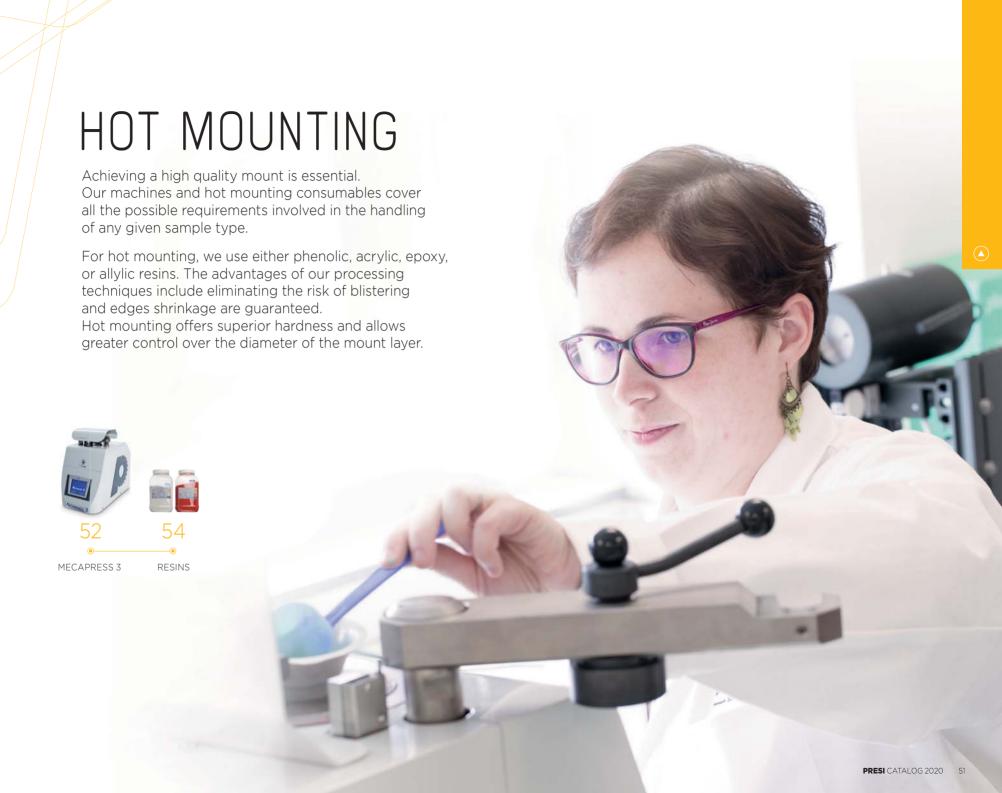
Just spray into the cold-mounting molds.

DESIGNATION

Silfree-Jet* mould removal aerosol

* Non-disruptive mold release spray





CAPRESS 3

THE HOT MOUNTING PRESS

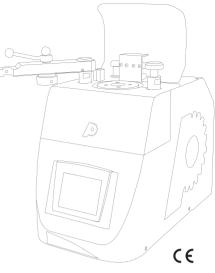
Ref. 53500

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.



R&D mode	Ø 30
32 °C	170 °C
0 s	360 s
0 s	210 s
0 daN	1200 daN





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 set



Mould set

Ø 50mm

Mould set





the time. A gesture for the environment! No more problem

of limestone Water saving

Ref. 53515



Ultra-quiet air compressor, 24L tank. Dimensions (WxDxH): 400x400x600mm



Refill cartridge for anti chalk system Mecapress 3



1L coolant liquid for recirculating tank Mecapress 3 Ref. 53516

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
------	-------------

03208 Silfree-Jet* mould removal aerosol

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

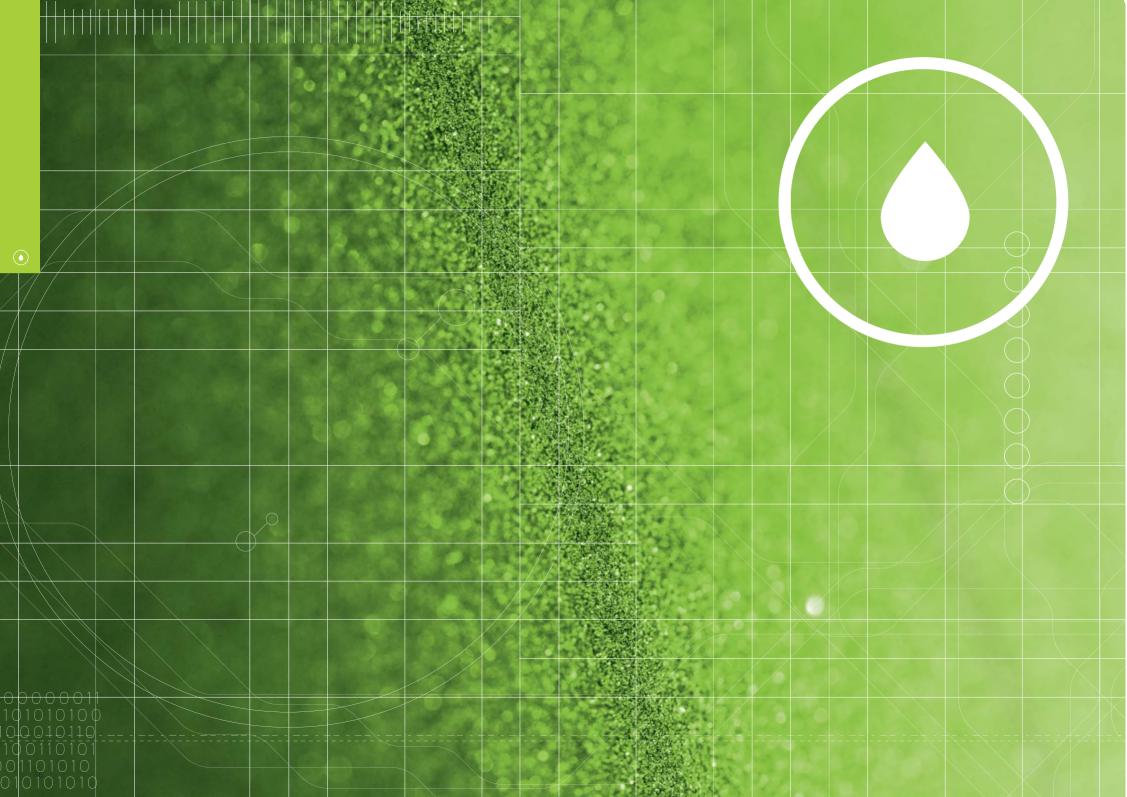
REF.	DESIGNATION		
03005	Pack 2.5kg	Allylic fiber glass	
03106	Pack 10kg	Allylic fiber glass	
03157	Pack 20kg	Allylic fiber glass	

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	



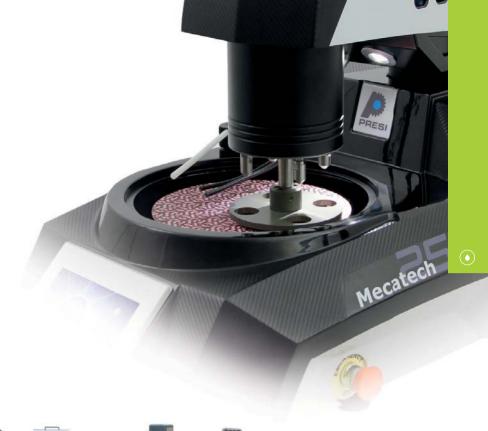
^{*} Non-disruptive mold release spray.



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.





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.







- 400mm
- 400mm
- 20kg
- 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 platten (safety)	✓
Progressive acceleration	✓
Transparent protection hood	✓
Splash guard	✓
Simplified maintenance and after sales use	•
Power supply	230V / 50-60Hz



Download LE CUBE technical sheet



THE MANUAL POLISHING MACHINE RANGE

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 CF certified.







PLATEN DIAMETERS: 200 TO 250MM







PLATEN DIAMETERS: 250 TO 300MM







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					
Rotation direction	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					
Frequency	50 - 60 Hz					
Max. current	8 A	8 A	8 A	8 A	8 A	8 A
Water inlet	Ø 12mm					
Water outlet	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 **230mm.** Ref. 56066 **250mm.** Ref. 56062 **300mm.** Ref. 57163



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

OTHER ACCESSORIES



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



Grinding recirculation tank with 5µ filter Ref. 67130



Set of 2 removable bowls

ø 250mm. Ref. 66500

ø 300mm. Ref. 66505

Accessories 100% compatible with the older generation

of MINITECH



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

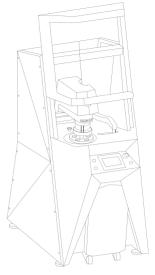
Powerful and fast, it saves a lot of time and uses less consumables.

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









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2300mm (open hood) 1850mm (closed hood)





500kg

POLISHING HEADS

GRINDING WHEEL CHARACTERISTICS

356mm

5 500W 9 000W

1000 to 2000 RPM Clockwise and counter-clockwise

400V three-phases

50Hz

21A

5 - 10 bars

Ø 10mm

Diameter of the grinding wheel

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

Rotation speed

Direction of rotation Nominal power S1

Nominal power S3 Constant torque

Voltage

Frequency

Max. current

Air pressure

Compressed air

Cleaning head shower Integrated recycling system

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: 150 mm	✓

MACHINE ACCESSORIES

	mie nooeoome	•
CLAMP	ING 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







REF.	DESIGNATION		GRIT	
01052	Stone arinding discs	Ø 356mm	150	



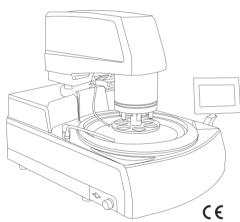


MECATECH 334 SPC

SINGLE STATION, AUTOMATIC POLISHING MACHINE

Ref. 67960

Equipped with a \varnothing 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.



(1) 640mm

7

) 750mm

(<u>^</u>) 75k

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

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 AUTOMATIC POLISHING MACHINE RANGE

Equipped with platens from Ø200 to 300mm, the new range of MECATECH automatic polishing machines has the most advanced

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: 200 TO 250MM







PLATEN DIAMETERS: 250 TO 300MM





CHARACTERISTICS

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 to 250mm	200 to 250mm x 2	250 to 300mm	300mm
Rotation speed	20 to 700 RPM				
Rotation direction	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				
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				
Frequency	50 - 60Hz				
Max. current	8A	8A	8A	8A	8A
Air pressure	5 - 10 bars				
Water inlet	Ø 12mm				
Water outlet	Ø 32mm				
Compressed air	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				
Rotation direction	Clockwise and counter-clockwise				
Motor power	180W	180W	180W	270W	270W
Force per specimen	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	~	V	~	~	~
50mm lowering and raising of the polishing head	~	~	✓	✓	-
Automatic locking of the polishing head	•	~	~	~	~
200cc (x2) lubricant included in the polishing head	~	~	✓	✓	✓
Sweeping function	-	-	-	-	~

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.
- LED illuminated display indicates the bottle in operation.
- Colloidal silica distribution with automatic rinsing function, no risk of crystallisation.



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)

			250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
SPECIME	EN HOLDERS FOR CENTRAL	PRESSURE POLISHING	200 07 1	200 0.0	200 2.0		
57120	Specimen holder Ø 120mm	for 3 samples Ø25 to 32 mm	-	V	~	-	-
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	-	V	~	~	~
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		-	~	~	✓	~
0050045							
	EN HOLDERS FOR INDIVIDUA			_	_	_	_
57142	Specimen holder Ø 140mm	for 4 samples Ø30mm	J	-	-	_	-
57141 57144	Specimen holder Ø 150mm Specimen holder Ø 150mm	for 4 samples Ø40mm 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	-	<i>y</i>	V	y	-
67833	Specimen holder Ø 160mm	for 6 samples Ø40mm		<u> </u>	J	<u> </u>	_
57143	Specimen holder Ø 170mm	for 3 samples Ø50mm	_	V	V	-	
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		_	_	_	J
67836	Specimen holder Ø 200mm	for 8 samples Ø50mm	-	-	-	-	Ž
	TION RINGS FOR SPECIMEN I		_				
67850	1 reduction ring	Ø 50mm> Ø 25mm	_	~	y	~	~
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	-	~	~	V	V
67856	1 reduction ring	Ø 40mm> Ø 25mm	J	V	V	~	V
67857	1 reduction ring	Ø 40mm> Ø 25.4mm	~	~	~	~	V
67858	1 reduction ring	Ø 40mm> Ø 30mm	J	V	V	V	V
67859	1 reduction ring	Ø 40mm> Ø 31.7mm	✓	~	~	V	~

SPECIMEN HOLDERS FOR CENTRAL PRESSURE POLISHING



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



Specimen holder Ø 160mm Specimen holder Ø 140mm



Specimen holder Ø 160mm



Blank specimen holder Ref. 57105



Specimen holder Ø 160mm annular holding Ref. 57106



Specimen holder Ø 160mm annular holding



Compulsory hooking system



Levelling press for samples

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 Specimen holder Ø 180mm



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



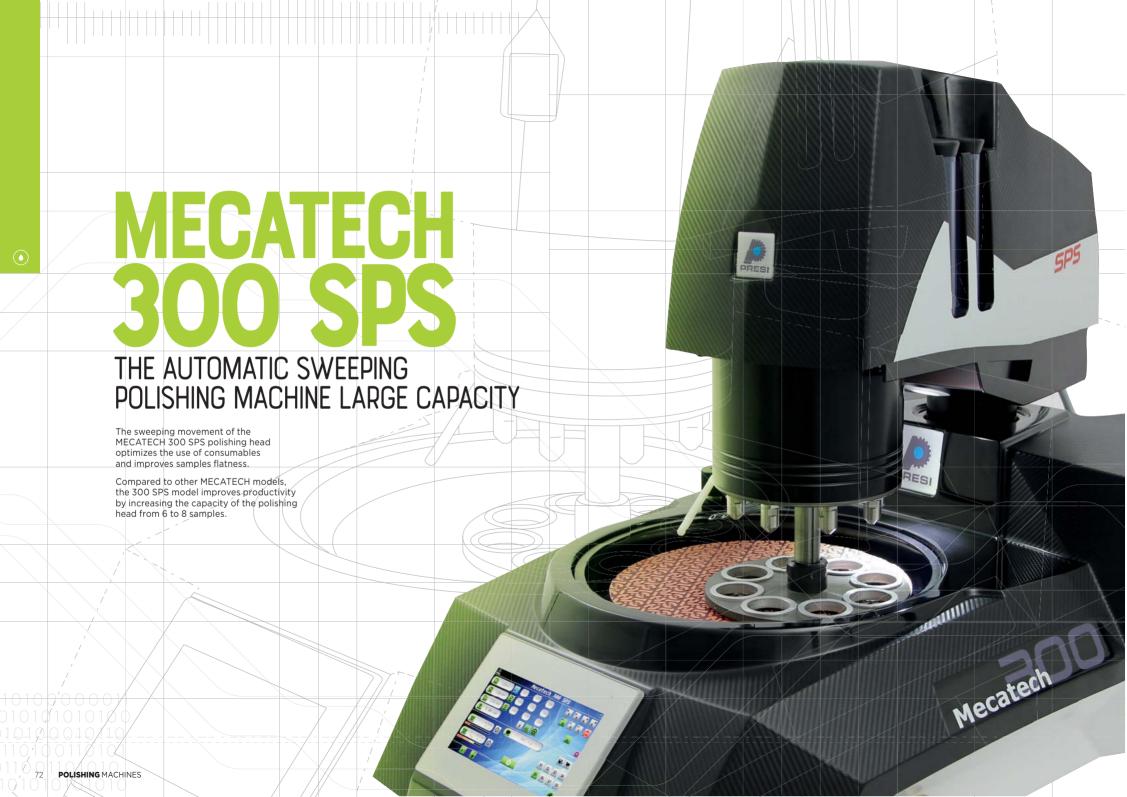
Special individual pressure plate for thin blade

REDUCTION RINGS FOR SPECIMEN HOLDERS









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. The hood only exists in black color.

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 EOUIPMENT!

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



VIBROTECH 300

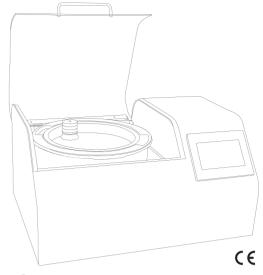
THE AUTOMATIC VIBRATION POLISHING MACHINE

Ref. 68100

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

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



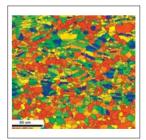


676mm (open hood) 396mm (closed hood)









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





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.
- 21 glass beaker.







400mm



) 14kg



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.
- Programmation 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 FC standards.





133mm



305mm



440mm



20kg



COMPLEMENTARY EQUIPMENTS



ELECTER

Ref. 58100

260mm

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

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



Strengthened transport case

ABRASIVE PAPERS ADHESIVE Ø 32MM

REF.	GRIT
Bag of 10	0
14010	P 60
14000	P 100
14001	P 120
14002	P 180
14003	P 240
14004	P 320
14005	P 400
14006	P 600
14007	P 800
14008	P 1000
14009	P 1200
14011	P 2400
14012	P 4000

POLISHING CLOTHS Ø 32MM

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

ABRASIVE PAPERS ZR+ Ø 32MM

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

ULTRASONIC CLEANER

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



CHARACTERISTICS

OHAN	AUTERISTIOS		
REF.	DESIGNATION	TANK DIMENSIONS	CAPACITY
61101	Ultrasonic cleaner	190 x 85 x 60mm	0.81
61121	Basket for tank 0.8I		
61102	Ultrasonic cleaner	151 x 137 x 100mm	1.751
61122	Basket for tank 1.75I		
61103	Ultrasonic cleaner	240 x 137 x 100mm	2.751
61123	Basket for tank 2.75l		
61104	Ultrasonic cleaner	240 x 137 x 150mm	4.251
61124	Basket for tank 4.25l		
61105	Ultrasonic cleaner	300 x 151 x 150mm	5.751
61125	Basket for tank 5.75l		
61106	Ultrasonic cleaner	300 x 240 x 150mm	9.51
61126	Basket for tank 9.5I		
61107	Ultrasonic cleaner	300 x 240 x 200mm	12.751
61127	Basket for tank 12.75I		
61108	Ultrasonic cleaner	505 x 300 x 200mm	281
61128	Basket for tank 28I		

COMPLEMENTARY EQUIPMENTS













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

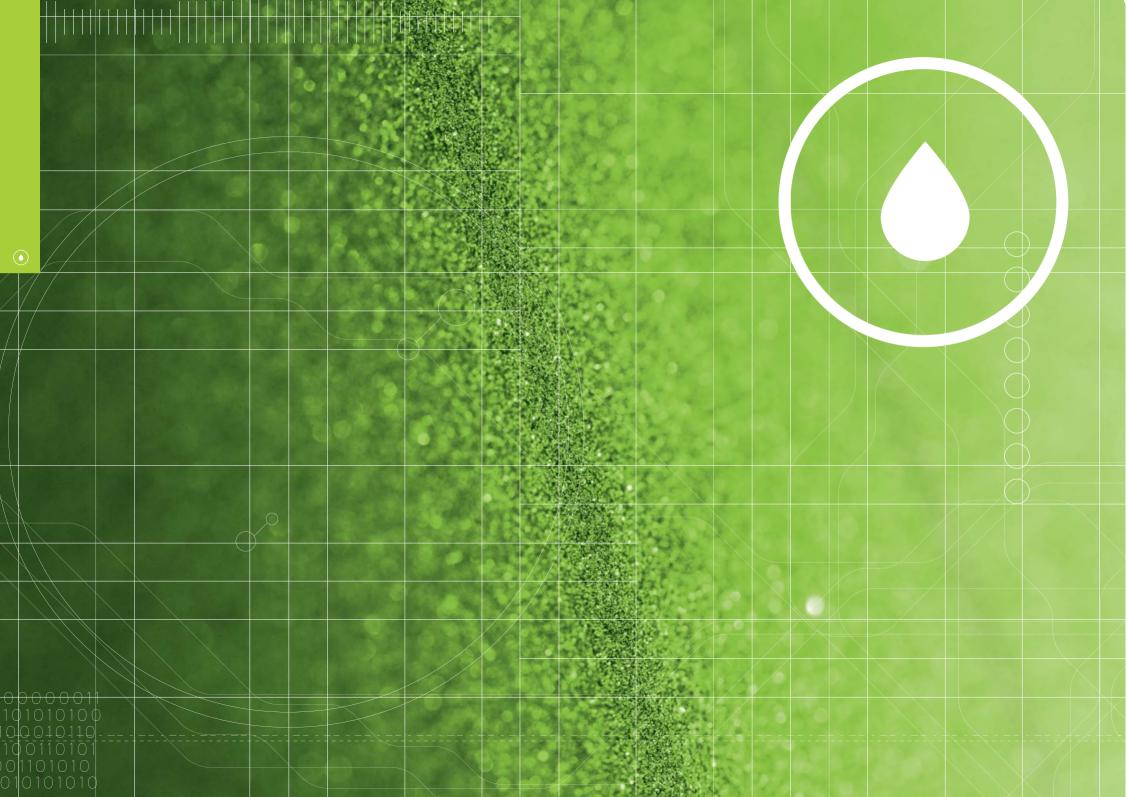
Ø 3 clamp for HG 200 Ref. 90060

HG 200 Straight end piece HG 200 Ref. 90052

KC 300 45° angle end piece

RG01 speed reduction gear (1/4)

Disc holder (set of 3) Ø 32mm



CONSUMABLES FROM GRINDING TO SUPER-FINISHING

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

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

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



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!







TIME SAVING

NO TEDIOUS REMOVAL OF ADHERED SURFACES





ADAPTATION DEVICES

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

REFLEX FIX



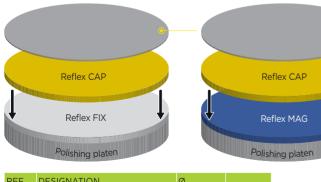
Consumables adapted to Reflex FIX:

- NAC abrasive papers
- I-MAX R diamond discs
- MED R polishing discs
- PAD-Mag polishing cloths
- Reflex CAP

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

REFLEX CAP

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



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



Non-adhesive device AD/AC

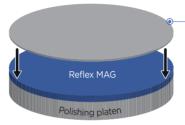
Adhesive device fixed on the polishing platen. It allows to use adhesive consumables with strong glue and to remove them without leaving any traces of glue.

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

REFLEX MAG

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

Ø 300mm



Consumables adapted to Reflex MAG:

- I-MAX R diamond discs
- MED R polishing discs
- PAD-Mag polishing cloths
- REF.
 DESIGNATION
 Ø

 24036
 1 Reflex MAG
 Ø 200mm

 24038
 1 Reflex MAG
 Ø 250mm

MAGNETIC FIX

24039 1 Reflex MAG

Consumables adapted:

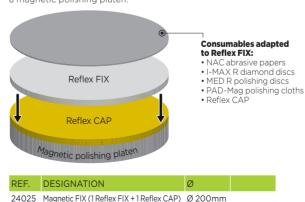
• Papers and/or adhesive

Tissediam

clothes

• ZR+

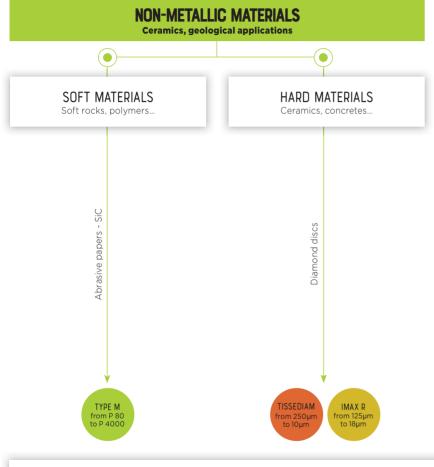
The Magnetic FIX is a device that allows the use of Reflex consumables on any polishing machine equipped with a magnetic polishing platen.

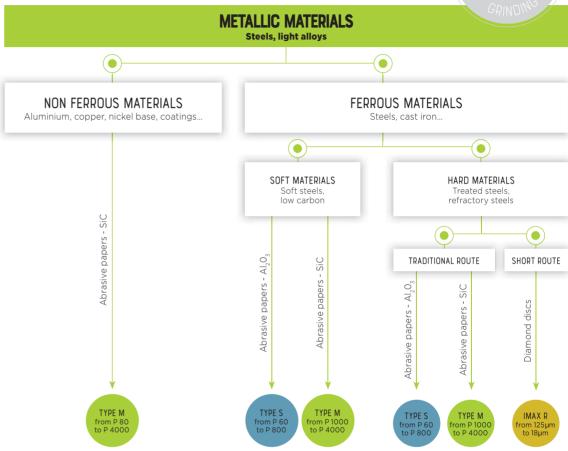


24026 Magnetic FIX (1 Reflex FIX +1 Reflex CAP) Ø 250mm 24027 Magnetic FIX (1 Reflex FIX +1 Reflex CAP) Ø 300mm

GRINDING







LEGEND



Metallic or resin bond diamond discs for the levelling or grinding of very hard



SiC abrasive.



Al₂O₂ abrasive, except P1000, P1200, P2400 and P4000



Resin bond diamond discs designed for hard metallic materials adapted to reduce process time.

						STANDA	RDS AND EQUIV	/ALENTS						
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		12	25		7	75		54			18			

GRINDING

I-MAX R

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

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







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



TISSEDIAM

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

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

R = resin bond M = metallic bond



SPECIAL ABRASIVE DISCS ZIRCONIUM OXIDE - ZR+

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

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

DRESSING STICKS

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

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

ADHESIVE DISCS REFLEX

Refle

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

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





ABRASIVE FOR LAPPING

SILICON CARBIDE POWDER*

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

^{*} Other abrasives and grain sizes: contact us.



LAPPING OIL

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

REF.	DESIGNATION	
12040	Bottle 1I	
12042	Bottle 10I	

LUBRICANT LAPPING

Lubrifiant soluble dans l'eau.

REF.	DESIGNATION	
12041	Flacon 1 I	
12043	Bidon 10 I	



ALUMINA OXIDE POWDER*

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

^{*} Other abrasives and grit sizes: contact us.



BORON CARBIDE POWDER*

REF.	DESIGNATION	GRIT	FEPA		
500 g	500 gr per box				
12033	Boron Carbide	37μ	F280		
12035	Boron Carbide	17μ	F400		
12036	Boron Carbide	9μ	F600		
12038	Boron Carbide	5μ	F1000		
* Other	abrasives and grit siz	es: contact us.			



Boron carbide



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



ABRASIVE PAPERS Ø 200MM

Non metallic soft materials Non-ferrous metallic materials **GRINDING** Metallic materials Al,O,

NON-ADHESIVE

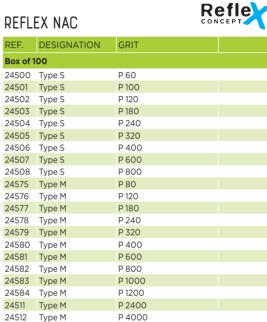
REF.	DESIGNATION	GRIT
Box of	100	
13099	Type S	P 60
13100	Type S	P 100
13101	Type S	P 120
13102	Type S	P 180
13103	Type S	P 240
13104	Type S	P 320
13105	Type S	P 400
13106	Type S	P 600
13107	Type S	P 800
13400	Туре М	P80
13401	Туре М	P 120
13402	Туре М	P 180
13403	Туре М	P 240
13404	Туре М	P 320
13405	Туре М	P 400
13406	Туре М	P 600
13407	Туре М	P 800
13408	Туре М	P 1000
13409	Туре М	P 1200
13150	Туре М	P 2400
13151	Туре М	P 4000
Box of	25	
13200	Type S	P 100
13201	Type S	P 120
13202	Type S	P 180
13209	Type S	P 240
13203	Type S	P 320
13204	Type S	P 400
13205	Type S	P 600
13206	Type S	P 800
13207	Туре М	P 1000
13208	Туре М	P 1200
13222	Туре М	P 2400
13223	Туре М	P 4000

ADHESIVE

REF. DESIGNATION GRIT

Box of 1	100		
14096	Type S	P 60	
14099	Type S	P 100	
14100	Type S	P 120	
14101	Type S	P 180	
14102	Type S	P 240	
14097	Type S	P 320	
14103	Type S	P 400	
14106	Type S	P 600	
14104	Type S	P 800	
14600	Type M	P 80	
14601	Туре М	P 120	
14602	Type M	P 180	
14603	Туре М	P 240	
14604	Type M	P 320	
14605	Туре М	P 400	
14606	Type M	P 600	
14607	Туре М	P 800	
14608	Type M	P1000	
14609	Туре М	P 1200	
14107	Type M	P 2400	
14108	Туре М	P 4000	
Box of 2	25		
14199	Type S	P 60	
14200	Type S	P100	
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	Туре М	P 1200	
14244	Type M	P 2400	
14245	Туре М	P 4000	

REFLEX NAC





ABRASIVE PAPERS Ø 250MM

Non metallic soft materials Non-ferrous metallic materials **GRINDING** Metallic materials Al,O,

Refle

NON-ADHESIVE

11011	ADIILSIVL	
REF.	DESIGNATION	GRIT
Box of	100	
13161	Type S	P 60
13120	Type S	P 100
13121	Type S	P 120
13122	Type S	P 180
13123	Type S	P 240
13124	Type S	P 320
13125	Type S	P 400
13126	Type S	P 600
13127	Type S	P 800
13420	Туре М	P 80
13421	Туре М	P 120
13422	Туре М	P 180
13423	Туре М	P 240
13424	Туре М	P 320
13425	Туре М	P 400
13426	Туре М	P 600
13427	Туре М	P 800
13428	Type M	P 1000
13429	Туре М	P 1200
13154	Туре М	P 2400
13155	Туре М	P 4000
Box of	25	
13250	Type S	P 100
13251	Type S	P 120
13252	Type S	P 180
13259	Type S	P 240
13253	Type S	P 320
13254	Type S	P 400
13255	Type S	P 600
13256	Type S	P 800
13257	Туре М	P 1000
13258	Туре М	P 1200
13295	Туре М	P 2400
13296	Туре М	P 4000

ADHESIVE

REF. DESIGNATION GRIT

Box of 100 14 34 Type S	
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 600 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	
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	
14122 Type S P 180 14123 Type S P 240 14124 Type S P 320 14124 Type S P 400 14125 Type S P 600 14126 Type S P 800 14620 Type M P 120 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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
14627 Type M P 800 14628 Type M P 1000 14629 Type M P 1200 14130 Type M P 2400	
14628 Type M P 1000 14629 Type M P 1200 14130 Type M P 2400	
14629 Type M P 1200 14130 Type M P 2400	
14130 Type M P 2400	
3.	
14131 Type M P 4000	
Box of 25	
14249 Type S P 60	
14250 Type S P 100	
14251 Type S P 120	
14252 Type S P 180	
14259 Type S P 240	
14253 Type S P 320	
14254 Type S P 400	
14255 Type S P 600	
14256 Type S P 800	
14257 Type M P 1000	
14257 Type M P 1000 14258 Type M P 1200	

REFLEX NAC



ABRASIVE PAPERS Ø 300MM

Non metallic soft materials Non-ferrous metallic materials **GRINDING** Metallic materials Al₂O₃

Refle

NON-ADHESIVE

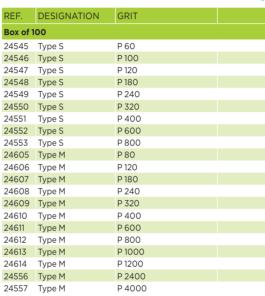
REF.	DESIGNATION	GRIT
Box of	100	
13163	Type S	P 60
13130	Type S	P 100
13131	Type S	P 120
13132	Type S	P 180
13133	Type S	P 240
13134	Type S	P 320
13135	Type S	P 400
13136	Type S	P 600
13137	Type S	P 800
13430	Туре М	P80
13431	Туре М	P 120
13432	Туре М	P 180
13433	Туре М	P 240
13434	Туре М	P 320
13435	Туре М	P 400
13436	Туре М	P 600
13437	Туре М	P 800
13438	Туре М	P 1000
13439	Туре М	P 1200
13156	Туре М	P 2400
13157	Туре М	P 4000
Box of	25	
13300	Type S	P 100
13301	Type S	P 120
13302	Type S	P 180
13309	Type S	P 240
13303	Type S	P 320
13304	Type S	P 400
13305	Type S	P 600
13306	Type S	P 800
13307	Туре М	P 1000
13308	Туре М	P 1200
13330	Туре М	P 2400
13331	Туре М	P 4000

ADHESIVE

REF. DESIGNATION GRIT

Box of 1	100	
14133	Type S	P 60
14109	Type S	P 100
14110	Type S	P 120
14111	Type S	P 180
14112	Type S	P 240
14117	Type S	P 320
14113	Type S	P 400
14116	Type S	P 600
14114	Type S	P 800
14640	Туре М	P80
14641	Туре М	P 120
14642	Туре М	P 180
14643	Туре М	P 240
14644	Туре М	P 320
14645	Туре М	P 400
14646	Туре М	P 600
14647	Туре М	P 800
14648	Туре М	P 1000
14649	Туре М	P 1200
14119	Туре М	P 2400
14132	Туре М	P 4000
Box of 2	25	
14299	Type S	P 60
14300	Type S	P100
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	Туре М	P 1200
14315	Type M	P 2400
14316	Туре М	P 4000

REFLEX NAC





ABRASIVE PAPERS

Ø 230MM - Ø 305MM - Ø 400MM

Ron metallic soft materials Non-ferrous metallic materials SiC TYPE M Metallic materials Soft ferrous Al₂O₃

NON-ADHESIVE Ø 230MM

NUN	NUN-ADHESIVE Ø 230MM					
REF.	DESIGNATION	GRIT				
Box of	100					
13110	Type S	P 100				
13111	Type S	P 120				
13112	Type S	P 180				
13113	Type S	P 240				
13114	Type S	P 320				
13115	Type S	P 400				
13116	Type S	P 600				
13117	Type S	P 800				
13410	Туре М	P 80				
13411	Type M	P 120				
13412	Туре М	P 180				
13413	Туре М	P 240				
13414	Туре М	P 320				
13415	Туре М	P 400				
13416	Туре М	P 600				
13417	Type M	P800				
13418	Туре М	P 1000				
13419	Type M	P 1200				
13152	Туре М	P 2400				
13153	Туре М	P 4000				
Box of	25					
13230	Type S	P 100				
13231	Type S	P 120				
13232	Type S	P 180				
13239	Type S	P 240				
13233	Type S	P 320				
13234	Type S	P 400				
13235	Type S	P 600				
13236	Type S	P 800				
13237	Туре М	P 1000				
13238	Туре М	P 1200				
13240	Туре М	P 2400				
13241	Туре М	P 4000				

REFLEX NAC Ø 230MM

	·	
REF.	DESIGNATION	GRIT
Box of 1	100	
24515	Type S	P 60
24516	Type S	P 100
24517	Type S	P 120
24518	Type S	P 180
24519	Type S	P 240
24520	Type S	P 320
24521	Type S	P 400
24522	Type S	P 600
24523	Type S	P 800
24585	Туре М	P 80
24586	Туре М	P 120
24587	Туре М	P 180
24588	Туре М	P 240
24589	Туре М	P 320
24590	Туре М	P 400
24591	Туре М	P 600
24592	Туре М	P 800
24593	Туре М	P 1000
24594	Туре М	P 1200
24526	Туре М	P 2400
24527	Туре М	P 4000

Refle

ADHESIVE Ø 400MM

REF.	DESIGNATION	GRIT	
Box of 2	25		
14410	Type S	P 60	
14400	Type S	P 100	
14401	Type S	P 120	
14402	Type S	P 180	
14409	Type S	P 240	
14403	Type S	P 320	
14404	Type S	P 400	
14405	Type S	P 600	
14406	Type S	P 800	
14407	Туре М	P 1000	
14408	Туре М	P 1200	
14411	Туре М	P 2400	
14412	Туре М	P 4000	

NON-ADHESIVE Ø 305MM

REF.	DESIGNATION	GRIT
Box of 1	100	
13140	Type S	P 100
13141	Type S	P 120
13142	Type S	P 180
13143	Type S	P 240
13144	Type S	P 320
13145	Type S	P 400
13146	Type S	P 600
13147	Type S	P 800
13450	Туре М	P 80
13451	Туре М	P 120
13452	Туре М	P 180
13453	Туре М	P 240
13454	Туре М	P 320
13455	Туре М	P 400
13456	Туре М	P 600
13457	Туре М	P 800
13458	Туре М	P 1000
13459	Туре М	P 1200
13158	Туре М	P 2400
13159	Туре М	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		ASSOCIATED SUSPENSIONS	ADHESIVE	Metallic back-side version PAD MAG
	MED R		Resinoids studs.	Levelling of all types of materials.	Polycrystalline super abrasive product / Diamond product	15 to 6μ		Ref. 24087: Ø 200mm Ref. 24089: Ø 250mm Ref. 24090: Ø 300mm
	ТМР		Wire gauze (stainless steel 18/8) fixed to a metallo-plastic support (polyethylene).	Very fast removal of material. Steels, carbides and ceramics.	Pastes / diamond solutions	45 to 6μ	Ref. 16208: Ø 200mm Ref. 16258: Ø 250mm Ref. 16308: Ø 300mm	Ref. 24174: Ø 200mm Ref. 24204: Ø 250mm Ref. 24232: Ø 300mm
	ТОР		Plasticised acetate silk taffeta.	Levelling of all types of materials.	Diamond products	15 to 6μ	Ref. 16214: Ø 200mm Ref. 16264: Ø 250mm Ref. 16314: Ø 300mm	Ref. 24161: Ø 200mm Ref. 24191: Ø 250mm Ref. 24206: Ø 300mm
	RAMII		Acetate silk satin, plasticised and glued to a semi-rigid support.	Soft materials.	Diamond products	9 to 6µ	Ref. 16211: Ø 200mm Ref. 16261: Ø 250mm Ref. 16311: Ø 300mm	Ref. 24162: Ø 200mm Ref. 24192: Ø 250mm Ref. 24219: Ø 300mm

ROUGH-FINISHING CLOTHS

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



Refle

Refle

Refle

FINISHING CLOTHS

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

SUPER-FINISHING CLOTHS

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

WOVEN

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

FLOCKED

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

NON-WOVEN

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

MED R

DISCS MED R

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

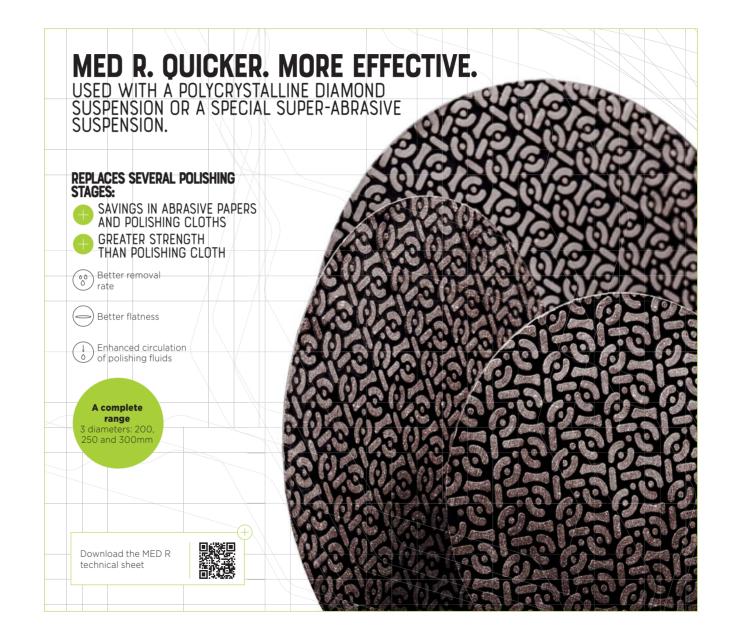
REF.	DESIGNATION	Ø	
24087	Disc	Ø 200mm	
24089	Disc	Ø 250mm	
24090	Disc	Ø 300mm	

POLYCRYSTALLINE DIAMOND SUSPENSION FOR MED R

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

SUPER-ABRASIVE SUSPENSION FOR MFD R

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



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	RAMII
16230	RFI
16212	STA
16224	SUPRA
16204	TFR
16208	TMP
16214	TOP

REFLEX PAD-MAG

Box of 5.

REF.	DESIGNATION	
24172	ADRII	
24173	DBM	
24164	HS-B	
24163	HS-V	
24165	NT	
24171	NV	
24168	NWF+	
24160	RAM	
24162	RAMII	
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	RAMII
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	RAMII	
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	RAMII	
16330	RFI	
16312	STA	
16324	SUPRA	
16304	TFR	
16308	TMP	
16314	TOP	

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

REFLEX PAD-MAG

Box of 5.

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

Ø 400MM

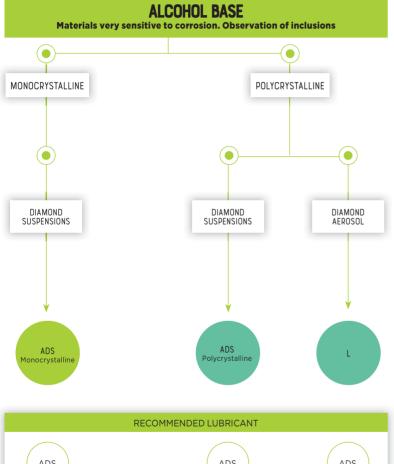
ADHESIVE

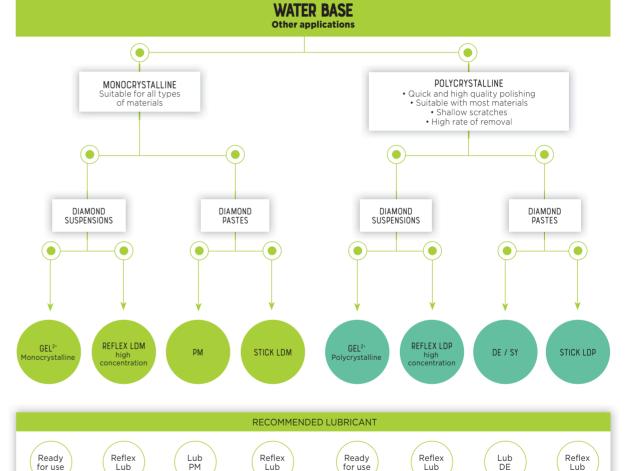
Box of 5.

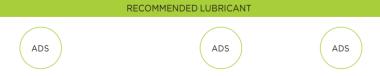
	·
REF.	DESIGNATION
16402	HS-B
16401	HS-V
16423	LDR
16406	NT
16441	NWF+
16416	RAM
16411	RAMII
16430	RFI
16412	STA
16424	SUPRA

DIAMOND POLISHING









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

MONOCRYSTALLINE DIAMOND SUSPENSIONS







REFLEX LDM

Refle

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

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*	3 μ
24252	500CC Bottle*	3μ
	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.

GEL2+ 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

Refle

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

To be used with fubricant Reflex Eub.			
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.	

^{*} Comes in a spray bottle.

GEL2+ POLYCRISTALLINE

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

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

^{*} Comes in a spray bottle.

SPRAYS

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



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.

allu Sta	IIIIess steers, 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
	10g syringe	1μ
		·
05005	5g syringe	2μ
05006	10g syringe	2μ
05007	5g syringe	
05008	10g syringe	3μ
05000	F	Ç
	5g syringe	6µ
05010	10g syringe	6µ
05011	5g syringe	9μ
05012	10g syringe	9μ
05013	5g syringe	15µ
05014	10g syringe	15µ
00011	10 9 0 9 1111 9 0	10p
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	1μ	
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
0.0010		
06019	5g syringe	1μ
06020	10g syringe	1μ
06021	5g syringe	3 μ
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

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

^{*} Comes in a spray bottle.

DIAMOND STICKS - LDM

Coloured water base diamond paste, monocrystalline, delivered in stick. For the polishing of mi-hard to very-hard

To be used with lubricant Reflex Lub.

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

DIAMOND STICKS - LDP

Water base diamond paste, polycrystalline, not coloured, delivered in stick. For the polishing of mi-hard to very-hard

To be used with Jubricant 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





SUPER-FINISHING POLISHING

PRESI ALUMINA SUSPENSIONS

PRESI Nº 1 - Grit: 0.04µ.

Use: super-finishing of soft materials such as copper, lead, aluminium...

PRESI Nº 2 - Grit: 0.3u.

Use: finishing of copper alloys, nickel, brass, bronze, aluminium...

PRESI Nº 3 - Grit: 0.8µ.

Use: finishing of hard steels and materials (finish suitable for direct observation or medium magnification).

PRESI Nº 4 - Grit: 1u.

Use: specially recommended for fine pre-polishing of all metals.

REF.	DESIGNATION	GRIT		
Bottle of 1I				
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	10I Drum	0.03μ	
24281	11 trigger Spray bottle (Reflex)*	0.03μ	

^{*} Comes in a spray bottle.

DUJARDIN ALUMINA SUSPENSIONS

DUJARDIN Nº 1 - Grit: 0-1µ. Blue.

Use: suitable for polishing of steel and hard steels.

DUJARDIN N° 2 - Grit: 0-0.7µ. White.

Use: produces a flawless surface with all hard and semi-hard metals. Suitable for brass, bronze... and more generally, for all copper and nickel alloys.

DUJARDIN N° 3 - Grit: 0-0.3µ. Pink.

Use: for finishing of metallographic specimens and in particular for soft metals: copper, lead... Can be used in certain cases for finishing after diamond polishing.

REF.	DESIGNATION	GRIT
Bottle	of 1l	
11012	N° 3	0-0.3μ
11011	N° 2	0-0.7μ
11010	N° 1	Ο-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	11 trigger Spray bottle (Reflex)*	0.03μ	

^{*} Comes in a spray bottle.



CERIUM OXIDE

Suitable for the polishing of optics and ceramics.

REF.	DESIGNATION	GRIT	
36207	1kg Pack	2.5µ	

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

ELECTROLYTES FOR ELLOPOL TYPE PORTABLE DEVICE

ELLOPOL electrolytes can be used on-site for non-destructive testing (replic) or in the laboratory. They can only be used in the case of pad polishing.

The area to polish is just dampened with the electrolyte contained in the cap, and a very small quantity of electrolyte is used. The polishing or attack operation is slower, but delivers ideal attack of fine structures.

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

^{*} Subject to customs regulations. Certificate of use to be provided.

SOLUTIONS FOR ELECTROLYTIC POLISHING FOR POLISEC C 25

POLISEC electrolytes are designed for laboratory control on samples.

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

REF.	DESIGNATION	FORMULA	USE	
17100	Electrolyte D 11 1/2*	700ml Ethanol + 100ml butylene glycol	Steels, stainless steels,	
17100	Electrolyte D 11 2/2	200ml Perchloric acid	aluminium, iron, nickel	
17101	Electrolyte D 12 1/2	590ml methanol + 350ml butylene glycol	Molybdène, zirconium,	
17101	Electrolyte D 12 2/2	60ml perchloric acid	titane, aluminium	
17102	Electrolyte D 13 1/2*	600ml Ethanol + 180ml glacial acetic acid + 45g sodium acetate + 32g sodium hydroxide	Uranium, lead, tin,	
	Electrolyte D 13 2/2	90ml perchloric acid + 66ml water	antimony	
17107	Electrolyte D 14 1/2*	900ml Ethanol + 50g tartric acid	Aluminium alloys,	
17103	Electrolyte D 14 2/2	60ml perchloric acid	cobalt alloys	
17104	Electrolyte D 15 1/2*	1l Ethanol + 100g sodium thiocyanate + 100g citric acid	Cast iron, magnesium and magnesium alloys,	
	Electrolyte D 15 2/2	15ml perchloric acid	high-alloys steels	
17106	Electrolyte D 311/2	500ml water + 250ml orthophosphoric acid + 250ml ethyl alcohol	Copper, cobalt alloys,	
	Electrolyte D 31 2/2	50ml isopropanol + 5g urea	brass	
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,	
	Electrolyte D 62 2/2	30ml nitric acid	brass	
	Electrolyte D 71 1/2	1l water		
17110	Electrolyte D 71 2/2	200g sodium hydroxide	Tungsten	

^{*} 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.

17251 17252 NITAL 36"	REF. 100ML	REF. 1L	NAME	FORMULA	ETCHANT	USE
17220 17221 NITAL 4%* 4ml HNO ₂ + 100ml Ethanol 17255 17256 NITAL 5%* 5ml HNO ₂ + 100ml Ethanol 17257 17258 NITAL 5%* 5ml HNO ₂ + 100ml Ethanol 17257 17258 NITAL 15%* 17259 17260 Oberhoffer etchant* 17261 17262 Picral - 2 etchant* 17261 17262 Picral - 2 etchant* 17263 17264 Bachet - Bacujard atchant 17265 17266 Von chloride Ill actidified solution 17265 17268 Von chloride Ill actidified solution 17267 17268 Von chloride Ill actidified solution 17268 Pry A etchant* 17269 Pry A etchant* 17269 Pry A etchant* 17260 Aqueous solution - 4% FeCl ₂ 17260 Von chloride Ill actidified solution 17261 17268 Von chloride Ill neutral solution 17269 Pry A etchant* 17269 Pry A etchant* 17260 Pry B etchant 17260	17251	17252	NITAL 3%*	3ml HNO ₃ + 100ml Ethanol		
17255 17256 NITAL 75" 7ml HNO, + 100ml Ethanol Steels - after approach work 17257 17258 NITAL 15" 7ml HNO, + 100ml Ethanol Steels - after approach work 17259 17260 Oberhoffer etchant" Somm H,O + 500ml Ethanol + 50ml HCl + 30g FcCl, + 12 Gucl, + 0.5g FcCl, + 0.5g FcCl	17220	17221	NITAL 4%*	4ml HNO ₃ + 100ml Ethanol	Micro	Tin and tin rich alloys with cadmium, copper, iron and antimony
17257 17258 NITAL 15%* Ism HNO, + 100ml Ethanol Macro Steels - after approach work	17253	17254	NITAL 5%*	5ml HNO ₃ + 100ml Ethanol		
17257 17258 NTTAL 15%* ISmi HNO; +100ml Ethanol 17259 17260 Oberhoffer etchant* +50ml HLO; +50g FeCi, +1g CutCl; +0.5g SnCl; Macro Non-alloys or low-alloyed steels 17222 17223 Picral -1 etchant* 10g Picric acid +100ml Ethanol Carbon steels Low-alloyed steels Low-al	17255	17256	NITAL 7%*	7ml HNO ₃ + 100ml Ethanol	Manua	Charles of house and according
17259 17260 Oberhoffer etchant*	17257	17258	NITAL 15%*	15ml HNO ₃ + 100ml Ethanol	масто	Steels - arter approach work
17261 17262 Picral -2 etchant* 4g Picric acid + 100ml Ethanol Micro Carbon steeds Low-alloyed steels Low-alloyed steels Cost Iron & cast steels coated with iron / tin General etchant for steels, in particular revealing carbide, good phase resolution	17259	17260	Oberhoffer etchant*	+ 50ml HCl + 30g FeCl,	Macro	Non-alloys or low-alloyed steels
17261 17262 Picral -2 etchant* 4g Picric acid + 100ml Ethanol Micro Cast iron & cast steels coated with iron / tin General etchant for steels, in particular revealing carbide, good phase resolution	17222	17223	Picral -1 etchant*	10g Picric acid + 100ml Ethanol		
17265 17266 Iron chloride III acidified solution 48ml H ₂ O + 12ml HCl Macro Steels - Macroscopic examination in general use. For chromium steels, nickel and stainless steels 17267 17268 Iron chloride III neutral solution Aqueous solution - 41% FeCl ₃ Macro Steels - Steels weld 17228 17229 Fry A etchant* 40ml HCl + 5g CuCl ₃ + 30ml Macro Steels - Steels weld 17283 17284 Fry B etchant 100ml H ₂ O + 150ml HCl H ₂ O + 25ml Ethanol + 10ml H ₂ O H ₃ CuCl ₃ + 30ml Macro Carbon steels - Flux lines 17269 17270 Le Chatelier N*2 etchant* 100ml Ethanol + 10ml H ₂ O H ₃ CuCl ₃ + 0.5g Picric acid Yeng CuCl ₃ + 0.5ml HCl Macro Stainless steels 17232 17233 Marble etchant 10ml FeCl ₃ + 30ml HCl Macro Stainless steels 17230 17231 Murakami etchant 10 g K_FE(CN) ₃ + 10 g KOH Micro Austenitic stainless steels 17231 Murakami etchant 10 g K_FE(CN) ₃ + 10 g KOH Micro Austenitic and ferritic stainless steels 17236 17227 Kalling etchant* 2g CuCl ₃ + 40ml HCl Micro Austenitic and ferritic stainless steels 17236 17237 Millola etchant* 2g CuCl ₃ + 40ml HCl Micro Austenitic stainless steels	17261	17262	Picral -2 etchant*	4g Picric acid + 100ml Ethanol	Micro	Low-alloyed steels Cast iron & cast steels coated with iron / tin
17267 17268 Iron chloride III acutalised Solution Aqueous solution - 41% FeCl₃ Macro Steels - Steels weld 17228 17229 Fry A etchant* 40ml HCl + 5g CuCl₃ + 30ml H₂O + 25ml Ethanol 17281 17284 Fry B etchant 100ml H,O + 150ml HCl + 67g CuCl₃ 17289 17270 Le Chatelier N°2 etchant* 100ml Ethanol + 10ml H₂O + 1g CuCl₃ + 0,5g Picric acid + 2ml HCl 17244 17245 Curran etchant 10ml FeCl₃ + 30ml HCl + 100ml H₃O + 1g CuCl₃ + 0,5g Picric acid + 2ml HCl 17232 17233 Marble etchant 10g CuSO₃ + 50 ml HCl + 50 ml H₂O 17244 17225 Aqua regia 20 ml HNO₃ + 60 ml HCl Micro Micro Stainless steels 17230 17231 Murakami etchant 10g SuSO₃ + 50 ml HCl + 100 ml H₂O Micro Micro Austenitic stainless steels, tungsten carbide 17226 17227 Kalling etchant* 2g CuCl₃ + 40ml HCl + 60ml Etchanol Micro Austenitic and ferritic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool steels, Micro Austenitic stainless steels - Revealing of grain, tool	17263	17264	Béchet - Beaujard etchant		Micro	
17228 17229 Fry A etchant* 40ml HCl + 5g CuCl ₂ + 30ml Macro Steels - Steels attack 17283 17284 Fry B etchant 100ml H ₂ O + 150ml HCl + 67g CuCl ₂ 17269 17270 Le Chatelier N*2 etchant* 100ml Ethanol + 10ml H ₂ O + 1g CuCl ₂ + 30ml HCl + 100ml H ₂ O + 1g CuCl ₃ + 30ml HCl + 100ml H ₂ O Micro Iron - Eutectic cells of a grey cast iron 17244 17245 Curran etchant 10ml FeCl ₃ + 30ml HCl + 100ml H ₂ O Micro Stainless steels 17232 17233 Marble etchant 10g CuSO ₂ + 50 ml HCl Macro Macro 17224 17225 Aqua regia 20 ml HNO ₃ + 60 ml HCl Micro Austenitic stainless steels 17230 17231 Murakami etchant 10 g K, Fe(CN) ₆ + 10 g KOH Micro Austenitic and ferritic stainless steels, tungsten carbide 17226 17227 Kalling etchant* 2g CuCl ₃ + 40ml HCl Micro Austenitic and ferritic stainless steels 17234 17235 Willels etchant* 5ml HCl + 1g Picric acid Micro Austenitic stainless steels - Revealing of grain, tool steels,	17265	17266	Iron chloride III acidified solution		Macro	
1728 1728 Fry Retchant H ₂ O + 25ml Ethanol Macro Carbon steels - Steels attack 17284 Fry B etchant 100ml H ₂ O + 150ml HCl + 67g CuCl ₂ 17270 Le Chatelier N°2 etchant* 100ml Ethanol + 10ml H ₂ O Micro 17244 17245 Curran etchant 10ml FeCl ₃ + 30ml HCl + 100ml H ₂ O Micro 17232 17233 Marble etchant 10g CuSO ₂ + 50 ml HCl Macro 17224 17225 Aqua regia 20 ml HNO ₃ + 60 ml HCl Micro 17230 17231 Murakami etchant 10g K ₂ Fe(CN) ₆ + 10 g KOH + 100ml H ₂ O Micro 17236 17227 Kalling etchant* 2g CuCl ₃ + 40ml HCl Micro Austenitic and ferritic stainless steels 17236 17237 Villela etchant* 5ml HCl + 1g Picric acid Micro Austenitic stainless steels - Revealing of grain, tool steels,	17267	17268	Iron chloride III neutral solution	Aqueous solution - 41% FeCl ₃	Macro	Steels - Steels weld
17283 17284 Fry B etchant + 67g CúCl₂ Macro Carbon steels - Flux lines 17269 17270 Le Chatelier N°2 etchant* 10oml Ethanol + 10oml H₂O + 1g CuCl₃ + 0,5g Picric acid + 2ml HCl Iron - Eutectic cells of a grey cast iron 17244 17245 Curran etchant 10oml FeCl₃ + 30ml HCl + 100ml H₂O Micro 17232 17233 Marble etchant 10g CuSO₃ + 50 ml HCl Macro 17244 17225 Aqua regia 20 ml HNO₃ + 60 ml HCl Micro Austenitic stainless steels 17230 17231 Murakami etchant 10g K₃ Fe(CN)₅ + 10 g KOH + 100ml H₂O Micro Austenitic and ferritic stainless steels, tungsten carbide 17226 17227 Kalling etchant* 2g CuCl₂ + 40ml HCl Micro Austenitic and ferritic stainless steels 17234 17235 Villola etchapt* 5ml HCl + 1g Picric acid Micro Austenitic stainless steels - Revealing of grain, tool steels,	17228	17229	Fry A etchant*		Macro	Steels - Steels attack
17269 17270 Le Chatelier N°2 etchant* + 1g CuCl ₂ + 0,5g Picric ácid + 2ml HCl + 100ml H ₂ O Micro 17244 17245 Curran etchant 10ml FeCl ₃ + 30ml HCl + 100ml H ₂ O Micro 17232 17233 Marble etchant 10g CuSO ₄ + 50 ml HCl + 50 ml HCl + 50 ml H ₂ O Micro 17224 17225 Aqua regia 20 ml HNO ₃ + 60 ml HCl Micro Austenitic stainless steels 17230 17231 Murakami etchant 10 g K ₃ Fe(CN) ₆ + 10 g KOH + 100ml H ₂ O Micro Austenitic and ferritic stainless steels, tungsten carbide 17226 17227 Kalling etchant* 2g CuCl ₂ + 40ml HCl Micro Austenitic and ferritic stainless steels 17234 17235 Willela etchant* 5ml HCl + 1g Picric acid Micro Austenitic stainless steels - Revealing of grain, tool steels,	17283	17284	Fry B etchant		Macro	Carbon steels - Flux lines
17232 17233 Marble etchant 10g CuSQ ₄ +50 ml HCl +50 ml H ₂ O Macro 17224 17225 Aqua regia 20 ml HNO ₃ + 60 ml HCl Micro Austenitic stainless steels 17230 17231 Murakami etchant 10 g K ₂ Fe(CN) ₆ + 10 g KOH +100 ml H ₂ O Micro Austenitic and ferritic stainless steels, tungsten carbide 17226 17227 Kalling etchant* 2g CuCl ₂ + 40 ml HCl Micro Austenitic and ferritic stainless steels 17234 17235 Willela etchapt* 5ml HCl + 1g Picric acid Micro Austenitic stainless steels - Revealing of grain, tool steels,	17269	17270	Le Chatelier N°2 etchant*	+ 1g CuCl ₂ + 0,5g Picric acid	Micro	Iron - Eutectic cells of a grey cast iron
17232 17233 Marble etchant 10g CuSO ₄ +50 ml HCl	17244	17245	Curran etchant	10ml FeCl ₃ + 30ml HCl + 100ml H ₂ O	Micro	Christon shade
17230 17231 Murakami etchant 10 g K ₃ Fe(CN) ₆ + 10 g KOH	17232	17233	Marble etchant		Macro	Stamess steels
17226 17227 Kalling etchant* 2g CuCl ₂ + 40ml HCl + 60ml Ethanol Micro Austenitic and ferritic stainless steels, turgster Carbide Austenitic and ferritic stainless steels Austenitic and ferritic stainless steels Austenitic stainless steels	17224	17225	Aqua regia	20 ml HNO ₃ + 60 ml HCl	Micro	Austenitic stainless steels
+ 60ml Éthanol 17234 17235 Villola otchant* 5ml HCl + 1g Picric acid Micro Austenitic stainless steels - Revealing of grain, tool steels,	17230	17231	Murakami etchant		Micro	Austenitic and ferritic stainless steels, tungsten carbide
	17226	17227	Kalling etchant*		Micro	Austenitic and ferritic stainless steels
	17234	17235	Villela etchant*		Micro	
17285 V2A etchant 100ml H ₂ O + 100ml HCI + 10ml HNO ₃ Micro Stainless steels - Size of grain (Attack between 50 and 60°C)	17285	17286	V2A etchant		Micro	Stainless steels - Size of grain (Attack between 50 and 60°C)

^{*} Subject to customs regulations. Certificate of use to be provided.

REF. 100ML	REF. 1L	NAME	FORMULA	ETCHANT	USE
17236	17237	Barker etchant	5g HBF ₄ + 200ml H ₂ O	Micro	Aluminium - Revealing of structure/grains
17238	17239	Keller etchant	2ml HF + 3ml HCl + 5ml HNO ₃ + 190ml H ₂ 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 ₂ Cr ₂ O ₇ + 4ml H ₂ SO ₄ + 50ml H ₂ O	Micro	Copper - Revealing of grain
17277	17278	Alcohol solution of iron chloride III acid	5g de FeCl ₃ + 5ml d'HCl + 95ml Ethanol	Micro	Copper compounds - Copper compound attack
17246	17247	INVAR / KOVAR	400ml HCl + 8g CuCl ₂ + 400ml H ₂ O + 800ml MEthanol + 28g FeCl ₃ + 20ml HNO ₃	Micro	Invar - Kovar
17242	17243	Kroll etchant	3ml HF + 6ml HNO ₃ + 100ml H ₂ O	Micro	Titanium - Revealing of structure Titanium alloys primarily alloys Ti-Al-V-(Sn)
17279	17280	Adler etchant	25ml water + 3g [(NH ₄)2CuCl ₄ , 2 H ₂ O] + 50ml HCl + 15g FeCl ₃	Micro/Macro	Attack of Inconel Superalloys Corrosion resistant steels Cobalt and nickel alloys
	17281	Denatured ethanol (5I)*	-	-	Cleaning
	17282	Denatured ethanol (10I)*	-	-	Cleaning

^{*} Subject to customs regulations. Certificate of use to be provided.

ATTACK OF A STEEL WELD USING NITAL 4%



Macro 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.







MADE TO MEASURE

MACHINES 100% CUSTOMISED TO YOUR PROJECTS

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

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

A tested and approved method.

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

Tailor-made conception of benches.

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



CUTTING SPECIFIC VICES AND OTHER ACCESSORIES



Ball vice T300, T330, ST310



Pneumatic vice for core cutting on dual blade T260



Specific vice for tip slotting, indexed to 90°



Turning deck: fixed on slotted T table

(T300, ST310, T330, EVO 400)



Specific jaws for vice

POLISHING SPECIFIC PLATES



Special central pressure plate for tube



pressure plate with dual tightening



Special central pressure plate for thin section tube



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 STEREOMICROSCOPE

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.



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.



adjustable



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.

INVERTED MICROSCOPEROBUST, 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.

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.

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



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

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



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.









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" 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





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

DIGITAL MACROSCOPE

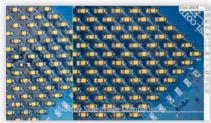
Digital macroscope of measurements.

The digital macroscope is a system delivering real-time Full HD images (60 fps) for any type of observation in quality control applications, tests, assembly, inspection, etc. No need for a PC, a simple screen connected in HDMI is enough to enjoy its very wide range of zoom (x2.5 to x122, up to x662 optional), its very large observable field (up to 231x136mm). its integrated measurement software, reconstitution of Z images.





2D Measurement, Annotation and Graticules



WELDINGS CONTROL SOFTWARE

WELDINSPECTOR

0 0

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.



AND ALSO ...

We also offer solutions dedicated to product's R&D and quality control:

- 3D digital microscopy
- Scanning electron microscopy (SEM)
- Metallizers

CONTACT US

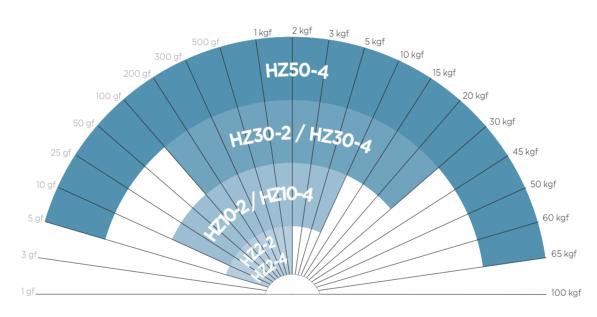
We will study your project in microscopy on a case by case basis.

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

PRESI GUIDE HARDNESS

HZ RANGE - LOAD CELLS

LOAD RANGE



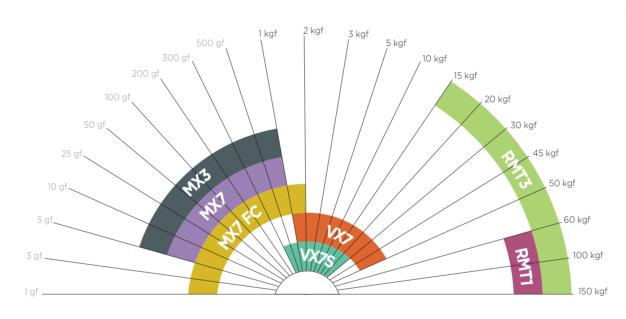
	HARDNESS TESTER	INDENTERS	TURRET	OBJECTIVES	INDENTERS
HZ2-2	Semi-automatic	Vickers or Knoop	Automatic	up to 4	1
HZ10-2	Semi-automatic	Vickers or Knoop	Automatic	up to 4	1
HZ30-2	Semi-automatic	Vickers or Knoop	Automatic	up to 4	1
HZ2-4	Automatic	Vickers or Knoop	Automatic	up to 4	1
HZ10-4	Automatic	Vickers or Knoop	Automatic	up to 4	1
HZ30-4	Automatic	Vickers or Knoop	Automatic	up to 4	1
HZ50-4	Automatic	Vickers and Knoop	Automatic	4	2

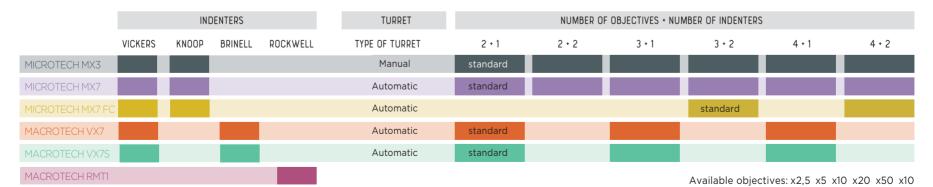


PRESI GUIDE HARDNESS

MATSUZAWA - DEAD WEIGHTS

LOAD RANGE





HZ HARDNESS TESTERS

THE HARDNESS TESTERS RANGE BY PRESI

Semi-automatics or automatics, HZ hardness testers are instantly recognizable. 100% made in France, its original design along with its robustness and highly technical capacities make it an essential work tool.

- OPTICAL OUALITY
- PRECISION

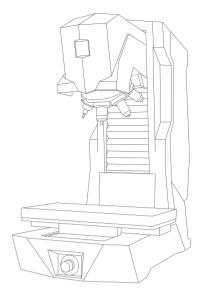


Ergonomic joystick with customizable sensitivity



Nikon objectives with a magnification up to 2000x









700mm



370mm



80kg





Fixed table



Manual table



Motorized table - Standard



Motorized table - Marble

HZ HARDNESS TESTERS	ARDNESS TESTERS SEMI-AUTOMATIC		AUTOMATIC				
MODEL / REFERENCE	HZ2-2 71218	HZ10-2 71216	HZ30-2 71200	HZ2-4 71219	HZ10-4 71217	HZ30-4 71201	HZ50-4 71123
LOAD APPLICATION	71210	71210	71200	71213	71217	71201	7 1123
Load range	5 gf - 2 kgf	10 gf - 10 kgf	100 gf - 30 kgf	5 gf - 2 kgf	10 gf - 10 kgf	100 gf - 30 kgf	5 gf - 65 kgf
Indenter type	Vickers or Knoop	Vickers or Knoop	Vickers or Knoop	Vickers or Knoop	Vickers or Knoop	Vickers or Knoop	Vickers and Knoop
FRAME							
Load cells	1	1	1	1	1	1	2
Touch sensor	•	~	~	•	~	~	~
Objectives	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	4
Magnification	200 to 2000x	200 to 2000x	200 to 2000x	200 to 2000x	200 to 2000x	200 to 2000x	200 to 2000x
Full HD microscopic camera	V	~	~	~	V	V	~
Full HD macroscopic camera: observable field 62x50mm	-	-	-	o	0	o	V
LED light source	•	~	~	•	•	~	~
Z axis travel	250mm	250mm	250mm	250mm	250mm	250mm	250mm
TABLES							
Fixed 200 x 200mm Maximum work piece weight: 50kg Compatible with single place sample holder	•	•	•	-	-	-	-
Manual 110 x 110mm XY travels 25 x 25 mm Table feeding accuracy with analog micrometers: 10µm Table feeding accuracy with digital micrometers: 1µm. Maximum work piece weight: 50kg Compatible with single place sample holder	o	O	o		-	-	-
Automatic standard 280 x 200m XY travels 100 x 130mm Table feeding accuracy: 1µm Maximum work piece weight: 80kg Compatible with single place sample holder	-	-	-	•	•	v	-
Automatic marble 420 x 210mm XY travels 180 x 200mm Table feeding accuracy: 1µm Maximum work piece weight: 100kg Compatible with multiple and single place sample holder	-	-	-	0	0	0	v
SOFTWARE							
PRESI Touch Essential	~	~	~	-	-	-	-
PRESI Touch Manual	0	0	0	-	-	-	-
PRESI Touch Pattern	-	-	-	V	~	~	-
PRESI Touch Automatic "Full"	-	-	-	0	0	0	~
External PC and 28" screen	~	•	~	•	~	~	~
GENERAL							
Test load accuracy < 1%	V	~	~	~	•	~	~
Dwell time: 5 - 999 s	•	~	~	~	~	~	~
Standard compliance: ISO 6507 & 4545, ASTM E384 and E92	~	•	~	~	~	~	~

HZ SEMI-AUTOMATIC HARDNESS TESTERS







HZ AUTOMATIC HARDNESS TESTERS









HZ SOFTWARE

PRESI TOUCH ESSENTIAL & MANUAL

COMPATIBILITY: HZ SEMI-AUTOMATIC HARDNESS TESTERS

HZ 2-2 | HZ 10-2 | HZ 30-2





PRESI TOUCH ESSENTIAL

Intuitive software with a graphic menu.

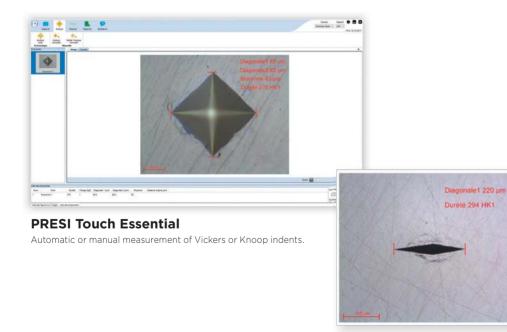
100% customizable interface.

Permanent overall view of the results and data.

Built-in search engine.

Automatic or manual indent measurement.

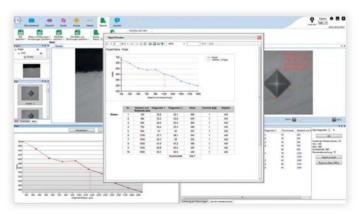
Single indent.





PRESI Touch Manual

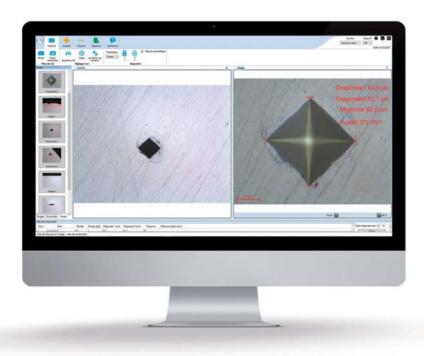
Pattern creation. A graphic and dynamic assistant allows pattern visualisation during its programing.



PRESI Touch Manual

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





EASY AND INTUITIVE **IMAGE FLUIDITY** DATA STORAGE

CHARACTERISTICS

SOFTWARE	PRESI TOUCH ESSENTIAL	PRESI TOUCH MANUAL
INDENT TYPE		
Single indent	~	•
Manual pattern	-	~
FEATURES		
Automatic measure of the indent	~	~
Manual measure of the indent	~	~
Autofocus	~	~
Automatic light	~	~
Incorrect measurements alerts	~	~
Pattern settings	-	~
Simulation of the size of the indent	-	~
Hardness value conversion	~	~
Analysis reports	-	✓
Measurement Toolboxes	0	~
Automatic storage	~	~
Multilingual software	•	•
EQUIPMENT		
Full HD digital camera for microscopy	~	~
Hardness tester / PC communication	•	•
Turret control	•	•
XYZ 3-axis joystick	•	•
External PC and 28" screen	~	✓

LEGEND - Incompatible ✓ included o option

PRESI TOUCH PATTERN & AUTOMATIC "FULL"

COMPATIBILITY: HZ AUTOMATIC HARDNESS TESTERS

HZ 2-4 | HZ 10-4 | HZ 30-4 | HZ 50-4



PRESI TOUCH AUTOMATIC "FULL"

User-friendly, intuitive and customizable software.

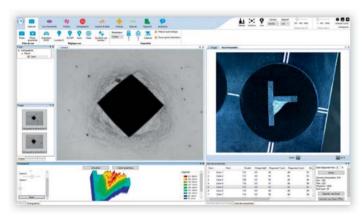
All the features directly accessible.

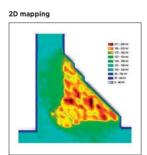
Permanent overall view of the results and data.

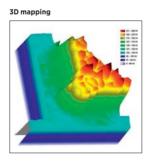
Comprehensive software with all available applications.

Single indent, regular or irregular pattern.

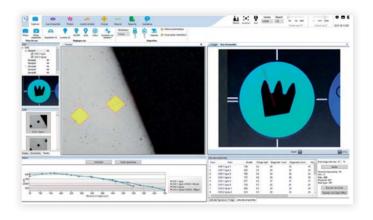
Mapping with 2D / 3D image.



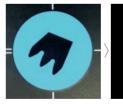








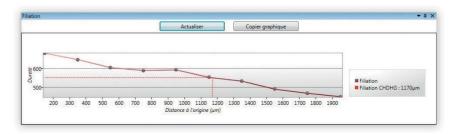
Automatic sample detection



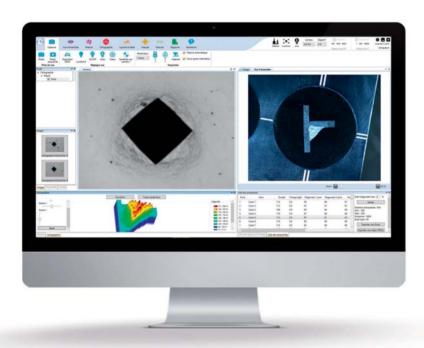












COMPLETE, RELIABLE AND POWERFUL VERY HIGH IMAGE QUALITY INTUITIVE NAVIGATION TIME SAVING

CHARACTERISTICS

SOFTWARE	PRESI TOUCH PATTERN	PRESI TOUCH AUTOMATIC "FULL"
INDENT TYPE		
Single indent	•	•
Manual pattern	•	•
Automatic pattern	•	•
Manual mapping	-	~
Automatic mapping	-	•
FEATURES		
Automatic measure of the indent	•	•
Manual measure of the indent	•	•
Autofocus	•	•
Automatic light	•	•
Incorrect measurements alerts	•	•
Pattern settings	•	•
Simulation of the size of the indent	•	•
Hardness value conversion	•	•
Analysis reports	•	•
Measurement Toolboxes	•	•
Macroscopic overview	(1)	(1)
Reconstitution of macroscopic images	(1)	(1)
Reconstitution of microscopic images	•	•
Automatic storage	•	•
Multilingual software	•	~
EQUIPMENT		
Full HD digital camera for microscopy	•	•
Full HD digital camera for macroscopy	(1)	(1)
Hardness tester / PC communication	•	~
Turret control	•	•
XYZ 3-axis joystick	•	•
External PC and 28" screen	~	~

LEGEND - Incompatible ✓ included o option

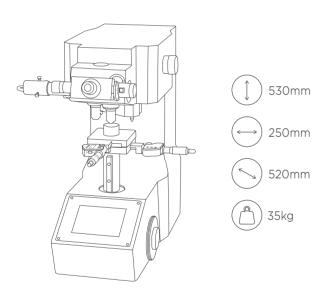
(1) Available with macroscopic camera

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.







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

OPTION

PRESI VIEW SOFTWARE

LOAD RANGE (GF)



CHARACTERISTICS

OTT/M/NOTEMOTIOS				
	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





SAMPLE HOLDERS AND REMOVABLE HOLDERS

OBJECTIVES



x2,5 Ref. 71106

Ref. 71154

x10 Ref. 71142

x20 Ref. 71129

x50 Ref. 71143

x100

TURRET

3-position turret

4-position turret for objectives Ref. 71130

2 indenters Knoop and Vickers

for objectives Ref. 71131

Ref. 71135

Sample holder

samples Ref. 71157

ø 25.4mm

for non-mounted

Removable holder



C Mount for Microtech



Single place sample

holder

Removable holder

ø 30mm Ref. 71110

Ref. 71109

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



Object micrometer

Removable holder

ø 31.7mm Ref. 71111



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

Sample holder 4 places





Removable holder ø 25mm Ref. 71174

> Removable holder ø 40mm Ref. 71125

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

OTHER ACCESSORIES



Digital micrometers for manual XY stage Ref. 71120

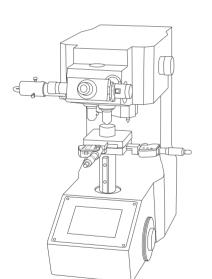


MICROTECH MX7 MICROTECH MX7

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.







250mm



520mm



) 35kg



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

OPTION

PRESI VIEW SOFTWARE

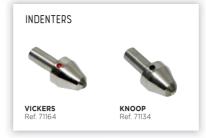
LOAD RANGE (GF)



CHARACTERISTICS

GHARAGIERISTIGS					
	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





OBJECTIVES



x2,5 Ref. 71106

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

2 indenters Knoop and Vickers

SAMPLE HOLDERS AND REMOVABLE HOLDERS



Sample holder for non-mounted samples Ref. 71157

Removable holder

ø 25.4mm

Single place sample holder

ø 30mm Ref. 71110

Ref. 71109

Removable holder Removable holder ø 31.7mm Ref. 71111

Sample holder

4 places

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

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

Object micrometer



Removable holder

ø 25mm

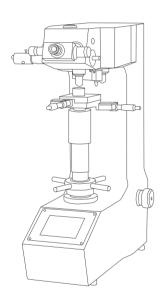
Ref. 71174

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 Brinnel.
- Automatic load application.
- · High-rigidity frame.

OPTION



0.3

CHARACTERISTICS

OTTAKAO TEKIO 1100				
	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





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

SAMPLE HOLDERS AND REMOVABLE HOLDERS



Sample holder for non-mounted samples Ref. 71157

Removable holder

ø 25.4mm

Single place sample holder Ref. 71109

Removable holder ø 30mm Ref. 71110 Removable holder ø 31.7mm Ref. 71111

Sample holder

Object micrometer

Ref. 71503

4 places

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 06

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

| Stage adapter | Manual XY stage | for ref. 71122 & 71152 | 25 x 25mm | movement |



Removable holder

ø 25mm

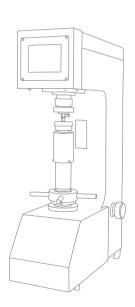
Ref. 71174

Digital micrometers for manual XY stage Ref. 71120

MACROTECH RMT1 MACROTECH RMT3

RMT1 Ref. 71185 - 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	CDAGBFKEHP MLVSR	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



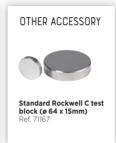
Ball indenter	Diam 1/8", 1/4", 1/2", 3/4"
Steel balls	Diam 1/8", 1/4", 1/2", 3/4"
Round stage	Diam 200mm
Other stage	V table (small), stud, diamond stud
JIG tests on long samples	Vari-Rest & Jack-Rest
Micrometric displacement stage for the Jomini tests	Maximum displacement: about 55 mm Mini scale: 1/10mm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

AVAILABLE OPTIONS



50mm opening Ref. 71133

100mm opening Ref. 71199





SOFTWARE PRESI VIEW HARDNESS

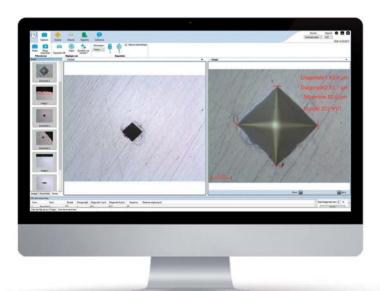
ACCESSIBLE AND INTUITIVE DIGITAL IMAGERY FOR SINGLE INDENTS

COMPATIBILITY: MATSUZAWA HARDNESS TESTERS RANGE

- MX3
- MX7
- MX7 LOW LOADS
- VX7
- VX7S

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
- (IIII) IMAGE FLUIDITY
- AUTOMATIC ANALYSIS
- 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

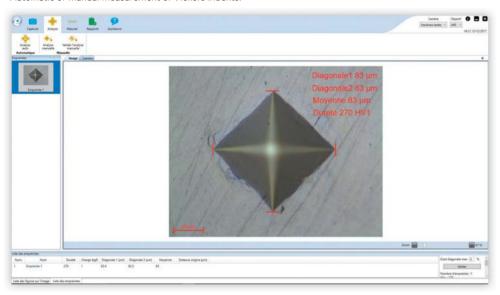
The software is compatible with all our Microtech, Macrotech VX7 and VX7S hardness testers, and all brands equipped with a video output and C mount

EXTENDED FEATURES WITH PRESI VIEW MESURE

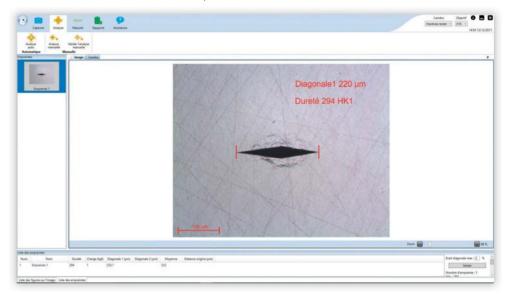
- · Lengths, thicknesses, markers, angles...
- Rays, diameters, perimeters, surfaces, circles, arcs...
- Text boxes insertions, titles and arrows.

PRESI VIEW HARDNESS

Automatic or manual measurement of Vickers indents.

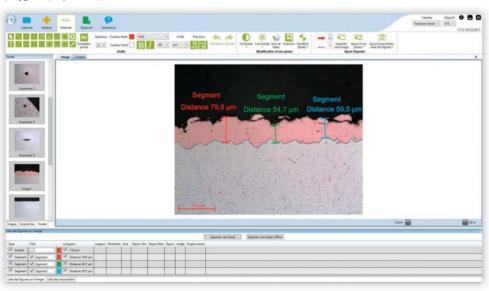


Automatic or manual measurement of Knoop indents.

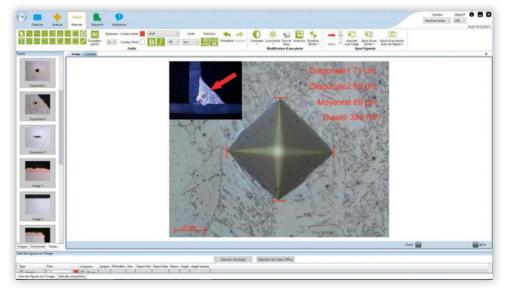


PRESI VIEW FULL

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.







EVERYTHING YOU NEED FOR YOUR LAB

CLASSIFYING

REF.	DESIGNATION	
19005	Storage box (6 to 18 specimen, Ø 40mm)	
57157	Top Quality storage cabinet 9 platens Ø 200 to 300mm, closing by sliding doors, 350mm, H: 390mm	
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	
19020	Electrical engraver with carbide tungsten point for specimen marking	

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	

BONDING

REF.	DESIGNATION
19004	500g sample mounting wax, Ø 300mm, thickness 5mm
19010	Glue spray can for polyurethane discs (500ml)
19011	5 red wax sticks, 50g, 190 x 20 x 20 mm
19012	25m double sided adhesive roll (width: 310mm)
19031	Bottle 100g Canada Balsam for mounting to glass slides

WIPING-CLEANING-DRYING

REF.	DESIGNATION
19001	11 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)

OBSERVING

Non destructive testing

Non destructive testing.			
REF.	DESIGNATION		
55035	Precision rule I 400mm		
57236	Precision rule I 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

POSTERS

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

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	

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'l, 200g	
71505	Press'l-Levelling press for microscopy	



Storage box (3 at 18 specimen, Ø 40mm) Ref. 19005



Wall-mounted sample dryer Ref. 57159



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





Base-mounted sample dryer Ref. 57160



9-tray storage tower Ø 200 to 300mm closing by sliding doors Depth: 350mm Height: 390mm Ref. 57157



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



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



Press'I-Levelling press for microscopy Ref. 71505



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



Waste recovery tray Ref. 57170



Ultra-quiet air compressor, 24L tank. Dimensions (WxDxH): 400x400x600mm Paf 67750

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