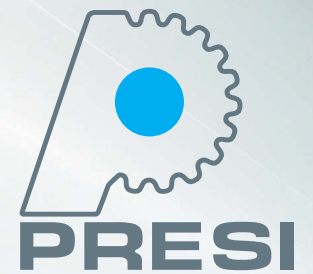


CATALOG 2023

PREPARATION
CHARACTERIZATION
SERVICES
EQUIPMENT



EDITORIAL

An enhanced offer

Innovation is our guideline. Innovate to move metallography forward, our core business since 1961. Today we are one of the main global players in this field.

Member of “La French Fab” and a French manufacturer of metallographic machines and consumables, we also produce our mechanical parts in our machining unit - **MOP**.

Innovating means being in tune with your needs. We are constantly adapting our processes and our offers, in line with the evolution and emergence of **new professions**.

This is why **TESTWELL CONTROL** is now part of our group. The specialist in mechanical characterization, certification and maintenance of equipment. **PRESI and TESTWELL CONTROL combined, represent an offer of products and services unprecedented on the market.**

This new and completely revised catalog, gives you a complete vision of what PRESI is today. The objective remains the same: the search for excellence, to serve your development.

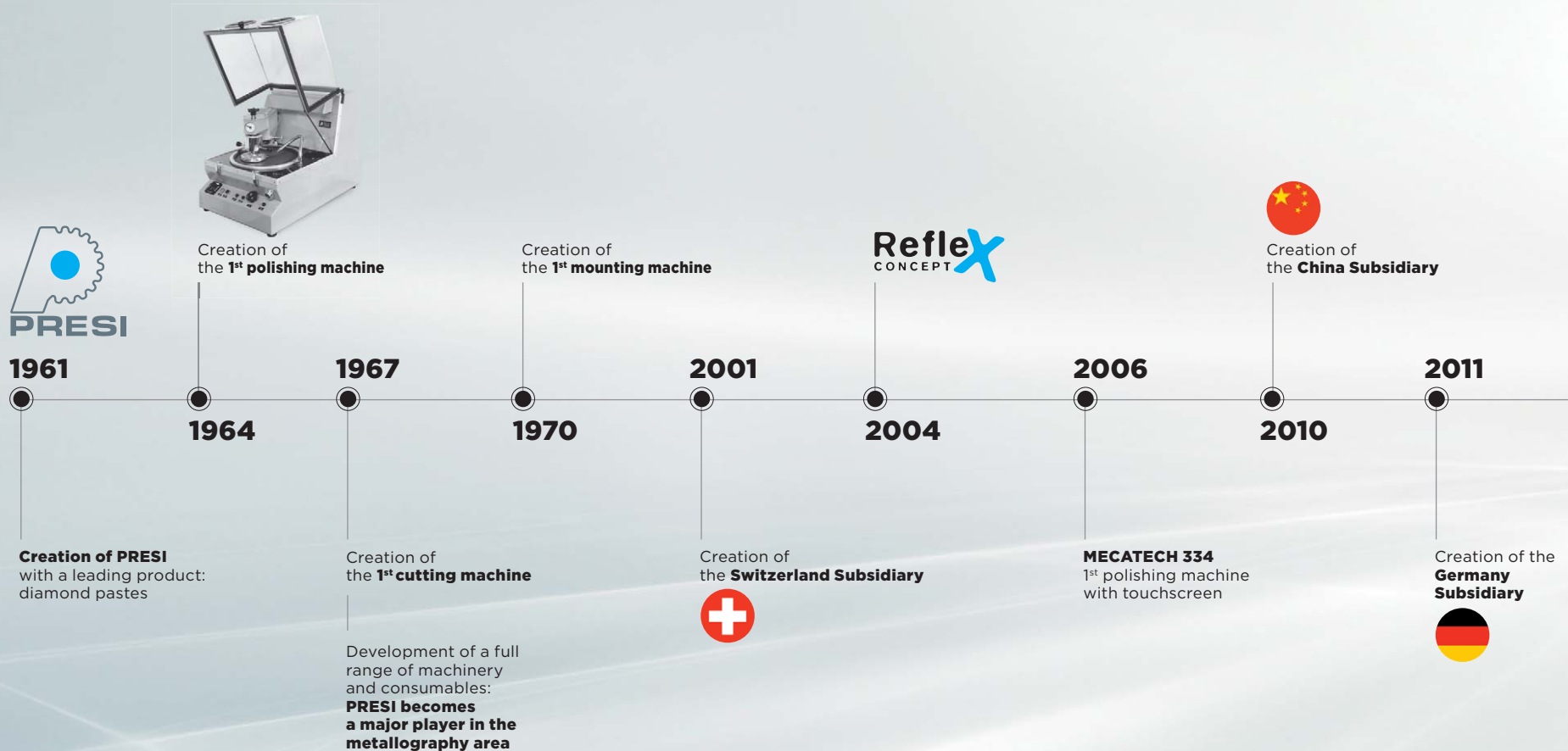
The PRESI team



Summary

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| PREPARATION | METALLOGRAPHY | 9 |
| | GEOLOGY | 96 |
| CHARACTERIZATION | OPTICAL | 107 |
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| SERVICES | CONTROL AND MAINTENANCE | 151 |
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| EQUIPMENT | SMALL EQUIPMENT | 165 |

Since 1961...



70% TURNOVER FOR EXPORT

5 SUBSIDIARIES: CHINA, GERMANY, SWITZERLAND, ROMANIA, SPAIN

45 COUNTRIES WHERE PRESI IS ALREADY PRESENT

7 000+ ACTIVE CLIENTS



IMAX-R
Diamond Discs

Creation of
the **Geology** offer

2014



2016



MOP integration

Founded 1988, MOP specializes in the machining of mechanical parts. Historical supplier of PRESI for more than 30 years for its machines, MOP works with state-of-the-art equipment of technology. MOP also puts its skills at the service of other companies or research laboratories.



Creation of
the **Romania Subsidiary**

Full renewal
of the range of
polishing machines

2018



Creation of the **ELD**
diamond range
of cut-off wheels

2020



Renewal of the
cutting machine
range

2022



2021

**Integration
of TESTWELL CONTROL**

Specialist for over 70 years in providing equipment for mechanical tests, TESTWELL CONTROL also offers a whole range of services, ranging from control to maintenance.

Creation of the
**Spain
Subsidiary**



HZ50-4
1st fully automatic
micro-hardness tester

MECAPLAN 350
Prepolishing
machine

Inauguration of the new PRESI Headquarters
4,500m²



A GROUP AT THE SERVICE
OF MANY INDUSTRY
SECTORS



AERONAUTICS



AEROSPACE



AUTOMOTIVE
INDUSTRY



FOUNDRY



STEEL
INDUSTRY



METALLURGY



PRECISION
MECHANICS



SCHOOLS &
UNIVERSITIES



RESEARCH
CENTRES



MEDICAL



AGRI-FOOD

Global Reach

The metallography market is a global market. This is why we have developed a network around 5 subsidiaries and more than 40 distributors. Our teams, dynamic and reactive, allow us to offer a tailor-made service to our customers.



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BUREAU VERITAS
Certification



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TURKEY • Istanbul
VIETNAM • Hanoi



To get in touch with one of our distributors, go to www.presi.com or by email presi@presi.com

OUR ENGAGEMENTS

Value the human the innovation the proximity



Design and manufacture
of PRESI machines
100% made in France.



Attachment to the local social fabric and economy,
participating in entertainment
and territorial development.



Choice of nearest suppliers
and subcontractors **within 100km**
of Grenoble (France).



Training and maintenance
of Staff skills.



Mobilization of service teams
to provide assistance and advice
as soon as possible.



Special attention paid to the **health**
and **safety** of employees.



Systematic Environmental Impact Analysis
of the different activities.



Reduction of the products dangerousness.



Renewal of the vehicle fleet to reduce
consumption.



Installation of **electric vehicles**
charging stations.

PREPARATION

Metallo graphy

Metallography is the determination and study of the properties and nature of the structure of metals but also to reveal any heat treatment, surface heat treatment or surface treatment.

Before carrying out a metallographic analysis a succession of specific operations is necessary in order to obtain a suitable examination surface.

PRESI is recognised as one of the world's leading manufacturers of machines and consumables for metallography and materialography.

| | |
|-----------|----|
| CUTTING | 10 |
| MOUNTING | 36 |
| POLISHING | 48 |
| REAGENTS | 93 |

PREPARATION
▶ **METALLOGRAPHY**

Cutting

The cutting step allows the extraction of a sample, in order to analyze its characteristics. Robust, powerful and easy to use, our new machines are adapted to all situations. Our high quality cut-off wheels allow full preservation of the structure of the sample, during a metallographic cut.

14



**MECATOME
T205**

16



FLEXICUT

**MECATOME
T345**



28

EVO 400 400+



30

18



MECATOME
T265

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MECATOME
T305

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MECATOME
ST315

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MECATOME
T215

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MECATOME
T335

EVO 450



32

DIAMOND
WIRE SAW



34

RESINOID CUT-OFF
WHEELS



36

CONSUMABLES



38

MACHINES FOR EVERY NEED

60 years of experience, in manufacturing machines for metallography.

Today our range of cutting machines is expanding and ergonomically changing, with an updated design.

With technical advances which optimize working time and offer new possibilities for sample cutting including the most complex ones.

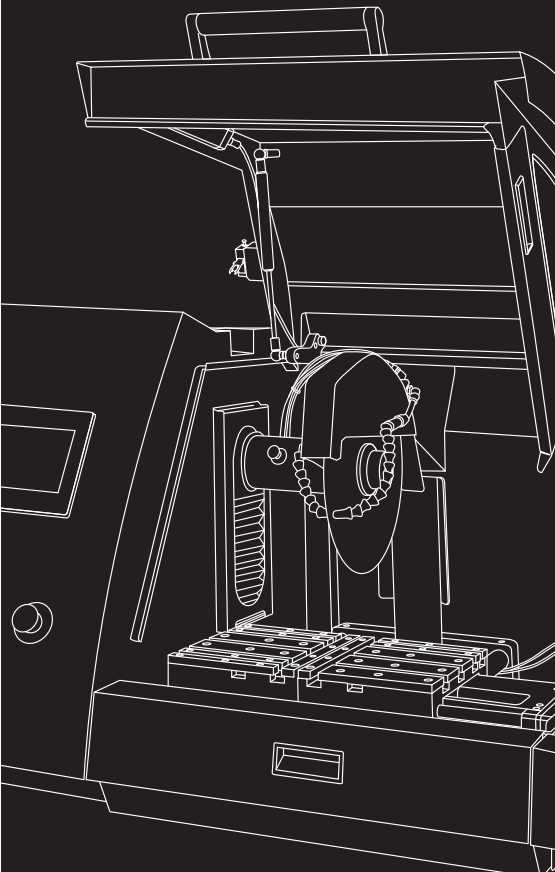
The MECATOME range is evolving, in particular with these new cutting modes (for automatic models) in order to continuously adapt to your needs.





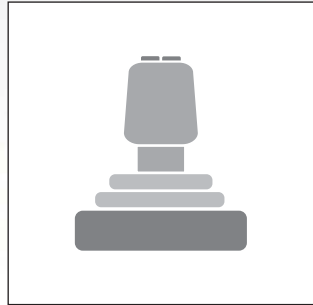
MECATOME
An extended and renewed range according to your needs

Increased simplicity
New design
Real working comfort



AUTOMATIC CUTTING MODES

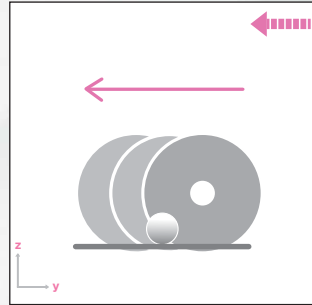
ASSISTED MODE



In this mode, the user directly controls the Y or Z axis feed (only T215 & T345) using the joystick and defines the maximum speed and the regulation if necessary. This is an effortless manual cut.

| T215 | T335 | T345 |
|------|------|------|
| ✓ | ✓ | ✓ |

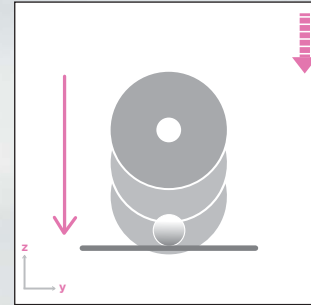
Y PULSE MODE



Cutting mode where the table advances intermittently along the Y axis. Dedicated to difficult materials or massive parts, this mode allows gradual release of the constraints and limits temperature peaks.

| T215 | T335 | T345 |
|------|------|------|
| ✓ | ✓ | ✓ |

Z PULSE MODE



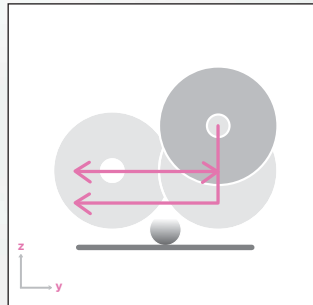
Cutting mode where the wheel advances intermittently along the Z axis. Dedicated to difficult materials, this mode allows gradual release of the constraints and limits temperature peaks.

| T215 | T335 | T345 |
|------|------|------|
| ✓ | | ✓ |

DISCOVER THEM IN IMAGES!



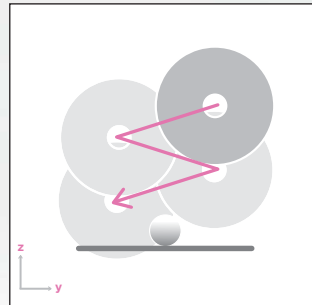
COMBINED MODE



Cutting mode allowing a Z then Y cut, regulated or not. This mode increases the cutting capacity of the machine. The multi-combined work mode allows the cut to be broken down into several steps along the Z axis. This mode is particularly suitable for thick parts.

| T215 | T335 | T345 |
|------|------|------|
| ✓ | | ✓ |

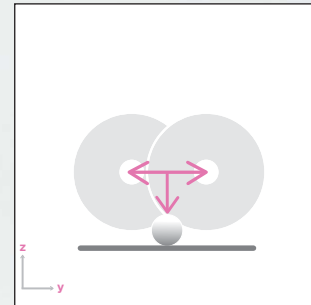
PROGRESSIVE COMBINED MODE



Cutting mode allowing a progression of the cut both along the Z axis and the Y axis, regulated or not. This mode optimizes the cutting time.

| T215 | T335 | T345 |
|------|------|------|
| ✓ | | ✓ |

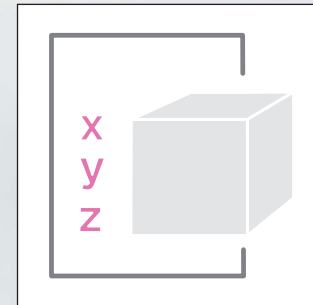
OSCILLATING MODE



Z cutting mode, oscillating along the Y axis, regulated or not. This mode is particularly dedicated to materials that are difficult to cut. The lubrication of the cutting area is greatly improved.

| T215 | T335 | T345 |
|------|------|------|
| ✓ | | ✓ |

EXPERT MODE



Operating mode that transforms your machine into a numerical control center, dedicated to cutting. This mode is compatible with the program mode.

| T215 | T335 | T345 |
|------|------|------|
| ✓ | ✓ | ✓ |

CUTTING

MECATOME T205



PRECISION MANUAL MICRO CUTTING MACHINE

REF. 51760

The MECATOME T205 is a manual precision micro-cutting machine characterized by its robustness and compact design. With a large working space, it allows for cuts with the highest precision and to work on a wide range of materials, from the softest to the hardest. Its powerful motor makes it possible to work at high and constant torque over the entire speed range from 100 to 4000 RPM.

- 440mm hood closed
770mm hood open
- 580mm
- 660mm
- 55kg

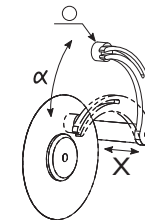


2 available cutting modes
Manual or by gravity



Recovery - Filtration
100µm washable stretch fabric filter

CUTTING CAPACITY*



- X 0-100 mm
- ∅ 40 mm
- α 0-50°

*This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

Check the technical specifications of the MECATOME T205



CHARACTERISTICS

HOOD

| | |
|--------|---|
| Type | Metal Frame & PETG |
| Safety | Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood |

MOTORISATION - POWER SUPPLY

| | |
|--------------|---|
| Power | 960W |
| Motor | Brushless, controlled by regulation board |
| Power supply | 110-230V - Single phase - 50/60Hz |

CUT-OFF WHEEL

| | |
|---------------------------|--------------------------------------|
| Cut-off wheel | Braked stopping of the cut-off wheel |
| Type of cut-off wheel | Resinoid & Metallic |
| Size of the cut-off wheel | from Ø75 to Ø200mm |
| Rotation speed | from 100 to 4000 RPM |
| Arbor size | 12.7mm |

CONTROL

| | |
|-------------------|-----------------------------------|
| Control interface | 4.3" TFT color touch screen, 16/9 |
| Security access | Can be activated |
| Programmability | Up to 3 programs |

CUTTING

| | |
|----------------|---|
| Operating mode | Manual or by gravity (weight / counterweight) |
| X axis travel | Lateral movement of the arm - Travel distance 100mm |
| Holders | Sample holders fixed on arm |

LUBRICATION- COOLING

| | |
|------------------------------------|--|
| Type of lubrication | By pump, flow rate 45L/min |
| Recirculation tank | Integrated - Capacity 3.5L |
| Type of filtration | 100µm fabric filter stretched over a metal frame |
| Method of directing pumped coolant | 1 adjustable lubrication point |

ERGONOMICS

| | |
|---------------------------|---|
| Internal lighting | LED lighting integrated into the hood (IP 68) |
| Spray nozzle for cleaning | Quick connector, linked to main lubrication point |
| Cutting disc change | Tool-less cut-off wheel changing system |
| No-load sound level | < 70 dB |

ACCESSORIES

SAMPLE HOLDERS



V shaped sample chuck
Ref. 51715



Orientable chuck
(To be used with aluminium plates
Ref. 51162 and 51163) - 51156



Vice chuck for longitudinal cuts
Ref. 51717



Chuck for small samples (vice typ)
Ref. 51713



Chuck for cylindrical samples
Ref. 51714



Chuck for irregular shape samples
Ref. 51716



Quick coupler rack T205/T215
51765

VICES



Mini screw vice
Ref. 51722



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

FLANGES



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

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

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

OTHER ACCESSORY



Analogical refractometer Brix 0-10
Ref. 19074



**Quick-release nut for T205/T215
Tool-less cut-off wheel change**
Ref. 51725

CUTTING

FLEXICUT

MICRO CUTTING MACHINE
DEDICATED TO PCB
AND FLAT SAMPLES

REF. 51800

The FLEXICUT is a micro-cutting machine suitable for the manual cutting of flat samples.

It has 3 cutting modes:

- Longitudinal table mode:
for PCB cutting.
- Fixed table mode.
- Micro-cutting machine mode.

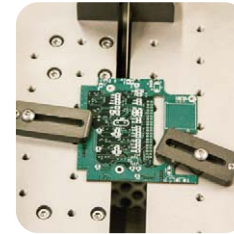
↑ 375mm
hood closed

↔ 800mm

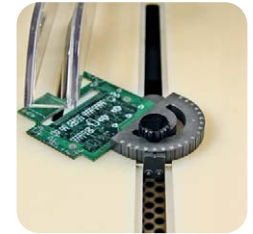
↘ 665mm

📖 52kg

CE

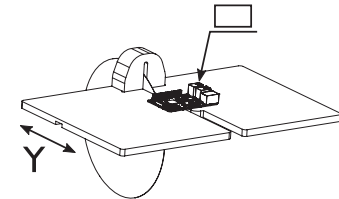


Linear table for PCB cuts
Ref. 51801



Fixed table for PCB cuts
Ref. 51802

CUTTING CAPACITY*



← 0 - 230mm

📏
Ø 150: 200 x 200 x 14mm
Ø 180: 200 x 180 x 29mm
Ø 200: 200 x 170 x 39mm

Check the technical specifications
of the FLEXICUT



* This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

CHARACTERISTICS

HOOD

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

MOTORISATION - POWER SUPPLY

| | |
|--------------|---|
| Power | 575W |
| Power supply | 220V / Single phase / 50Hz-110V / Single phase / 60Hz |

CUT-OFF WHEELS

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

CONTROL

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

CUTTING

| | |
|------------------------|--|
| Cutting method | Manual or by gravity (Weight/counter-Weight) |
| Type of table movement | Fixed or moving table options (Y axis) for PCB sectioning |
| Y axis range | Length of Y axis traverse - 230mm |
| X axis range | 100mm X-axis movement of the sample carrier arm |
| Table dimensions | Longitudinal movement table option for PCB cutting: 385 x 250mm Fixed table option for PCB cutting: 430 x 520mm |
| Table material | Option table with longitudinal movement - micro-rollers |
| Holders | Sample carrier arm will accept a wide variety of holders |

LUBRICATION - COOLING

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

ERGONOMICS

| | |
|---------------------------|------------|
| Spray nozzle for cleaning | Integrated |
|---------------------------|------------|

ACCESSORIES

SAMPLE HOLDERS



V shaped sample chuck
Ref. 51715



Vice chuck for longitudinal cuts
Ref. 51717



Orientable chuck
To be used with aluminium plates Ref. 51162 and 51163
Ref. 51156



Chuck for small samples (vice typ) 30mm max - 40mm on request
Ref. 51713

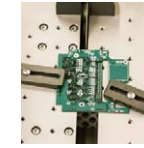


Chuck for cylindrical samples
Ref. 51714



Chuck for irregular shape samples
Ref. 51716

TABLES AND POSITIONING



Linear table for PCB cuts
Ref. 51801



Fixed table for PCB cuts
Ref. 51802

VICES



Mini screw vice
Ref. 51722



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

FLANGES



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

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

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

OTHER ACCESSORIES



Versatile led light with magnetic fixing
Ref. 51730

Set of 10 filters for Flexicut
Ref. 51721



Analogical refractometer Brix O-10
Ref. 19074

CUTTING

MECATOME T265



SIMPLE AND ROBUST MANUAL CUTTING MACHINE

REF. 51270

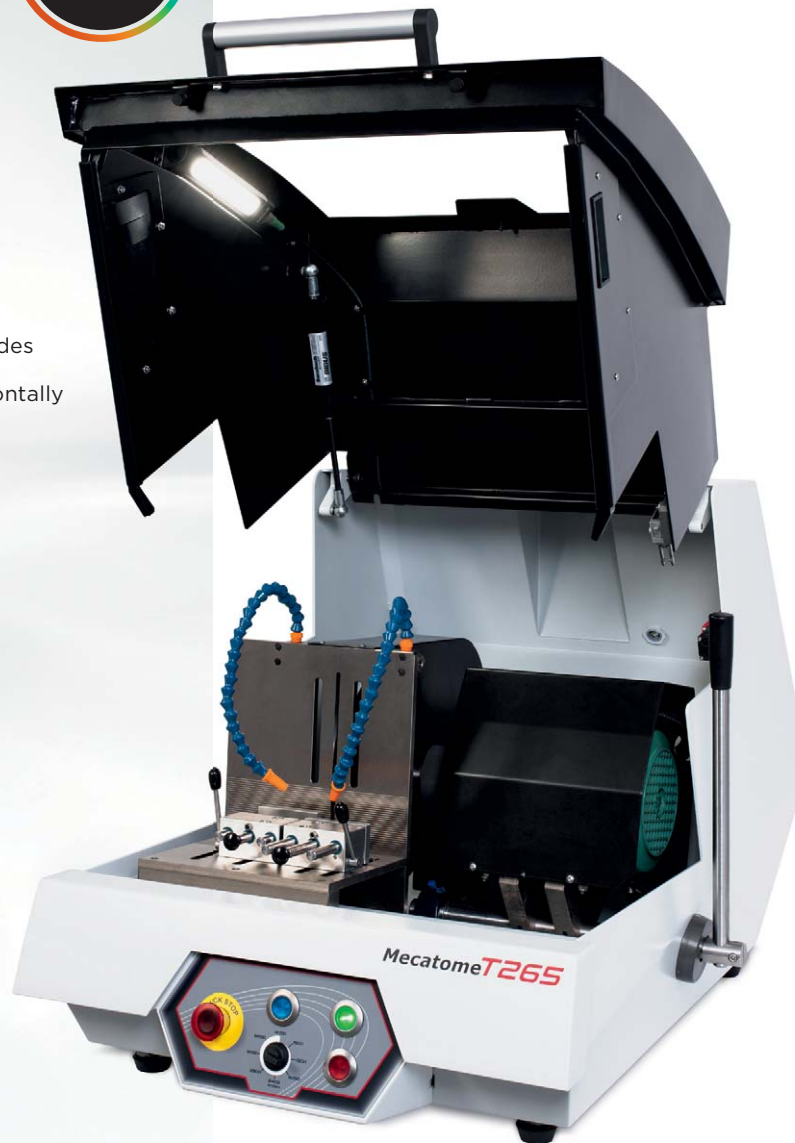
The robust MECATOME T265 accepts cutting discs of $\varnothing 250$ & $\varnothing 300$ mm. Its rotation speeds ranged from 1300 to 4000 RPM allow the use of diamond blades as well as resinoid discs. Its L-shaped table allows quick clamping of parts either horizontally or vertically.

↑ ↓ 1170mm
hood open

↔ 720mm

↙ ↘ 970mm

📏 147kg

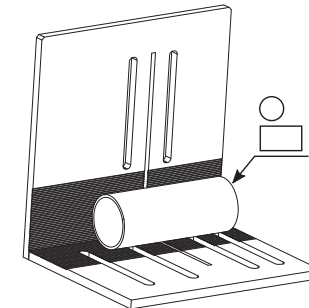


L-shaped
clamping table



Cleaning Gun

CUTTING CAPACITY*



⊙ $\varnothing 95$ mm
(wheel $\varnothing 300$ mm)

⊞ 120 x 60mm
150 x 25mm
85 x 85mm

* This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

Check the technical specifications
of the MECATOME T265



CHARACTERISTICS

HOOD

| | |
|------------------|---|
| Type | Metal Frame & PETG Stainless steel cutting chamber |
| Safety | Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood |
| Fumes extraction | Option: mist extraction with fluid recovery |

MOTORISATION - POWER SUPPLY

| | |
|------------------|---|
| Nominal power S1 | 2200W |
| Nominal power S2 | 2700W |
| Nominal power S3 | 3200W |
| Motor | Asynchronous motor controlled by frequency inverter |
| Power supply | 400V - Three-phase - 50/60Hz |

CUT-OFF WHEEL

| | |
|---------------------------|---|
| Type of cut-off wheel | Resinoid & Metallic |
| Size of the cut-off wheel | from Ø 250 to Ø 300mm |
| Rotation speed | 1300, 1600, 2000, 2400, 2800, 3200, 3800 & 4000 RPM |
| Arbor size | 25.4mm |

CONTROL

| | |
|-------------------|---------------|
| Control interface | Control Panel |
|-------------------|---------------|

CUTTING

| | |
|----------------|---|
| Operating mode | Manual |
| Table type | Treated Steel L-shaped table - 240mm wide |
| Holders | Vices in horizontal or vertical position |

LUBRICATION - COOLING

| | |
|------------------------------------|---|
| Type of lubrication | By pump, flow rate 70L/min |
| Recirculation tank | External - Capacity 25L |
| Type of filtration | Washable 100µm cloth filter, optional magnetic filter |
| Method of directing pumped coolant | 2 adjustable lubrication points |

ERGONOMICS

| | |
|---------------------------|--|
| Internal lighting | LED lighting integrated into the hood (IP 68) |
| Spray nozzle for cleaning | Integrated |
| Cutting disc change | Shaft lock for wheel change Tool-less cut-off wheel changing system |
| No-load sound level | < 70 dB |

ACCESSORIES

STAINLESS STEEL VICE & CLAMPING SYSTEMS



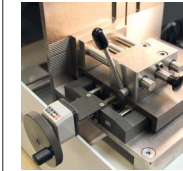
Left quick clamping vice
Ref. 51280
Right quick clamping vice
Ref. 51281



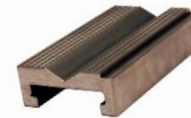
Kopal clamp
Ref. 50616

Kopal Kit
Ref. 50613

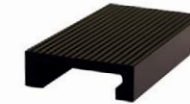
TABLES & POSITIONING



Cross table
Ref. 51212



**Stainless steel V-type moving jaw
for clamping vice 45mm height**
Ref. 51282



**Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice**
Ref. 51283

OTHER ACCESSORIES



Suction & extraction
Ref. 51273



Magnetic filter (option)
Ref. 51271



**Quick-release nut for
Tool-less cut-off wheel change**
Ref. 51272



3 Filters for cooling tank 25L
Ref. 51621



Base cabinet
Ref. 51006



**Base cabinet for manual cutting
machine (small mode)**
Ref. 51275



Analogical refractometer Brix 0-10
Ref. 19074

CUTTING

MECATOME T305



ROBUST AND FLEXIBLE MANUAL CUTTING MACHINE

REF. 50220

Robust and flexible, the MECATOME T305 accepts Ø250 & Ø300mm cutting discs. Its rotation speeds ranging from 1000 to 4000 RPM allow the use of diamond discs as well as resinoids. Its stainless steel pallet table is compatible with all clamping systems on the market and its plunge cutting movement makes it the ideal machine for routine cutting.

↑ 710mm hood closed
1130mm hood open

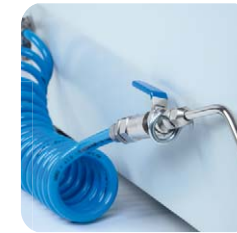
↔ 730mm

↘ 975mm

📏 156kg



Check the technical specifications
of the MECATOME T305

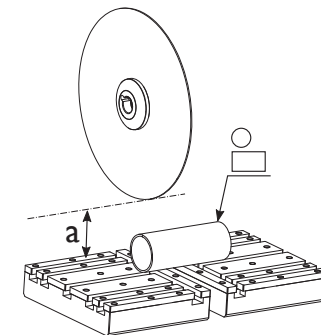


Cleaning gun



4 point lubrication

CUTTING CAPACITY*



a 90mm
(wheel Ø 300mm)

⊙ Ø 105mm

📏 210 x 50mm

*This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

CHARACTERISTICS

HOOD

| | |
|------------------|---|
| Type | Metal Frame & PETG Stainless steel cutting chamber |
| Safety | Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood |
| Fumes extraction | Option: mist extraction with fluid recovery |

MOTORISATION - POWER SUPPLY

| | |
|------------------|---|
| Nominal power S2 | 3700W |
| Nominal power S3 | 4000W |
| Motor | Asynchronous motor controlled by frequency inverter |
| Power supply | 400V - Three-phase - 50/60Hz |

CUT-OFF WHEEL

| | |
|---------------------------|----------------------|
| Type of cut-off wheel | Resinoid & Metallic |
| Size of the cut-off wheel | from Ø 250 à Ø 300mm |
| Rotation speed | 1000 to 4000 RPM |
| Arbor size | 25.4mm |

CONTROL

| | |
|-------------------|--|
| Control interface | Touchscreen Visualization of the motor load |
| Security access | Can be activated |

CUTTING

| | |
|--|--|
| Cutting modes | Manual |
| Distance between cut-off wheel and table | 90mm (with Ø 300mm cut-off wheel) |
| Table type | Treated aluminum table, interchangeable stainless steel pallets |
| HOLDERS | T-slotted table (12mm) accepting all commercial clamping systems |

LUBRICATION - COOLING

| | |
|------------------------------------|---|
| Type of lubrication | By pump, flow rate 70L/min |
| Recirculation tank | External - Capacity 55L |
| Type of filtration | Washable 100µm cloth filter, optional magnetic filter |
| Method of directing pumped coolant | 2 lubrication points integrated in cut-off wheel guard 2 orientable lubrication points |

ERGONOMICS

| | |
|---------------------------|---|
| Internal lighting | LED lighting integrated into the hood (IP 68) |
| Spray nozzle for cleaning | Integrated |
| Cutting disc change | Tool-less cut-off wheel changing system |
| No-load sound level | < 70 dB |

ACCESSORIES

STAINLESS STEEL VICE & CLAMPING SYSTEMS



Left quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50236



Right quick clamping vice
45mm height + moving
jaw
Ref. 50235



Left quick clamping vice
70mm height removable
jaw + rear jaw
Ref. 50241

Right quick clamping vice
70mm height removable
jaw + rear jaw
Ref. 50240



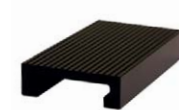
Left quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50246



Right quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50245



Stainless steel V-type
moving jaw for clamping
vice 45mm height
Ref. 51282



Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice 45mm
Ref. 51283

Stainless steel V-type
moving jaw for clamping
vice 45mm height
Ref. 50243

Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice 45mm
Ref. 50242

TABLES & POSITIONNEMENT



Manual transversal table
Ref. 50244



Kit of v positioning
supports
Ref. 50370



Kopal Clamp
Ref. 50616



Kopal Kit
Ref. 50613

OTHER ACCESSORIES



Base cabinet for manual
cutting machine
Ref. 51275



Base cabinet
Ref. 51006



Magnetic filter
Ref. 50222



Suction & extraction
Ref. 51273



3 Filters for cooling tank
Ref. 51620



Analogical refractometer
Brix 0-10
Ref. 19074

CUTTING

MECATOME ST315



MANUAL CUTTING MACHINE WITH OSCILLATING MOVEMENT

REF. 50230

Robust and powerful, the MECATOME ST315 accepts cutting discs of Ø250 & Ø300mm. Its rotation speeds ranging from 1000 to 4000 RPM allow the use of diamond discs as well as resinoids. Its stainless steel pallet table is compatible with all clamping systems on the market and its plunge and swing cutting movement make it the ideal machine for fast cutting with time savings of up to 60%.

↑ 710mm hood closed
↑ 1130mm hood open

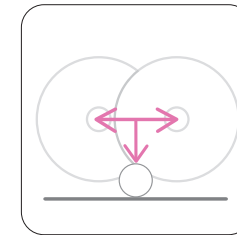
↔ 720mm

↘ 975mm

📦 160kg



Check the technical specifications
of the MECATOME ST315

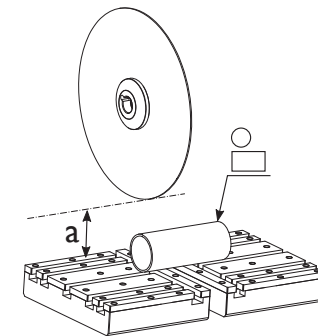


Oscillating movement
with ergonomic handle



Cleaning Gun

CUTTING CAPACITY*



a 130mm
(wheel Ø 300mm)

○ Ø 105mm

□ 210 x 50mm

*This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

CHARACTERISTICS

HOOD

| | |
|------------------|---|
| Type | Metal Frame & PETG Stainless steel cutting chamber |
| Safety | Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood |
| Fumes extraction | Option: mist extraction with fluid recovery |

MOTORISATION - POWER SUPPLY

| | |
|------------------|---|
| Nominal power S2 | 3700W |
| Nominal power S3 | 4000W |
| Motor | Asynchronous motor controlled by frequency inverter |
| Power supply | 400V - Three-phase - 50/60 Hz |

CUT-OFF WHEEL

| | |
|---------------------------|----------------------|
| Type of cut-off wheel | Resinoid & Metallic |
| Size of the cut-off wheel | from Ø 250 à Ø 300mm |
| Rotation speed | 1000 to 4000 RPM |
| Arbor size | 25.4mm |

CONTROL

| | |
|-------------------|--|
| Control interface | Touchscreen Visualization of the motor load |
| Security access | Can be activated |

CUTTING

| | |
|--|--|
| Cutting modes | Manual, swing movement |
| Distance between cut-off wheel and table | 130mm (with Ø 300mm cut-off wheel) |
| Table type | Treated aluminum table, interchangeable stainless steel pallets |
| HOLDERS | T-slotted table (12mm) accepting all commercial clamping systems |

LUBRICATION - COOLING

| | |
|------------------------------------|---|
| Type of lubrication | By pump, flow rate 70 L/min |
| Recirculation tank | External - Capacity 55L |
| Type of filtration | Washable 100µm cloth filter, optional magnetic filter |
| Method of directing pumped coolant | 2 lubrication points integrated in cut-off wheel guard 2 orientable lubrication points |

ERGONOMICS

| | |
|---------------------------|---|
| Internal lighting | LED lighting integrated into the hood (IP 68) |
| Spray nozzle for cleaning | Integrated |
| Cutting disc change | Tool-less cut-off wheel changing system |
| No-load sound level | < 70 dB |

ACCESSORIES

STAINLESS STEEL VICE & CLAMPING SYSTEMS



Left quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50236



Right quick clamping vice
45mm height + moving
jaw
Ref. 50235



Left quick clamping vice
70mm height removable
jaw + rear jaw
Ref. 50241



Right quick clamping vice
70mm height removable
jaw + rear jaw
Ref. 50240



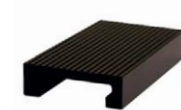
Left quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50246



Right quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50245



Stainless steel V-type
moving jaw for clamping
vice 45mm height
Ref. 51282



Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice 45mm
Ref. 51283

Stainless steel V-type
moving jaw for clamping
vice 45mm height
Ref. 50243

Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice 45mm
Ref. 50242

TABLES & POSITIONING



Manual transversal table
Ref. 50244



Kit of v positioning
supports
Ref. 50370



Kopal Clamp
Ref. 50616



Kopal Kit
Ref. 50613

OTHER ACCESSORIES



Base cabinet for manual
cutting machine
Ref. 51275



Base cabinet
Ref. 51006



Magnetic filter
Ref. 50222



Suction & extraction
Ref. 51273



3 Filters for cooling tank
Ref. 51620



Analogical refractometer
Brix 0-10
Ref. 19074

CUTTING

MECATOME T215



AUTOMATIC MICRO CUTTING MACHINE

REF. 51460

Robust and compact, the MECATOME T215 is an automatic micro-cutting machine. Its three programmable motorized axes make it a machine that adapts to all situations. The MECATOME T215 offers numerous cutting modes that allow to optimize the cutting of the most complex parts.

↑ 540mm hood closed
1010mm hood open

↔ 840mm

↗ 860mm

📦 135kg



Magnetic filtration

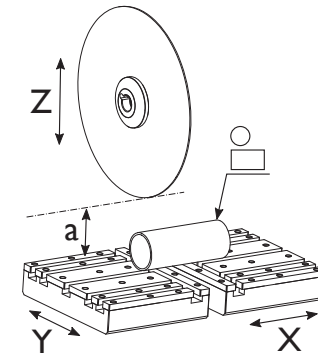


Two-hand control



Transversal table with motorized movement
Ref. 51461

CUTTING CAPACITY*



Z 60mm **Y** 250mm **X** Optional: 100mm

a 40mm (cut-off wheel Ø 200mm) **Ø** 55mm **□** 55 x 190mm

Check the technical specifications of the MECATOME T215



*This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

CHARACTERISTICS

HOOD

| | |
|------------------|---|
| Type | Metal Frame & PETG Stainless steel cutting chamber |
| Safety | Two-hand control for table positioning, when hood open Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood |
| Fumes extraction | Option: mist extraction with fluid recovery |

MOTORISATION - POWER SUPPLY

| | |
|------------------|---|
| Nominal power S1 | 1500W |
| Nominal power S2 | 2200W |
| Nominal power S3 | 2700W |
| Motor | Asynchronous motor controlled by frequency inverter |
| Power supply | 230V - Single phase - 50/60Hz |

CUT-OFF WHEEL

| | |
|---------------------------|----------------------|
| Type of the cut-off wheel | Resinoid & Metallic |
| Size of the cut-off wheel | from Ø 75 to Ø 200mm |
| Rotation speed | from 300 to 6000 RPM |
| Arbor size | 12.7mm |

CONTROL

| | |
|-------------------|---|
| Control interface | Touchscreen 3-dimensional joystick with 2 shortcut buttons |
| Security access | Can be activated |
| Programmability | Up to 100 programs, password protected |

CUTTING

| | |
|--|--|
| Operating mode | Assisted, Automatic, Program Mode |
| Cutting modes | Regulated, Pulse Cutting, Combined, Oscillating |
| Table automation | Y-axis movement |
| Cutting control | Feeding Regulation |
| Cutting axis | Motorized Y & Z axes (The X axis being a positioning axis) |
| Y axis travel | 250mm |
| Y axis speed | from 0.01 to 3mm/s |
| Z axis travel | 60mm |
| Z axis speed | from 0.01 to 3mm/s |
| Serial cutting | Option: motorized x-axis table, travel distance 100mm |
| Table dimensions | Left table: 82 x 210mm Right table: 142 x 210mm |
| Distance between cut-off wheel and table | 40mm (with Ø 200mm cut-off wheel) |
| Positioning laser | Option: Laser Class 1M; Po = 1mW; I = 635nm |
| Table type | Treated aluminum table, interchangeable stainless steel pallets |
| Holders | T-slotted table (12mm) accepting all commercial clamping systems |

LUBRICATION - COOLING

| | |
|------------------------------------|---|
| Type of lubrication | By pump, flow rate 45L/min |
| Recirculation tank | Integrated - Capacity 10L Option: 25L external tank and pump |
| Type of filtration | Integrated: Grid & 100µm filter, optional magnetic filter External: Washable 100µm cloth filter, magnetic filter |
| Method of directing pumped coolant | 6 lubrication points in the cut-off wheel guard |

ERGONOMICS

| | |
|---------------------------|---|
| Internal lighting | LED lighting integrated into the hood (IP 68) |
| Spray nozzle for cleaning | Quick connector, linked to main lubrication point |
| Cutting disc change | Tool-less cut-off wheel changing system |
| No-load sound level | < 70 dB |

ACCESSORIES

SAMPLE HOLDERS



Adapting support for sample chuck (to use only with a transversal table)
Ref. 51410



Vice chuck for longitudinal cuts
Ref. 51717



Orientable chuck (to be used with aluminium plates ref. 51162 And 51163)
Ref. 51156



Chuck for cylindrical samples
Ref. 51714



Chuck for small samples (Vice Typ)
Ref. 51713



Chuck for irregular shape samples
Ref. 51716



Quick coupler rack T205/T215
Ref. 51765



Motorized transversal table
Ref. 51461

STAINLESS STEEL VICE & CLAMPING SYSTEMS



Cast in one piece quick clamping vice with moving jaw.
left side - Ref. 51466
right side - Ref. 51465



Stainless steel quick clamping vice for long samples
Ref. 51469

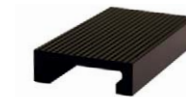


V shaped sample chuck
Ref. 51715



Manual transversal table for MECATOME T201/T210/T215
Ref. 51355

OTHER ACCESSORIES



Special fragile samples "Delrin" thermoplastic moving jaw for clamping vice T215
Ref. 51467



Stainless steel V-type moving jaw for clamping vice T215
Ref. 51468



Base cabinet for automatic cutting machine
Ref. 51470



Base cabinet (small model)
Ref. 51006



Kopal Clamp
Ref. 50616

Kopal kit
Ref. 50613



Set of stainless steel flanges Ø 75mm for wheel Ø 150 to 200mm
Ref. 51325
Set of stainless steel flanges Ø 50mm for wheel Ø 100 to 150mm
Ref. 51326



25L recirculating tank
Ref. 51462



Suction & extraction
Ref. 51464

CUTTING

MECATOME T335



MANUAL AND AUTOMATIC CUTTING MACHINE

REF. 50380

Powerful and precise, the MECATOME T335 is an automatic cutting machine on its longitudinal axis and manual on its vertical axis. Its rotation speeds ranging from 1000 to 6000 RPM allow the use of diamond discs as well as resinoids. The MECATOME T335 offers the best of both worlds with the possibility of performing regulated or impulse cuts while maintaining the ease of manual cutting.



↑ 680mm hood closed
11180 mm hood open

↔ 1025mm

↘ 954mm

📦 210kg



Check the technical specifications
of the MECATOME T335



Cleaning Gun

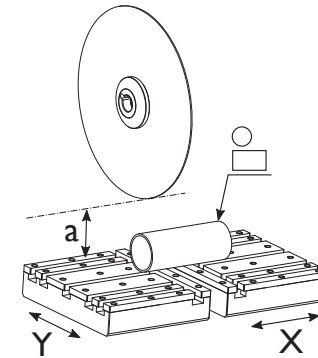


Transversal table with
motorized movement
Ref. 50381



Two-hand control

CUTTING CAPACITY*



Y 240mm

X Optional: 100mm

a 80mm

○ Ø 105mm

□ 105 x 145mm

(cut-off wheel
Ø 300mm)

* This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

CHARACTERISTICS

HOOD

| | |
|------------------|---|
| Type | Metal Frame & PETG Stainless steel cutting chamber |
| Safety | Two-hand control for table positioning, when hood open Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood |
| Fumes extraction | Option: mist extraction with fluid recovery |

MOTORISATION - POWER SUPPLY

| | |
|------------------|---|
| Nominal power S2 | 3700W |
| Nominal power S3 | 4000W |
| Motor | Asynchronous motor controlled by frequency inverter |
| Power supply | 400V - Three-phase - 50/60Hz |

CUT-OFF WHEEL

| | |
|---------------------------|----------------------|
| Type of cut-off wheel | Resinoid & Metallic |
| Size of the cut-off wheel | from Ø 250 à Ø 300mm |
| Rotation speed | 1000 à 6000 RPM |
| Arbor size | 25.4mm |

CONTROL

| | |
|-------------------|---|
| Control interface | Touchscreen 2-dimensional joystick with 2 shortcut buttons |
| Security access | Can be activated |
| Programmability | Up to 100 programs, password protected |

CUTTING

| | |
|--|--|
| Operating mode | Manual, Assisted, Automatic, Program Mode |
| Cutting modes | Regulated, Pulse Cutting |
| Table automation | Y-axis movement |
| Cutting control | Feeding Regulation |
| Cutting axis | Motorized Y-axis and Manual Z-axis (The X axis being a positioning axis) |
| Y axis travel | 240mm |
| Y axis speed | from 0.01 to 3mm/s |
| Z axis travel | 60mm |
| Z axis speed | from 0.01 to 3mm/s |
| Serial cutting | Option: motorized x-axis table, travel distance 100mm |
| Table dimensions | Left table: 192 x 230mm Right table: 192 x 230mm |
| Distance between cut-off wheel and table | 77.5mm (with Ø 300mm cut-off wheel) |
| Positioning laser | Option: Laser Class 1M; Po = 1mW; I = 635nm |
| Table type | Treated aluminum table, interchangeable stainless steel pallets |
| Holder | T-slotted table (12mm) accepting all commercial clamping systems |

LUBRICATION - COOLING

| | |
|------------------------------------|---|
| Type of lubrication | By pump, flow rate 70L/min |
| Recirculation tank | External - Capacity 55L |
| Type of filtration | Washable 100µm cloth filter, optional magnetic filter |
| Method of directing pumped coolant | 2 lubrication points integrated in cut-off wheel guard 2 orientable lubrication points |

ERGONOMICS

| | |
|---------------------------|---|
| Internal lighting | LED lighting integrated into the hood (IP 68) |
| Spray nozzle for cleaning | Integrated |
| Cutting disc change | Tool-less cut-off wheel changing system |
| No-load sound level | < 70 dB |

ACCESSORIES

STAINLESS STEEL VICE & CLAMPING SYSTEMS



Left quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50236



Right quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50235

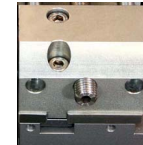


Left quick clamping vice
45mm removable jaw
+ rear jaw
Ref. 50241

Right quick clamping vice
45mm removable jaw
+ rear jaw
Ref. 50240



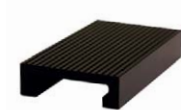
Left quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50246



Right quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50245



Stainless steel V-type
moving jaw for clamping
vice 45mm height
Ref. 51282



Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice 45mm
Ref. 51283

Stainless steel V-type
moving jaw for clamping
vice 45mm height
Ref. 50243

Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice 70mm
Ref. 50242



Kopal Clamp
Ref. 50616

Kopal Kit
Ref. 50613

TABLES & POSITIONING



Motorized transversal
table
Ref. 50381



Manual transversal table
Ref. 50244



Kit of V positioning
supports
Ref. 50370

OTHER ACCESSORIES



Base cabinet for automatic
cutting machine
Ref. 51470



Base cabinet (big size)
Ref. 51010



Magnetic filter
Ref. 50222



Suction & extraction
Ref. 51273



Positioning laser for
MECATOME T335
Ref. 50382



3 Filters for cooling tank
Ref. 51620



Analogical refractometer
Brix 0-10
Ref. 19074

CUTTING

MECATOME T345



AUTOMATIC CUTTING MACHINE

REF. 50390

Powerful and precise, the MECATOME T345 is an automatic cutting machine. Its rotation speeds ranging from 1000 to 6000 RPM allow the use of diamond discs as well as resinoids. Its three programmable motorized axes make it a machine that adapts to all situations. The MECATOME T345 offers numerous cutting modes which optimize the cutting of the most complex parts.



Cleaning gun



Transversal table with motorized movement
Ref. 50391



Two-hand control

680mm hood closed
11180mm hood open

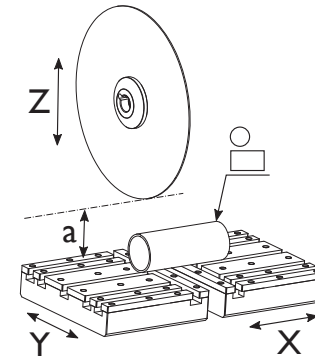
1060mm

910mm

210kg



CUTTING CAPACITY*



Z 150mm **Y** 240mm **X** Optional: 100mm

a 90mm (cut-off wheels Ø 300mm) **Ø** 105mm **□** 105 x 145mm

*This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

Check the technical specifications of the MECATOME T345



CHARACTERISTICS

HOOD

| | |
|------------------|---|
| Type | Metal Frame & PETG Stainless steel cutting chamber |
| Safety | Two-hand control for table positioning, when hood open Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood |
| Fumes extraction | Option: mist extraction with fluid recovery |

MOTORISATION - POWER SUPPLY

| | |
|------------------|---|
| Nominal power S2 | 3700W |
| Nominal power S3 | 4000W |
| Motor | Asynchronous motor controlled by frequency inverter |
| Power supply | 400V - Three-phase - 50/60Hz |

CUT-OFF WHEEL

| | |
|---------------------------|---------------------|
| Type of cut-off wheel | Resinoid & Metallic |
| Size of the cut-off wheel | Up to Ø 300mm |
| Rotation speed | 1000 to 6000 RPM |
| Arbor size | 25.4mm |

CONTROL

| | |
|-------------------|---|
| Control interface | Touchscreen 3-dimensional joystick with 2 shortcut buttons |
| Security access | Can be activated |
| Programmable | Up to 100 password protected programs |

CUTTING

| | |
|------------------|--|
| Operating mode | Assisted, Automatic, Program Mode |
| Cutting modes | Regulated, Pulse Cutting, Combined, Oscillating |
| Table automation | Y-axis movement |
| Cutting control | Feeding Regulation |
| Cutting axis | Motorized Y & Z axes (The X axis being a positioning axis) |
| Y axis travel | 240mm |
| Y axis speed | from 0.01 to 3mm/s |
| Z axis travel | 150mm |
| Z axis speed | from 0.01 to 3mm/s |
| Serial cutting | Option: motorized x-axis table, travel distance 100mm |

| | |
|--|--|
| Table dimensions | Left Table: 192 x 230mm Right Table: 192 x 230mm |
| Distance between cut-off wheel and table | 77.5mm (with Ø 300mm cut-off wheel) |
| Positioning laser | Option: Laser Class 1M; P _o = 1mW; λ = 635nm |
| Table type | Treated aluminum table, interchangeable stainless steel pallets |
| Holders | T-slotted table (12mm) accepting all commercial clamping systems |

LUBRICATION - COOLING

| | |
|------------------------------------|---|
| Type of lubrication | By pump, flow rate 70L/min |
| Recirculation tank | External - Capacity 55L |
| Type of filtration | Washable 100µm cloth filter, optional magnetic filter |
| Method of directing pumped coolant | 2 lubrication points integrated in cut-off wheel guard Two orientable lubrication points |

ERGONOMICS

| | |
|---------------------------|---|
| Internal lighting | LED lighting integrated into the hood (IP 68) |
| Spray nozzle for cleaning | Integrated |
| Cutting disc change | Tool-less cut-off wheel changing system |
| No-load sound level | < 70 dB |

ACCESSORIES

STAINLESS STEEL VICE & CLAMPING SYSTEMS



Left quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50236



Right quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50235

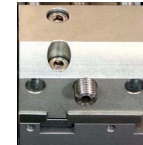


Left quick clamping vice
45mm removable jaw
+ rear jaw
Ref. 50241

Right quick clamping vice
45mm removable jaw
+ rear jaw
Ref. 50240



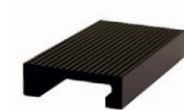
Left quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50246



Right quick clamping vice
45mm height removable
jaw + rear jaw
Ref. 50245



Stainless steel V-type
moving jaw for clamping
vice 45mm height
Ref. 51282



Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice 45mm
Ref. 51283

Stainless steel V-type
moving jaw for clamping
vice 45mm height
Ref. 50243

Special fragile samples "Delrin"
thermoplastic moving jaw
for clamping vice 70mm
Ref. 50242



Kopal Clamp
Ref. 50616

Kopal Kit
Ref. 50613

TABLES & POSITIONING



Motorized transversal
table
Ref. 50381



Manual transversal table
Ref. 50244



Kit of V positioning
supports
Ref. 50370

OTHER ACCESSORIES



Base cabinet for automatic
cutting machine
Ref. 51470



Base cabinet (big size)
Ref. 51010



Magnetic filter
Ref. 50222



Suction & extraction
Ref. 51273



Positioning laser for
MECATOME T345
Ref. 50392



3 Filters for cooling tank
Ref. 51620



Analogical refractometer
Brix 0-10
Ref. 19074

CUTTING

EVO 400 / 400+

HIGH CAPACITY CUTTING MACHINE

EVO 400 REF. 50400
EVO 400+ REF. 50430

The EVO 400 is a spacious, powerful and robust cutting machine. It has a height under cut-off wheel of 190mm and its tables can support samples weighing more than 200kg. This machine, suitable for workshops, combines robustness and ease of use. It offers 3 cutting modes: assisted, automatic and programmable (repeatability of cuts) and can cut through the toughest materials. Ergonomic, it is equipped with a motorized cover and a multilingual color touch screen facilitating the man-machine interface.

↑ 1910mm hood closed
 ↓ 2380mm hood open

↔ 1140mm screen closed
 ↔ 1620mm screen open

↙ 1600mm

📦 750kg



Check out the EVO 400 user video



Tray and Filter

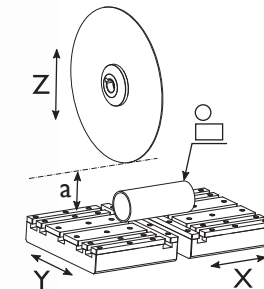


X-axis manual table
 250 x 600mm travel
 200mm - Ref. 50410



Y-axis manual table
 600 x 300mm travel
 300mm - Ref. 50411

CUTTING DIAGRAM*



Ø 125mm



190mm



70 x 270mm

*This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

CHARACTERISTICS

HOOD

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

MOTORISATION - POWER SUPPLY

| | |
|----------------------|---------------------------------------|
| Nominal power S1 | EVO 400: 7500W / EVO 400 +: 9000W |
| Nominal power S3 | EVO 400: 11,000W / EVO 400 +: 15,000W |
| Power supply | 380V / Three-phases / 50Hz |
| Control of the motor | Frequency inverter |

CUT-OFF WHEELS

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

CONTROL

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

CUTTING

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

LUBRICATION - COOLING

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

ERGONOMICS

| | |
|---------------------------|------------|
| Internal lighting | LED |
| Spray nozzle for cleaning | Integrated |

* Customizable tables and strokes.

ACCESSORIES

STAINLESS STEEL VICE & CLAMPING SYSTEMS



Left quick clamping vice 45mm height removable jaw + rear jaw
Height 45mm - Ref. 50236
Height 70mm - Ref. 50241



Right quick clamping vice 45mm height + moving jaw + rear jaws
Height 45mm - Ref. 50235
Height 70mm - Ref. 50240



Double quick clamping vices right & left height 90mm
Ref. 50911



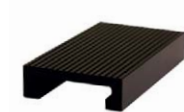
Left quick clamping vice 45mm height removable jaw + rear jaw
Ref. 50246



Right quick clamping vice 45mm height removable jaw + rear jaw
Ref. 50245



Stainless steel V-type moving jaw for clamping vice 45mm height
Ref. 51282



Special fragile samples "Delrin" thermoplastic moving jaw for clamping vice 45mm
Ref. 51283

Stainless steel v-type moving jaw for clamping vice 70mm height
Ref. 50243

Special fragile samples "Delrin" thermoplastic moving jaw for clamping vice 70mm
Ref. 50242



Kopal Clamp
Ref. 50616

Kopal Kit
Ref. 50613



Kopal chain clamping system
Ref. 50617

TABLES & POSITIONING

X-axis manual table
Ref. 50410

Y-axis manual table
Ref. 50411

Y-axis option - motorized longitudinal movement table
Ref. 50409



Kit of V positioning supports
Ref. 50370

OTHER ACCESSORIES



Positioning laser
Ref. 50412



Set of 2 filters
Ref. 81500



Suction & extraction
Ref. 50408

CUTTING

EVO 450

HIGH CAPACITY CUTTING MACHINE

REF. 50450

The EVO 450 is a spacious, powerful and robust cutting machine. It has a height under cut-off wheel of 165mm and its tables can support samples weighing more than 200kg. This machine, suitable for workshops, combines robustness and ease of use. It offers 3 cutting modes: assisted, automatic and programmable (repeatability of cuts) and can cut through the toughest materials. Ergonomic, it is equipped with a motorized cover and a multilingual color touch screen facilitating the man-machine interface.

Available as an option:

- Positioning Laser
- Manual transverse table (X axis) to facilitate lateral adjustment of the part and cutting parallel sections.
- Longitudinal manual table (Y axis)
- Tray and filter.

↑ 1910mm hood closed
↑ 2380mm hood open

↔ 1140mm screen closed
↔ 1620mm screen open

↘ 1600mm

📦 750kg



Check out the EVO 450 user video

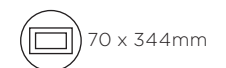
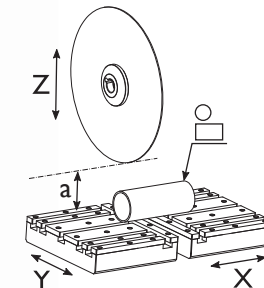


Tray and Filter



Positioning laser

CUTTING DIAGRAM*



*This cutting diagram has been designed for informational purposes. It represents the theoretical maximum cutting capacity. The described cutting capacities can be increased depending on the materials, the cutting frequency and selected flanges.

CHARACTERISTICS

HOOD

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

MOTORISATION - POWER SUPPLY

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

CUT-OFF WHEELS

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

CONTROL

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

CUTTING

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

LUBRICATION- COOLING

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

ERGONOMICS

| | |
|---------------------------|------------|
| Internal lighting | LED |
| Spray nozzle for cleaning | Integrated |

* Customizable tables and strokes.

ACCESSORIES

STAINLESS STEEL VICE & CLAMPING SYSTEMS



Left quick clamping vice 45mm height removable jaw + rear jaw
Height 45mm - Ref. 50236
Height 70mm - Ref. 50241



Right quick clamping vice 45mm height + moving jaw + rear jaws
Height 45mm - Ref. 50235
Height 70mm - Ref. 50240



Double quick clamping vices right & left height 90mm
Ref. 50911



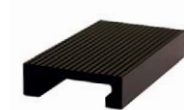
Left quick clamping vice 45mm height removable jaw + rear jaw
Ref. 50246



Right quick clamping vice 45mm height removable jaw + rear jaw
Ref. 50245



Stainless steel V-type moving jaw for clamping vice 45mm height
Ref. 51282



Special fragile samples "Delrin" thermoplastic moving jaw for clamping vice 45mm
Ref. 51283

Stainless steel v-type moving jaw for clamping vice 70mm height
Ref. 50243

Special fragile samples "Delrin" thermoplastic moving jaw for clamping vice 70mm
Ref. 50242



Kopal Clamp
Ref. 50616

Kopal Kit
Ref. 50613



Kopal chain clamping system
Ref. 50617

TABLES & POSITIONING



X-axis manual table
Ref. 50410



Kit of V positioning supports
Ref. 50370



Y-axis manual table
Ref. 50411

Y-axis option - motorized longitudinal movement table
Ref. 50409



Positioning laser
Ref. 50412



Set of 2 filters
Ref. 81500



Suction & extraction
Ref. 50408

CUTTING

DIAMOND WIRE SAWS

ABSOLUTE CUTTING FINESSE AND PRECISION

REF. 52020

With their stainless steel wire set with diamonds, the diamond wire saws allow the cutting of most materials.

They are particularly recommended for cutting delicate samples such as silicon, glass or electronic components.

Low speeds allow excellent protection for the sample surface and no risk of overheating.

They ensure flat cutting surfaces with sharp edges and avoid the modification of structure on both sides of the cut.

Finally the sample clamping system avoids any dimensional deformation and the horizontal or vertical working mode makes cutting easier.



CE

SAW 4500
REF. 52040



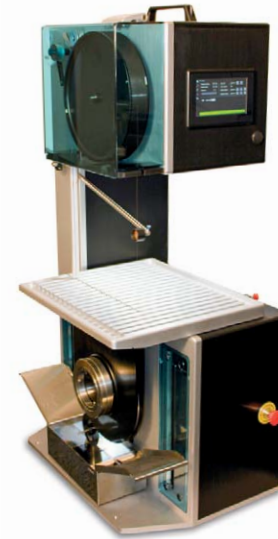
860mm



85kg



L: 590mm
l: 480mm



CE

SAW 6500
REF. 52050



1 200mm



105kg



L: 650mm
l: 480mm



CE

SAW 3400
REF. 52030



310mm



11,3kg



L: 450mm
l: 290mm



CE

SAW 3500 BASE
REF. 52010



460mm



13,8kg



L: 410mm
l: 345mm



CE

SAW 3500 PREMIUM
REF. 52020



460mm



13,8kg



L: 410mm
l: 345mm

Check the DIAMOND WIRE SAWS
video



CHARACTERISTICS

| | 3500 | 3500 PREMIUM | 3400 |
|--|-----------|--------------|-----------|
| POWER SUPPLY - CONTROL | | | |
| Voltage 230V, 50-60Hz | ✓ | ✓ | ✓ |
| Access code | ✓ | ✓ | ✓ |
| Main 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. | DESCRIPTION | Ø | GRANULOMETRY |
|-------|--------------------|----------|--------------|
| 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 |



33 type winder
Ref. 52301



Stainless steel axis for sample holder support
Ref. 52305

ACCESSORIES



Sample holder
Ref. 52307

Turning deck
Ref. 52308

X-Y table
Ref. 52309

Micrometric table
Ref. 52310

Dual Vice
Ref. 52311

Goniometer
Ref. 52312

Cutting fluid
Ref. 52302 500 ml
Ref. 52304 5 L

Set of 5 ceramic plates
Ref. 52303

Drum
Ref. 52306

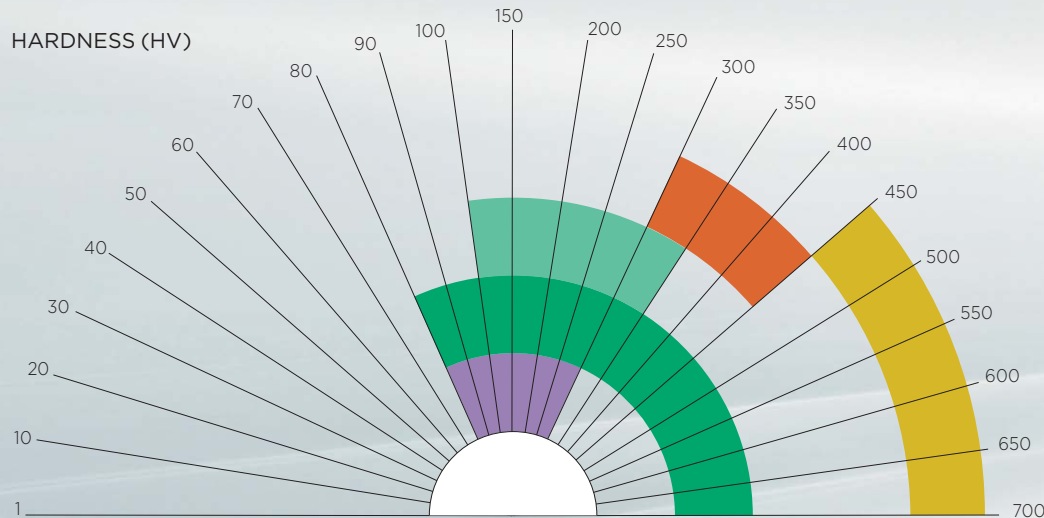
All the sample holders of the Mecatome T205 are adaptable on all our wire saws.



RESINOID CUT-OFF WHEELS

FERROUS MATERIALS

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



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

STANDARD RESINOID CUT-OFF WHEELS

Pack of 10

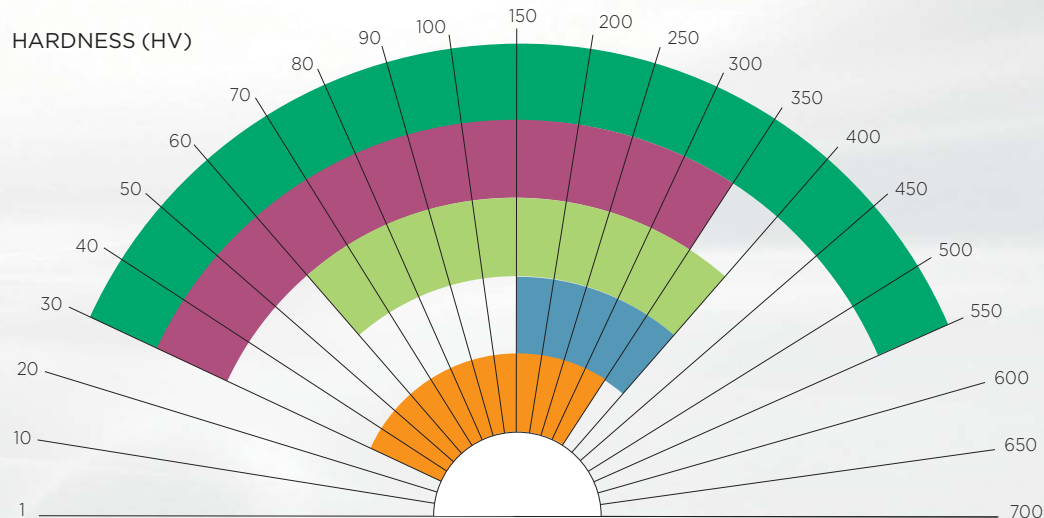
| REF. | DESCRIPTION | ABRASIVE | Ø |
|---------------|--------------------|--------------------------------|----------------------|
| S | | | |
| 01016 | Cut-off wheels | Al ₂ O ₃ | Ø 250 x 1.6 x 32mm |
| 01022 | Cut-off wheels | | Ø 300 x 2 x 32mm |
| 01032 | Cut-off wheels | | Ø 350 x 2.5 x 32mm |
| 01034 | Cut-off wheels | | Ø 400 x 3 x 32mm |
| 01039 | Cut-off wheels | | Ø 450 x 3.5 x 32mm |
| 01064 | Cut-off wheels | | Ø 500 x 3 x 32mm |
| AO | | | |
| 01046 | Cut-off wheels | Al ₂ O ₃ | Ø 125 x 0.5 x 12,7mm |
| 01043 | Cut-off wheels | | Ø 150 x 0.5 x 12,7mm |
| 01002 | Cut-off wheels | | Ø 200 x 1.6 x 25,4mm |
| 01008 | Cut-off wheels | | Ø 230 x 1.6 x 22mm |
| 01014 | Cut-off wheels | | Ø 250 x 1.6 x 32mm |
| 01020 | Cut-off wheels | | Ø 300 x 2 x 32mm |
| 01030 | Cut-off wheels | | Ø 350 x 2.5 x 32mm |
| 01027 | Cut-off wheels | | Ø 400 x 3 x 32mm |
| 01036 | Cut-off wheels | | Ø 450 x 3.5 x 32mm |
| 01063 | Cut-off wheels | | Ø 500 x 3.5 x 32mm |
| A | | | |
| 01040 | Cut-off wheels | Al ₂ O ₃ | Ø 100 x 0.3 x 12,7mm |
| 01015 | Cut-off wheels | | Ø 250 x 1.6 x 32mm |
| 01021 | Cut-off wheels | | Ø 300 x 2 x 32mm |
| 01033 | Cut-off wheels | | Ø 350 x 2.5 x 32mm |
| 01029 | Cut-off wheels | | Ø 400 x 3 x 32mm |
| 01038 | Cut-off wheels | | Ø 450 x 3.5 x 32mm |
| 01062 | Cut-off wheels | | Ø 500 x 3 x 32mm |
| UTW | | | |
| 01100 | Cut-off wheels | SiC | Ø 180 x 0.5 x 25,4mm |
| 01101 | Cut-off wheels | SiC | Ø 200 x 0.5 x 25,4mm |
| S | | | |
| 01060 | Cut-off wheels | SiC | Ø 180 x 0.5 x 25,4mm |
| AOF II | | | |
| 01001 | Cut-off wheels | Al ₂ O ₃ | Ø 200 x 0.8 x 25,4mm |
| 01012 | "S" Cut-off wheels | | Ø 250 x 0.8 x 32mm |
| 01013 | Cut-off wheels | | Ø 250 x 0.8 x 32mm |
| 01019 | Cut-off wheels | | Ø 300 x 1 x 32mm |



RESINOID CUT-OFF WHEELS

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

STANDARD RESINOID CUT-OFF WHEELS

Pack of 10

| REF. | DESCRIPTION | ABRASIVE | Ø |
|------------|----------------|----------|----------------------|
| S | | | |
| 01060 | Cut-off wheels | SiC | Ø 180 x 0.5 x 25.4mm |
| UTW | | | |
| 01100 | Cut-off wheels | SiC | Ø 180 x 0.5 x 25.4mm |
| 01101 | Cut-off wheels | SiC | Ø 200 x 0.5 x 25.4mm |
| MNF | | | |
| 01005 | Cut-off wheels | | Ø 200 x 1.6 x 25.4mm |
| 01017 | Cut-off wheels | | Ø 250 x 1.6 x 32mm |
| 01023 | Cut-off wheels | | Ø 300 x 1.8 x 32mm |
| 01031 | Cut-off wheels | SiC | Ø 350 x 2.5 x 32mm |
| 01028 | Cut-off wheels | | Ø 400 x 3 x 32mm |
| 01037 | Cut-off wheels | | Ø 450 x 3.5 x 32mm |
| 01066 | Cut-off wheels | | Ø 500 x 3 x 32mm |
| T | | | |
| 01071 | Cut-off wheels | | Ø 250 x 1.6 x 32mm |
| 01072 | Cut-off wheels | | Ø 300 x 2 x 32mm |
| 01073 | Cut-off wheels | SiC | Ø 350 x 2.5 x 32mm |
| 01047 | Cut-off wheels | | Ø 400 x 3 x 32mm |
| 01048 | Cut-off wheels | | Ø 450 x 3.5 x 32mm |
| 01065 | Cut-off wheels | | Ø 500 x 3 x 32mm |
| F | | | |
| 01018 | Cut-off wheels | SiC | Ø 250 x 1.6 x 32mm |
| 01024 | Cut-off wheels | | Ø 300 x 2 x 32mm |
| C | | | |
| 01041 | Cut-off wheels | SiC | Ø 100 x 0.3 x 12.7mm |

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.



CUTTING

METALLIC CUT-OFF WHEELS

WHEELS

Diamond and CBN wheels only cut hard materials. There are two types of abrasives: diamond and boron nitride (CBN). Resin binders provide better surface finishes than metal binders. Metal binders have a longer lifespan than resin binders.

HARD FERROUS MATERIALS

CBN CUTTING DISCS (BORON NITRIDE CARBIDE)

Delivered with a dressing stick

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

CBN Resin bond

High concentration boron nitride disc for cutting hard ferrous materials: cast irons, treated steels, high speed steels and hard steels.

HARD NON-FERROUS MATERIALS

METALLIC CUT-OFF WHEELS

Delivered with a dressing stick

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

LR Resin bond

High concentration disc recommended when looking for the best possible cutting quality. For cutting hard and fragile materials, composites, plasma deposits, ceramics, electronic components, etc.

DRESSING STICK FOR DIAMOND DISC

| REF. | DESIGNATION |
|-------|---------------------------------|
| 51164 | Dressing stick for diamond disc |



Dressing stick for diamond disc Ref. 51164

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

LM Metallic bond

Very polyvalent disc, normal concentration, designed to cut very hard materials such as: ceramics, alumina, sintered carbides, minerals, crystals, concretes, rocks.

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

LM+ Metallic bond

High concentration disc designed to cut hard materials such as: tungsten carbide, silicon carbide, composites, plasma deposits, coated samples, refractory materials.

ELD DIAMOND CUT-OFF WHEELS



ELD diamond discs are cut-off wheels with a metal body, on which the diamond is electrodeposited. Due to the absence of a binder to fix the abrasive, the diamond is very accessible, the cut is clean. This wheel, designed for cutting plastics and composites, will also provide good results on polyurethane foams, plaster, concrete and rocks. ELD wheels do not need to be dressed.

| ELD | | |
|-------|---------------|----------------------|
| REF. | DESIGNATION | Ø |
| 02100 | Cut-off wheel | Ø 100 x 1.4 x 12.7mm |
| 02101 | Cut-off wheel | Ø 125 x 1.4 x 12.7mm |
| 02102 | Cut-off wheel | Ø 150 x 1.4 x 12.7mm |
| 02103 | Cut-off wheel | Ø 175 x 1.4 x 12.7mm |
| 02104 | Cut-off wheel | Ø 200 x 1.8 x 32mm |
| 02105 | Cut-off wheel | Ø 250 x 1.8 x 32mm |
| 02106 | Cut-off wheel | Ø 300 x 1.8 x 32mm |

CUTTING

CONSUMABLES

ANTI-RUST ADDITIVE

For the use of our cut-off wheels, we recommend using our anti-rust additive which prevents any problems of corrosion or oxidation on the cutting machines and the parts to be cut. The anti-rust additive is available in 1, 5 or 10 liter containers and is used at a rate of 4% of product mixed in water.

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



1L bottle 5L drum 10L drum

ANALOGICAL REFRACTOMETER

Device used to measure and maintain the optimum concentration of anti-rust additive in the cutting machine tank.

| REF. | DESIGNATION |
|-------|------------------------------------|
| 19074 | Analogical refractometer BRIX 0-10 |



Analogical refractometer
BRIX 0-10

ANTI-FOAM ADDITIVE

The anti-foam additive reduces or potentially eliminates foam during cutting. Available in 1, 5 or 10 liter containers, it can be used at a rate of 0.01 g/l to 0.5 g/l depending on water hardness and working conditions.

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



1L bottle 5L drum 10L drum

ANTI-SEPTIC LIQUID

The anti-septic liquid prevents the development of bacteria in the cutting machine. It therefore prevents bad odors while prolonging the lifespan of the equipment. The anti-septic liquid is used at a rate of 1.6% of product mixed with water.

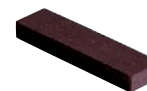
| REF. | DESIGNATION |
|-------|--------------------------|
| 01093 | 500CC anti-septic bottle |
| 01097 | 1L anti-septic bottle |
| 01098 | 5L anti-septic drum |



500CC anti-septic
bottle

DRESSING STICK FOR DIAMOND DISC

| Ref. | DESIGNATION |
|-------|--|
| 51164 | Dressing stick for diamond disc |
| 19015 | Pack of 10 Tissediam wheel edging sticks |



Dressing stick for diamond disc
Ref. 51164

REDUCTION RINGS*

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

| REF. | DESIGNATION | Ø |
|-------------------|-------------------------------------|-----------------------|
| Pack of 20 | | |
| 01089 | Reduction ring teflon | 32 / 25.4mm x 2mm |
| 01091 | Reduction ring teflon | 25.4 / 22mm x 1.6mm |
| 01092 | Reduction ring teflon | 32 / 25.4mm x 3mm |
| Pack of 5 | | |
| 51324 | Reduction ring aluminium | 25.4 / 12.7mm x 1.5mm |
| 51331 | Reduction ring aluminium | 32 / 12.7mm x 1.5mm |
| 51332 | Reduction ring aluminium ultra thin | 25.4 / 12.7mm x 0.9mm |



Reduction ring
teflon



Reduction ring
aluminium

* Other diameters on request.

PREPARATION

► METALLOGRAPHY

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 guaranteeing low shrinkage.

In some cases, **hot mounting** is indicated. This process offers an increased hardness and a more precise mount diameter. Our hot mounting resins can be phenolic, epoxy, acrylic or allylic.

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PRESSURE AND VACUUM MOUNTING MACHINES

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TRANSPARENT & OPAQUE RESINS

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KM-BACK IP-FAST

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MOULDS

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MECAPRESS 3

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RESINS

COLD MOUNTING

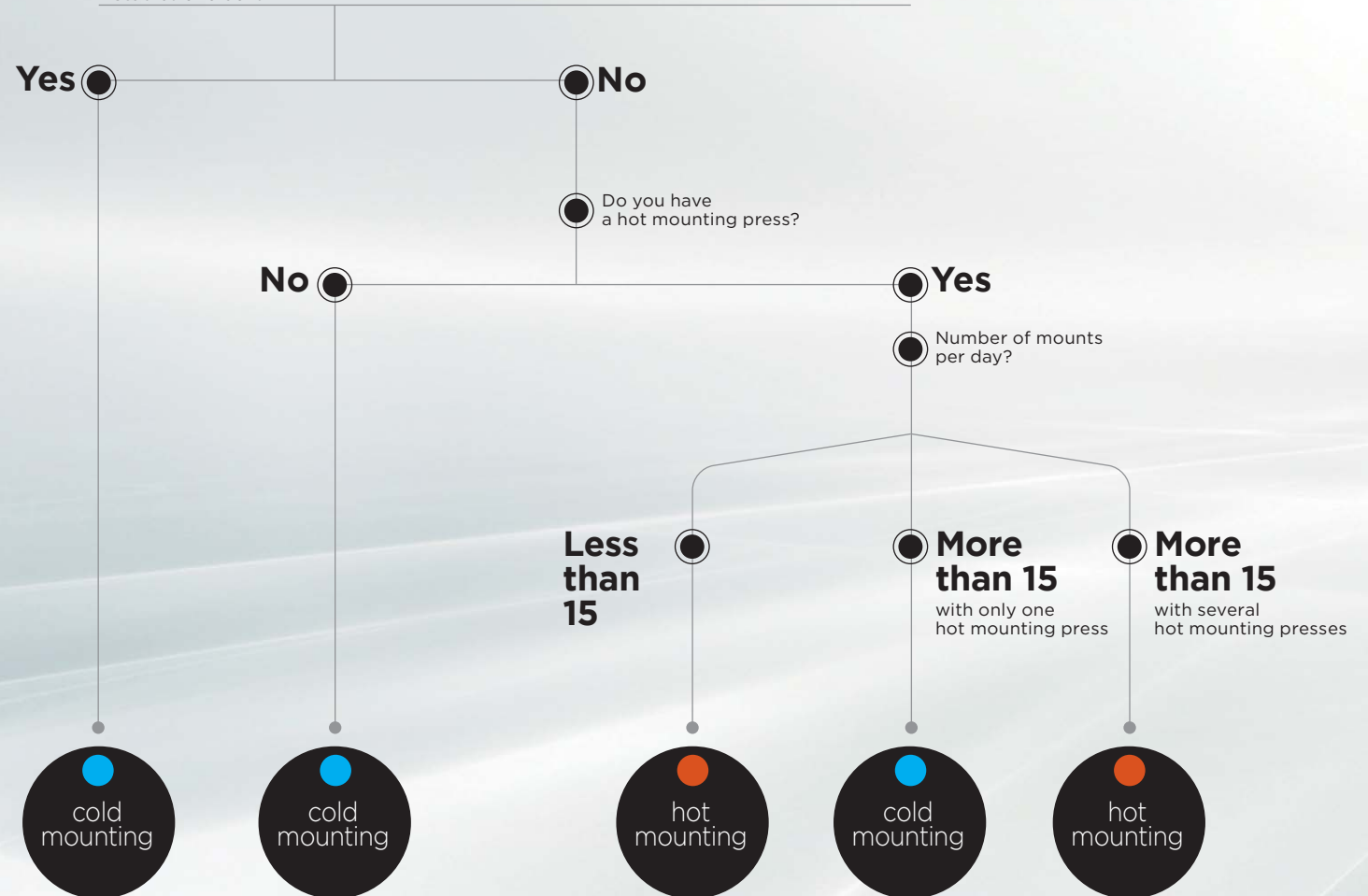
HOT MOUNTING



Cold or hot mounting ?

Does the material to be analyzed fulfill one or more of the following criteria?

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



Hot mounting is recommended to achieve:

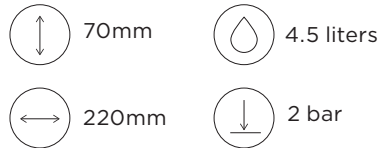
- high quality mounts (observation of edges),
- hardness measurements,
- polishing in individual pressure.

COLD MOUNTING

PRESSURE VESSEL FOR MOUNTING UNDER PRESSURE

REF. 04300

The pressure vessel improves the rendering of KM-series acrylic mounting resins, makes the KM-U resin transparent and reduces shrinkage. Can be used with all cold resins.



Removable bottom for easy cleaning



Safety valve protection



VACUUM IMPREGNATION SYSTEM

REF. 53600

Vacuum impregnation system

The vacuum impregnation system allows the impregnation of porous materials with epoxy type resins. Device controlled by a touch screen, automatic and programmable, multiple levels of vacuum, time delay from one minute to several hours. This device incorporates a resin dispensing device. Following the vacuum impregnation operation, the sample can be pressurized.

ACCESSORIES

50 bed protection sheets
Ref. 53605

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

KIT POLY'VAC REF. 53600

50 bed protection sheets
50 pipes
50 plastic nozzles

See our POLY'VAC video here



TRANSPARENT RESINS

MA2+, 2S and IP resins are composed of two liquid parts: the resin and its hardener. These resins are totally transparent. MA2+, 2S and IP polymerize at ambient temperature (or vacuum for IP).

| TYPE OF RESINS | USE | POLYMERIZATION TIME | SHRINKAGE | EXOTHERMIC PEAK | HARDNESS | PROPORTION |
|-------------------------------|---|----------------------------------|-----------|-----------------|------------|--|
| IP (epoxy) | General use, observations of edges, very good impregnation capacity, suitable for hard materials | 8 at 10h at 20°C (3h at 50°C) | Very low | 30°C | 83 Shore D | 10% catalyst |
| IP-FAST (epoxy) | General use, visual control of material removal with fast polymerization, 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 polymerization | 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 polymerization, suitable for large quantity of mounts at one time | 1h30 at 20°C | Medium | 80°C | 76 Shore D | 2.5% catalyst |

* depends on the volume

DYES POWDER



Red
Ref. 04184



Blue
Ref. 04185



Yellow
Ref. 04186



IP RESIN

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

IP-FAST RESIN

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

MA2+ RESIN

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

2S RESIN

| REF. | DESIGNATION |
|-------|----------------------------------|
| 04010 | Pack 1kg resin + 30CC catalyst** |
| 04011 | Catalyst: 30CC |
| 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 polymerize quickly with an exothermic peak around 70°C and 115°C. Those temperatures do not alter most samples.

| TYPE OF RESINS | USE | POLYMERIZATION TIME | SHRINKAGE | EXOTHERMIC PEAK | HARDNESS | COLOR | PROPORTION |
|----------------------|--|----------------------|-----------|-----------------|------------|--------|---|
| KM-U (acrylic) | Control/ General use with fast polymerization | 15min at 20 °C | Medium | 115°C | 90 Shore D | White | 2 volumes of powder for 1 volume of liquid |
| KM-B (acrylic) | Control/ General use with fast polymerization. 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) | Creating a replica of the sample surface | 8min at 20°C | - | 95°C | 87 Shore D | Yellow | 2 volumes of powder for 1 volume of liquid |
| KM-CO (acrylic) | Graphite filled 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) | 100% acetone soluble resin, allows sample recovery | 10 to 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 + 500CC catalyst* |
| 04141 | Powder: 1kg |
| 04142 | Catalyst: 500CC |
| 04143 | Powder: 10kg |
| 04144 | 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 + 500CC catalyst* |
| 04151 | Powder: 1kg |
| 04152 | Catalyst: 500CC |

KM-CO RESIN

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

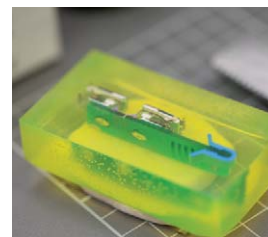
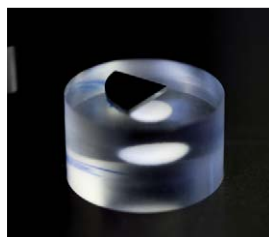
KM-BACK RESIN

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

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

DYES (LIQUID) FOR KM-U

| REF. | DESIGNATION |
|-------|-----------------|
| 04180 | 10ml dye red |
| 04181 | 10ml dye green |
| 04182 | 10ml dye blue |
| 04183 | 10ml dye yellow |



KM-BACK

ITS MAIN ADVANTAGE:
ACRYLIC RESIN
100% DISSOLUBLE

KM-BACK acrylic resin was designed to get back rare and unique samples.

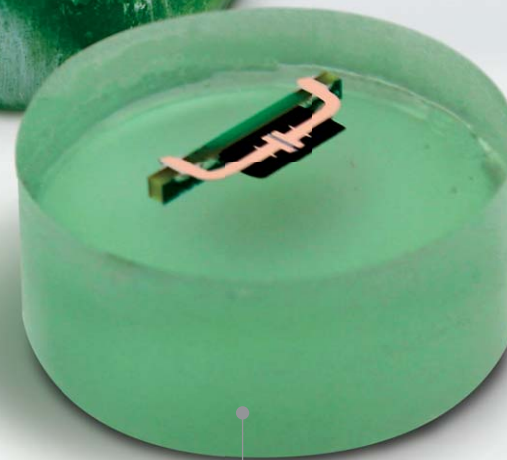
Those who, after analysis and control, need to be preserved in their entirety and reused for other purposes. The KM-Back resin has the particularity **to dissolve completely** in acetone. Its hardness is 83 ShD. It polymerizes quickly, between 10 and 15 minutes.



Polymerization
Between 10 and 15 minutes



Hardness
of 83 ShD



IP-FAST:
AN EXPOY 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.



Polymerization
2 hours



Hardness
of 89 ShD



IP-FAST

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 |



Precise
The sample size is always perfectly calibrated thanks to the adjusted ring.

So simple
No more unmolding problems. The base is made of silicone, easy to remove.

100% transparent
The ring ensures maximum transparency; the sample to be polished is thereby easily identified.

Clean
The silicon base is totally airtight.

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



TEFLON

Box of 5.
Detachable base. Reusable.

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



RUBBER SILICONE

Box of 5.
One piece. Reusable.

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



POLYETHYLENE

Box of 5.
Detachable base. Reusable.
Not suitable for individual pressure polishing methods.

| 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 (250CC) 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" |
| 19062 | Self-adhesive teflon fabric for bench protection 1m x 2m "Lab'Board Protect" |
| 19064 | Roll of universal absorbent and anti-static fabric 40cm x 46m |



MOUNT RELEASE SPRAY

Just spray into the cold-mounting molds.

| REF. | DESIGNATION |
|-------|------------------------------------|
| 03208 | Silfree-Jet* mould removal aerosol |

* Non-disruptive mold release spray.



HOT MOUNTING

MECAPRESS 3

THE HOT MOUNTING PRESS

REF. 53500

MECAPRESS 3 is a fully automatic hot mounting press. Easy to use, it combines the parameters of a very high-precision machine: memorization and adjustment of processes, personalization, speed of execution.

MECAPRESS 3 also allows a significant reduction in water consumption. A flexible, powerful machine.

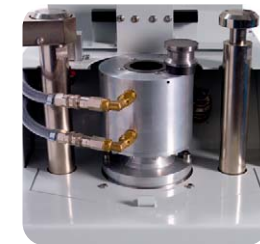
↑ ↓
530mm

← →
320mm

↙ ↘
560mm

📦
65kg

CE



Mounting mould
Mecapress 3



Colour touch screen

CHARACTERISTICS

| | |
|--|---|
| Automatic cycle | ✓ |
| Fast cycle | ✓ |
| Temperature setting | From 100 to 200°C, by step of 1°C |
| Heating time setting | From 0 to 1800 seconds, by step of 1 second |
| Cooling time setting | From 0 to 1800 seconds, by step of 1 second |
| Cooling mode setting | ✓ |
| Pressure setting | 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 settings | ✓ |
| Mounting parameters readable on touchscreen | ✓ |
| Memorised mounting processes | More than 100 processes |
| Pulse controlled cooling | ✓ |
| 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) | ✓ |

See our MECAPRESS 3 video here



ACCESSORIES

MOULD SETS FOR MECAPRESS 3



Mould set Ø 25.4mm
Ref. 53505

Mould set Ø 30mm
Ref. 53506

Mould set Ø 31.7mm
Ref. 53507

Mould set Ø 38.1mm
Ref. 53508

Mould set Ø 40mm
Ref. 53509

Mould set Ø 50mm
Ref. 53510

INTERMEDIATE RAMS

The intermediate pistons make it possible to realize two simultaneous mounts with a single mould.



Intermediate rams Ø 25.4mm
Ref. 53416

Intermediate rams Ø 30mm
Ref. 53420

Intermediate rams Ø 31.7mm
Ref. 53421

Intermediate rams Ø 38.1mm
Ref. 53422

Intermediate rams Ø 40mm
Ref. 53423

Intermediate rams Ø 50mm
Ref. 53424

OTHER ACCESSORIES



Stainless steel recirculation tank and pump system (55l)

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

A gesture for the environment!

- No more problems with limestone
- Water saving

Ref. 53515



Ultra-silent air compressor, 24L tank.

Dimensions (WxDxH):
400x400x600mm

Ref. 67750



Refill cartridge for anti chalk system Mecapress 3

Ref. 53521



RESINS

When properly cured, hot mounting resins are hard, acid and solvent resistant and have low shrinkage. As such, they also provide excellent edge retention.

| TYPE OF RESINS | USE | SHRINKAGE | HARDNESS | CONDUCTIVITY | COLOUR |
|-----------------------------------|---|-----------|------------|--------------|--------------------------|
| EPOXY | Hard materials, edge observation, surface deposits, coatings | Very low | 96 Shore D | - | Black |
| PHENOLIC | Standard resin for classic control of all 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 | Classic control of all medium-hard to 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 | Drum 25kg | Black Epoxy |

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) |
| 03112 | Pack 10kg | Resin phenolic red fine grain |
| 03017 | Pack 2.5kg | Resin phenolic red fine grain |
| 03153 | Drum 20kg | Resin phenolic red fine grain |

ALLYLIC RESIN

| REF. | DESIGNATION |
|------|-------------|
|------|-------------|

| | | |
|-------|------------|---------------------|
| 03005 | Pack 2.5kg | Allylic fiber glass |
| 03106 | Pack 10kg | Allylic fiber glass |
| 03157 | Drum 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 |

MOUNT RELEASE AGENT

Just spray into the mould of the hot mounting press.

| REF. | DESIGNATION |
|------|-------------|
|------|-------------|

| | |
|-------|------------------------------------|
| 03208 | Silfree-Jet* mould removal aerosol |
|-------|------------------------------------|

* Non-disruptive mold release spray.



PREPARATION
▶ **METALLOGRAPHY**

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.

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LE CUBE

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MINITECH

**ADAPTATION
DEVICES**



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GRINDING



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FILTER SOLUTIONS

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MECAPLAN 350

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MECATECH 334 SPC

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MECATECH

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MECATECH 300 SPS

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VIBROTECH 300

GRINDING CONSUMABLES



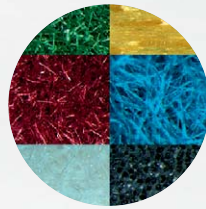
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DIAMOND POLISHING



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DIAMOND CONSUMABLES



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SUPER-FINISHING POLISHING



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POLISHING

LE CUBE

THE IDEAL SOLUTION FOR BASIC POLISHING OPERATIONS

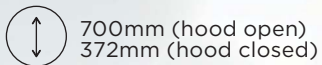
REF. 66250

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 transparent integrated hood.


LE CUBE'S direct transmission on bearings confers an incomparable silence in use.

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



Le Cube - hood closed

- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 25mm

Download LE CUBE technical sheet 

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 | 90 W |
| Nominal power S3 | 180 W |
| Frequency inverter | ✓ |
| High-torque motor | ✓ |
| Speed and torque compensation | ✓ |
| Immediate stop of the platten (safety) | ✓ |
| Progressive acceleration | ✓ |
| Transparent protection hood | ✓ |
| Splash guard | ✓ |
| Simple to maintain and service | ✓ |
| Power supply | 230V / 50-60Hz |

ACCESSORIES

PLATENS AND BASE PLATENS



Almagtech platen
ø 200mm
Ref. 67822

Almagtech platen
ø 250mm
Ref. 67820



Circular paper holder (PVC)
ø 250mm - Ref. 56070
ø 200mm - Ref. 56067

OTHER ACCESSORIES



Grinding recirculation tank
with 5µ filter
Ref. 67130

POLISHING

MINITECH

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 CE certified.



Download MINITECH technical sheet 

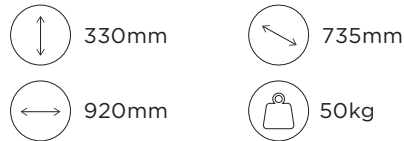
PLATEN DIAMETERS: 200 TO 250MM

MINITECH 250 SP1
REF. 66400



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

MINITECH 250 DP1
REF. 66410



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

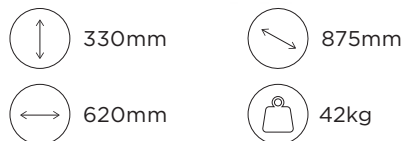
MINITECH 250 DP2
REF. 66420



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

PLATEN DIAMETERS: 250 TO 300MM

MINITECH 300 SP1
REF. 66430



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

MINITECH 300 DP1
REF. 66440



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

MINITECH 300 DP2
REF. 66450



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

CHARACTERISTICS MINITECH

| | 250 SP1 | 250 DP1 | 250 DP2 | 300 SP1 | 300 DP1 | 300 DP2 |
|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Number of platens | 1 | 2 | 2 | 1 | 2 | 2 |
| Number of motors | 1 | 1 | 2 | 1 | 1 | 2 |
| Diameter of the polishing platen | 200 to 250mm | 200 to 250mm | 200 to 250mm | 250 to 300mm | 250 to 300mm | 250 to 300mm |
| Rotation speed (in increment of 1RPM) | 20 to 700 RPM | 20 to 700 RPM | 20 to 700 RPM | 20 to 700 RPM | 20 to 700 RPM | 20 to 700 RPM |
| Rotation direction | Clockwise and counter-clockwise | Clockwise and counter-clockwise | Clockwise and counter-clockwise | Clockwise and counter-clockwise | Clockwise and counter-clockwise | Clockwise and counter-clockwise |
| Timer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Speed display | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Time display in seconds | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Display of applied force | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Memorization of 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 drying function | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| High engine torque | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Constant speed of the platen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Immediate stop of the platen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bearing transmission | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Additional bowl | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Progressive acceleration of the platen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Splash guard | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Power supply* | 230 VAC | 230 VAC | 230 VAC | 230 VAC | 230 VAC | 230 VAC |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Max. current | 8 A | 8 A | 8 A | 8 A | 8 A | 8 A |
| Water inlet | Ø 12mm | Ø 12mm | Ø 12mm | Ø 12mm | Ø 12mm | Ø 12mm |
| Water outlet | Ø 32mm | Ø 32mm | Ø 32mm | Ø 32mm | Ø 32mm | Ø 32mm |

* available on request: 110 VAC: 50 - 60Hz

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 (PVC)
ø 200mm. Ref. 56067
ø 250mm. Ref. 56068
ø 300mm. Ref. 56069



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

OTHER ACCESSORIES



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



Grinding recirculation tank
with 5µm 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



POLISHING

50L WASTE COLLECTION TANK

REF. 57170

This 50L settling tank is an option for polishing machines. Indeed, these polishing machines require the use of water and abrasive suspensions during polishing. Mixed with the fine particles of your polished materials, polishing sludge is formed. Until now, this sludge was evacuated directly into your wastewater network.

In a spirit of eco-responsibility, PRESI proposes and advises the use of a settling tank which can be procured on delivery of the machine. Installing the 50L tank on your polishing machine after delivery does not require any specific changes. It is therefore not necessary to return your machine to our PRESI workshops in order to install this new equipment. The use of this tank allows the recovery of polishing sludge in a bag provided for this purpose and disposal of remaining fluids into your wastewater system. This settling tank is compatible with all brands of polishing machines.



FEATURES

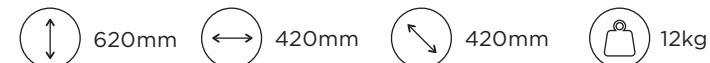
| | |
|---------------------|---|
| Capacity | 50L |
| Materials | polyvinyl chloride |
| Handling | 4 wheels |
| Tank delivered with | 1 transparent lid, 1 collection bag, 1 divider with 3 walls, 1 connecting element in beige PVC for the filter, 2 connection elements in gray PVC for the filter, 1 filter and its attachment gasket, 1 gray PVC connection element for sludge inlet |

Power supply - installation

| | |
|-------------------|-------------------------------------|
| Power supply | No power supply |
| Tank Installation | Connects to polishing machine drain |

Accessories

| | |
|--------------|--|
| Recovery bag | Set of 2 bags - Ref. 571810 |
| Filters | Set of 5 filters + attachment seal - Ref. 571820 |



FILTRATION TANK 60L

REF. 53555

The 60L filtration tank is an option for polishing machines. Indeed, these machines require the use of water and abrasive suspensions during polishing. Mixed with the fine particles of your polished materials, polishing sludge is formed. Until now, this sludge was evacuated directly into your wastewater network. In a spirit of eco-responsibility, PRESI proposes and advises the use of a filtration tank which can be procured on delivery of the machine. The installation of the 60L bin on your polishing machine after delivery of the latter does not require any specific changes. It is therefore not necessary to return your machine to our PRESI workshops in order to install this new equipment. The use of this tank allows the recovery of polishing sludge after a filtration of 100µm. This filtration tank is compatible with all brands of polishing machines.



FEATURES

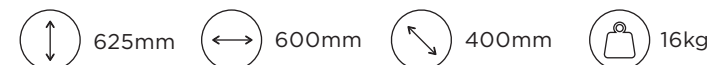
| | |
|---------------------|---|
| Capacity | 60L |
| Materials | polyvinyl chloride |
| Handling | 4 wheels |
| Filter type | Cylindrical filter Ø 260mm - Filtration 100µm |
| Tank delivered with | 1 washable cylindrical filter Ø 260mm - Filtration 100µm 1 connection pipe Ø ext 32mm / L = 1.5m 1 1/4 turn valve |

Power supply - installation

| | |
|-------------------|--|
| Power supply | No power supply |
| Tank Installation | Connects to the drain of the polishing machine using a pipe Ø ext 32mm |

Accessories

| | |
|--------------------|--------------------------------------|
| Cylindrical filter | Set of 3 filters 100µm - Ref. 516200 |
|--------------------|--------------------------------------|



60L RECIRCULATION TANK

REF. 67130

The 60L recirculation tank is an option for LE CUBE/ MINITECH/MECATECH. These polishing machines require the use of water and abrasive suspensions during polishing. A polishing sludge is formed, mixed with fine particles of your polished materials.

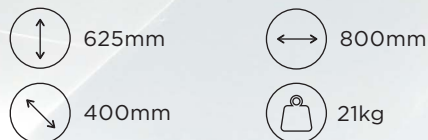
Until now, this sludge was evacuated directly into your wastewater network.

In the spirit of eco-responsibility, PRESI suggests and advises the use of a recirculation tank.

The installation of the 60L tank on your LE CUBE/ MINITECH/MECATECH after delivery of the latter requires a specific modifications. It is therefore necessary to return your machine to our PRESI workshops in order to install this new bin. When this tank is ordered with a PRESI polishing machine, the modification will be carried out directly in the workshop before delivery.

The use of this tank makes it possible to operate in a closed circuit, providing total autonomy. It also saves water and thus avoids its waste.

It is equipped with 2 filtration systems: a pre-filter of 30µm and a filtering cartridge of 5µm. Its pump, directly controlled by the polishing machine, ensures the recirculation of the filtered water.



FEATURES

| | |
|------------------------------------|---|
| Capacity | 60L |
| Materials | Polyvinyl chloride |
| Handling | 4 wheels |
| Filter type | Cylindrical pre-filter Ø 260mm - Filtration 30µm Cartridge - Filter 5µm |
| Tank delivered with | 1 single-phase 230V pump with power cable 1 washable cylindrical pre-filter Ø 260 - Filtration 30µm 1 filter cartridge - Filtration 5µm 1 connection pipe Ø ext 32mm / L = 1.5m 2 connection pipes pump - filter - bin Ø ext 18mm 1 1/4 turn valve |
| Power supply - Installation | |
| Pump power supply | Pump powered by the polishing machine |
| Pump control | Pump controlled by the polishing machine |
| Tank Installation | Connects to the drain of the polishing machine using the Ø ext 32mm pipe Connects electrically using a connector located at the back of the polishing machine |
| Accessories | |
| Cylindrical filter | Set of 3 filters of 30µm - Ref. 838010 |
| Filter cartridge | Filters of 5µm - Ref. 838000 |

POLISHING

MECAPLAN 350

AUTOMATIC PLANAR GRINDING MACHINE

REF. 54200

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

Powerful and fast, it saves time and consumables. This machine is particularly suitable for laboratories or workshops that perform tests on many samples.

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

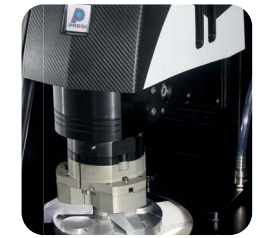
↔ 806mm

↘ 1240mm

📦 500kg



Download MECAPLAN 350
technical sheet



Polishing head



Large colour touch screen



Dressing diamond and touch sensor

GRINDING WHEEL CHARACTERISTICS

| | |
|--|---|
| Diameter of the grinding wheel | 356mm |
| Rotation speed | 1000 à 2000 RPM |
| Direction of rotation | Clockwise and counter-clockwise |
| Nominal power S1 | 5500W |
| Nominal power S3 | 9000W |
| Constant torque | ✓ |
| Immediate stop of the platen | ✓ |
| Progressive acceleration of the grinding wheel | ✓ |
| TFT LCD 7" 16/9 colour touch screen | ✓ |
| Secure cover with interlocking | ✓ |
| LED light on head and machine | ✓ |
| Simplified service and maintenance without dismantling | ✓ |
| Voltage | 400V three-phases |
| Frequency | 50-60Hz |
| Max. current | 21 A |
| Air pressure | 5 - 10 bars |
| Compressed air | Ø 10mm |
| Cleaning kit | ✓ |
| Integrated recycling system | ✓ |
| Suction & extraction | Option: mist extraction with fluid recovery |

POLISHING HEAD

| | |
|--|---------------------------------|
| 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 vertical movement: 150mm | ✓ |

MACHINE ACCESSORIES

CLAMPING VICE

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



Diamond for dressing
Ref. 01054



Suction & extraction
Ref. 51260

All information regarding specimen holders on page 69



GRINDING WHEEL

| REF. | DESIGNATION | GRIT |
|-------|------------------------------|------|
| 01052 | Stone grinding wheel Ø 356mm | 150 |



Grinding wheel
Abrasive Al_2O_3

POLISHING

MECATECH

334 SPC

SINGLE STATION, AUTOMATIC POLISHING MACHINE

REF. 67960

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

640mm

520mm

750mm

75kg

CE



CHARACTERISTICS

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

Download MECATECH 334 SPC
technical sheet



POLISHING HEAD

| | |
|--|---------------------------------|
| 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 |
| LED lighting | ✓ |
| Force controlled electronically | ✓ |
| Force reduced at start and end of cycle | ✓ |
| 50mm vertical movement of the polishing head | ✓ |
| Manual locking of the polishing head | ✓ |
| 200CC lubricant reservoir included in the polishing head | ✓ |

SPECIMEN HOLDERS FOR CENTRAL PRESSURE POLISHING



Specimen holder
Ø 160mm for 6 samples
Ø 25 to 32mm
Ref. 57102



Specimen holder
Ø 160mm for 4 samples
Ø 30 to 40mm
Ref. 57103



Blank specimen
holder Ø 160mm
Ref. 57105



Specimen holder
Ø 160mm
for 6 samples
Ø 30mm
Ref. 57106



Specimen holder
Ø 160mm annular
holding for 4 samples
Ø 40mm
Ref. 57107



Compulsory hooking
system for central
pressure specimen
holder
Ref. 57116



Levelling press
for samples - Minipress
Ref. 57127

SPECIMEN HOLDERS FOR INDIVIDUAL PRESSURE POLISHING

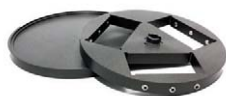


Specimen holder Ø 170mm
for 6 samples Ø 50mm
Ref. 67835



REDUCTION RINGS FOR SPECIMEN HOLDERS

SPECIFIC HOLDERS ON REQUEST



ACCESSORIES FOR POLISHING HEAD

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 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 |
| 57117 | Specimen holder Ø 170mm | for 3 rectangular samples 70 x 40mm |
| 57127 | Levelling press for samples Minipress | |

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 |

POLISHING

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 technologies. The MECATECH range allows both manual and automatic use.

Thanks to a motor power from 750W to 1500W, the entire PRESI experience is condensed in this most complete range on the market. Whatever the size or the number of samples, MECATECH guarantees an optimal polishing. With its affirmed style and edged lines, this new range is distinguished by its new design with an easily recognizable sleek and refined carbon look.



Download the MECATECH technical sheet 

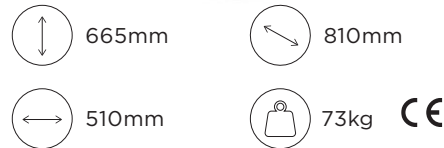
PLATEN DIAMETERS: 200 TO 250MM

MECATECH 250 SPI
REF. 67910



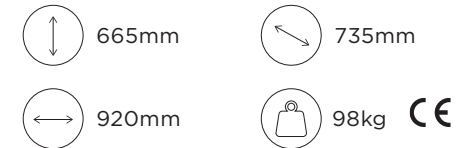
- 1 platen - 4 pistons
- Individual pressure

MECATECH 250 SPC
REF. 67920



- 1 platen - 6 pistons
- Central and Individual pressure

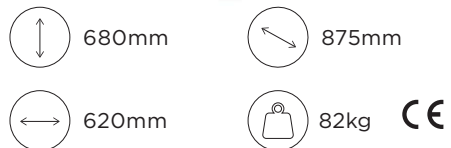
MECATECH 250 DPC
REF. 67930



- 2 platens - 6 pistons
- Central and Individual pressure

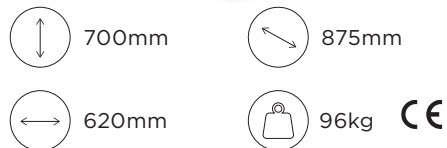
PLATEN DIAMETERS: 250 TO 300MM

MECATECH 300 SPC
REF. 67940



- 1 platen - 6 pistons
- Central and Individual pressure

MECATECH 300 SPS
REF. 67950



- 1 platen - 8 pistons
- Central and Individual pressure

CHARACTERISTICS

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

MECATECH MACHINES ACCESSORIES

ACCESSORIES



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



PVC cover
 Ø 250mm. Ref. 66050
 Ø 300mm. Ref. 66025



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



Grinding recirculation tank
 with 5µ filter
 Ref. 67130



Set of 2 removable bowls
 Ø 250mm.
 Ref. 66500
 Ø 300mm.
 Ref. 66505

DISTRITECH 5.1

REF. 67890

ABRASIVE SUSPENSIONS DISPENSER SYSTEM

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 HEAD ACCESSORIES

The **polishing heads** have a powerful geared motor controlled by a frequency converter and an automatic locking system for the head at the start of the cycle: avoids any risk of error. Lateral movement of the head, in order to completely free the polishing platen and work in manual mode.

| | | | 250 SPI | 250 SPC | 250 DPC | 300 SPC | 300 SPS |
|--|---|--------------------------------------|---------|---------|---------|---------|---------|
| Specimen holders for Central pressure polishing | | | | | | | |
| 57120 | Specimen holder Ø 120mm | for 3 samples Ø 25 to 32mm | - | ✓ | ✓ | - | - |
| 57126 | Specimen holder Ø 140mm | for 6 samples Ø 25 to 32mm | - | ✓ | ✓ | - | - |
| 57125 | Specimen holder Ø 140mm | for 3 samples Ø 30 to 40mm | - | ✓ | ✓ | - | - |
| 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 | - | ✓ | ✓ | ✓ | ✓ |
| 57117 | Specimen holder Ø 170mm | for 3 rectangular samples 70 x 40mm | - | ✓ | ✓ | ✓ | ✓ |
| 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 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 | - | ✓ | ✓ | ✓ | ✓ |
| 57127 | Levelling press for samples Minipress | | - | ✓ | ✓ | ✓ | ✓ |

| Specimen holders for individual pressure polishing | | | | | | | |
|---|-------------------------|------------------------|---|---|---|---|---|
| 57142 | Specimen holder Ø 140mm | for 4 samples Ø 30mm | ✓ | - | - | - | - |
| 57141 | Specimen holder Ø 150mm | for 4 samples Ø 40mm | ✓ | - | - | - | - |
| 57144 | Specimen holder Ø 150mm | for 4 samples Ø 38.1mm | ✓ | - | - | - | - |
| 67830 | Specimen holder Ø 150mm | for 6 samples Ø 30 mm | - | ✓ | ✓ | ✓ | - |
| 57145 | Specimen holder Ø 160mm | for 6 samples Ø 38.1mm | - | ✓ | ✓ | ✓ | - |
| 67833 | Specimen holder Ø 160mm | for 6 samples Ø 40mm | - | ✓ | ✓ | ✓ | - |
| 57143 | Specimen holder Ø 170mm | for 3 samples Ø 50mm | - | ✓ | ✓ | - | - |
| 67835 | Specimen holder Ø 170mm | for 6 samples Ø 50mm | - | - | - | ✓ | - |
| 67838 | Specimen holder Ø 180mm | for 8 samples Ø 30mm | - | - | - | - | ✓ |
| 67837 | Specimen holder Ø 190mm | for 8 samples Ø 40mm | - | - | - | - | ✓ |
| 67836 | Specimen holder Ø 200mm | for 8 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 | ✓ | ✓ | ✓ | ✓ | ✓ |

SPECIMEN HOLDERS FOR CENTRAL PRESSURE POLISHING



Specimen holder Ø 120mm for 3 samples Ø 25 to 32mm
Ref. 57120



Specimen holder Ø 160mm for 6 samples Ø 25 to 32mm
Ref. 57102



Specimen holder Ø 160mm for 4 samples Ø 30 to 40mm
Ref. 57103



Specimen holder Ø 140mm for 3 samples Ø 30 to 40mm
Ref. 57125



Specimen holder Ø 140mm for 6 samples Ø 25 to 32mm
Ref. 57126



Blank specimen holder Ø 160mm
Ref. 57105



Specimen holder Ø 160mm annular holding for 6 samples Ø 30mm
Ref. 57106



Specimen holder Ø 160mm annular holding for 4 samples Ø 40mm
Ref. 57107



Compulsory hooking system for central pressure specimen holder
Ref. 57116



Levelling press for samples - Minipress
Ref. 57127

SPECIMEN HOLDERS FOR INDIVIDUAL PRESSURE POLISHING



Specimen holder Ø 150mm for 6 samples Ø 30 mm
Ref. 67830



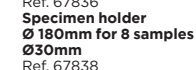
Specimen holder Ø 200mm for 8 samples Ø 50mm
Ref. 67836



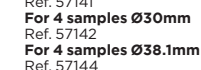
Specimen holder Ø 140 to 150mm for 4 samples Ø 40mm
Ref. 57141



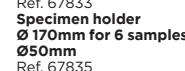
Specimen holder Ø 160mm for 6 samples Ø 40mm
Ref. 67833



Specimen holder Ø 180mm for 8 samples Ø 30mm
Ref. 67838



Specimen holder Ø 170mm for 6 samples Ø 50mm
Ref. 57142

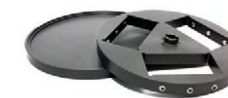


Special individual pressure plate for thin sections

REDUCTION RINGS FOR SPECIMEN HOLDERS



SPECIFIC HOLDERS ON REQUEST



POLISHING

MECATECH

300 SPS

THE AUTOMATIC SWEEPING
POLISHING MACHINE
HIGH-CAPACITY

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

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



MECA PROTECT

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



CUSTOMIZE YOUR MACHINE

Fancy some colors?
Mix and customize
to give new energy
to your equipment!

Customization
possible on
all machines
of the MINITECH
and MECATECH
range

Select the RAL colour you prefer.



POLISHING

VIBROTECH 300

THE AUTOMATIC VIBRATION POLISHING MACHINE

REF. 68100

The VIBROTECH 300 is a reliable and robust vibrating polishing machine of Ø 305mm

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).

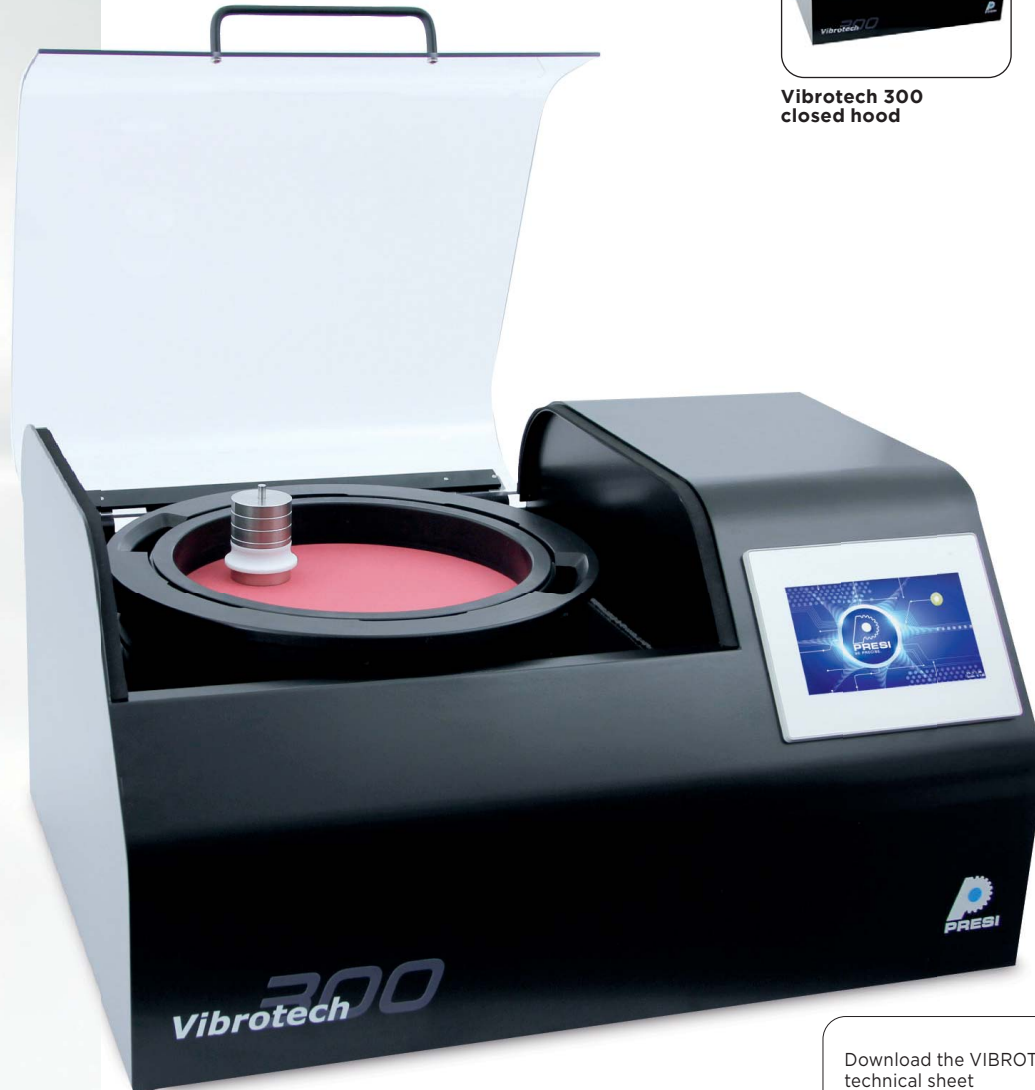
This polishing method makes it possible to save inclusions and to eliminate surface hardening. Very easy to use, the frequency and amplitude of the vibrations can be modified in real time.

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

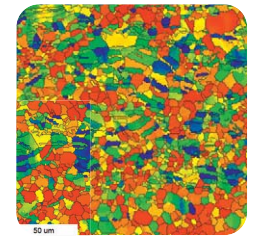
← → 715mm

↘ ↙ 554mm

📖 90kg



Vibrotech 300 closed hood



EBSD mapping

Download the VIBROTECH 300 technical sheet



CHARACTERISTICS

| | |
|---|--------------------------|
| Polishing bowl diameter | Ø 308mm |
| Sample polishing capability | up to 21 simultaneous |
| Polishing cloths | Ø 300 to 305mm |
| Suitable polishing cloths | Self-adhesive or PAD-MAG |
| Vibration frequency | 80 - 110Hz |
| Rotation direction | Clockwise |
| Power of the vibration bowl | 519 W |
| Power supply | 230 VAC |
| Frequency | 50 - 60Hz |
| 16/9 color TFT LCD touch screen 7" | ✓ |
| Hood | Transparent |
| Progressive acceleration of the vibration | ✓ |
| Interchangeable polishing bowls | ✓ |

ACCESSORIES



Storage rack for consumables
Ref. 57157



Ultrasonic tanks
Ref. 61101 to 61108



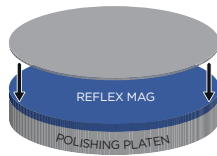
Draining for plates storage Ø 200 à 300mm
Ref. 57155



Storage box (3 to 18 samples)
Ref. 19005



Polishing bowl
Ref. 68105



Reflex MAG Ø 300mm for VIBROTECH
Ref. 24055

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 |





ADAPTATION DEVICES

Standard or magnetic polishing platens, non-adhesive, adhesive or magnetic polishing supports... Possible combinations are varied and sometimes complex!

PRESI invented and patented a revolutionary fastening process: Reflex FIX.

This exclusive system is a holding method for all kind of polishing supports (abrasive papers, diamond discs or polishing cloths).

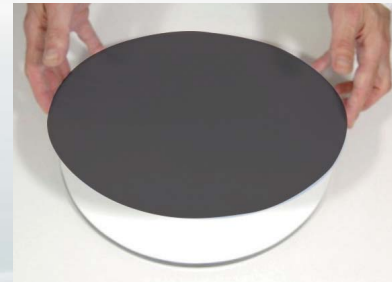
Simplicity and speed.

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

REFLEX CONCEPT

AN IDEA OFTEN COPIED, NEVER EQUALLED.

European patent n° EP 1504846



1

Stick

the Reflex FIX to the polishing platen.

2

Put

your consumable on the Reflex FIX. It is fixed!

3

Remove

your consumable by simply lifting it.



Easier processes



Flexibility of use



Time saving



No tedious removal of adhered surfaces

Download the Reflex Fix technical sheet



ADAPTATION DEVICES

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

REFLEX FIX

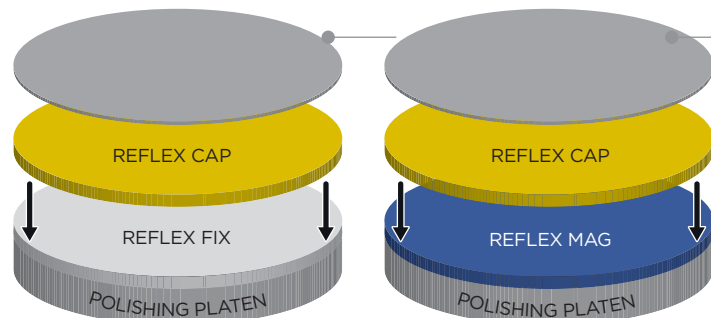


- Consumables adapted to Reflex FIX:**
- NAC abrasive papers
 - I-MAX R diamond discs
 - MED R polishing discs
 - PAD-Mag polishing cloths
 - Reflex CAP

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

REFLEX CAP

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



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

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

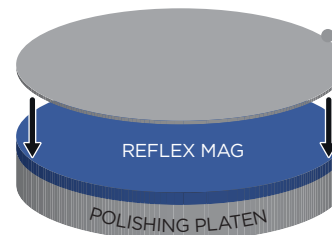
Non-adhesive device AD/AC

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 | AD/AC Device | Ø 200mm |
| 14951 | AD/AC Device | Ø 250mm |
| 14952 | AD/AC Device | Ø 300mm |
| 14953 | AD/AC Device | Ø 400mm |

REFLEX MAG

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

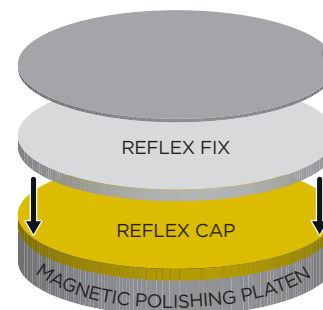


- Consumables adapted to Reflex MAG:**
- I-MAX R diamond discs
 - MED R polishing discs
 - PAD-MAG polishing cloths

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

MAGNETIC FIX

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

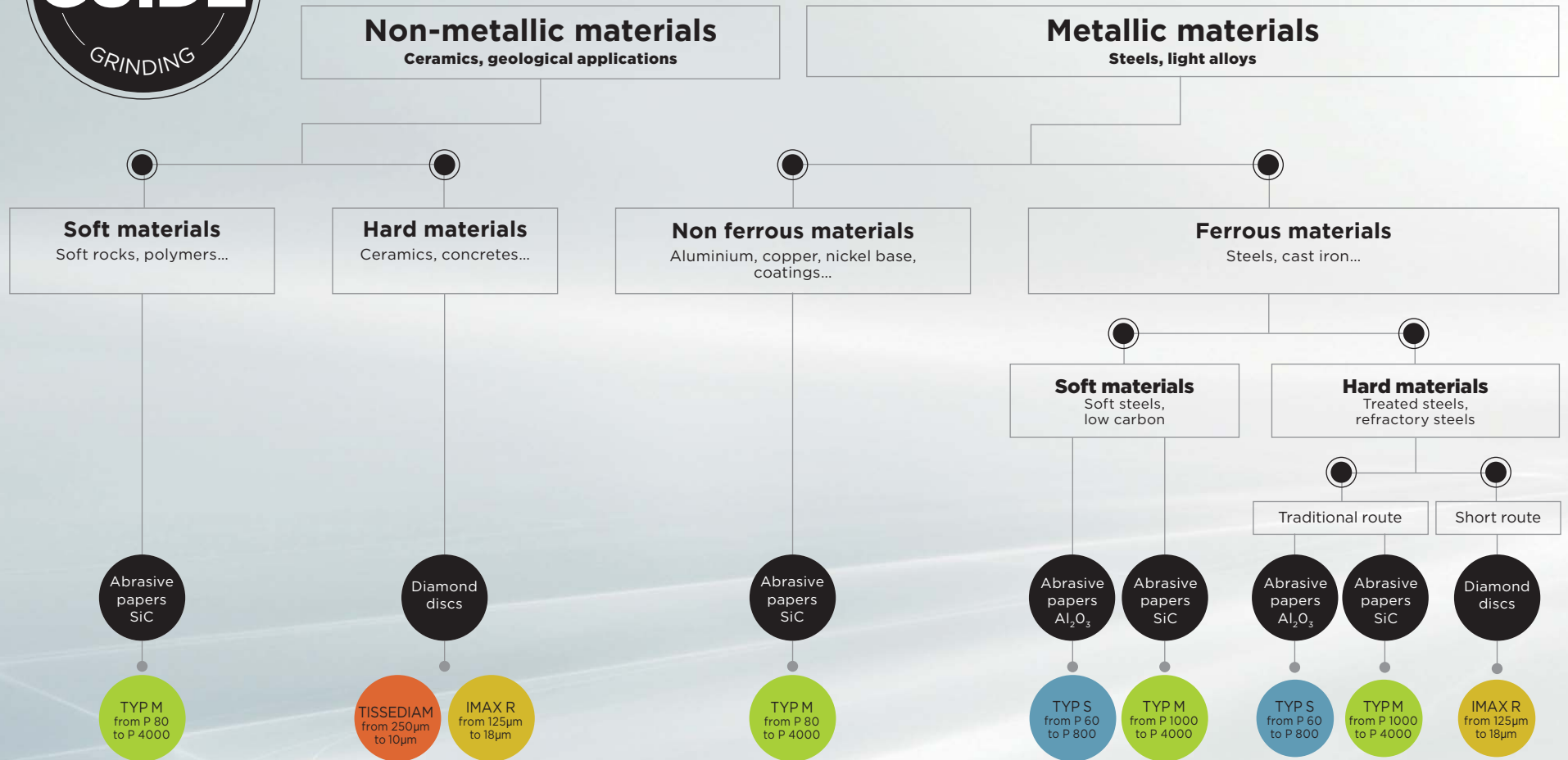


- Consumables adapted to Reflex FIX:**
- NAC abrasive papers
 - I-MAX R diamond discs
 - MED R polishing discs
 - PAD-MAG polishing cloths
 - Reflex CAP

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



GRINDING



LEGEND

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

SiC abrasive.

Al₂O₃ abrasive, except P1000, P1200, P2400 and P4000.

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

Standards and equivalents

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

GRINDING

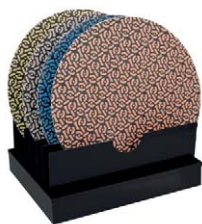
I-MAX R

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

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



Dressing stick for I-MAX-R
Ref. 19014




Download the I-MAX R
technical sheet




I-MAX R


EVEN MORE EFFICIENT DIAMOND DISCS!

 **Precise**
Unparalleled flatness
for perfect polishing
homogeneity.

 **100% european**
Designed, developed
and manufactured
by PRESI.

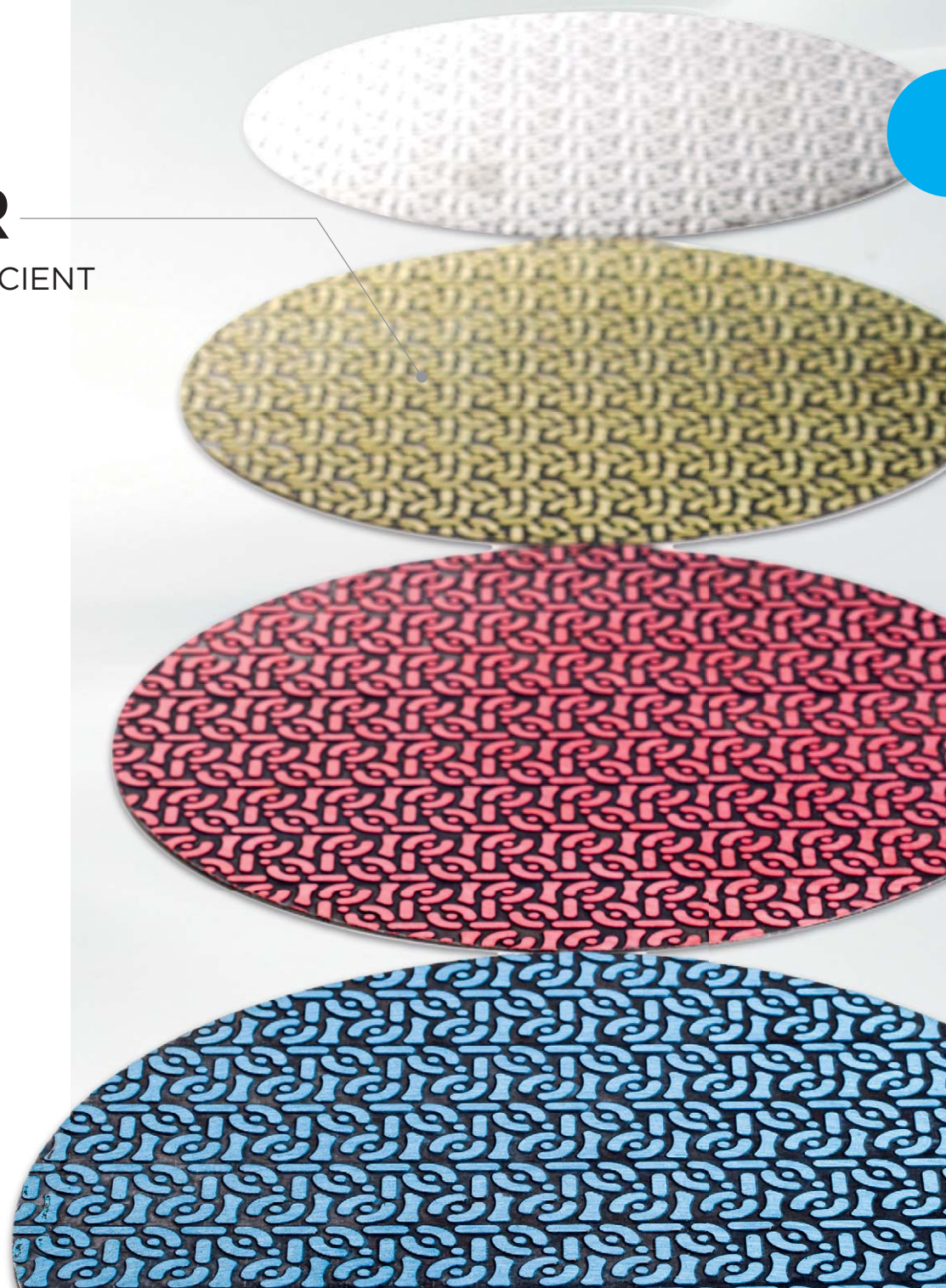
 **Durable**
Unparalleled service
life for less waste.

 **Effective**
Polishing time gain
of around 40%.

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

* Depends on materials and polishing
processes used.

 **Multi-purpose**
Recognition of
granulometry
thanks to colour.
4 colours = 4 grit.
Metal back to fit
magnetic or Reflex FIX
devices.



GRINDING

I-MAX

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

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



I-MAX

TISSEDIAM

Adhesive metallic or resin bond diamond discs for the leveling or grinding of non-metallic hard materials (ceramic, glass, quartz, ...). Delivered with dressing stick.
If used with Reflex Fix, plan to use a Reflex CAP (cf p. 75).

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

R = resin bond
M = metallic bond



Yellow



Grey



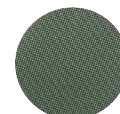
Red



Blue



Black



Green

SPECIAL ABRASIVE DISCS ZIRCONIUM OXIDE - ZR+

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

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

DRESSING STICKS

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

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



Dressing sticks
for Tisediam

ABRASIVE FOR LAPPING

SILICON CARBIDE POWDER*

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

* Other abrasives and grain sizes: contact us.



Silicon Carbide

BORON CARBIDE POWDER*

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

* Other abrasives and grain sizes: contact us.



Boron Carbide

ALUMINA OXIDE POWDER*

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

* Other abrasives and grain sizes: contact us.



Alumina oxide

LAPPING OIL

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

| REF. | DESIGNATION |
|-------|-------------|
| 12040 | Bottle 1l |
| 12042 | Bottle 10l |

LAPPING LUBRICANT

Water soluble lubricant.

| REF. | DESIGNATION |
|-------|-------------|
| 12041 | Bottle 1l |
| 12043 | Drum 10l |



Lapping lubricant

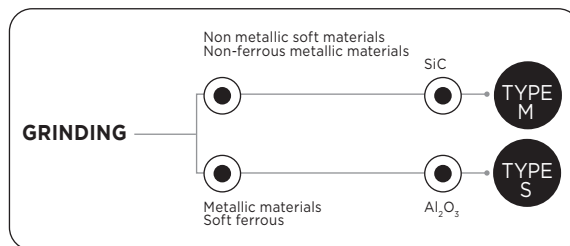
Micro abrasives

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

Contact us.

ABRASIVE PAPERS

Ø 200MM



NON-ADHESIVE

| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 13099 | Type S | P 60 |
| 13100 | Type S | P 100 |
| 13101 | Type S | P 120 |
| 13102 | Type S | P 180 |
| 13103 | Type S | P 240 |
| 13104 | Type S | P 320 |
| 13105 | Type S | P 400 |
| 13106 | Type S | P 600 |
| 13107 | Type S | P 800 |
| 13400 | Type M | P 80 |
| 13401 | Type M | P 120 |
| 13402 | Type M | P 180 |
| 13403 | Type M | P 240 |
| 13404 | Type M | P 320 |
| 13405 | Type M | P 400 |
| 13406 | Type M | P 600 |
| 13407 | Type M | P 800 |
| 13408 | Type M | P 1000 |
| 13409 | Type M | P 1200 |
| 13150 | Type M | P 2400 |
| 13080 | Type M | P 2500 |
| 13151 | Type M | P 4000 |
| Box of 25 | | |
| 13200 | Type S | P 100 |
| 13201 | Type S | P 120 |
| 13202 | Type S | P 180 |
| 13209 | Type S | P 240 |
| 13203 | Type S | P 320 |
| 13204 | Type S | P 400 |
| 13205 | Type S | P 600 |
| 13206 | Type S | P 800 |
| 13207 | Type M | P 1000 |
| 13208 | Type M | P 1200 |
| 13222 | Type M | P 2400 |
| 13085 | Type M | P 2500 |
| 13223 | Type M | P 4000 |

ADHESIVE

| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 14096 | Type S | P 60 |
| 14099 | Type S | P 100 |
| 14100 | Type S | P 120 |
| 14101 | Type S | P 180 |
| 14102 | Type S | P 240 |
| 14097 | Type S | P 320 |
| 14103 | Type S | P 400 |
| 14106 | Type S | P 600 |
| 14104 | Type S | P 800 |
| 14600 | Type M | P 80 |
| 14601 | Type M | P 120 |
| 14602 | Type M | P 180 |
| 14603 | Type M | P 240 |
| 14604 | Type M | P 320 |
| 14605 | Type M | P 400 |
| 14606 | Type M | P 600 |
| 14607 | Type M | P 800 |
| 14608 | Type M | P 1000 |
| 14609 | Type M | P 1200 |
| 14107 | Type M | P 2400 |
| 14070 | Type M | P 2500 |
| 14108 | Type M | P 4000 |
| Box of 25 | | |
| 14199 | Type S | P 60 |
| 14200 | Type S | P 100 |
| 14201 | Type S | P 120 |
| 14202 | Type S | P 180 |
| 14209 | Type S | P 240 |
| 14203 | Type S | P 320 |
| 14204 | Type S | P 400 |
| 14205 | Type S | P 600 |
| 14206 | Type S | P 800 |
| 14207 | Type M | P 1000 |
| 14208 | Type M | P 1200 |
| 14244 | Type M | P 2400 |
| 14074 | Type M | P 2500 |
| 14245 | Type M | P 4000 |

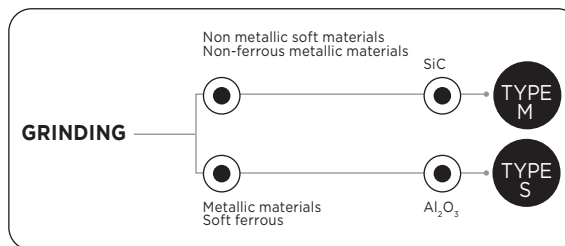
REFLEX NAC



| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 24500 | Type S | P 60 |
| 24501 | Type S | P 100 |
| 24502 | Type S | P 120 |
| 24503 | Type S | P 180 |
| 24504 | Type S | P 240 |
| 24505 | Type S | P 320 |
| 24506 | Type S | P 400 |
| 24507 | Type S | P 600 |
| 24508 | Type S | P 800 |
| 24575 | Type M | P 80 |
| 24576 | Type M | P 120 |
| 24577 | Type M | P 180 |
| 24578 | Type M | P 240 |
| 24579 | Type M | P 320 |
| 24580 | Type M | P 400 |
| 24581 | Type M | P 600 |
| 24582 | Type M | P 800 |
| 24583 | Type M | P 1000 |
| 24584 | Type M | P 1200 |
| 24511 | Type M | P 2400 |
| 24490 | Type M | P 2500 |
| 24512 | Type M | P 4000 |

ABRASIVE PAPERS

Ø 250MM



NON-ADHESIVE

| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 13161 | Type S | P 60 |
| 13120 | Type S | P 100 |
| 13121 | Type S | P 120 |
| 13122 | Type S | P 180 |
| 13123 | Type S | P 240 |
| 13124 | Type S | P 320 |
| 13125 | Type S | P 400 |
| 13126 | Type S | P 600 |
| 13127 | Type S | P 800 |
| 13420 | Type M | P 80 |
| 13421 | Type M | P 120 |
| 13422 | Type M | P 180 |
| 13423 | Type M | P 240 |
| 13424 | Type M | P 320 |
| 13425 | Type M | P 400 |
| 13426 | Type M | P 600 |
| 13427 | Type M | P 800 |
| 13428 | Type M | P 1000 |
| 13429 | Type M | P 1200 |
| 13154 | Type M | P 2400 |
| 13082 | Type M | P 2500 |
| 13155 | Type M | P 4000 |
| Box of 25 | | |
| 13250 | Type S | P 100 |
| 13251 | Type S | P 120 |
| 13252 | Type S | P 180 |
| 13259 | Type S | P 240 |
| 13253 | Type S | P 320 |
| 13254 | Type S | P 400 |
| 13255 | Type S | P 600 |
| 13256 | Type S | P 800 |
| 13257 | Type M | P 1000 |
| 13258 | Type M | P 1200 |
| 13295 | Type M | P 2400 |
| 13087 | Type M | P 2500 |
| 13296 | Type M | P 4000 |

ADHESIVE

| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 14134 | Type S | P 60 |
| 14120 | Type S | P 100 |
| 14121 | Type S | P 120 |
| 14122 | Type S | P 180 |
| 14123 | Type S | P 240 |
| 14128 | Type S | P 320 |
| 14124 | Type S | P 400 |
| 14125 | Type S | P 600 |
| 14126 | Type S | P 800 |
| 14620 | Type M | P 80 |
| 14621 | Type M | P 120 |
| 14622 | Type M | P 180 |
| 14623 | Type M | P 240 |
| 14624 | Type M | P 320 |
| 14625 | Type M | P 400 |
| 14626 | Type M | P 600 |
| 14627 | Type M | P 800 |
| 14628 | Type M | P 1000 |
| 14629 | Type M | P 1200 |
| 14130 | Type M | P 2400 |
| 14072 | Type M | P 2500 |
| 14131 | Type M | P 4000 |
| Box of 25 | | |
| 14249 | Type S | P 60 |
| 14250 | Type S | P 100 |
| 14251 | Type S | P 120 |
| 14252 | Type S | P 180 |
| 14259 | Type S | P 240 |
| 14253 | Type S | P 320 |
| 14254 | Type S | P 400 |
| 14255 | Type S | P 600 |
| 14256 | Type S | P 800 |
| 14257 | Type M | P 1000 |
| 14258 | Type M | P 1200 |
| 14265 | Type M | P 2400 |
| 14075 | Type M | P 2500 |
| 14266 | Type M | P 4000 |

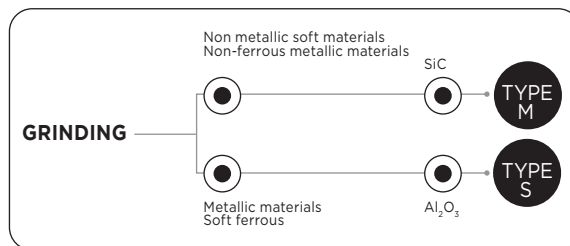
REFLEX NAC



| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 24530 | Type S | P 60 |
| 24531 | Type S | P 100 |
| 24532 | Type S | P 120 |
| 24533 | Type S | P 180 |
| 24534 | Type S | P 240 |
| 24535 | Type S | P 320 |
| 24536 | Type S | P 400 |
| 24537 | Type S | P 600 |
| 24538 | Type S | P 800 |
| 24595 | Type M | P 80 |
| 24596 | Type M | P 120 |
| 24597 | Type M | P 180 |
| 24598 | Type M | P 240 |
| 24599 | Type M | P 320 |
| 24600 | Type M | P 400 |
| 24601 | Type M | P 600 |
| 24602 | Type M | P 800 |
| 24603 | Type M | P 1000 |
| 24604 | Type M | P 1200 |
| 24541 | Type M | P 2400 |
| 24492 | Type M | P 2500 |
| 24542 | Type M | P 4000 |

ABRASIVE PAPERS

Ø 300MM



NON-ADHESIVE

| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 13163 | Type S | P 60 |
| 13130 | Type S | P 100 |
| 13131 | Type S | P 120 |
| 13132 | Type S | P 180 |
| 13133 | Type S | P 240 |
| 13134 | Type S | P 320 |
| 13135 | Type S | P 400 |
| 13136 | Type S | P 600 |
| 13137 | Type S | P 800 |
| 13430 | Type M | P 80 |
| 13431 | Type M | P 120 |
| 13432 | Type M | P 180 |
| 13433 | Type M | P 240 |
| 13434 | Type M | P 320 |
| 13435 | Type M | P 400 |
| 13436 | Type M | P 600 |
| 13437 | Type M | P 800 |
| 13438 | Type M | P 1000 |
| 13439 | Type M | P 1200 |
| 13156 | Type M | P 2400 |
| 13803 | Type M | P 2500 |
| 13157 | Type M | P 4000 |
| Box of 25 | | |
| 13300 | Type S | P 100 |
| 13301 | Type S | P 120 |
| 13302 | Type S | P 180 |
| 13309 | Type S | P 240 |
| 13303 | Type S | P 320 |
| 13304 | Type S | P 400 |
| 13305 | Type S | P 600 |
| 13306 | Type S | P 800 |
| 13307 | Type M | P 1000 |
| 13308 | Type M | P 1200 |
| 13330 | Type M | P 2400 |
| 13088 | Type M | P 2500 |
| 13331 | Type M | P 4000 |

ADHESIVE

| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 14133 | Type S | P 60 |
| 14109 | Type S | P 100 |
| 14110 | Type S | P 120 |
| 14111 | Type S | P 180 |
| 14112 | Type S | P 240 |
| 14117 | Type S | P 320 |
| 14113 | Type S | P 400 |
| 14116 | Type S | P 600 |
| 14114 | Type S | P 800 |
| 14640 | Type M | P 80 |
| 14641 | Type M | P 120 |
| 14642 | Type M | P 180 |
| 14643 | Type M | P 240 |
| 14644 | Type M | P 320 |
| 14645 | Type M | P 400 |
| 14646 | Type M | P 600 |
| 14647 | Type M | P 800 |
| 14648 | Type M | P 1000 |
| 14649 | Type M | P 1200 |
| 14119 | Type M | P 2400 |
| 14073 | Type M | P 2500 |
| 14132 | Type M | P 4000 |
| Box of 25 | | |
| 14299 | Type S | P 60 |
| 14300 | Type S | P 100 |
| 14301 | Type S | P 120 |
| 14302 | Type S | P 180 |
| 14309 | Type S | P 240 |
| 14303 | Type S | P 320 |
| 14304 | Type S | P 400 |
| 14305 | Type S | P 600 |
| 14306 | Type S | P 800 |
| 14307 | Type M | P 1000 |
| 14308 | Type M | P 1200 |
| 14315 | Type M | P 2400 |
| 14076 | Type M | P 2500 |
| 14316 | Type M | P 4000 |

REFLEX NAC

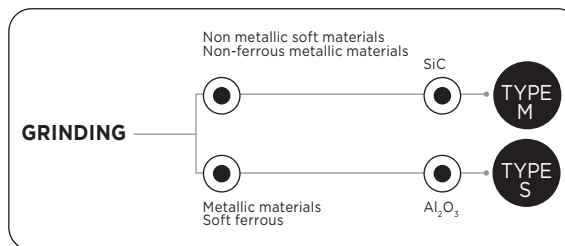


| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 24545 | Type S | P 60 |
| 24546 | Type S | P 100 |
| 24547 | Type S | P 120 |
| 24548 | Type S | P 180 |
| 24549 | Type S | P 240 |
| 24550 | Type S | P 320 |
| 24551 | Type S | P 400 |
| 24552 | Type S | P 600 |
| 24553 | Type S | P 800 |
| 24605 | Type M | P 80 |
| 24606 | Type M | P 120 |
| 24607 | Type M | P 180 |
| 24608 | Type M | P 240 |
| 24609 | Type M | P 320 |
| 24610 | Type M | P 400 |
| 24611 | Type M | P 600 |
| 24612 | Type M | P 800 |
| 24613 | Type M | P 1000 |
| 24614 | Type M | P 1200 |
| 24556 | Type M | P 2400 |
| 24493 | Type M | P 2500 |
| 24557 | Type M | P 4000 |

ABRASIVE PAPERS

Ø 230MM - Ø 305MM

Ø 400MM



NON-ADHESIVE Ø 230MM

| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 13110 | Type S | P 100 |
| 13111 | Type S | P 120 |
| 13112 | Type S | P 180 |
| 13113 | Type S | P 240 |
| 13114 | Type S | P 320 |
| 13115 | Type S | P 400 |
| 13116 | Type S | P 600 |
| 13117 | Type S | P 800 |
| 13410 | Type M | P 80 |
| 13411 | Type M | P 120 |
| 13412 | Type M | P 180 |
| 13413 | Type M | P 240 |
| 13414 | Type M | P 320 |
| 13415 | Type M | P 400 |
| 13416 | Type M | P 600 |
| 13417 | Type M | P 800 |
| 13418 | Type M | P 1000 |
| 13419 | Type M | P 1200 |
| 13152 | Type M | P 2400 |
| 13083 | Type M | P 2500 |
| 13153 | Type M | P 4000 |
| Box of 25 | | |
| 13230 | Type S | P 100 |
| 13231 | Type S | P 120 |
| 13232 | Type S | P 180 |
| 13239 | Type S | P 240 |
| 13233 | Type S | P 320 |
| 13234 | Type S | P 400 |
| 13235 | Type S | P 600 |
| 13236 | Type S | P 800 |
| 13237 | Type M | P 1000 |
| 13238 | Type M | P 1200 |
| 13240 | Type M | P 2400 |
| 13086 | Type M | P 2500 |
| 13241 | Type M | P 4000 |

REFLEX NAC Ø 230MM



| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 24515 | Type S | P 60 |
| 24516 | Type S | P 100 |
| 24517 | Type S | P 120 |
| 24518 | Type S | P 180 |
| 24519 | Type S | P 240 |
| 24520 | Type S | P 320 |
| 24521 | Type S | P 400 |
| 24522 | Type S | P 600 |
| 24523 | Type S | P 800 |
| 24585 | Type M | P 80 |
| 24586 | Type M | P 120 |
| 24587 | Type M | P 180 |
| 24588 | Type M | P 240 |
| 24589 | Type M | P 320 |
| 24590 | Type M | P 400 |
| 24591 | Type M | P 600 |
| 24592 | Type M | P 800 |
| 24593 | Type M | P 1000 |
| 24594 | Type M | P 1200 |
| 24526 | Type M | P 2400 |
| 24491 | Type M | P 2500 |
| 24527 | Type M | P 4000 |

ADHESIVE Ø 400MM

| REF. | DESIGNATION | GRIT |
|------------------|-------------|--------|
| Box of 25 | | |
| 14410 | Type S | P 60 |
| 14400 | Type S | P 100 |
| 14401 | Type S | P 120 |
| 14402 | Type S | P 180 |
| 14409 | Type S | P 240 |
| 14403 | Type S | P 320 |
| 14404 | Type S | P 400 |
| 14405 | Type S | P 600 |
| 14406 | Type S | P 800 |
| 14407 | Type M | P 1000 |
| 14408 | Type M | P 1200 |
| 14411 | Type M | P 2400 |
| 14413 | Type M | P 2500 |
| 14412 | Type M | P 4000 |

NON-ADHESIVE Ø 305MM

| REF. | DESIGNATION | GRIT |
|-------------------|-------------|--------|
| Box of 100 | | |
| 13140 | Type S | P 100 |
| 13141 | Type S | P 120 |
| 13142 | Type S | P 180 |
| 13143 | Type S | P 240 |
| 13144 | Type S | P 320 |
| 13145 | Type S | P 400 |
| 13146 | Type S | P 600 |
| 13147 | Type S | P 800 |
| 13450 | Type M | P 80 |
| 13451 | Type M | P 120 |
| 13452 | Type M | P 180 |
| 13453 | Type M | P 240 |
| 13454 | Type M | P 320 |
| 13455 | Type M | P 400 |
| 13456 | Type M | P 600 |
| 13457 | Type M | P 800 |
| 13458 | Type M | P 1000 |
| 13459 | Type M | P 1200 |
| 13158 | Type M | P 2400 |
| 13084 | Type M | P 2500 |
| 13159 | Type M | P 4000 |



POLISHING SUPPORTS

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, solve all metallography or geology polishing problems using abrasives such as diamond, alumina, mechanico-chemical SPM solution. Polishing cloths are classified in 4 main families: fine-grinding, rough-finishing, finishing and super-finishing.

MED R AND FINE GRINDING

| NAME | TYPE | COMPOSITION | MAIN APPLICATIONS | RECOMMENDED PRODUCTS | ASSOCIATED SUSPENSIONS | ADHESIVE | METALLIC BACK-SIDE VERSION PAD MAG |
|--------|---|---|-------------------------------------|--|------------------------|--|--|
| MED R |  | Resinoids studs | Levelling of all types of materials | Polycrystalline super abrasive product / Diamond product | 15 to 6 μ | | Ref. 24087: Ø 200 mm Ref. 24089: Ø 250 mm Ref. 24090: Ø 300 mm |
| TOP |  | Plasticised acetate silk taffeta | Levelling of all types of materials | Diamond products | 15 to 6 μ | Ref. 16214: Ø 200mm Ref. 16264: Ø 250mm Ref. 16314: Ø 300 mm | Ref. 24161: Ø 200 mm Ref. 24191: Ø 250 mm Ref. 24206: Ø 300 mm |
| RAM II |  | Acetate silk satin, plasticised and glued to a semi-rigid support | Soft materials | Diamond products | 9 to 6 μ | Ref. 16211: Ø 200mm Ref. 16261: Ø 250mm Ref. 16311: Ø 300mm | Ref. 24162: Ø 200 mm Ref. 24192: Ø 250 mm Ref. 24219: Ø 300 mm |









ROUGH-FINISHING CLOTHS

| NAME | TYPE | COMPOSITION | MAIN APPLICATIONS | RECOMMENDED PRODUCTS | ASSOCIATED SUSPENSIONS | ADHESIVE | METALLIC BACK-SIDE VERSION PAD MAG |
|--------|---|---|--|---|---|---|---|
| RAM |  | Acetate silk satin, plasticised and glued to a semi-rigid support | Polishing and finishing with excellent flatness. Inclusion retention-All materials | Diamond products | 3 to 1 μ | 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 6 μ | 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 |  | Woolen fabric woven on a flexible support | Semi-finishing polishing with excellent flatness. All types of steels/stainless steels | Diamond products | 6 to 3 μ | 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 1 μ 2,5 μ (cerium) 0,3 μ (alumina) | Ref. 16215: Ø 200mm Ref. 16265: Ø 250mm Ref. 16309: Ø 300mm | Ref. 24168: Ø 200mm Ref. 24198: Ø 250mm Ref. 24213: Ø 300mm |







FINISHING CLOTHS

| NAME | TYPE | COMPOSITION | MAIN APPLICATIONS | RECOMMENDED PRODUCTS | ASSOCIATED SUSPENSIONS | ADHESIVE | METALLIC BACK-SIDE VERSION PAD MAG |
|-------|---|---|---|--|--|---|---|
| NT |  | Flocked fabric fixed on 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 short and very soft flocked fabric embedded in a layer of flexible 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 |  | Very short flocked fabric 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 flocked fabric attached to a semi-rigid plastic | 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 flocked fabric 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 materials (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 |  | Synthetic fiber felt impregnated with latex, covered with a layer of polyurethane 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 flocked fabric, attached to a soft cotton cloth | Final polishing for soft materials (aluminium alloys, copper...) Super -finishin for ceramics with cerium oxide | Diamond products Alumina | 0,8 - 1μ (alumina) 2,5μ (cerium) | Ref. 16207: Ø 200 mm Ref. 16257: Ø 250mm Ref. 16307: Ø 300mm | Ref. 24171: Ø 200mm Ref. 24201: Ø 250mm Ref. 24217: Ø 300mm |
| LDR |  | Polyurethane impregnated polyester fiber felt | Electronics, carbon fiber Semi-conductors polishing | Diamond products Alumine | 1 to 1/4μ | Ref. 16223: Ø 200 mm Ref. 16273: Ø 250 mm Ref. 16323: Ø 300 mm | 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, sapphire and semi-conductors.

MED R

DISCS MED R

Polishing discs composed of resin pads, which are used with a polycrystalline diamond suspension or a dedicated super abrasive suspension.

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

POLYCRYSTALLINE DIAMOND SUSPENSION FOR MED R

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

SUPER-ABRASIVE SUSPENSION FOR MED R

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

MED R FASTER. MORE EFFECTIVE.

Used with a polycrystalline diamond suspension or a special super-abrasive suspension

Replaces several polishing stages:

- + savings in abrasive papers and polishing cloths
- + more resistant than a polishing cloth

⊖ **Better removal rate**

⊖ **Better flatness**

⊖ **Enhanced circulation of polishing fluids**

**A
COMPLETE
RANGE**

3 diameters:
200, 250 and
300mm

Download the MED R
technical sheet



POLISHING CLOTHS

Ø 200MM

ADHESIVE

Box of 5.

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

REFLEX PAD-MAG

Box of 5.

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

Ø 250MM

ADHESIVE

Box of 5.

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

REFLEX PAD-MAG

Box of 5.

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

Ø 300MM

ADHESIVE

Box of 5.

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

REFLEX PAD-MAG

Box of 5.

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

Ø 400MM

ADHESIVE

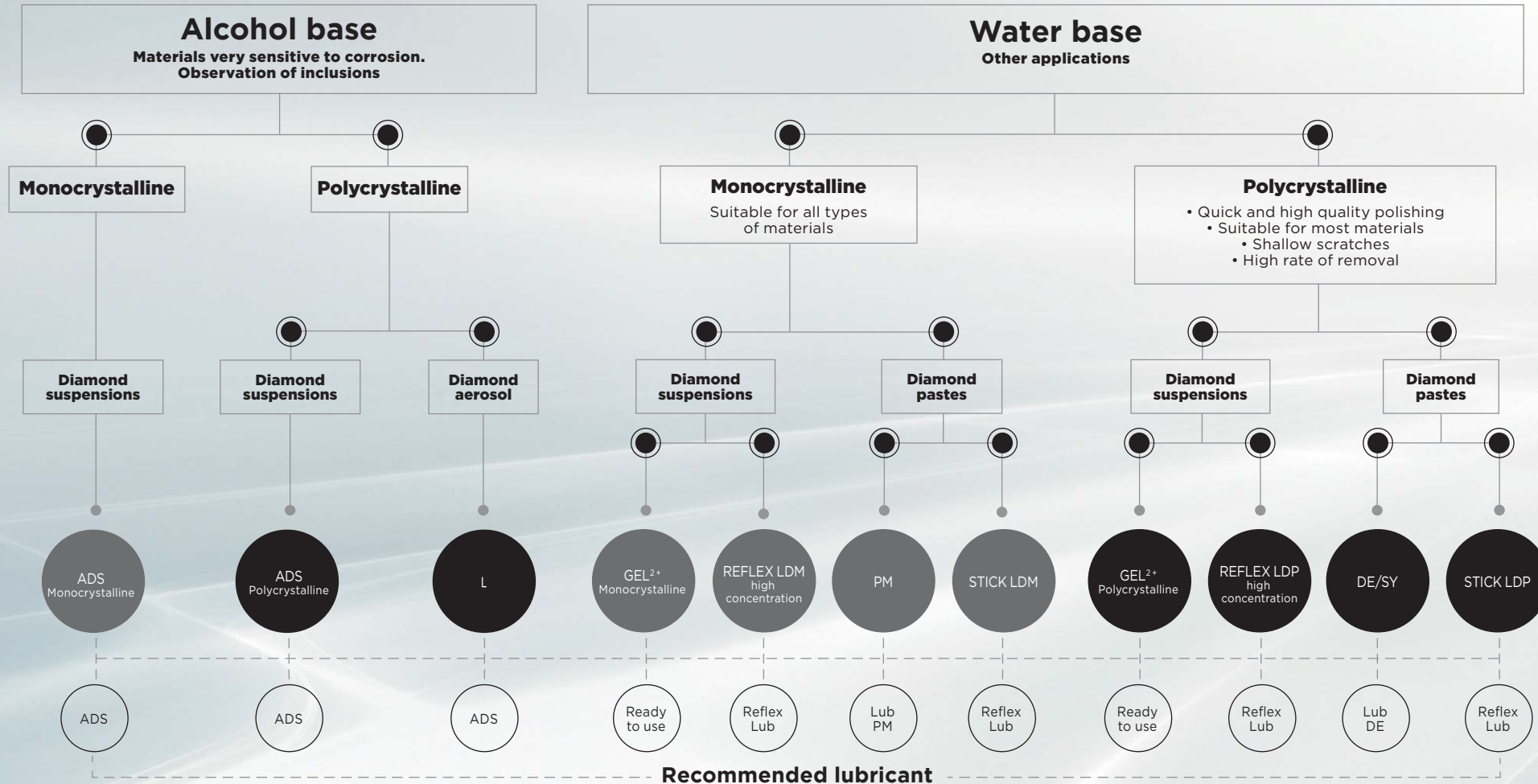
Box of 5.

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

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



DIAMOND POLISHING



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

MONOCRYSTALLINE DIAMOND SUSPENSIONS

REFLEX LDM

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



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

* Comes in a spray bottle

ADS MONOCRYSTALLINE

Alcohol based 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 | μ |
|-------|---------------|------|
| 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

ODS MONOCRYSTALLINS

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

| REF. | DESIGNATION | μ |
|-------|--------------|------|
| 20750 | 250CC Bottle | 1/4μ |
| 20760 | 500CC Bottle | 1/4μ |
| 20770 | 1l Bottle | 1/4μ |
| 20780 | 2.5l Drum | 1/4μ |
| 20751 | 250CC Bottle | 1μ |
| 20761 | 500CC Bottle | 1μ |
| 20771 | 1l Bottle | 1μ |
| 20781 | 2.5l Drum | 1μ |
| 20752 | 250CC Bottle | 3μ |
| 20762 | 500CC Bottle | 3μ |
| 20772 | 1l Bottle | 3μ |
| 20782 | 2.5l Drum | 3μ |
| 20753 | 250CC Bottle | 6μ |
| 20763 | 500CC Bottle | 6μ |
| 20773 | 1l Bottle | 6μ |
| 20783 | 2.5l Drum | 6μ |
| 20754 | 250CC Bottle | 9μ |
| 20764 | 500CC Bottle | 9μ |
| 20774 | 1l Bottle | 9μ |
| 20784 | 2.5l Drum | 9μ |
| 20755 | 250CC Bottle | 15μ |
| 20765 | 500CC Bottle | 15μ |
| 20775 | 1l Bottle | 15μ |
| 20785 | 2.5l Drum | 15μ |

GEL²⁺ MONOCRYSTALLINE

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

| 2.5l Drum | DESIGNATION | μ |
|-----------|-------------|------|
| 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 | 3 |
| 24304 | 1l Bottle* | 6μ |
| 24318 | 2.5l Drum | 6μ |
| 24305 | 1l Bottle* | 9μ |
| 24319 | 2.5l Drum | 9μ |
| 24306 | 1l Bottle* | 15μ |
| 24320 | 2.5l Drum | 15μ |

* Comes in a spray bottle

SPRAYS

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



Sprays 500 CC



Sprays 50 CC

POLYCRYSTALLINE DIAMOND SUSPENSIONS

REFLEX LDP

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



| REF. | DESIGNATION | μ |
|-------|---------------|------|
| 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 POLYCRYSTALLINE

Alcohol based diamond suspensions, anhydrous. For the polishing of semi-hard to very-hard materials, sensitive to corrosion and for observation of inclusions. To be used with lubricant Lub ADS.

| REF. | DESIGNATION | μ |
|-------|---------------|------|
| 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

ODS POLYCRYSTALLINE

New oil-based diamond suspensions, anhydrous. For the polishing of semi-hard to very-hard materials, sensitive to corrosion and for observation of inclusions. To be used with lubricant Lub ODS.

| REF. | DESIGNATION | μ |
|-------|--------------|------|
| 20710 | 250CC Bottle | 1/4μ |
| 20720 | 500CC Bottle | 1/4μ |
| 20730 | 1l Bottle | 1/4μ |
| 20740 | 2.5l Drum | 1/4μ |
| 20711 | 250CC Bottle | 1μ |
| 20721 | 500CC Bottle | 1μ |
| 20731 | 1l Bottle | 1μ |
| 20741 | 2.5l Drum | 1μ |
| 20712 | 250CC Bottle | 3μ |
| 20722 | 500CC Bottle | 3μ |
| 20732 | 1l Bottle | 3μ |
| 20742 | 2.5l Drum | 3μ |
| 20713 | 250CC Bottle | 6μ |
| 20723 | 500CC Bottle | 6μ |
| 20733 | 1l Bottle | 6μ |
| 20743 | 2.5l Drum | 6μ |
| 20714 | 250CC Bottle | 9μ |
| 20724 | 500CC Bottle | 9μ |
| 20734 | 1l Bottle | 9μ |
| 20744 | 2.5l Drum | 9μ |
| 20715 | 250CC Bottle | 15μ |
| 20725 | 500CC Bottle | 15μ |
| 20735 | 1l Bottle | 15μ |
| 20745 | 2.5l Drum | 15μ |

GEL²⁺ POLYCRYSTALLINE

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

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

* Comes in a spray bottle

SPRAYS

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



Sprays 500 CC



Sprays 50 CC

DIAMOND PASTES & STICKS

MONOCRYSTALLINE AND POLYCRYSTALLINE

Available
in PMUC.
Contact us.

DIAMOND PASTES - PM

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

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

DIAMOND AEROSOLS - L

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

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

DIAMOND PASTES - DE/SY

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

| REF. | DESIGNATION | GRIT |
|-------|-------------|------|
| 06017 | 5g syringe | 1/4μ |
| 06018 | 10g syringe | 1/4μ |
| 06019 | 5g syringe | 1μ |
| 06020 | 10g syringe | 1μ |
| 06021 | 5g syringe | 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

| REF. | DESIGNATION | TYPE | COLOR |
|-------|-------------|------------|-------------|
| 10005 | 1l Bottle | DE | Pink |
| 10020 | 10l Drum | DE | Pink |
| 10006 | 1l Bottle | PM | Orange |
| 10021 | 10l Drum | PM | Orange |
| 10013 | 1l Bottle | ADS | Transparent |
| 10025 | 10l Drum | ADS | Transparent |
| 24270 | 1l Bottle* | Reflex Lub | Green |
| 24271 | 10l Drum | Reflex Lub | Green |
| 10014 | 1l Bottle | ODS | Transparent |
| 10027 | 10l Drum | ODS | Transparent |

* Comes in a spray bottle

DIAMOND STICKS - LDM

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

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

DIAMOND STICKS - LDP

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

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



Diamond sticks



Lubricants

SUPER-FINISHING POLISHING

PRESI ALUMINA SUSPENSIONS

PRESI N° 1 - Grit: 0.04μ.

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

PRESI N° 2 - Grit: 0.3μ.

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

PRESI N° 3 - Grit: 0.8μ.

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

PRESI N° 4 - Grit: 1μ.

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

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

SPM (COLLOIDAL SILICA) NON CRYSTALLISING

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

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

* Comes in a spray bottle

DUJARDIN ALUMINA SUSPENSIONS

DUJARDIN N° 1 - Grit: 0-1μ. Blue.

Use: suitable for polishing of steels and hard steels.

DUJARDIN N° 2 - Grit: 0-0.7μ. White.

Use: provides a flawless surface for 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 samples and in particular for soft metals: copper, lead...

Can be used in certain cases for finishing after diamond polishing.

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

SPM (COLLOIDAL SILICA)

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

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

* Comes in a spray bottle

PRESI ALUMINA POWDERS

| REF. | DESIGNATION |
|--------------------|-----------------|
| Box of 1 kg | |
| 11001 | Gamma 0.04μ |
| 11002 | Type alpha 0.3μ |
| 11003 | Type alpha 1μ |

CERIUM OXIDE

Suitable for the polishing of optics and ceramics.

| REF. | DESIGNATION | GRIT |
|-------|-------------|------|
| 36207 | 1kg Pack | 2.5μ |

REAGENTS

ELECTROLYTIC POLISHING

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

ELECTROLYTES FOR ELLOPOL TYPE PORTABLE DEVICE

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

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

* Subject to customs regulations in France. 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 designed to be used in cells or in a bath, depending on the materials to be polished or attacked. Polishing or attack operations are generally very short because of the circulation of electrolytes causing rapid material removal.

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

* Subject to customs regulations in France. 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.

Hazardous products: specific transport costs and prices upon request.

| REF. 100ML | REF. 1L | DESIGNATION | FORMULA | ETCHANT | USE |
|------------|---------|--------------------------------------|---|---------|--|
| 17251 | 17252 | NITAL 3% | 3ml HNO ₃ + 100ml Ethanol | | Steels - Revealing ferrite grains / phases Magnesium and most magnesium alloys |
| 17220 | 17221 | NITAL 4% | 4ml HNO ₃ + 100ml Ethanol | Micro | Tin and tin rich alloys with cadmium, copper, iron and antimony Gadolinium |
| 17253 | 17254 | NITAL 5% | 5ml HNO ₃ + 100ml Ethanol | | Rare earth Cobalt alloys |
| 17255 | 17256 | NITAL 7% | 7ml HNO ₃ + 100ml Ethanol | | |
| 17257 | 17258 | NITAL 15% | 15ml HNO ₃ + 100ml Ethanol | Macro | Steels - after approach work |
| 17259 | 17260 | Oberhoffer etchant* | 500ml H ₂ O + 500ml Ethanol + 50ml HCl + 30g FeCl ₃ + 1g CuCl ₂ + 0.5g SnCl ₂ | Macro | Unalloyed or low-alloyed steels |
| 17222 | 17223 | Picral -1 etchant* | 10g Picric acid + 100ml Ethanol | | Iron Carbon steels |
| 17261 | 17262 | Picral -2 etchant* | 4g Picric acid + 100ml Ethanol | Micro | Low-alloyed steels Cast iron & cast steels coated with iron / tin General etchant for steels, in particular revealing carbide, good phase resolution |
| 17263 | 17264 | Béchet - Beaujard etchant | 4g acid picrique + 99ml H ₂ O + 1ml Teepol | Micro | Steels - Revealing grain joints in and low-alloys quenched and tempered carbon steels (1 to 3 hours attack) |
| 17265 | 17266 | Iron chloride III acidified solution | 48ml H ₂ O + 12 ml HCl + 5g FeCl ₃ | Macro | Steels - Macroscopic examination in general use. For chromium steels, nickel and stainless steels |
| 17267 | 17268 | Iron chloride III neutral solution | Aqueous solution - 41% FeCl ₃ | Macro | Steels - Steels weld |
| 17228 | 17229 | Fry A etchant* | 40ml HCl + 5g CuCl ₂ + 30ml H ₂ O + 25ml Ethanol | Macro | Steels - Steels attack |
| 17283 | 17284 | Fry B etchant | 100ml H ₂ O + 150ml HCl + 67g CuCl ₂ | Macro | Carbon steels - Flux lines |
| 17327 | 17290 | Le Chatelier etchant | 25g NaOH + 6g Picric acid + 100ml H ₂ O | Micro | Steel - Revelation of cementite and/or nitrides |
| 17269 | 17270 | Le Chatelier N°2 etchant* | 100ml Ethanol + 10ml H ₂ O + 1g CuCl ₂ + 0,5g Picric acid + 2ml HCl | Micro | Iron - Eutectic cells of a grey cast iron |
| 17244 | 17245 | Curran etchant | 10ml FeCl ₃ + 30ml HCl + 100ml H ₂ O | Micro | |
| 17232 | 17233 | Marble etchant | 10g CuSO ₄ + 50 ml HCl + 50 ml H ₂ O | Macro | Stainless steels |
| 17224 | 17225 | Aqua regia | 20ml HNO ₃ + 60ml HCl | Micro | Austenitic stainless steels |
| 17230 | 17231 | Murakami etchant | 10 g K ₃ Fe(CN) ₆ + 10g KOH + 100ml H ₂ O | Micro | Austenitic and ferritic stainless steels, tungsten carbide |
| 17226 | 17227 | Villela etchant* | 2g CuCl ₂ + 40ml HCl + 60ml Ethanol | Micro | Austenitic and ferritic stainless steels |

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

| REF. 100ML | REF. 1L | DESIGNATION | FORMULA | ETCHANT | USE |
|------------|---------|--|---|---------------|---|
| 17234 | 17235 | Villela etchant* | 5ml HCl + 1g Picric acid + 100ml Ethanol | Micro | Austenitic stainless steels - Revealing of grain, tool steels, martensitic stainless steels |
| 17285 | 17286 | V2A etchant | 100ml H ₂ O + 100ml HCl + 10ml HNO ₃ | Micro | Stainless steels - Size of grain (Attack between 50 and 60°C) |
| 17322 | 17320 | Catella etchant* | 2g Picric acid 2g + 6g CH ₃ COOH + 10g HCl + 100g ethanol | Micro | Treated martensitic stainless steels - Revealing the structure and grains |
| 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% HF | Micro | Aluminium - Microstructures of brazed aluminium seals (Observation of dissolution phenomena) |
| 17326 | 17325 | Graff & Sargent's etchant | 3g CrO ₃ + 15.5ml HNO ₃ + 0.5ml HF + 84ml H ₂ O | Micro | Aluminium - Grain removal on 2XXX, 3XXX, 6XXX and 7XXX series & alloys. Immerse between 20 and 60 s under gentle agitation. |
| 17273 | 17274 | 5% sodium solution | Aqueous solution - 5% NaOH | Micro | Aluminium alloys |
| 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 |
| 17324 | 17323 | Weck etchant* | 2g NH ₄ HF ₂ + 25ml ethanol + 100ml H ₂ O | Micro / Macro | Titanium / Aluminium - Weld Structure and Development |
| 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) ₂ CuCl ₄ · 2 H ₂ O] + 50ml HCl + 15g FeCl ₃ | Micro/Macro | Attack of Inconel Superalloys Corrosion resistant steels Cobalt and nickel alloys |

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

ATTACK OF A STEEL WELD USING NITAL 4%



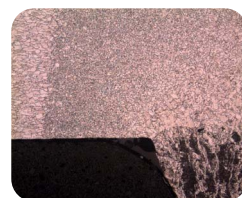
Macro before attack



Macro after attack



Micro before attack



Micro after attack

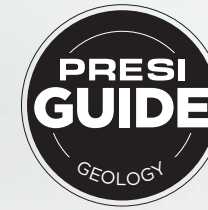
PREPARATION

Geology

It is through collaboration with our customers that our range has been developed and it is still within this environment that we develop and evolve our offering. Our network and our ability to work with our customers is our strength, we are proud to have built this relationship of trust allowing ever more innovation and development.

The technology we have developed directly inherits our know-how of more than 50 years in metallography: cutting, mounting, polishing and observation. Always with innovation and adaptability as a leitmotif.

98



THIN SECTION
PREPARATION

99



MECATOME
T265

GEOPRESS

POLY'VAC



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DIAMOND WIRE SAWS

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GEOTOME DUAL

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LE CUBE

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MECATECH 300 SPC

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MECATECH 334 SPC

PRESSURE VESSEL



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VIBROTECH 300



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THIN SECTION CONTROLLER

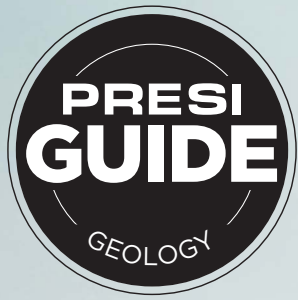


105

MICROSCOPES



105



THIN SECTION PREPARATION PROCESS BY PRESI

Lithopreparation is a set of essential techniques to many sectors: geology, archeology, mining research, etc.

With its range dedicated to the preparation of thin sections, PRESI constantly brings additional solutions, services and expertise to its customers.

1

CUTTING

The rock is cut to extract the sample for analysis.



MECATOME T265
MECATOME T305
GEOTOME DUAL

2

SHAPING

The sample is worked until the desired shape and dimensions are achieved: the "sugar cube".



GEOTOME DUAL

3

LAPPING

The surface to be glued is worked to obtain perfect flatness.



LE CUBE
MINITECH RANGE
MECATECH 300 SPC
MECATECH 334 SPC
VIBROTECH

4

GLUING

The cube is glued to the slide.

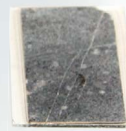


GEOPRESS

5

THINNING

The sample is thinned to the desired dimension for observation or polishing.



GEOTOME DUAL
DIAMOND WIRE SAWS

6

GRINDING

The sample is pre-polished.

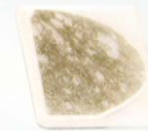


GEOTOME DUAL

7

POLISHING

An optional stage during which the sample is polished to remove residual scratches.

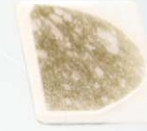


MECATECH 300 SPC
MECATECH 334 SPC

8

SUPER FINISHING

The sample is polished using nanoparticulate abrasives for specific analyzes.



MECATECH 300 SPC
MECATECH 334 SPC
VIBROTECH 300

CUTTING

MECATOME T265 T305

Manual, reliable and robust cutting machines. Particularly suitable for cutting rock samples, the MECATOME T265 and T305 have a cylindrical cutting capacity with a diameter of 95mm. These cutting machines provide maximum flexibility of use thanks to their tables allowing the vertical or horizontal positioning of a clamping system.

Options

- Double cutting disc which allows the cutting of slices in one step
- Pneumatic vice



Discover them in detail p.18 and p.20

THINNING

DIAMOND WIRE SAWS

Diamond wire saws for cutting rock samples. They are particularly recommended for cutting delicate samples such as silicium or glass. The low forces applied allow samples to be cut without damage.



Wire Saw 3400
Ref. 52030



Wire Saw 3500 BASE
Ref. 52010



Wire Saw 3500
PREMIUM
Ref. 52020



Wire Saw 4500
Ref. 52040



Wire Saw 6500
Ref. 52050



Winding device

All their technical characteristics p.34

CUTTING • SHAPING • THINNING • GRINDING

GEOTOME

DUAL

TWO WORKING AREAS
ADAPTABILITY:
CUSTOM MADE
SAMPLE HOLDERS

REF. 62830

Geotome dual has two working areas. One allowing cutting of rock samples, the other pre-polishing of thin sections.



510mm
Hood open

950mm
Hood closed



1150mm



780mm



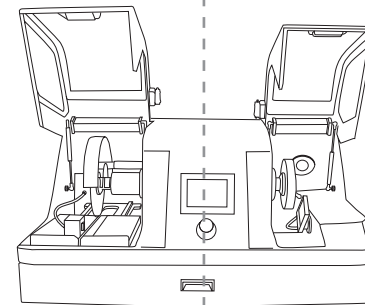
170kg



CUT • SHAPE • THIN

The cutting side uses LM diamond discs with a diameter of 250 mm.

Equipped with a longitudinal table with manual movement, it allows to cut the rock and shape the sugar. Once the sugar has been glued onto a glass slide, it can be thinned to a fixed or variable size, using a mobile or fixed vacuum vice.



GRINDING

The grinding area of GEOTOME DUAL allows you to pre-polish up to 4 thin sections simultaneously. They are held by a vacuum sample holder and are rectified thanks to a 175mm diameter diamond head cup wheel with resinoid, metallic or vitrified binder.

CHARACTERISTICS

HOODING - INTERIOR ENVIRONMENT

| | |
|--------|--|
| Type | Metal & PETG frame |
| Safety | The grinding area and the unused area are locked during motor rotation |

MOTOR POWER - ELECTRICAL SUPPLY

| | |
|---------------------------|------------------------------------|
| Power / Electrical supply | 2200W / 220V / Single phase / 50Hz |
| Motor piloting | Frequency controller |

CUT-OFF WHEEL

| | |
|----------------|---|
| Wheel type | Diamond |
| Wheel size | Cutting: diamond disc Ø 250mm Rectification: cup wheel Ø 175mm |
| Rotation speed | 1000 to 3000 RPM |
| Shaft diameter | 25.4mm |

CONTROL

| | |
|--|---------------------|
| Control interface | Colour touch screen |
| Protection by access code | Can be activated |
| Communication / Machine piloting interface | Modbus |

CUTTING - GRINDING

| | |
|-----------------------------|--|
| Cutting method | Manual |
| Type of movement | Cutting: manual on longitudinal table Rectification: manual with micrometric knob |
| Travel of Y axis | On the cutting table: 300mm |
| Travel of X axis | Grinding sample holder: 35mm |
| Dimensions of cutting table | 260 x 300mm |
| Type of table | Cutting: micro bead-blasted stainless steel table Grinding: aluminium sample holder with ceramic sole |
| Clamping / Vacuum clamping | A T-slot (12mm) compatible with all clamping systems on the market |
| Sample / Cutting | Max height: 50mm 2 sections 30x45mm or 1 section 60x45mm* |
| Sample / Grinding | 4 sections 30x45mm or 1 section 60x45mm* |

LUBRIFICATION - COOLING

| | |
|---|--|
| Pump & Tray | External - 60L |
| Type of lubrication | Pumped |
| Configuration of lubrication points - Cooling | Cutting: wheel guard Grinding: directional lubrication nozzle |
| Type of filter | 100µm washable fabric filter |

ERGONOMICS

| | |
|---------------------|------------|
| Interior lighting | LED |
| Cleaning gun | Integrated |
| No load noise level | < 70db |

* Others dimensions on request.

ACCESSORIES



Jointed magnetic stand for gauge
Ref. 62848



Gauge with lifting cable 300mm
Ref. 62849



GEOTOME DUAL Vacuum system Automatic purge
Ref. 62831



Vacuum holder for cutting 2 thin sections 30 x 45mm*
Ref. 62837



Manual micrometric vacuum holder for cutting
Travel: 40mm
Precision: 0,1mm
Capacity : 2 thin sections 30 x 45mm*
Ref. 62842



Ceramic vacuum holder for grinding
Capacity: 4 thin sections 30 x 45mm*
Ref. 62832



Holding block for manual cutting
Ref. 62846



* Others dimensions on request.

LAPPING

LE CUBE

SPACE-SAVING
EASY TO USE
ROBUST

REF. 66250

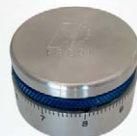
The CUBE is a Ø 200 or 250mm manual polisher with a high torque motor that can rotate clockwise and counterclockwise. The polishing plate has two rotation speeds (150 and 300 rpm). The CUBE mainly allows the manual lapping of sugars.

↑ 700mm
Hood open

↔ 398mm

↘ 420mm

📦 25kg



Precise holder for thin section 30 x 45mm
Ref. 62862



Precise holder for thin section 28 x 48mm
Ref. 62863

Full information p.54

MINITECH

USER-FRIENDLY, RELIABLE, ROBUST

Ø 200 TO 250MM / Ø 250 TO 300MM

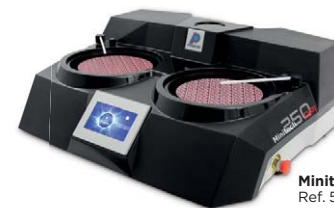
Ideal for manual lapping of « sugar cubes ». MINITECHs are top-of-the-range, manual polishing machines. Equipped with removable bowls, they are very easy to clean. Hood and tank are made of composite material, preventing any corrosion.



Minitech 250 SP1
Ref. 66400



Minitech 300 SP1
Ref. 66430



Minitech 250 DP1
Ref. 52030



Minitech 300 DP1
Ref. 66440



Minitech 250 DP2
Ref. 66420



Minitech 300 DP2
Ref. 66450

All MINITECH models p.56

POLISHING

MECATECH 300 SPC

OPTIMAL POLISHING
QUALITY
POWER AND RELIABILITY
AUTOMATIC

REF. 67940

The MECATECH 300 SPC integrates the most advanced technologies for ease of use. Its removable over-bowl allows easy maintenance. In geology version, this polishing machine has a speed range suitable for working with thin sections.

↑ 700mm
Hood open

↔ 398mm

↘ 420mm

📦 25kg

CE



More information about the Mecatech 300 SPC p.66



Precise holder for thin section 30 x 45mm
Ref. 62862



Precise holder for thin section 28 X 48mm
Ref. 62863



Specimen holder for individual pressure for 6 thin sections 30 x 45mm
Ref. 62851



Specimen holder for precise holder
Ref. 62861



Specimen holder for double contact holder for thin section 30 x 45mm
Ref. 62872 - 62873

MECATECH 334 SPC

REF. 67960

A simplified version of a single station automatic polishing machine is also available.

↑ 640mm

↘ 750mm

↔ 520mm

📦 75kg

CE



CONTACT US
for more information

More information about the Mecatech 334 SPC p.64

GLUING

GEOPRESS

PROGRAMMABLE
ADJUSTABLE
TEMPERATURE

REF. 62820

GEOPRESS allows you to glue up to 20 samples simultaneously under individual weights of 600g to 1.6kg. It is the only press on the market which allows progressive, controlled temperature increase. GEOPRESS works at temperatures up to 110°C.



370mm

60mm

290mm

33kg



CHARACTERISTICS

| | |
|---------------------------|---|
| Number of samples | 20 sections 30x45 or 10 sections 60x45 |
| Size of heating plate | 130 x 500mm |
| Weight-block weight | 600g |
| Heating power | 750W |
| Maximum temperature | 110°C |
| Multilingual touch screen | ✓ |
| Programmable | ✓ |
| Timer | ✓ |
| Gradient management | ✓ |
| Security Access | Activable |
| Power supply | 220V AC 50Hz |

ACCESSORIES



10 overweights of 1kg
Ref. 62821



20 teflon weight distribution stands
Ref. 71164

POLY'VAC

TURNTABLE
PROGRAMMABLE

REF. 53600

The POLY'VAC Vacuum mounting system allows rock stabilisation by impregnation whatever the thin section preparation stage. Piloted by a touch screen, POLY'VAC is programmable (several levels of vacuum, time lag between a minute and several hours). This system includes a resin distribution dispenser.



More info about POLY'VAC p.43 ⁺

PRESSURE VESSEL

REF. 04300

The pressure vessel improves the rendering of KM-series acrylic mounting resins, makes the KM-U resin transparent and reduces shrinkage. Can be used with all cold resins.



All the information about the pressure device p.43 ⁺

SUPER FINISHING

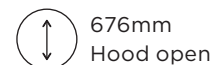
VIBROTECH 300

EFFICIENT ROBUST
SILENT

REF. 68100

The VIBROTECH 300 is a reliable and robust vibratory polishing machine, suitable for polishing consumables in Ø300 and 305mm.

Vibratory polishing is an ultra-soft technique, suitable for super-finishing stages. This polishing method improves the results of EBSD and AFM analyzes.



676mm
Hood open



715mm



554mm



90kg



SAMPLE HOLDER

| REF | DIAMETER |
|-------|----------|
| 68110 | Ø 25mm |
| 68111 | Ø 25,4mm |
| 68112 | Ø 30mm |
| 68113 | Ø 31,7mm |
| 68114 | Ø 38,1mm |
| 68115 | Ø 40mm |
| 68116 | Ø 50mm |



OBSERVING

THIN SECTION CONTROLLER

REF. 62802

The controller measures the thickness of a thin section during preparation.

Jointed magnetic stand for gauge
Ref. 62848
Gauge with lifting cable 300mm
Ref. 62849

| | |
|------------------|-----------|
| Type of table | Granite |
| Table dimensions | 180x120mm |
| Table thickness | 50mm |
| Column length | 160mm |
| Column diameter | 30mm |
| Gauge travel | 12.7mm |
| Resolution | 1µm |
| Accuracy | 3µm |
| Lifting cable | 300mm |



MICROSCOPES

Polarised light microscopes control thin section thickness and flatness.

Offer on request:
please consult us.



EVERYTHING YOU NEED FOR PETROGRAPHY

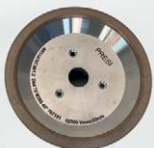
PRESI manufactures and sells a wide range of consumables suitable for petrography: cut-off wheels, diamond discs, abrasive for lapping, polishing cloths, diamond suspensions.

CUT-OFF WHEEL



Diamond LM
See p.37

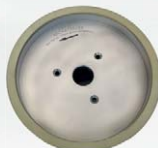
CUP WHEELS Ø 175MM X 25.4MM



**Conical D64
Metal binder**
Ref. 02300



**D40 standard
Resin binder**
Ref. 02301



**D25 standard
Vitrified binder**
Ref. 02302

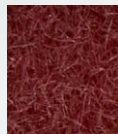
POLISHING CLOTHS



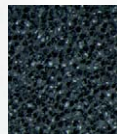
**TOP cloth
Ø 300mm**
See p. 87



**RAM cloth
Ø 300mm**



**NT cloth
Ø 300mm**



**SUPRA cloth
Ø 300mm**

ABRASIVE FOR LAPPING



Silicon Carbide
See p.79



DIAMOND SUSPENSIONS



**Monocrystalline & Polycrystalline
from 1/4µ to 15µ**
Also available in oil and alcohol base
See p.85

DIAMOND STICKS



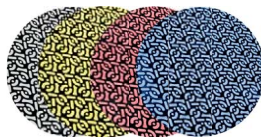
**Monocrystalline & Polycrystalline
from 1/4µ to 25µ**
See p.87

DIAMOND PASTES



**Monocrystalline & Polycrystalline
from 1/4µ to 45µ**
See p.87

DIAMOND DISCS



I-MAX R from 18µ to 125µ
See p.77



Tissediam from 10µ to 250µ
See p.78



Abrasive paper type M
See p.80

OTHER CONSUMABLES

Bottle 1kg resin IP
Ref. 42020

**Petrography epoxy set
of 500ml**
Ref. 04175

**Glass plate Ø 300mm
thickness 6mm**
Ref. 28202

CHARACTERIZATION

Optical

STEREOMICROSCOPES **108**

MICROSCOPES **109**

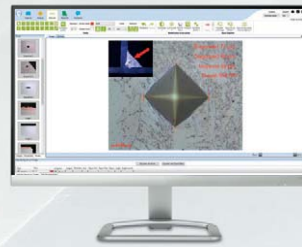
MEASUREMENT
SOFTWARE **110**



STEREOMICROSCOPES



MICROSCOPES



MEASUREMENT SOFTWARE

STEREOMICROSCOPES

SMZ745T

Powerful and economic trinocular stereomicroscope

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

- Trinocular optical head is ideal for monitoring and photomicrography
- 7.5x zoom: the most powerful in its class
- Maximum ergonomics
- Working distance: 115mm



SMZ800N

Stereomicroscope that combines work efficiency 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 more clear and sharp images.

- Improved ergonomics thanks to the existence several optical tubes
- Double-objective turret adjustable
- Wide zoom range up to x8 high resolution

Modular with a wide range of accessories



ADDITIONAL ACCESSORIES: LIGHTING



KL 2500 LED



Easy LED



Easy LED Spot

MICROSCOPES

STRAIGHT MICROSCOPE ÉCLIPSE LV150N

The encounter between digital imagery and an advanced optical system with halogen or LED lighting

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

- Compatible with several observations: bright field, dark field, simple polarization, interferential/differential contrast, epifluorescence and double band interferometry
- Objectives x1 to x150
The latest CFI60-2 range offers exceptionally long working distances as well as an optimal chromatic aberrations correction
- Modular stand adapted to different tasks and observations
- Halogen or LED lighting and modular stand

Digital
imaging
very easy
to use



INVERTED MICROSCOPE MA100N

Robust, easy to use, led lighting

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

- Aperture of the diaphragm to control contrast and the depth of field
- No height constraint of the sample to be observed, possibility to place the sample directly on the rectangular stage
- Objectives x1 to x150
- The latest range CFI60-2 offers:
 - Exceptionally long working distances long and an optimal chromatic aberrations correction
 - A numerical aperture and working distances never reached before
- High intensity LED lighting
- Compact stand



INVERTED MICROSCOPE ÉCLIPSE MA200

Innovative design and faultless ergonomics

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

- Evolutionary microscope
- Magnification from x50 up to x1000
- PLAN objectives
- Trinocular head
- Ergonomic stand: positioning of the sample on the front



PRESI, in partnership with NIKON, offers a range specially adapted to the needs of metallography and observation of materials in general. The goal is to answer to all needs in term of preparation, hardness, optics and software, acquisition and image analysis.

“PRESI VIEW MEASUREMENT” PACK

ACQUISITION AND MEASUREMENT SOFTWARE, DEVELOPED BY PRESI

REF. 71101

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

-  **Simple and intuitive**
-  **Picture fluidity**
-  **Automatic analysis**
-  **Data memorizing**

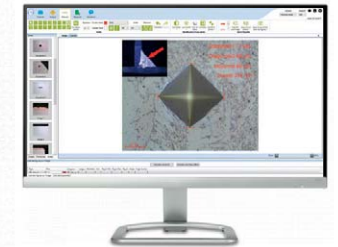
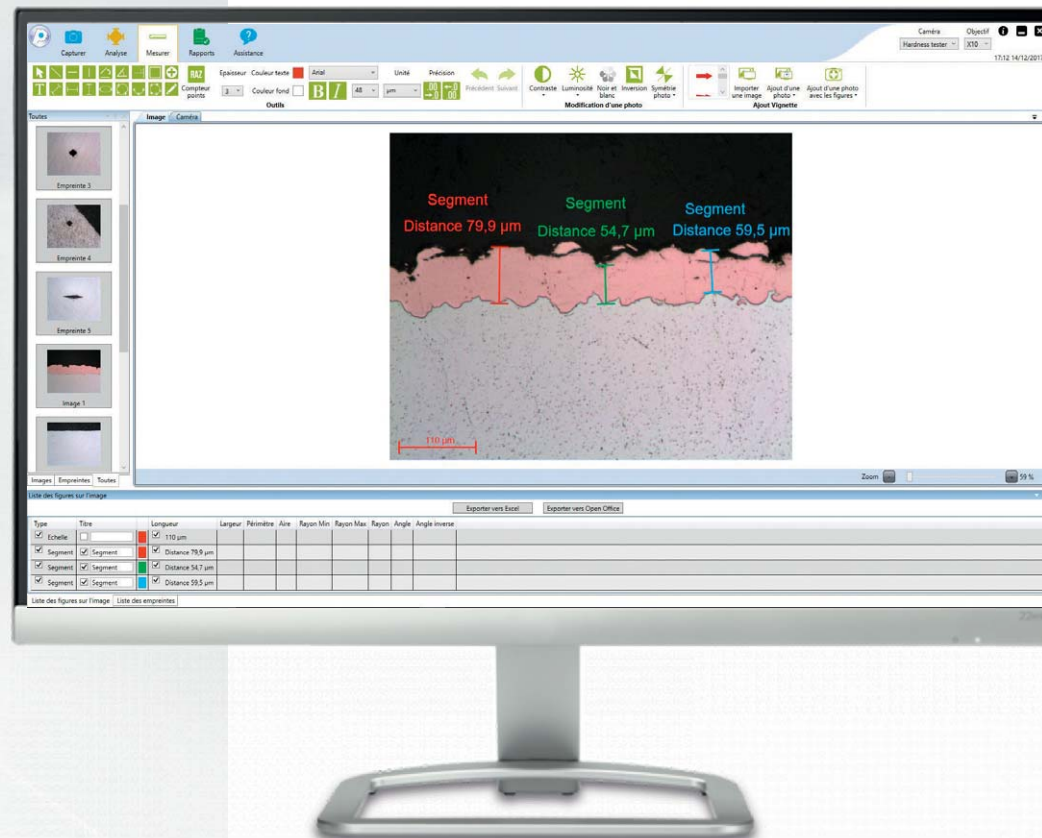
Key features and advantages

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

PRESI VIEW HARDNESS (optional)

REF. 71168

This software also has a Vickers and Knoop indents measurement module, providing excellent versatility. It adapts on stereomicroscopes, 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

CHARACTERIZATION

Mechanical

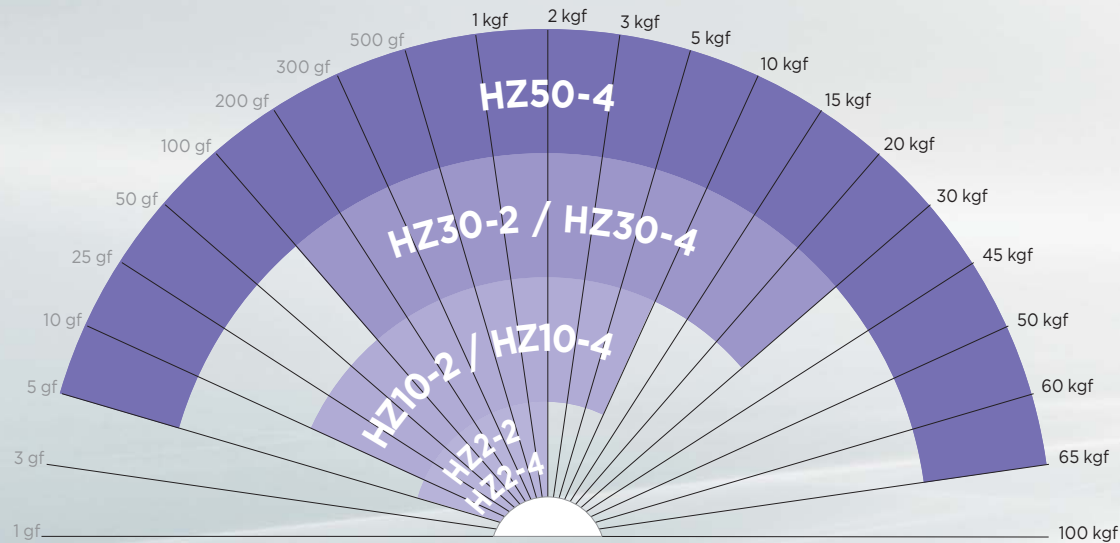
Mechanical tests make it possible to characterize the laws of behavior of materials which establish a relationship between stresses and deformations (elongation). Robust, reliable, precise, our machines allow you to carry out all your tensile, compression, bending, shearing, peeling tests, etc.

| | |
|--------------------------|-----|
| HARDNESS TEST | 112 |
| UNIVERSAL TEST MACHINES | 132 |
| RESILIENCE TEST MACHINES | 142 |
| NON-DESTRUCTIVE TESTS | 146 |



HZ RANGE LOAD CELLS

LOAD RANGE

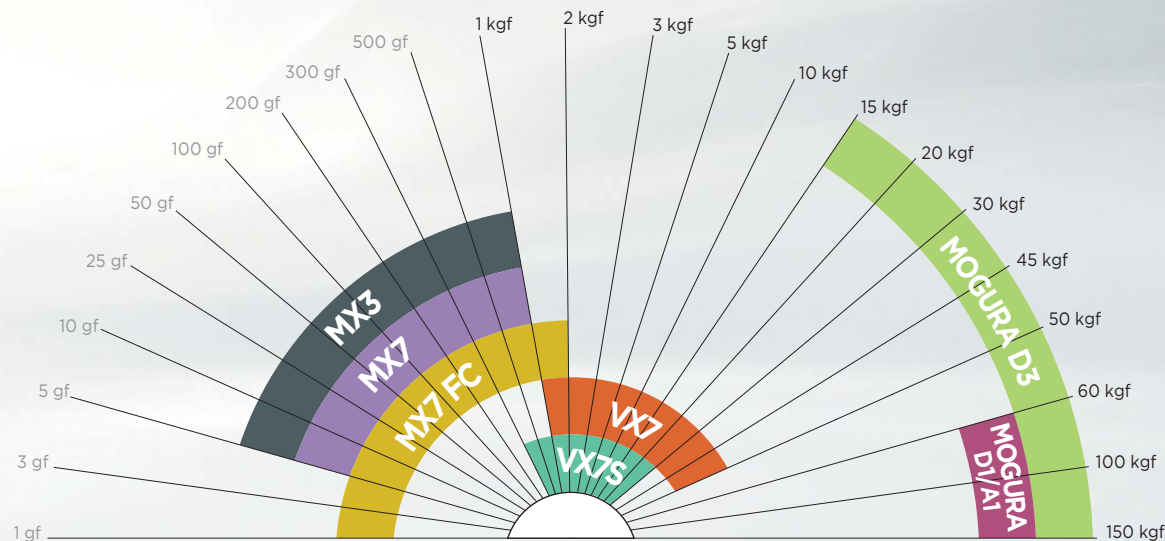


| | Hardness tester | Indenters | Turret | Objectives | Indenters |
|---------------|-----------------|----------------------------------|-----------|------------|-----------|
| HZ2-2 | Semi-automatic | Vickers or Knoop | Automatic | up to 4 | 1 |
| HZ10-2 | Semi-automatic | Vickers or Knoop | Automatic | 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, Micro Vickers and Knoop | Automatic | 4 | 2 |



MATSUZAWA DEAD WEIGHTS

LOAD RANGE



| | Indenters | | | | Turret | Number of objectives + number of indenters | | | | | |
|------------------|-----------|-------|---------|----------|----------------|--|-------|-------|----------|-------|-------|
| | Vickers | Knoop | Brinell | Rockwell | Type of turret | 2 + 1 | 2 + 2 | 3 + 1 | 3 + 2 | 4 + 1 | 4 + 2 |
| MICROTECH MX3 | █ | █ | | | Manual | standard | | | | | |
| MICROTECH MX7 | █ | █ | | | Automatic | standard | █ | █ | █ | █ | █ |
| MICROTECH MX7 FC | █ | █ | | | Automatic | | | | standard | █ | █ |
| MACROTECH VX7 | █ | █ | █ | | Automatic | standard | █ | █ | █ | █ | █ |
| MACROTECH VX7S | █ | █ | █ | | Automatic | standard | █ | █ | █ | █ | █ |
| MOGURA D1/A1 | | | | █ | | | | | | | |
| MOGURA D3 | | | | █ | | | | | | | |

Available objectives: x2,5 x5 x10 x20 x50 x10

HARDNESS

HZ HARDNESS TESTERS

THE HARDNESS TESTERS RANGE BY PRESI


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

 **Optical quality**

 **Precision**

 **Reliability**

 800mm

 370mm

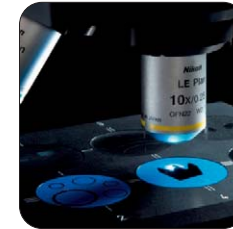
 700mm

 80kg



Large work space
Thanks to a major vertical extension

Ergonomic joystick
with customizable sensitivity



Nikon objectives
with a magnification up to 2000x



Motorized turret
Up to 7 positions,
with touch sensor



2 LED lighting systems:
for micro and macroscopy use

TABLES



Fixed table



**Motorized table
Standard**



Manual table



**Motorized table
Marble**

Download the HZ50-4
technical sheet



| HZ HARDNESS TESTERS MODEL / REFERENCE | SEMI-AUTOMATIC | | | AUTOMATIC | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| | HZ2-2 71218 | HZ10-2 71216 | HZ30-2 71200 | HZ2-4 71219 | HZ10-4 71217 | HZ30-4 71201 | HZ50-4 71123 |
| LOAD APPLICATION | | | | | | | |
| 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 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Full HD macroscopic camera: observable field 62x50mm | - | - | - | o | o | o | ✓ |
| 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 200mm XY travels 100 x 130mm Table feeding accuracy: 1µm Maximum work piece weight: 80kg Compatible with single place sample holder | - | - | - | ✓ | ✓ | ✓ | - |
| 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 | - | - | - | o | o | o | ✓ |
| SOFTWARE | | | | | | | |
| PRESI Touch Essential | ✓ | ✓ | ✓ | - | - | - | - |
| PRESI Touch Manual | o | o | o | - | - | - | - |
| PRESI Touch Pattern | - | - | - | ✓ | ✓ | ✓ | - |
| PRESI Touch Automatic "Full" | - | - | - | o | o | o | ✓ |
| External PC and 28" screen | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| GENERAL | | | | | | | |
| Test load accuracy < 1% | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dwell time: 5 - 999 s | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Standard compliance: ISO 6507 & 4545, ASTM E384 and E92 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

LEGEND: - Incompatible / ✓ Included / o Option

HZ SEMI-AUTOMATIC HARDNESS TESTERS



HZ2-2



HZ10-2



HZ30-2

HZ AUTOMATIC HARDNESS TESTERS



HZ2-4



HZ10-4



HZ30-4



HZ50-4

HARDNESS

HZ SOFTWARE

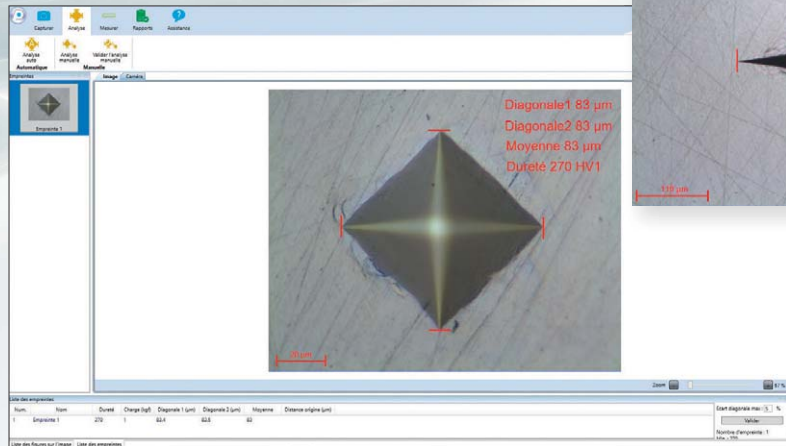
PRESI TOUCH ESSENTIAL & MANUAL

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.

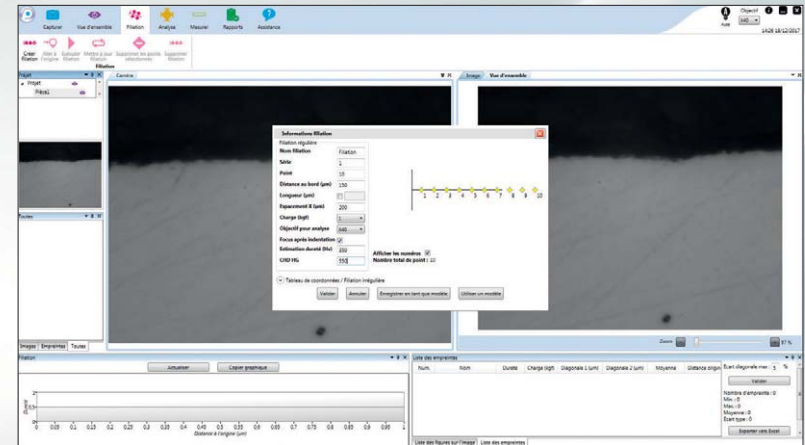


PRESI Touch Essential

Automatic or manual measurement of Vickers or Knoop indents.

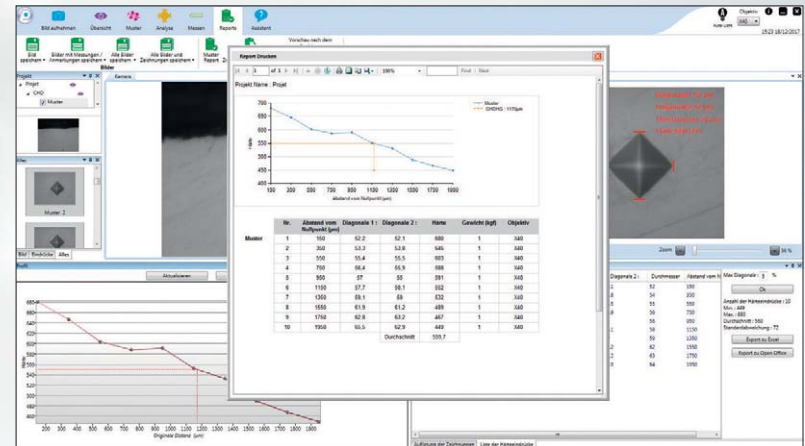
PRESI TOUCH MANUAL

Higher version of the software that integrates **manual pattern**.



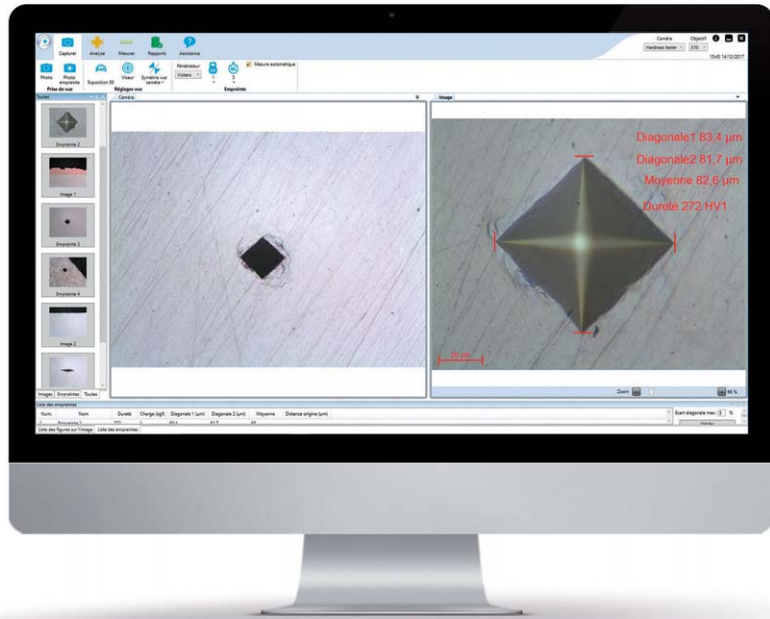
PRESI Touch Manual

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



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 measurement of the indent | ✓ | ✓ |
| Manual measurement 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 | o | ✓ |
| 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

HARDNESS

HZ SOFTWARE

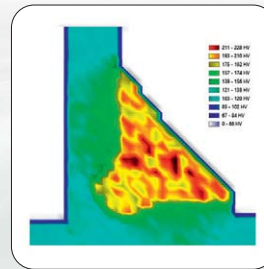
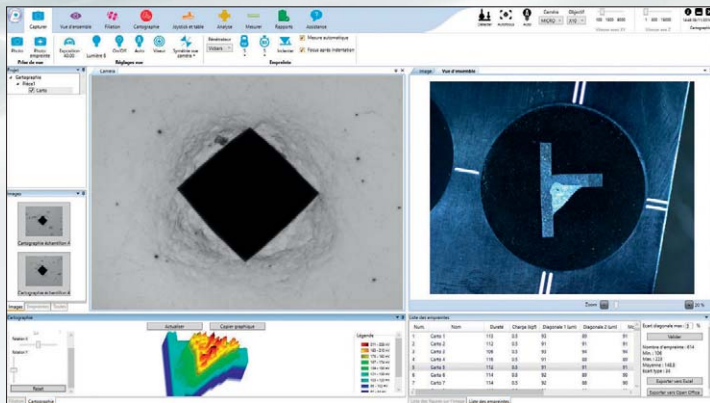
PRESI TOUCH PATTERN & AUTOMATIC "FULL"

COMPATIBILITY:

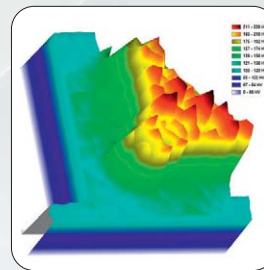
HZ automatic hardness testers
 HZ 2-4 | HZ 10-4 | HZ 30-4 | HZ 50-4

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.



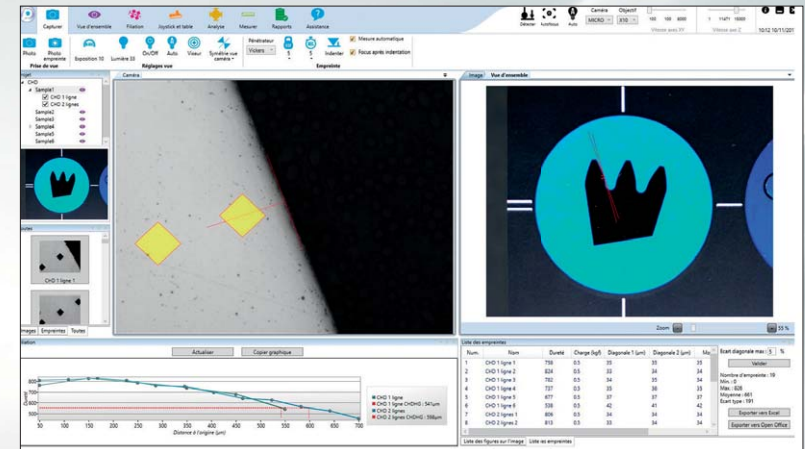
2D mapping



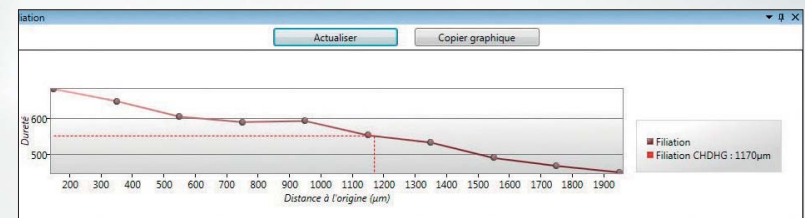
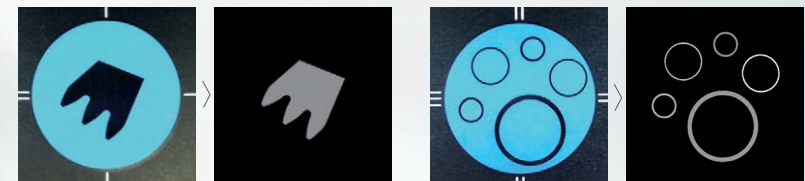
3D mapping

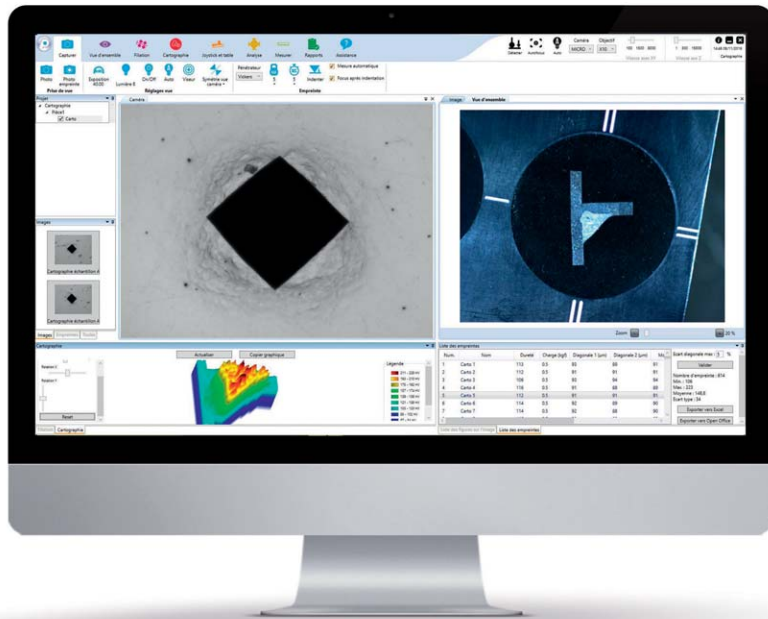
PRESI TOUCH PATTERN

Special version for **patterns, heat treatments, CHD, NHT.**



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 measurement of the indent | ✓ | ✓ |
| Manual measurement 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) |
| Reconstruction of macroscopic images | (1) | (1) |
| Reconstruction 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

HARDNESS

MICROTECH MX3

REF. 71116

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

↑
530mm

↔
250mm

↘
520mm

📦
35kg

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



OPTION
PRESI VIEW
software

CHARACTERISTICS

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

LOAD RANGE (GF)



AVAILABLE OPTIONS

INDENTERS



VICKERS
Ref. 71164



KNOOP
Ref. 71134

STANDARD VICES



50mm opening
Ref. 7113
100mm opening
Ref. 71199

OBJECTIVES



x2,5
Ref. 71106

x5
Ref. 71154

x10
Ref. 71142

x20
Ref. 71129

x50
Ref. 71143

x100
Ref. 71135

SAMPLE HOLDERS AND REMOVABLE HOLDERS



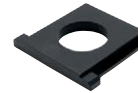
Sample holder for non-mounted samples
Ref. 71157



Single place sample holder
Ref. 71109



Sample holder 4 places
Ref. 71157



Removable holder ø 25mm
Ref. 71174

Removable holder ø 25.4mm
Ref. 71144

Removable holder ø 30mm
Ref. 71110

Removable holder ø 31.7mm
Ref. 71111

Removable holder ø 38.1mm
Ref. 71145

Removable holder ø 40mm
Ref. 71125

Removable holder ø 50mm
Ref. 71173

TURRET

3-position turret for objectives
Ref. 71131

4-position turret for objectives
Ref. 71130

2 indenters Knoop and Vickers
Ref. 71115

OTHER ACCESSORIES



C Mount for Microtech
Ref. 71108



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



Object micrometer
Ref. 71503



Digital micrometers for manual XY stage
Ref. 71120

HARDNESS

MICROTECH MX7

MICROTECH MX7 LOW LOADS

MX7 REF. 71114 MX7 low loads REF. 71105

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

↑ 530mm

↔ 250mm

↘ 520mm

📦 35kg

- Automatic turret up to 5 positions
- Vickers and Knoop hardness
- Automatic load application
- High-rigidity frame

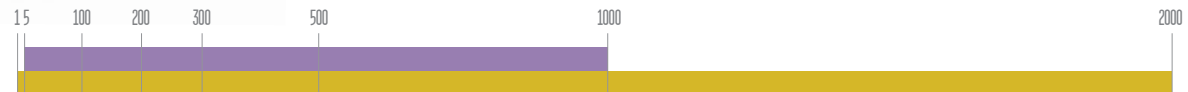


OPTION
PRESI VIEW
software

CHARACTERISTICS

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

LOAD RANGE (GF)



AVAILABLE OPTIONS

INDENTERS



VICKERS
Ref. 71164



KNOOP
Ref. 71134

STANDARD VICES



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

OBJECTIVES



x2,5
Ref. 71106

x5
Ref. 71154

x10
Ref. 71142

x20
Ref. 71129

x50
Ref. 71143

x100
Ref. 71135

SAMPLE HOLDERS AND REMOVABLE HOLDERS



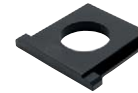
Sample holder for non-mounted samples
Ref. 71157



Single place sample holder
Ref. 71109



Sample holder 4 places
Ref. 71175



Removable holder ø 25mm
Ref. 71174

Removable holder ø 25.4mm
Ref. 71144

Removable holder ø 30mm
Ref. 71110

Removable holder ø 31.7mm
Ref. 71111

Removable holder ø 38.1mm
Ref. 71145

Removable holder ø 40mm
Ref. 71125

Removable holder ø 50mm
Ref. 71173

TURRET

3-position turret for objectives
Ref. 71131

4-position turret for objectives
Ref. 71130

2 indenters Knoop and Vickers
Ref. 71115

OTHER ACCESSORIES



C Mount for Microtech
Ref. 71108



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



Object micrometer
Ref. 71503



Digital micrometers for manual XY stage
Ref. 71120

HARDNESS

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 a 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

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



OPTION
PRESI VIEW
software

CHARACTERISTICS

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

LOAD RANGE (GF)



AVAILABLE OPTIONS

INDENTERS



VICKERS
Ref. 71164



KNOOP
Ref. 71134

STANDARD VICES



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

OBJECTIVES



x2,5
Ref. 71106

x5
Ref. 71154

x10
Ref. 71142

x20
Ref. 71129

x50
Ref. 71143

x100
Ref. 71135

SAMPLE HOLDERS AND REMOVABLE HOLDERS



Sample holder for non-mounted samples
Ref. 71157



Single place sample holder
Ref. 71109



Sample holder 4 places
Ref. 71175



Removable holder ø 25mm
Ref. 71174

Removable holder ø 25.4mm
Ref. 71144

Removable holder ø 30mm
Ref. 71110

Removable holder ø 31.7mm
Ref. 71111

Removable holder ø 38.1mm
Ref. 71145

Removable holder ø 40mm
Ref. 71125

Removable holder ø 50mm
Ref. 71173

TURRET

3-position turret for objectives
Ref. 71131

4-position turret for objectives
Ref. 71130

OTHER ACCESSORIES



Video output + C mount
Ref. 71128



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



Object micrometer
Ref. 71503



Digital micrometers for manual XY stage
Ref. 71120

Stage adapter for ref. 71122 & 71152
Ref. 71121

Manual XY stage 25 x 25mm movement
Ref. 71122

HARDNESS

HARDNESS TESTERS

ROCKWELL MATSUZAWA MOGURA D1/D3/A1

The range of **Rockwell hardness testers** is enriched with the new “Matsuzawa MoguRa” models. With digital or analog display, for Rockwell and/or Superficial Rockwell scales, very robust and easy to use.

High performance, high precision and mastered costs, Rockwell MoguRa hardness testers are perfectly suited for production workshops and teaching.



Digital



Analog

TECHNICAL CHARACTERISTICS

| TYPE | | DIGITAL | | ANALOG | |
|-----------------|--|------------------|----------------------|--------|--|
| Name | MoguRa-d1 | MoguRa-d3 | MoguRa-a1 | | |
| Test | Rockwell | Rockwell/Surface | Rockwell | | |
| Display | LCD | | Gauge | | |
| Test Load | 60, 100, 150 kgf | 15, 30, 45 kgf | 60, 100, 150 kgf | | |
| Pre-charge | 10 kgf | 3, 10 kgf | 10 kgf | | |
| Included scales | DIA | A D C | A D C 15N 30N 45N | A D C | |
| | 1/6" ball | F B G | F B G 15T 30T 45T | F B G | |
| | 1/8" ball | H E K | H E K 15W 30W 45W | H E K | |
| Optional scales | 1/4" ball | L M P | L M P 15W 30W 45W | L M P | |
| | 1/2" ball | R S V | R S V 15Y 30Y 45Y | R S V | |
| Sample size | Max height 246mm, Max. 158mm | | | | |
| Standards | ISO 6508-1, ISO 6508-2, ASTM E18-19, JIS Z 2245, JIS B7726 | | | | |
| Dimensions | Height 776mm x Width 460mm x Depth 190mm. Weight 65kg | | | | |
| Power Supply | AC240 50/60Hz | | | | |

OPTIONAL ACCESSORIES

BALL INDENTERS



| | |
|---|--|
| Ball indenter | Diameter 1/8", 1/4", 1/2", 3/4" |
| Steel balls | Diameter 1/8", 1/4", 1/2", 3/4" |
| Round table | Diameter 200mm |
| Other tables | V-table (small), plot, diamond plot |
| JIG tests on long samples | Vari-Rest & Jack-Rest |
| Micrometric Displacement table for Jomini tests | Max displacement: about 55mm Minimum graduation: 1/10mm or 1/160" |

OTHER ACCESSORIES



Rockwell test blocks
(\varnothing 64mm x 15mm)
Ref. 71167

HARDNESS

SOFTWARE

PRESI VIEW HARDNESS

ACCESSIBLE AND INTUITIVE
DIGITAL IMAGERY
FOR SINGLE INDENTS

COMPATIBILITY:

Matsuzawa hardness testers range
MX3 | MX7
MX7 LOW LOADS
VX7 | VX7S

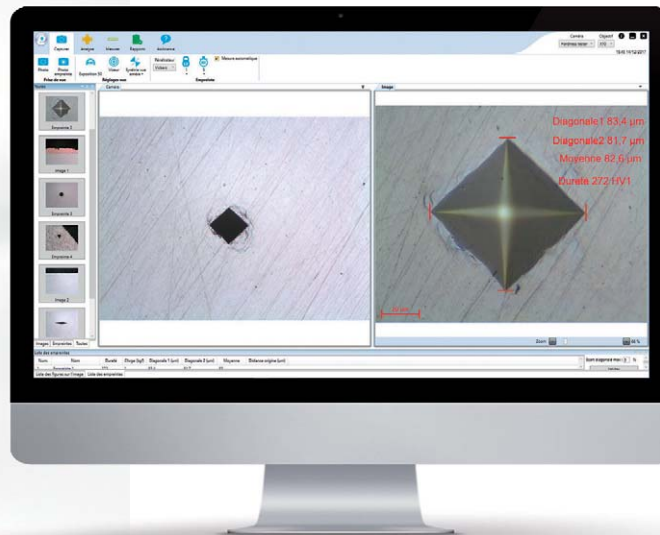
Specially designed for single indent analysis, the PRESI View Hardness software has a simple interface and a pleasant workspace. Thanks to easily identifiable icons, the software is user-friendly and the operator is quickly autonomous on his tasks. On-screen visualisation of the indent, as well as the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

 **Easy and intuitive**

 **Image fluidity**

 **Automatic analysis**

 **Data storage**



EXTENDED FEATURES WITH PRESI VIEW MESURE

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

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

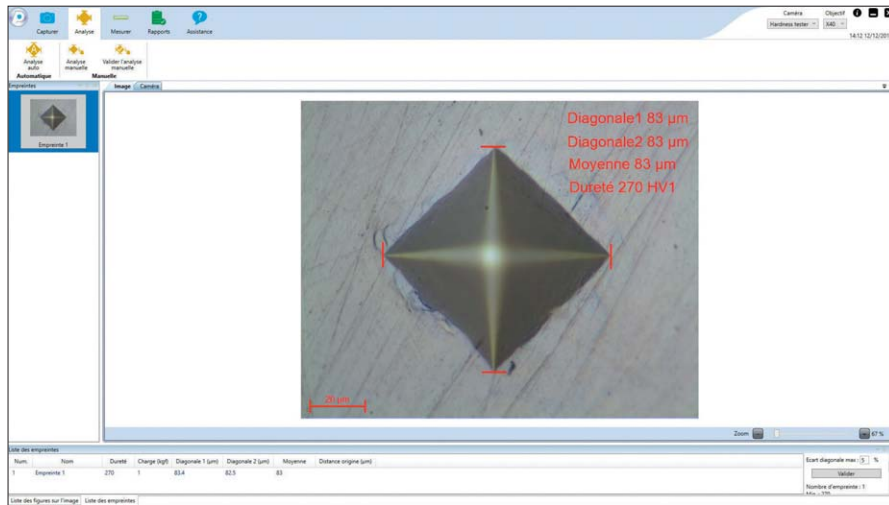
Data exportation in format: Excel / Open Office

COMPATIBILITY

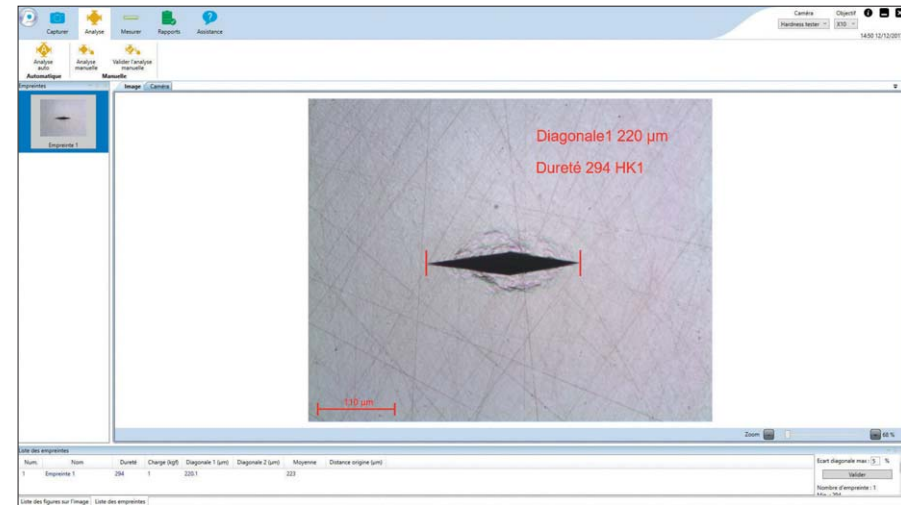
The software is compatible with all our Microtech, Macrotech VX7 and VX7S hardness testers, and all brands equipped with a video output and C mount

PRESI VIEW HARDNESS

Automatic or manual measurement of Vickers indents.

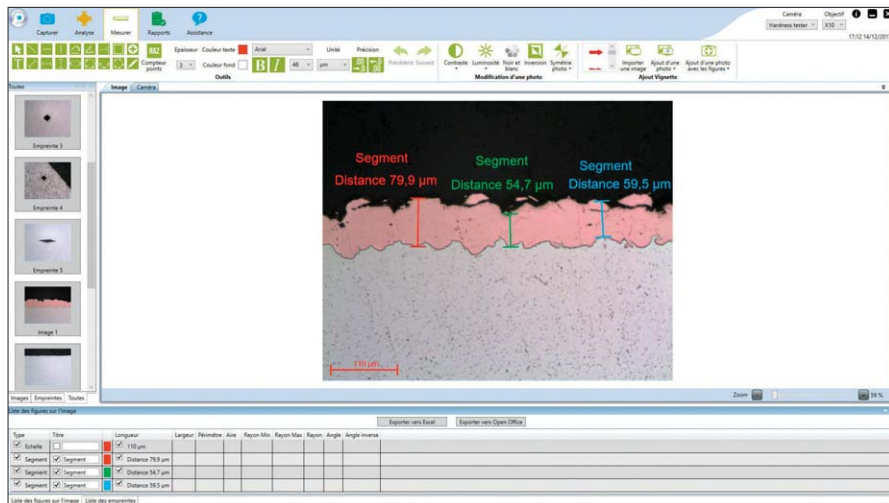


Automatic or manual measurement of Knoop indents.

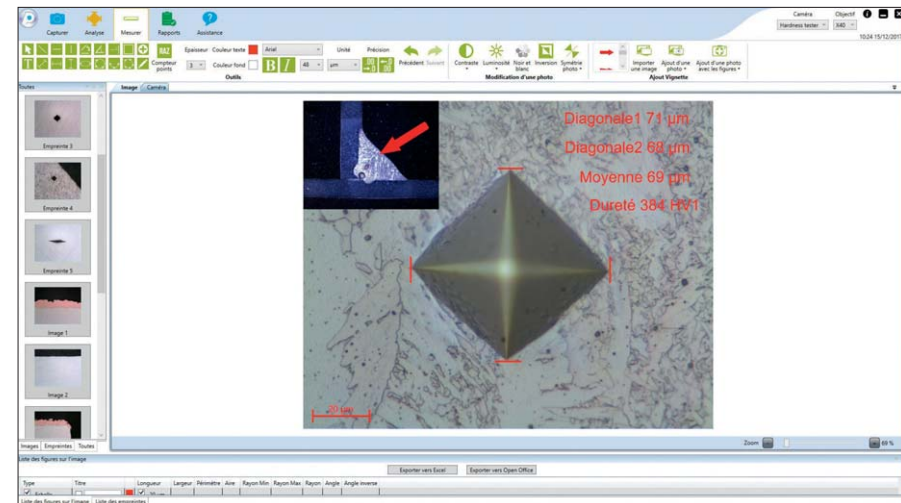


PRESI VIEW FULL

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.



PORTABLE HARDNESS

When classic hardness machine-measurement is not possible, there are devices allowing the measuring of hardness on rather massive metal parts with the Leeb method by ball rebound, or on thinner parts with a Rockwell probe or a UCI probe. For plastics or rubbers, the measurement is made with a Shore hardness tester.



DISTRIBUTION
IN FRANCE



HLD Rebound hardness tester



Rockwell hardness tester



Equotip hardness tester with range of probes



WORLDWIDE
DISTRIBUTION



UCI hardness tester mounted on a measuring frame



Shore hardness tester mounted on a measuring frame



Shore hardness test blocks

HARDNESS TEST BLOCKS

It is necessary to control the hardness test machines with standard blocks having a very precise hardness value. These gauge blocks can be squared so as to better distribute the points of hardness. We also offer indenters used to apply hardness for any machine models.



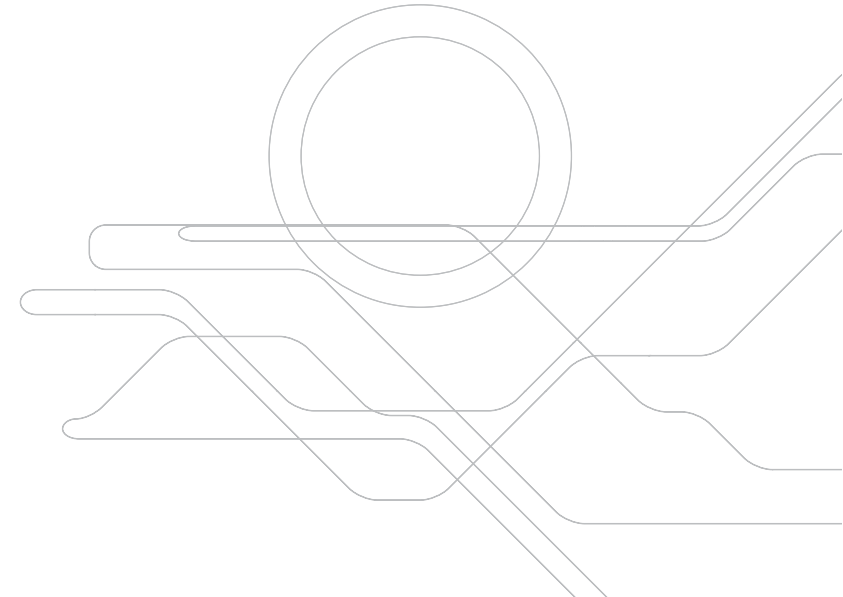
WORLDWIDE
DISTRIBUTION



Brinell Hardness Test Blocks, Vickers, Rockwell, Leeb



Diamond indenters and ball indenters



CHARACTERIZATION

Mechanical



UNIVERSAL
TEST MACHINES



RESILIENCE
TEST MACHINES



NON-DESTRUCTIVE
TESTS

UNIVERSAL TEST MACHINES

INSPEKT SOLO S/M/L

For testing of materials and components in small batches, the inspekt solo universal test machine series is available in three different test heights. The inspekt solo is a low weight economical tabletop device with high bending stiffness, suitable for tensile, compression and bending tests

on various materials.

In combination with the ergonomic design and the new brushless drive concept, a reliable and fast measurement with its electronics is guaranteed.

The simple use of its software makes it effective both in harsh production environments as well as in sterile laboratories.

Applications:

- Tests on plastics, elastomers, rubber.
- Lightweight materials and components, component testing.
- Springs, films and textile tests.



DISTRIBUTION
**FRANCE, SWITZERLAND,
MOROCCO, TUNISIA & ALGERIA**



Force sensor



Dockings



Pilot Remote Control

FEATURES

| | S | M | L |
|---|---|---|--------------------|
| Tensile/Compressive Force | | 2.5 kN | |
| Mechanical Design | | 1 backlash-free ball screw, brushless motor | |
| Frame Rigidity, including the Deformation of Cell and Adapter | | 2.7 kN/mm | |
| Transversal Travel Speed | | From 1.5µm/min to 1200mm/min | |
| Transversal Displacement Resolution | | < 0.025µm | |
| Force | Class 1 between 0.1 and 100% of the nominal force capacity (optional: class 0.5) depending on the use of the force sensor (according to EN ISO 7500-1, ASTM E4) | | |
| Force measurement resolution | 24 bit (±8,388,608 digits) | | |
| Control and measurement electronics | Integrated force and crosshead displacement channels. In option, 3 free slots for expansion cards for analog, digital, force and displacement signals, strain gauges and 0-10V input for an external measurement system | | |
| Power Supply | 230 VAC, 0.5 kVA, 50 Hz, 10-30°C, 20 - 80% humidity | | |
| Data Treatment | Ethernet (LAN) or USB, 50 Hz (standard), optional increased data acquisition rates | | |
| Weight | 48kg | 55kg | 60kg |
| Dimensions (DxWxH) | 631 x 631 x 705mm | 631 x 631 x 1305mm | 631 x 631 x 1605mm |
| Test Height | 475mm | 1075mm | 1375mm |
| Maximum Stroke | 365mm | 965mm | 1265mm |

ACCESSORIES

DOCKINGS



Traction



Compression



Bending



Shearing

EXTENSOMETERS



Axial clip-on



Bending measurement



Long stroke extensometer

TEMPERATURE



Thermal Chamber



High Temperature Furnaces

UNIVERSAL TEST MACHINES

INSPEKT DUO

For the testing of materials and components compliant with standards in the low load range, the universal test machine Inspekt duo is available in two different test space heights.

The inspekt duo is an economical, low-weight tabletop machine with high bending stiffness suitable for tensile, compression and bending tests on various materials.

In combination with the ergonomic design and the new concept of brushless drive, it guarantees a reliable and fast measurement with its electronics. The ease of use of its software makes it effective regardless of the environment, in difficult production process environments as well as in sterile laboratories.

Applications:

- Tests on plastics, elastomers, rubber.
- Lightweight materials and components, testing of components.
- Springs, films and textiles tests.



DISTRIBUTION
FRANCE, FRENCH-SPEAKING
SWITZERLAND, MOROCCO,
TUNISIA & ALGERIA



Force Sensor



Pilot Remote Control



Dockings

FEATURES

INSPEKT DUO 5 KN

INSPEKT DUO 10 KN

| | | |
|--|---|-----------------------------|
| Tensile/Compressive Force | 5 kN | 10 kN |
| Mechanical Design | 2 backlash-free ballscrews, brushless motor | |
| Frame Rigidity including the deformation of cell and adapter | 11 kN/mm | |
| Transversal Travel Speed | Of 1.5µm/min à 1200mm/min | From 0,8 µm/min à 600mm/min |
| Transversal Displacement Resolution | < 0.025µm | < 0.012µm |
| Force measurement | Class 1 between 0.1 and 100% of the nominal force capacity (optional class 0.5) depending on the use of the force sensor (according to EN ISO 7500-1, ASTM E4) | |
| Force measurement resolution | 24 bit (±8,388,608 digits) | |
| Control and measurement electronics | Integrated force and crosshead displacement channels Optional, 3 free slots for expansion cards for analog, digital, force, displacement signals, strain gauges and 0-10V input for external measurement system | |
| Power Supply | 230 VAC, 0,5 kVA, 50 Hz, 10-30 °C, 20 - 80 % humidity | |
| Data Processing | Ethernet (LAN) or USB, 50 Hz (standard), optional increased data acquisition rates | |
| Index | This series of test machines is not designed to connect external electrical devices e.g. temperature chambers) to the emergency stop circuit of the machine | |
| Weight | 83kg | 88kg |
| Dimensions (DxWxH) | 631x 631 x 1305mm | 631 x 631 x 1605mm |
| Test Height | 1025mm | 1325mm |
| Maximum Stroke | 970mm | 1270mm |

ACCESSORIES

DOCKINGS



Traction

Compression



Bending

Shearing

EXTENSOMETERS



Axial clip-on



Video extensometer



Automatic Extensometer

UNIVERSAL TEST MACHINES

INSPEKT BLUE

Material test machines of the Inspekt blue series are particularly suitable for standard quality assurance applications. Due to the high demand for cost-effective test machines, the inspekt blue has been equipped with a simple yet multi-functional load frame.

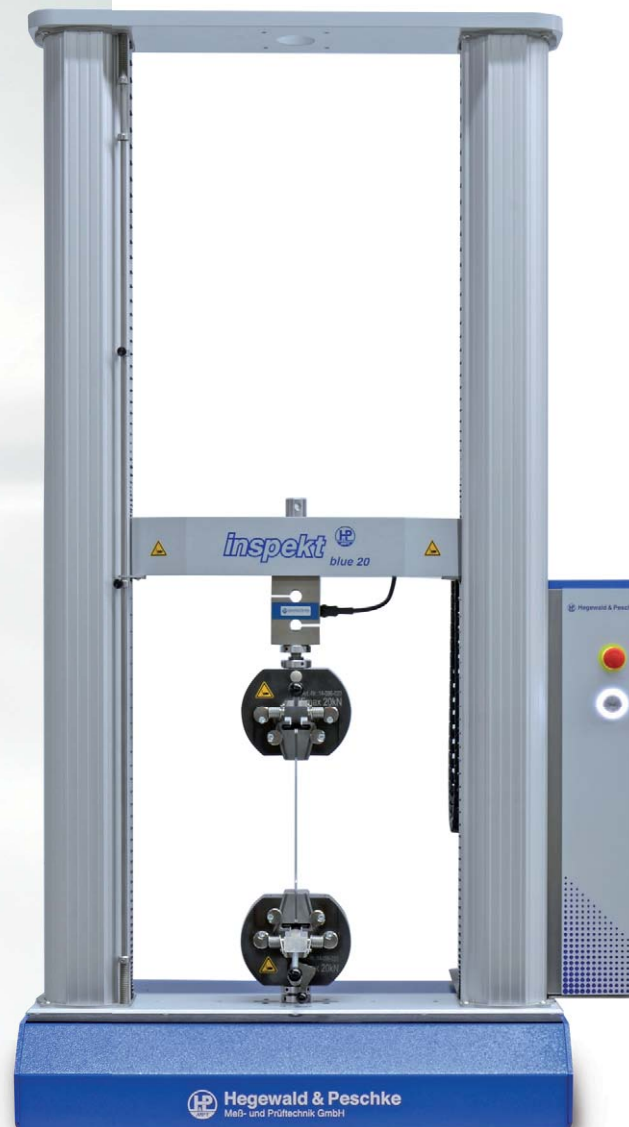
The inspekt blue is suitable for testing tension, compression, peeling and bending on various materials. In combination with the ergonomic design and the new brushless drive concept, a reliable and fast measurement is guaranteed with its electronics. The ease of use of its software makes it effective whatever its environment, in difficult production process environments as well as sterile laboratories.

Applications:

- Metal testing, Wire testing.
- Testing of plastics, lightweight materials and components.
- Component and creep tests, elastomer tensile tests.
- Spring, films, textile tests.



DISTRIBUTION
**FRANCE, SWITZERLAND,
MOROCCO, TUNISIA & ALGERIA**



Force sensor



Dockings

FEATURES

INSPEKT BLUE 20 kN

INSPEKT BLUE 30 kN

| | | |
|---|--|-----------------------------|
| Tensile/Compressive Force | 20 kN | 30 kN |
| Mechanical design | 2 backlash-free ballscrews, brushless motor | |
| Rigidity of the frame including the deformation of the cell and the adapter | 35 kN/mm | 40 kN/mm |
| Transversal Travel Speed | From 0,3 µm/min to 400 mm/min | From 0.2µm/min to 240mm/min |
| Transversal Displacement Resolution | < 0.005µm | < 0.003µm |
| Force measurement | Class 1 between 0.1 to 100% of the nominal force capacity (optional class 0.5) depending on the use of the force sensor according to EN ISO 7500-1, ASTM E4) | |
| Force measurement resolution | 24 bit (±8,388,608 digits) | |
| Control and measurement electronics | Integrated force and crosshead displacement channels, optional, 3 free slots for expansion cards for analog, digital, force, displacement, strain gauges and 0-10V input for external measurement system | |
| Power supply | 230 VAC, 0,5 kVA, 50 Hz, 10-30 °C, 20-80 % humidity | |
| Data processing | Ethernet (LAN) or USB, 50 Hz (standard), optional increased data acquisition rates | |
| Index | This series of test machines are not designed to connect external electrical devices (eg temperature chambers) to the emergency stop circuit of the machine. | |
| Weight | 140kg | |
| Dimensions (DxWxH) | 450 x 790 x 1420mm | |
| Test height | 1100mm | |
| Maximum Stroke | 1005mm | |

ACCESSORIES

DOCKINGS



Traction



Compression

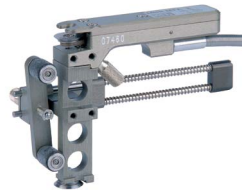


Bending



Shearing

EXTENSOMETERS



Clip on



Video extensometer



Long Stroke Extensometer

UNIVERSAL TEST MACHINES

INSPEKT TABLE

Modern and flexible load frame design for various applications

- Load frame extremely variable in height and width.
- > Optimal adaptation to different sample and component sizes.
- Possibility of connecting peripheral devices (e.g. furnaces, thermal chambers), measuring channels and additional controls (e.g. extensometers, measurement probes, optical sensors). The innovative construction guarantees the highest measurement accuracy.
- Use of larger diameter backlash-free precision ball screws (preloaded in aluminum support brackets) and a special nut system.
 - > Precise load transmission
 - > High lateral force stability
 - > Increased axial stiffness.
- Brushless AC drive for static material testing as well as for alternating and continuous loads.



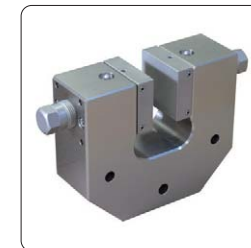
DISTRIBUTION
**FRANCE, SWITZERLAND,
MOROCCO, TUNISIA & ALGERIA**



Force sensor



Anchors for screws



Dockings

FEATURES

| | 5 kN | 10 kN | 20 kN | 50 kN | 100 kN | 250 kN |
|--|---|----------------------------|---------------------------|--|-----------------------------|-----------------------------|
| Tensile/Compressive Force | 5 kN | 10 kN | 20 kN | 50 kN | 100 kN | 250 kN |
| Mechanical Design | 2 backlash-free ballscrews, brushless motor | | | | | |
| Rigidity of the frame including deformation cell and adapter | 15 kN/mm | 18 kN/mm | 40 kN/mm | 68 kN/mm | 120 kN/mm | 200 kN/mm |
| Transversal Travel Speed | From 1µm/min at 2000mm/min | From 1µm/min at 1200mm/min | From 1µm/min at 600mm/min | From 1µm/min at 800mm/min | From 0.5µm/min at 400mm/min | From 0.5µm/min at 175mm/min |
| Transversal Displacement Resolution | < 0.001µm | < 0.005µm | < 0.0025µm | < 0.005µm | < 0.0025µm | < 0.0002µm |
| Force measurement | Class 1 between 0.1 and 100% of the nominal force capacity (optional class 0.5) depending on the use of the force sensor (according to EN ISO 7500-1, ASTM E4) (according to EN ISO 7500-1, ASTM E4) | | | | | |
| Force measurement resolution | 24 bit (±8,388,608 digits) | | | | | |
| Control and measurement electronics | Integrated load and move channel, additional 3 free slots* for expansion cards for analog/ digital Inputs / outputs for force, displacement, strain gauges, as well as +/-10 V input for external measuring devices, protective door connection *possibly expandable to 7 slots | | | | | |
| Power supply | 230 VAC, 0,5 kVA, 50 Hz, 10-30 °C, 20-80 % humidity | | | 230 VAC, 1,5 kVA, 50-60Hz, 5-40 °C, 20-80 % humidity | | |
| Data Treatment | Ethernet (LAN) or USB, 50 Hz (standard), optional increased data acquisition rates | | | | | |
| Weight | 100kg | 130kg | 130kg | 320kg | 400kg | 570kg |
| Dimensions (DxWxH) | 550 x 685 x 1420mm | | | 695 x 880 x 1585 mm | | 695 x 880 x 2250mm |
| Test Height | 1080mm | 1080mm | 1080mm | 1170mm | 1145mm | 1100mm |
| Maximum Stroke | 1025mm | 1005mm | 1005mm | 1095mm | 1065mm | 1030mm |

The provided data is for information purposes only and corresponds to "standard" machines and dimensions.
The Inspekt Table series load frames are available with different heights and widths > optimal adaptation to different sample and component sizes.
Also available for different transversal speeds, please contact us.

ACCESSORIES

DOCKINGS



Traction

Compression



Flexion

Shearing

EXTENSOMETERS



Axial clip-on



Video extensometer



Automatic Extensometer

TEMPERATURE



Thermal Chamber



High Temperature Furnaces

UNIVERSAL TEST MACHINES



INSPEKT

STAND-ALONE

4 guidance column frame design
for various applications

- Load frame with extreme versatility in height and width.
- > Optimal adaptation to various sample and component sizes.
- Possibility of connecting peripheral devices (e.g. furnaces, thermal chambers), additional measurement and control channels (e.g. extensometers, measurement probes, optical sensors).

The innovative construction guarantees the highest measurement accuracy

- Use of larger diameter backlash-free precision ball screws (preloaded in profiled aluminum brackets) and a special nut system.
- > Precise load transmission.
- > High lateral force stability.
- > Increased axial rigidity.



DISTRIBUTION
**FRANCE, SWITZERLAND,
MOROCCO, TUNISIA & ALGERIA**



Force sensor



Hydraulic dockings



Extensometer

FEATURES

| | 100 kN | 250 kN | 400 kN | 600 kN | 1200 kN | 1500 kN |
|--|---|------------------------------|--|---------------------------|---|-----------------------------|
| Tensile/Compressive Force | 100 kN | 250 kN | 400 kN | 600 kN | 1200 kN | 1500 kN |
| Mechanical Design | 2 backlash-free ball screw, 4 guide columns, brushless motor | | | | | |
| Rigidity of the frame including deformation cell and adapter | 170 kN/mm | 260 kN/mm | 390 kN/mm | 680 kN/mm | 1350 kN/mm | 1685 kN/mm |
| Transversal Travel Speed | From 0.1µm/min at 1000mm/min | From 0.06µm/min at 600mm/min | From 0.1µm/min at 500mm/min | From 1µm/min at 800mm/min | From 0.1µm/min at 250mm/min | From 0.1µm/min at 250mm/min |
| Transversal Displacement Resolution | < 0.002µm | < 0.0012µm | < 0.05µm | < 0.005µm | < 0.05µm | < 0.05µm |
| Force measurement | Class 1 between 0.2 and 100% of the nominal force capacity (optional class 0.5) depending on the use of the force sensor (according to EN ISO 7500-1, ASTM E4) (according to EN ISO 7500-1, ASTM E4) | | | | | |
| Force Measurement Resolution | 24 bit (±8,388,608 digits) | | | | | |
| Control and Measurement Electronics | Integrated load and move channel, 7 free expansion card slots for analog/digital Inputs/outputs for force, displacement, strain gauges, as well as +/-10 V input for external measuring devices, protective door connection | | | | | |
| Power Supply | 3P/PE/400V/50Hz/ (TN-Net) 4.0kW, 4 m cable with 16CEE socket for machine controller, 5-40°C, 20-80% humidity | | 3P/PE/400V/50Hz/ (TN-Net) 7.0kW, 4 m cable with 16CEE socket for machine controller, 5-40°C, 20-80% humidity | | 3NPE/400V/50Hz/ (TN-net) 16kVA, 35 A preliminary fuse, permanent electrical wiring, 5-40°C, 20-80% humidity | |
| Data Treatment | Ethernet (LAN) or USB, 50 Hz (standard), optional increased data acquisition rates | | | | | |
| Weight | 1100kg | | 2300kg | | 6500kg | 8500kg |
| Dimensions (DxWxH) | 700 x 1 080 x 2150mm | | 850 x 1350 x 2450mm | | 1 710 x 1930 x 3160mm | |
| Test Height | 1210mm | | 1350mm | | 1710mm | 1840mm |
| Maximum Stroke | 1090mm | | 1110mm | | 1460mm | 1410mm |

The provided data is for information only and corresponds to "standard" machines and dimensions.
The Inspekt Stand-Alone series load frames are available with different heights and widths > optimal adaptation to different sample and component sizes.
Also available with different transversal speeds, please contact us.

ACCESSORIES

DOCKINGS



Traction



Compression



Bending



Shearing

EXTENSOMETERS



Axial clip-on



Video extensometer



Long stroke extensometer

TEMPERATURE



Thermal Chamber



High Temperature Furnaces

RESILIENCE TEST MACHINES



PENDULUM IMPACT TESTER

STEEL

The HyTT pendulum impact tester has been designed to test metals according to the Charpy or Izod impact test standard. It can run tests automatically and is operated via a simple and intuitive touch screen. Its safety enclosure includes a polycarbonate door, which meets the requirements of the CE marking and the ISO 13849 standard.

Characteristics:

- Available capacities: 300, 450 and 750 Joules.
- Fully automatic.
- Ability to run rapid test cycles.
- The electromagnetic brake allows the safe launching of the hammer.
- Motorized hammer elevation with automatic return after each test, for increased productivity and safety in use.
- Automatic test start when the protective door is closed.
- Simple touch screen operation.
- Charpy impact hammers according to ASTM and ISO.
- Self-centering specimen support device (according to ISO 148-1 and ASTM E23).
- Foundation base according to EN ISO148-2 and ASTM E23.
- Data acquisition software to connect the machine to a PC.



Impactor



Brackets



Display



DISTRIBUTION
**FRANCE, SWITZERLAND,
MOROCCO, TUNISIA & ALGERIA**

FEATURES

| | HYTT 300J | HYTT 450J | HYTT 750J |
|----------------------|----------------------|------------------|------------------|
| Impact Energy | 300J | 450J | 750J |
| Pendulum Length | 800mm | | |
| Clearance Angle | 150° | | |
| Maximum Impact Speed | 5.42m/s | | |
| Resolution | 0.01J | | |
| Power Supply | 220V - 750W | | |
| Weight | 3000kg | | 3500kg |
| Dimensions | 1150 x 2000 x 2570mm | | |

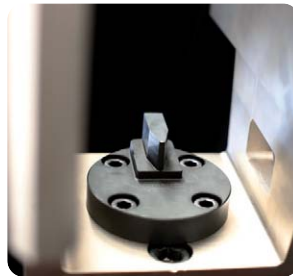
ACCESSORIES



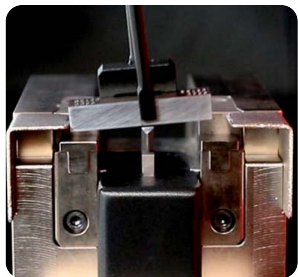
Charpy test tube holder



Centering Pliers



Charpy Impactor



Centering Device



Broaching machine



Notch Broach

RESILIENCE TEST MACHINES

PENDULUM IMPACT TESTER

PLASTIC

The table pendulum hammer was designed to test plastics and composites according to the Charpy or Izod impact test standards. It is available in capacities from 2 to 25 J with complete change of arm and hammer and a 50J model. It is controlled via a simple and intuitive touch screen. Its octagonal protective frame includes a polycarbonate sliding door with an electric lock, which meets the requirements of the CE marking and ISO 13802.

Characteristics:

- Capacities available for the 25J hammer: ISO 2, 4, 5, 7.5, 15, 25 / ASTM 2.7, 5.4, 10.8, 21.6 / IZOD 2.75, 5.5, 11, 22
- Automatic brake.
- Automatic test start when the polycarbonate protection door is closed.
- Simple operation via touch screen.
- Charpy impact hammers as per ASTM or ISO.
- Languages: English, Spanish, French and German.



DISTRIBUTION
**FRANCE, SWITZERLAND,
MOROCCO, TUNISIA & ALGERIA**



25 J Pendulum Hammer



50 J Pendulum Hammer



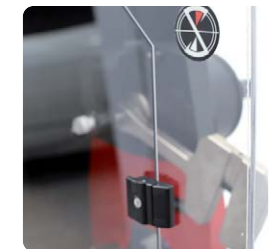
Impactor



Display



Support



Protection

FEATURES

| | MP 25J | MP 50J |
|--|---------------------|---------------------|
| Impact Energy (*) | 2 of 25J | 2 of 50J |
| Charpy pendulum length below 5J | 230mm | 340mm |
| Charpy pendulum length above 5J And ASTM and IZOD test | 340mm | 340mm |
| Charpy Test Impact Velocity below 5J | 2.9m/s | 3.46m/s |
| Charpy Test Impact Velocity from 5J and ASTM and IZOD Test | 3.46m/s | 3.46m/s |
| Resolution | 0.01 J | 0,01J |
| Power Supply | 220V | 220V |
| Weight | 200kg | 500kg |
| Dimensions (D x W x H) | 600 x 1000 x 1000mm | 800 x 1250 x 1040mm |

(*) Pendulum capacity available
According to ISO standard: 2 / 4/5 / 7.5/15/25 joules
According to ASTM: 2.7/5.4/10.8/21.6 joules
According to IZOD: 2.75/5.5/11/22

ACCESSORIES



Test Piece Holder



Broaching Machine

NON-DESTRUCTIVE TESTING

STRAIN GAUGE FORCE SENSORS

Force sensors are used to measure a pressure force and/or the traction exerted on the sensor. Electronic models are most commonly designed with strain gauges stuck in the sensor, they measure the sensor deformation under the effect of the exerted force and transform it into an electrical signal.



"S" sensors



Round Sensor



Cylindrical Sensor

MULTI-COMPONENT FORCE SENSORS

Multi-component force sensors are used to measure a pressure and/or traction force exerted on the sensor, namely on the 3 axes X, Y and Z (3-component sensors). Some 6-component models also measure the torque exerted on the sensor on the 3 axes X, Y and Z.



3 component sensor



6-component sensor

DYNAMOMETERS

Dynamometers allow the measuring of a pressure and/or traction force, there are hydraulic, mechanical (dynamometric rings) or electronic models.



Hydraulic Dynamometer



Traction Dynamometer



Dynamometer Rings
(with analogue or digital display)



Electronic Dynamometers

SMALL HAND AND MOTORIZED MACHINES

(for use with an electronic dynamometer)

These small machines allow a simple measuring of forces on parts or components with an application of the force exerted either manually by hand wheel or lever, or in a motorized way.



Manual machine with force and displacement measurement



Manual bi-column machine with force measurement



Motorized machine with force and displacement measurement

NON-DESTRUCTIVE TESTING



TORQUE METERS

A torque meter allows the control of dynamometric tools or the control of tightening and loosening of vial or bottle caps. Static or dynamic models are mounted on test benches of rotating mechanisms or systems such as motors.



Torque Meters for Torque Tools



Torque Meters for Cap Tightening Control



Static Torque Meters



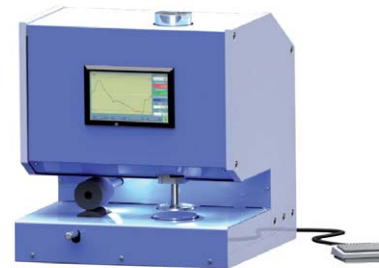
Dynamic Torque Meters

THICKNESS MEASURING DEVICES

It is possible to measure the thickness of a material by means of a micrometer, a thickness controller or even an ultrasonic thickness gauge for the less accessible areas. The coating thickness measuring device also called thickness gauge or permascope measures the thickness of the coating deposited on a metal part.



Coating Thickness Controllers



Thickness Controllers for Paper, Cardboard, Plastic and Aluminum Films



Precision Micrometers



Ultrasonic Controllers



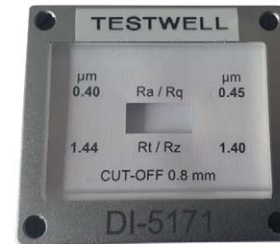
ROUGHNESS METERS

The roughness measurement allows characterisation of irregularities present on a material in order to evaluate the condition of its surface. There are many roughness measurement parameters due to different methods and standards such as Ra and Rz.

We also offer you a range of roughness standards to control these devices.



Roughness Measuring Device



Glass Roughness Standards



Metal Roughness Standards

MEASUREMENT FILMS

“Prescale” pressure films allow a quick and precise determination of the pressure quick to determine the pressure exerted on a surface. Under a certain pressure, the film turns red; the density of the color is proportional to the supported pressure.

After the test, the film shows a image of the pressure distribution on the surface. “Thermoscale” heat-sensitive films allow a determination of the temperature applied to a surface during a manufacturing process, just like the “UV scale” films measure the UV radiation emitted on a surface during a process.



UV radiation Measurement films



Temperature Measurement Films



Pressure Measurement Films

NON-DESTRUCTIVE TESTING

MANUAL SPRING TEST MACHINES

Spring test machines are designed for quality control tests on springs, in particular by determining their compression force and their stiffness constant.

They can also check tension springs, torsion springs are controlled on a torsionmeter.



DISTRIBUTION
EUROPE & AFRICA



Two-Column Machines

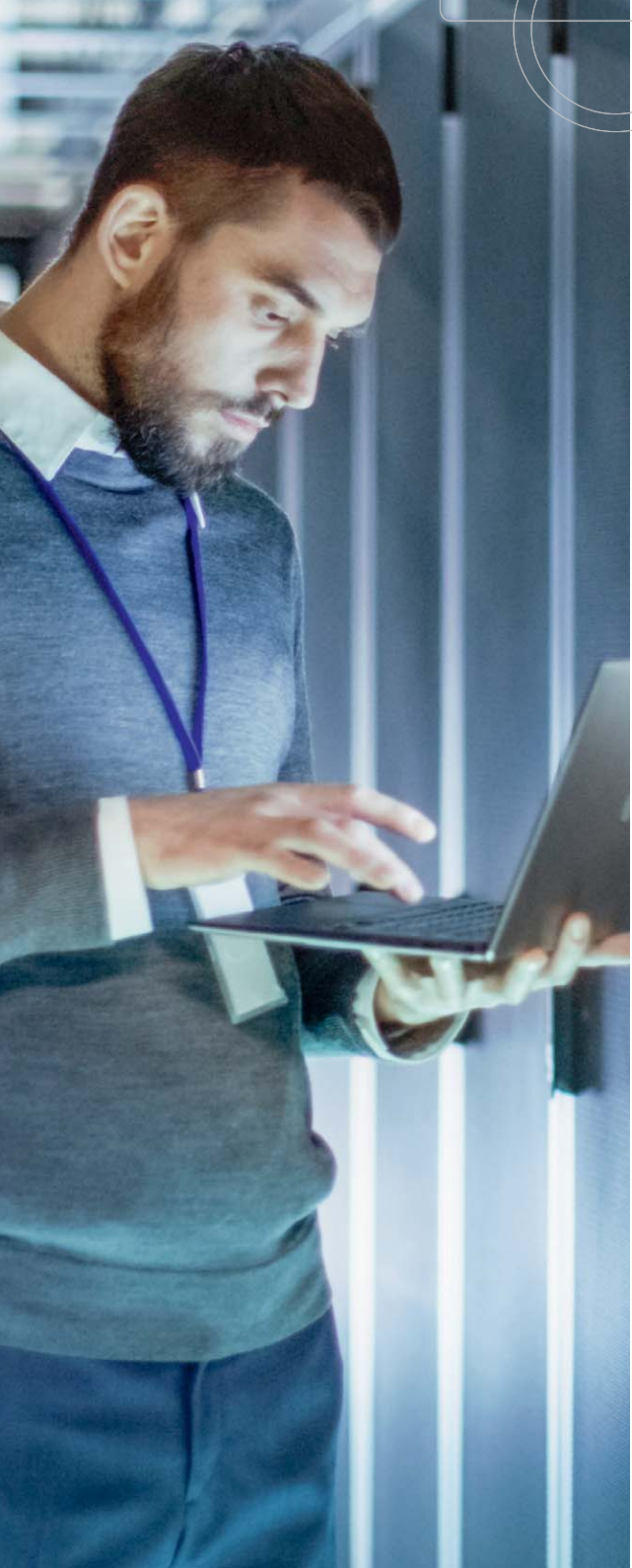


Single Column Machines

SERVICES

Control & Maintenance

PRESI and TESTWELL CONTROL use their experience to ensure the proper functioning of your machines. Follow-up, real support, compliance, modernization solutions in order to meet the new standards: we offer customized services.



CONTROL



PRESI carries out control activities under the TESTWELL CONTROL brand.

Control makes it possible to define the compliance or classification of equipment with respect to a set of criteria, defined in normative references.

It may be necessary as part of the periodic monitoring of your machines or after repairs or modernization.

By this statement **you can meet the normative requirements as well as the requirements of your clients:**

- in terms of machine compliance for the carrying out of your tests,
- in terms of connection.

For its control activity of the mechanical testing machines, PRESI is accredited by COFRAC.

Controls are carried out in accordance with the following normative references (the list is non-exhaustive). For controls carried out under accreditation, refer to the COFRAC website (www.cofrac.fr)

ROCKWELL - BRINELL VICKERS - KNOOP LEEB HARDNESS MACHINE ACCORDING TO THE DIRECT AND INDIRECT METHOD

- NF EN ISO 6506-2
- NF EN ISO 6507-2
- NF EN ISO 6508-2
- NF EN ISO 4545-2
- ASTM E10
- ASTM E18
- ASTM E384
- ASTM E92
- ASTM A956

XY TABLE ON HARDNESS MACHINE

- Internal procedure PT EMV 15

TRACTION AND/OR COMPRESSION MACHINE

Applied force:

- NF EN ISO 7500-1
- NF EN 12390-4 for building materials)
- ASTM E4

Crosshead Displacement:

- NF EN ISO 9513
- ASTM E2309/E2309M

Displacement Speed:

- Internal procedure PT EMV04

Alignment:

- ASTM E 1012

EXTENSOMETER

- NF EN ISO 9513
- NF EN ISO 527-1
- ASTM E83
- ASTM E399

PENDULUM IMPACT TESTING MACHINE

- NF EN ISO 148-2





The services are performed at the customer premises or in the workshop (only for portable equipment), by experienced technicians who can provide you with technical support.



The measurement readings are taken using standards or reference materials calibrated by accredited bodies, which guarantee traceability according to national norms and standards.



Each control involves the drafting of a control report outlining:

- normative reference and applied criteria
- standards and their connections
- measurement readings
- the approval relating to the analysis of the results (compliance or classification).



A preventive maintenance operation of your machines is always carried out in addition to the control.

If necessary and feasible, a corrective maintenance operation can be carried out.



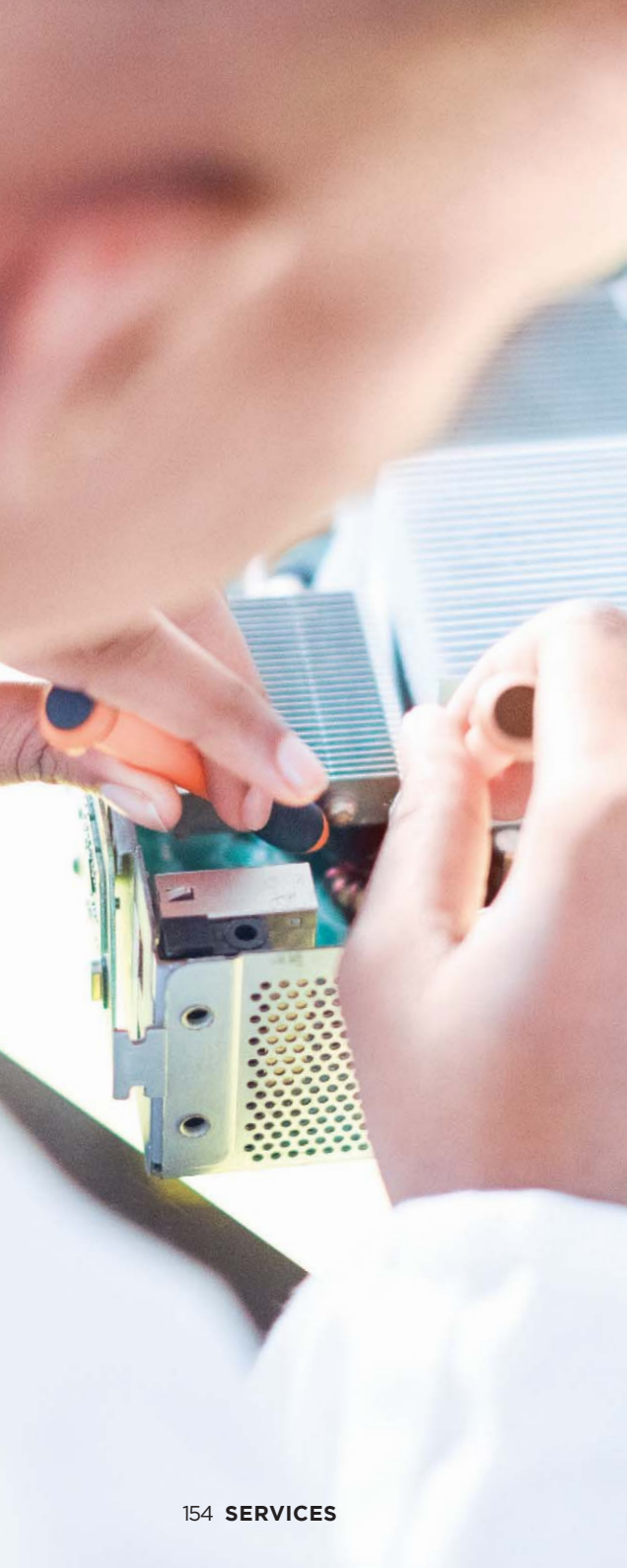
A training session in the use of the machines can also be carried out by the technicians.

- Different points are then approached:
- help with the setting up of tests
 - assistance in drafting the test procedures
 - explanation of the testing standards
 - tests on customer parts

Our intervention areas

OUR TECHNICIANS OPERATE IN EUROPE IN THE FOLLOWING COUNTRIES:

FRANCE, BELGIUM, LUXEMBOURG, GERMANY, ROMANIA, TUNISIA, MOROCCO, ALGERIA



MAINTENANCE AND TROUBLESHOOTING

Curative maintenance

Curative maintenance can be carried out on the equipment marketed by PRESI under the TESTWELL CONTROL brand.

A first telephone contact with an experienced technician allows information to be collected in order to define the issue noted by the client. **A remote pre-diagnosis is developed** in order to anticipate the need for spare parts, an on-site intervention is then carried out, either to finalize the expertise or to carry out the repair.

The repair can also be done by returning the machine to our workshops.

Depending on the nature of the repair, a machine control may be necessary in order to comply with the control standards and/or to ensure the reliability of test results.

The maintenance of your equipment is vital in order to ensure its operation. This could mean preventive maintenance or corrective maintenance. The purposes are different. **The purpose of preventive maintenance is to reduce the risk of breakdown or deviations, and thus to increase the longevity of your equipment over time and provide for a better reliability of the results.**

Corrective maintenance

Corrective maintenance is necessary when a problem is observed on a piece of equipment: **mechanical, electrical, electronic problems, out of tolerance results.** It can involve the replacement of parts and/or an adjustment.

Preventive maintenance is generally complementary to control services and can be performed on **all machine brands.**

The following operations can be carried out (non-exhaustive list, to be adapted according to the machine type and brand):

- replacement of wear parts
- cleaning of optics, weights, comparator, changeover switches
- emptying and changing filters on hydraulic machines
- control of the proper functioning of security systems.



MAINTENANCE THAT ADAPTS TO YOUR NEEDS UNDER DIFFERENT FORMS:



VIDEO-ASSISTANCE



TELEPHONE SUPPORT



REMOTE TROUBLESHOOTING



PROCEDURE SENDING



TRAVELLING TECHNICIANS



MAINTENANCE CONTRACTS



Machining of mechanical parts of PRESI machines (and other brands) is entrusted to MOP, a sister company of PRESI.



RETROFITTING OF MATERIAL CHARACTERIZATION MACHINES

Retrofitting can be a solution for hardness or tensile test machines which no longer meet the current normative and technological requirements.

Responding to increased quality market requirements remains a key challenge for businesses. Updates are obtained according to the latest security standards, which also ensures the tracking of test data.

Retrofitting allows to gain in precision and reproducibility, but also to progress with the latest advanced technologies.

All the components used during this operation originate from our development and our standard machines.

Each machine is unique. That's why we are listening to our clients for more than 50 years so as to support them in the process of improving their test equipment, without discrimination of brand or technology.



ZWICK 1485 250KN



UTS 200KN



WOLPERT TZZ250



ZWICK Z010TN2S 10KN



Control Electronics



Retrofitting of hardness test machine

CUSTOMIZED FOR EVERY APPLICATION



When a machine no longer meets the various normative standards of today and tomorrow, solutions do exist. PRESI offers its clients a complete expertise of their test system, with control of dockings or up-to-date measuring means in order to check their compliance with the market requirements. PRESI also offers a whole range of compatible accessories for the various existing machines.

High temperature furnace



Thermal chamber



Long Travel Extensometer



Docks



Hydraulic docks



Corners docks

Hardness Determination



Video

SERVICES

Training

Support for our customers is a key point of our business approach. In situ or at our premises, face-to-face or remotely, we have developed a set of customized services. Trainings for better understanding and practice. Trainings for an increased efficiency. Practical tools to control technical processes.

This is the mission of **PRESIACADEMY**.



PRESI**ACADEMY**



METALLO TRAINING

For better
learning,
understanding,
practice.

PRESI offers customized training programs adapted for all public, from newbie to experienced metallographers.

Our training sessions are led by metallography experts in our **LAB** fitted with the latest equipment. Choose the content of your training according to your expectations and your problems:

General (over 2 or 3 days)

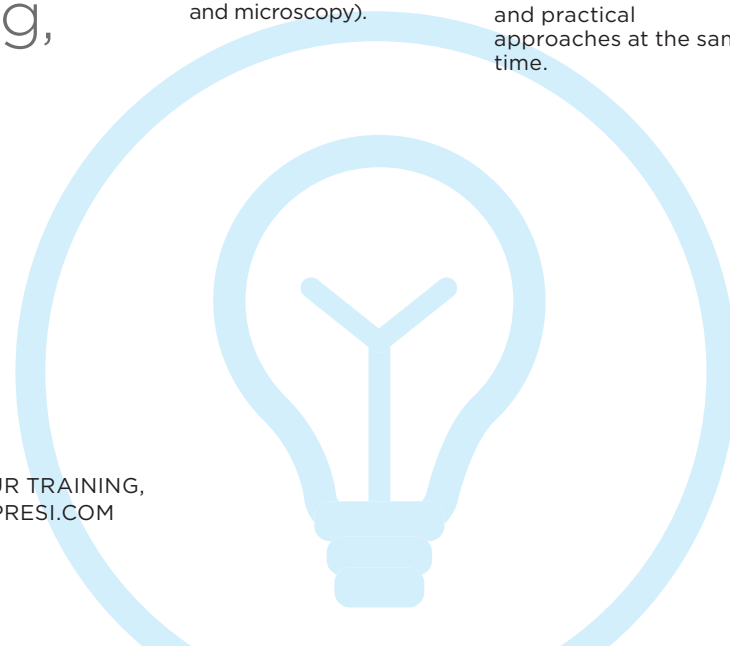
Review of fundamentals of metallographic preparation techniques (cutting, mounting, polishing, hardness and microscopy).

Specific (1 day)

Response to a specific problem or an in-depth study of a step of preparation in particular. Our training courses combine the theoretical and practical approaches at the same time.



FOR MORE INFORMATION ON OUR TRAINING,
CONTACT US BY EMAIL: PRESI@PRESI.COM





Example of a training plan

TECHNIQUES AND METHODS IN METALLOGRAPHY

Based on the report drafted by the PRESI Laboratory, trainees will be invited to reproduce the gestures and techniques of metallographic preparation of their samples

Duration: 3 days (21h)

1. Cutting (6h)

Theory

- The different types of cut-off wheels vs the different materials
- The cutting parameters (rotation speed / table speed)
- Defects and errors due to cutting

Practice

- Cutting of parts
-

2. Mounting (5h)

Theory

- Presentation of the different resins
- Resin / materials combination
- Mounting defects and ways to remedy them

Practice

- Mount the previously taken samples
-

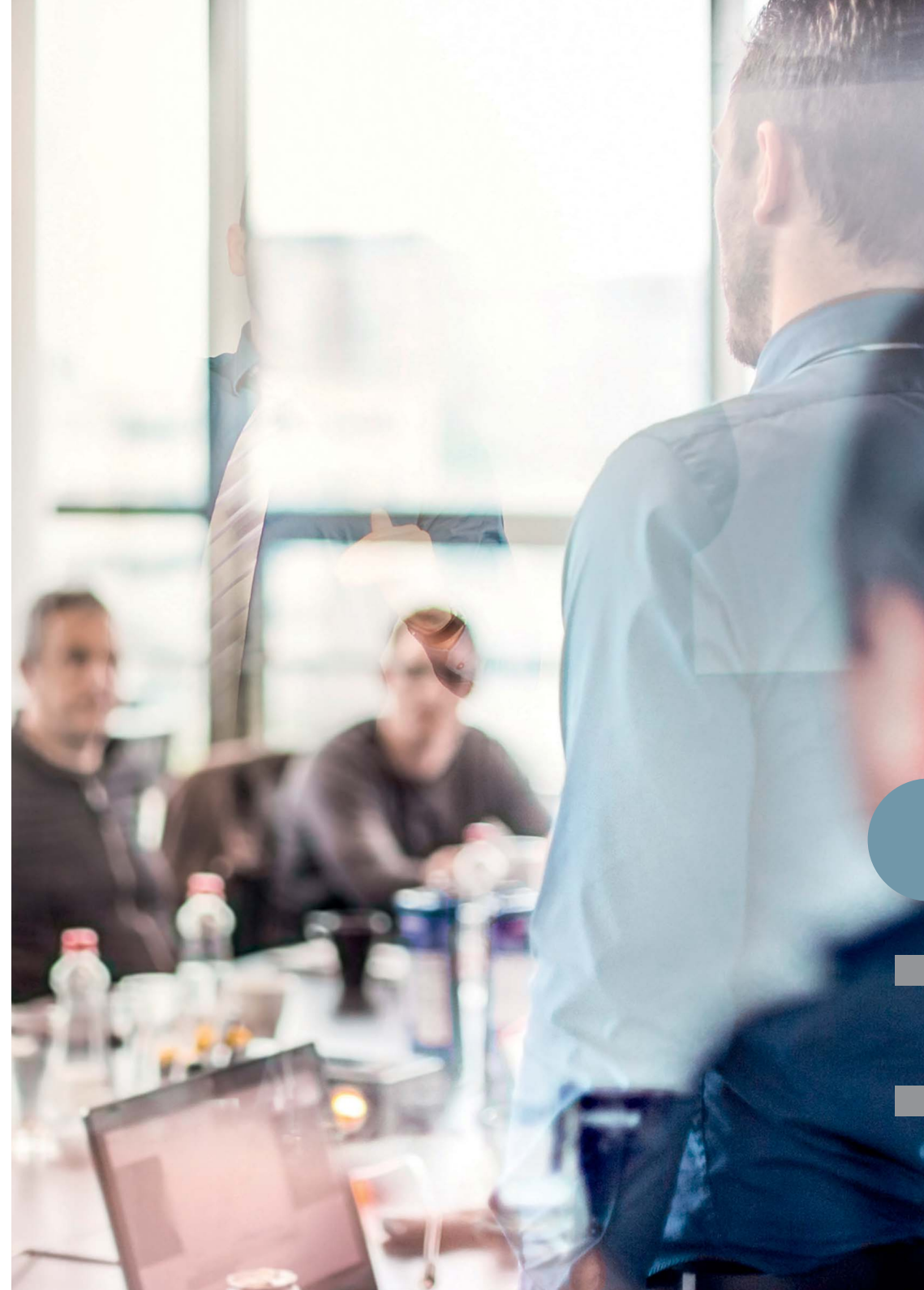
3. Polishing (10h)

Theory

- The machines used
- Advantages and disadvantages of manual polishing, central or individual pressure
- Presentation of typical polishing range
- Presentation of the ranges established on the basis of the samples provided
- Presentation of foreseeable faults in the event of a range error

Practice

- Polish of samples from the presented ranges
- Analyze of results and identification of any defects of the polished samples



PRESI ACADEMY



PRESI LAB

Pillar of the
PRESI
expertise.

A 100% PRESI creation, the **LAB** is a prime importance cell. It welcomes new company collaborators for training as well as our customers. This is also the place where the R&D department tests its machines and products. Innovations and optimizations necessarily pass through the **LAB**.

The LAB is in direct contact with customers in order to support them in optimizing their processes. **It is an essential means of initiating and validating the developments of our R&D department.**

PRESI and its subsidiaries have their own **LAB** in order to stay as close as possible to their customers and provide them with 100% personalized advice.

An Expert Centre

Customized support and technical responses for specific projects, design and optimization of preparation processes... The **LAB** deepens the areas initiated by our R&D Dept.

LAB'NOTES

In addition to training, PRESI also provides **LAB'Notes** that can be downloaded from its website.

Created by the lab, these **LAB'Notes** present in a clear and detailed way all the processes related to a large number of applications. For example, quality control (steel, cast iron, copper, titanium, etc.), heat treatment or even biomaterials.



TO BE DOWNLOADED ON PRESI.COM EXPERTISE SECTION > APPLICATIONS



SERVICES

R&D

Machines, consumables, as methods evolve.
The PRESI R&D department plays therefore
a major role.

PRESI R&D

CONSTANTLY
OPTIMISE
IMAGINE
INNOVATE

New issues, special cases, evolution of machines and consumables, arising of new needs... PRESI and TESTWELL CONTROL are constantly on the lookout.

Faced with these challenges, our R&D Department is rethinking our machines **on average every 6 years.**

Study and development of new solutions for metallographic analyses, design of prototypes, technology watch, development of specific tailor-made applications...

The goal is simple: to optimize and improve our product ranges and our services in order to meet all the needs of our customers.

R&D, a central hub at PRESI

Since innovation is at the heart of our company, we are always trying to offer our customers the best solutions, but above all, different solutions.

We are able to offer technical solutions for our machines and consumables.

We are also able to offer customised solutions for our machines, **thanks to our technical R&D department which has tripled in size in 4 years.**

It is also thanks to the support of the R&D department that 8 new MECATOME cutting machines were launched this year. More ergonomic and easier to use, they offer real working comfort. A question of expertise...

CUSTOMIZED

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

Our customers trust us and come to us for more and more precise and specific requests.

This allows us to turn our initial offer into 100% adapted products: biomedical, aeronautics, metallurgy.

A tested and approved method to offer you a 100% tailor-made solution.

Whatever your field of application, your problem, your budget or your deadline, PRESI will support you in your projects.

CUTTING VICES AND OTHER SPECIFIC ACCESSORIES



Ball vice
T300, T330, ST310



Pneumatic vice
for cutting core drills
on T260 double
blade



Specific vice for
grooving of indexed
tablet at 90°



Rotary table
placed on the
grooved T-table
(T300, ST310,
T330, EVO 400)



Specific bit
for vice

POLISHING SPECIFIC PLATES



Special plate
central pressure
for tubing



Special plate
central pressure
with double clamping



Special plate
central pressure
for tubing
thin sections



Special plate
central pressure
for rectangular
samples



Special plate
individual pressure
for thin sections

CUSTOMIZED DEVELOPMENT OF WORKBENCHES

A fully equipped custom created materialography laboratory (monitoring of the project in 3D with projections in realistic format).



PRESI R&D

NUCLEAR

PRESI has real expertise in adapting to hostile environments. Our experience is based on strengths:

- absolute control of the development and manufacturing processes
- a cutting-edge technique
- easy to use tools

To meet very specific needs, PRESI adapts its cutting, mounting and polishing machines with a view to high quality and high technology.

Exemplary reliability for glove boxes and hot cells.

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

They offer optimal resistance to aggressive environments and adapt safely to them. In some cases, they can be used remotely thanks to the manipulator arms and remote controls.



SPECIFIC PROJECT, UNIQUE SOLUTION.

With or without specifications, PRESI accompanies you to guide your project until its completion, from the study to the training of on-site personnel to use these unique machines.



**NUCLEARIZED
CUTTING MACHINE**



**NUCLEARIZED
MOUNTING MACHINE**



**NUCLEARIZED
POLISHING MACHINE**



EQUIPMENT

Small laboratory equipment

To satisfy all the requirements of our customers and their laboratories, PRESI offers a range of equipment.

Everything for the laboratory and for the person: protection, cleaning, observation, organisation, etc.

SMALL LABORATORY EQUIPMENT

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 |

POSTERS

| REF. | DESIGNATION |
|-------|-----------------------------|
| 78031 | Poster diagram steel/carbon |
| 78032 | Poster polishing processes |

OBSERVING

Non destructive testing.

| REF. | DESIGNATION |
|-------|---|
| 55035 | Precision rule l 400mm |
| 57236 | Precision rule l 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 |

WIPING - CLEANING - DRYING PROTECTING

| REF. | DESIGNATION |
|----------------------------|---|
| Oil-based cleaner | |
| 17997 | 5L drum technical acetone |
| 17281 | 5L drum denatured ethanol |
| 17282 | 10L drum denatured ethanol |
| Water-based cleaner | |
| 19001 | 1l cleaning liquid "AllClean" |
| 19002 | 5L drum "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) |

WEIGHING

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

PROTECTING

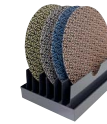
| REF. | DESIGNATION |
|-------|--|
| 19071 | Safety glasses |
| 78001 | Lab coat (blue) PRESI |
| 78002 | Lab coat (white) PRESI |
| 19050 | Box of 100 Latex gloves (Size S) |
| 19051 | Box of 100 Latex gloves (Size M) |
| 19052 | Box of 100 Latex gloves (Size L) |
| 19053 | Box of 200 Nitrile gloves (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) |

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'I, 200g |
| 71505 | Press'I-Levelling press for microscopy |



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



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



Wall-mounted sample dryer
Ref. 57159



Press'I-Levelling press for microscopy
Ref. 71505



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



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



Base-mounted sample dryer
Ref. 57160



Waste recovery tray
Ref. 57170



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



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



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

SMALL LABORATORY EQUIPMENT

ELECTER EVOLUTION

REF. 58100

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

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

↑ 170mm

← 330mm

↘ 260mm

📦 4,9kg



Strengthened transport case

ABRASIVE PAPERS ADHESIVE Ø 32MM

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

POLISHING CLOTHS Ø 32MM

| REF. | 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 |
|-------|-------|
| 14016 | P 80 |
| 14015 | P 120 |
| 14017 | P 180 |

ULTRASONIC CLEANER

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



CHARACTERISTICS

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

COMPLEMENTARY EQUIPMENTS



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



Ø 3 clamp for HG 200
Ref. 90060



HG 200 Straight end piece HG 200
Ref. 90052



KC 300 45° angle end piece
Ref. 90056



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



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

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