



THE CATALOG

## Complementarity

A new chapter: HOYTOM joins our group.  
With TESTWELL CONTROL, our expertise in mechanical  
characterization and certification is now even stronger.  
Like PRESI, HOYTOM was founded in 1961.  
It's a family-owned company.  
We share the same values.

Through these partnerships, we can offer you a solid,  
customized solution. A true complementarity.

Our story has always been closely tied to materials science.  
We design and manufacture our own machines and  
consumables in France and Spain, including mechanical  
parts produced at our MOP unit.  
A conscious and consistent choice.  
To meet our own high-quality standards.  
And to support European expertise.

We are constantly innovating, adapting  
our offer to your needs.  
Our goal is to be a reliable, responsive,  
and forward-thinking partner.  
At PRESI, trust is built over the long term.

That's what you can expect from our group.



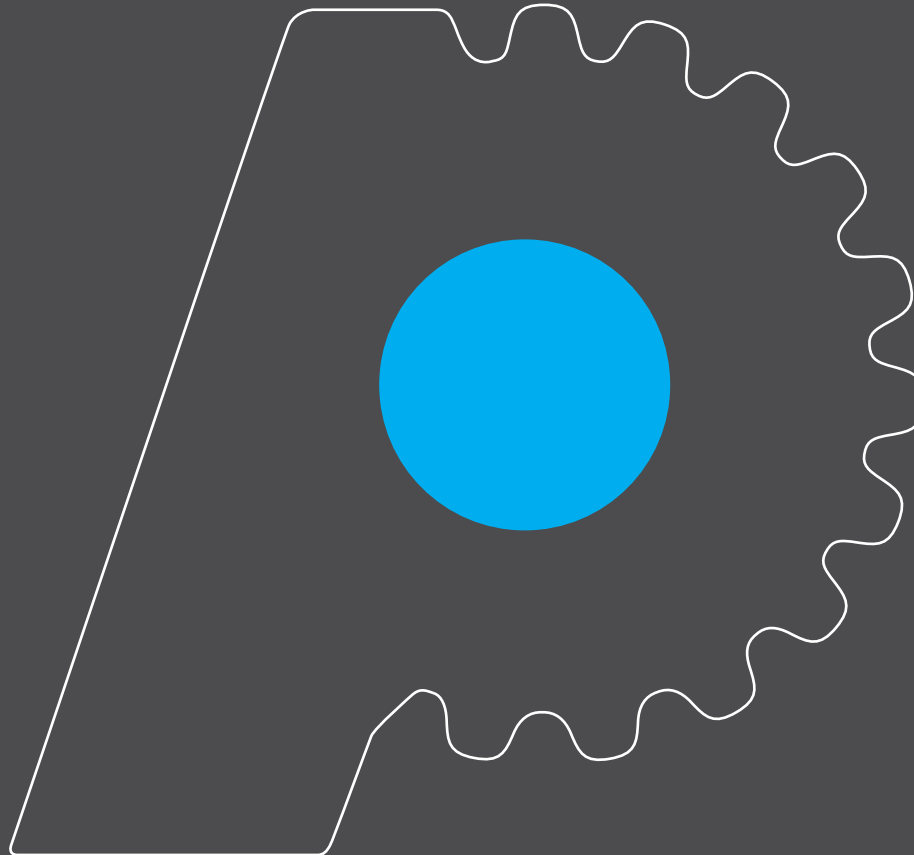
# THE GROUP



## METALLOGRAPHY

Since 1961, PRESI has been designing, manufacturing, and distributing metallography machines, consumables, and software. Today, it is the only French manufacturer recognized as one of the leading players internationally. PRESI has 6 subsidiaries (Germany, Switzerland, China, Romania, Spain, Morocco) and over 40 distributors worldwide.

- ISO 9001 CERTIFIED
- FRENCH FAB MEMBER
- BPI FRANCE EXCELLENCE MEMBER



## CUSTOM PRECISION MACHINING

Founded in 1988, MOP specializes in the machining of mechanical parts. A long-standing supplier to PRESI for over 30 years, MOP uses state-of-the-art equipment to manufacture its machines. The company joined the group in 2016 and also offers its expertise to other businesses and research laboratories.

- FRENCH FAB MEMBER



## CHARACTERIZATION

For over 70 years, TESTWELL CONTROL has specialized in providing mechanical testing equipment. The company also offers a wide range of services, from inspection to maintenance. TESTWELL CONTROL is also a recognized leader in industrial balancing.

- PRESI ISO 17025 ACCREDITED



## CHARACTERIZATION

Since its founding in 1961, HOYTOM has been designing and manufacturing mechanical testing machines (tensile, compression, hardness, impact) made in Spain. HOYTOM offers both standard and custom equipment, renowned for their precision and reliability, and used across a wide range of industrial sectors.

- HOYTOM ISO 17025 ACCREDITED



# CONSTANT DEVELOPMENT

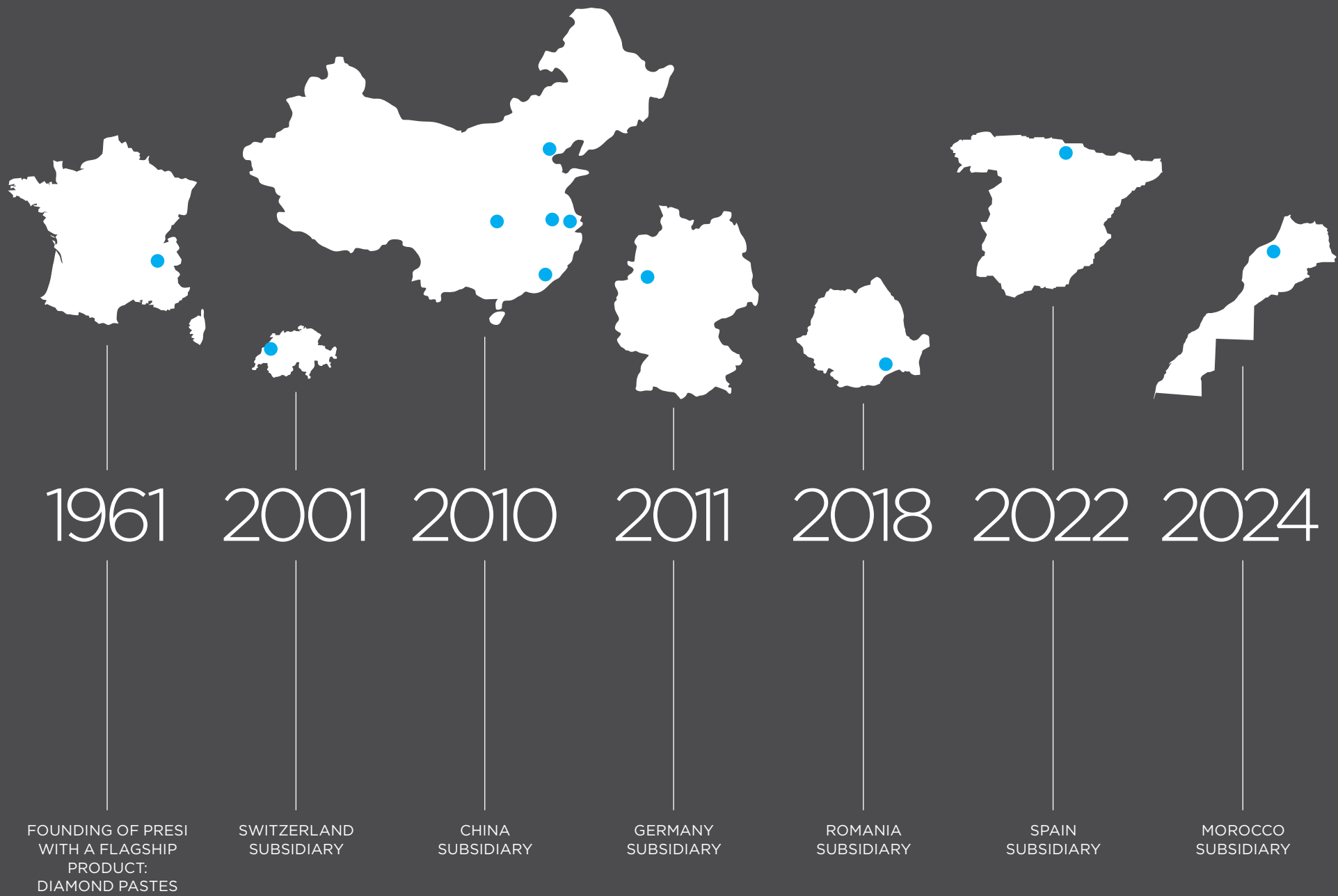
New products, new subsidiaries, new fields of expertise — beyond performance, we provide meaningful solutions.

As your needs evolve, our offer adapts, with custom solutions as our core approach. This wide range of expertise is here to help you achieve ever greater precision.

From consumables to machines,  
from metallography to optics,  
from manufacturing to characterization,  
from installation to maintenance...

PRESI carefully manages its development to remain responsive and stay one step ahead.





6 subsidiaries.  
Over 40 distributors.  
Dynamic, responsive teams  
for tailored service.

# BRINGING TOGETHER



HSY TOM



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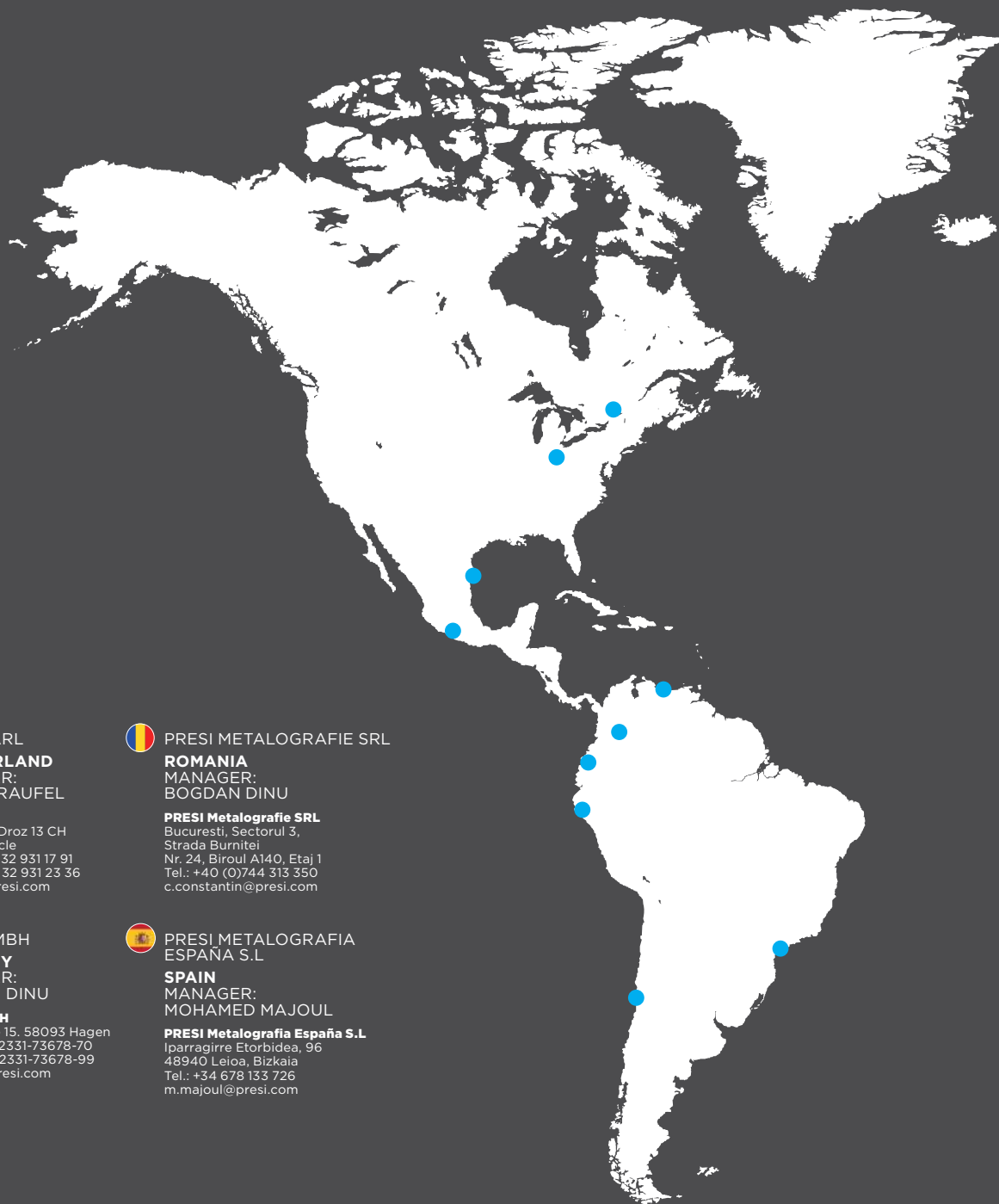
**PRESI METALOGRAFIE SRL**  
**ROMANIA**  
MANAGER:  
BOGDAN DINU

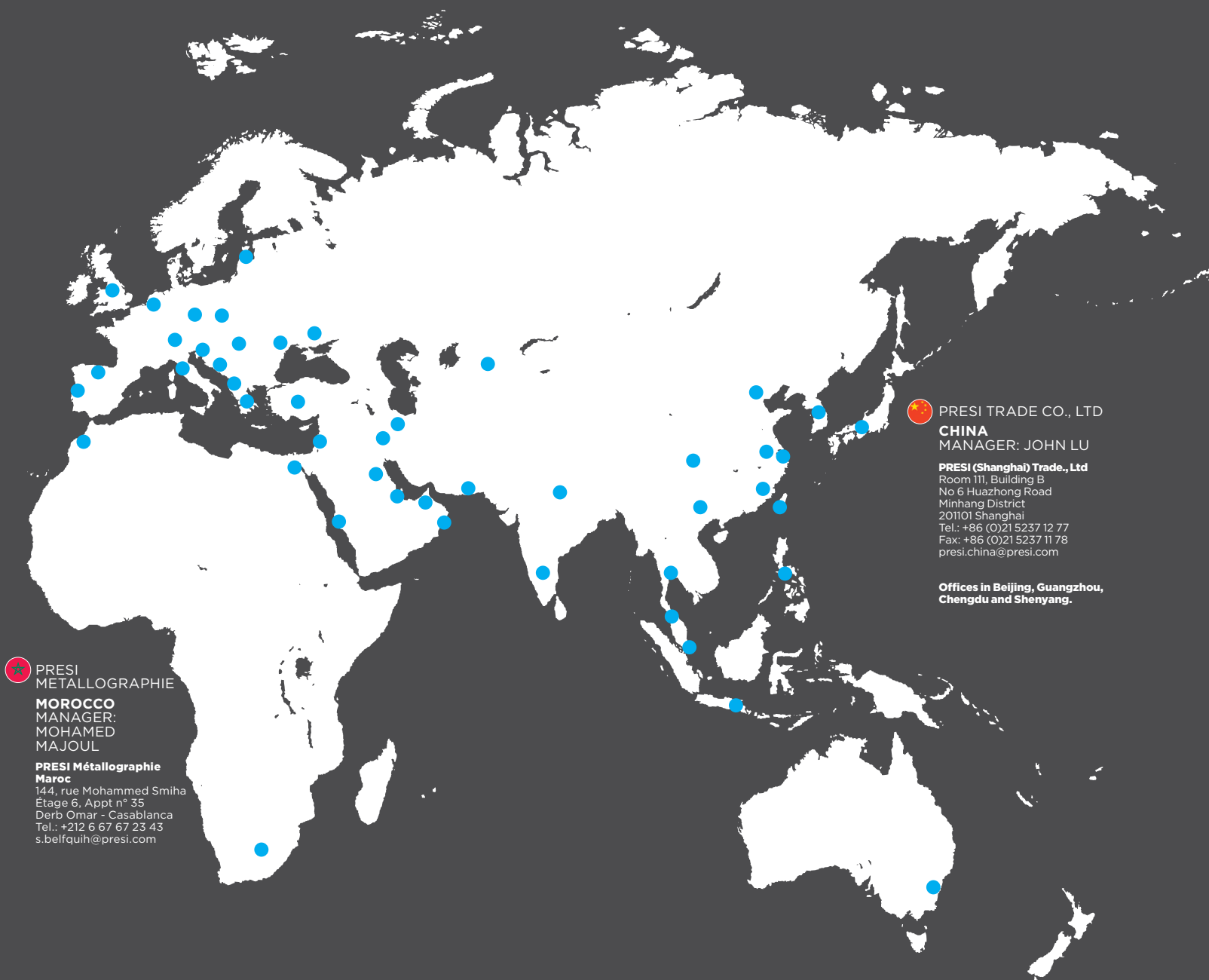
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## OVER 40 DISTRIBUTORS

### AMERICA

BRAZIL • São Paulo  
 CANADA • Toronto  
 COLUMBIA • Bogota  
 ECUADOR • Cuenca  
 MEXICO • Mexico • Leon  
 PERU • Lima  
 USA • Sturbridge  
 VENEZUELA • Caracas

### EUROPA

BOSNIA  
 CROATIA • Zagreb  
 CZECH REP. • Praha  
 GREECE • Pallini  
 ITALY • Noventa Padovana •  
 Milano • Torino  
 LITHUANIA • Vilnius  
 MACEDONIA  
 NETHERLANDS • Tilburg  
 POLAND • Warszawa  
 PORTUGAL • Porto  
 SLOVAKIA • Bratislava  
 SLOVENIA  
 UKRAINE • Kyiv  
 UNITED KINGDOM • Leeds

### AFRICA

SOUTH AFRICA • Johannesburg

### MIDDLE EAST

BAHRAIN • Mahooz  
 KUWAIT • Hawalla City  
 QATAR • Doha  
 SAUDI ARABIA • Jeddah  
 UNITED ARAB EMIRATES • Dubai

### ASIA

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

To get in touch with one  
 of our distributors,  
 visit [www.presi.com](http://www.presi.com)  
 or email [presi@presi.com](mailto:presi@presi.com)

# EXPANDING OUR REACH

**PRESI works with a large number of industrial clients.**  
**With our customers, we maintain genuine close relationships.**  
**Never offering ready-made answers, but solutions**  
**tailored precisely to needs, personalized advice,**  
**and machines that adapt even to the most challenging**  
**environments.**




70%  
TURNOVER  
FOR EXPORT



45  
COUNTRIES WHERE PRESI  
IS ALREADY PRESENT



7,000+  
ACTIVE CUSTOMERS



1,000+  
INTERVENTIONS ANNUALLY  
ON AVERAGE  
(TESTWELL CONTROL)

## A GROUP SERVING NUMEROUS INDUSTRIAL SECTORS



AERONAUTICS



AEROSPACE



AUTOMOTIVE  
INDUSTRY



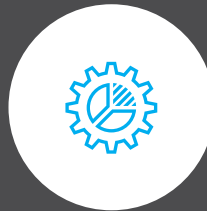
FOUNDRY



STEEL  
INDUSTRY



METALLURGY



PRECISION  
ENGINEERING



SCHOOLS &  
UNIVERSITIES



RESEARCH  
CENTERS



MEDICAL



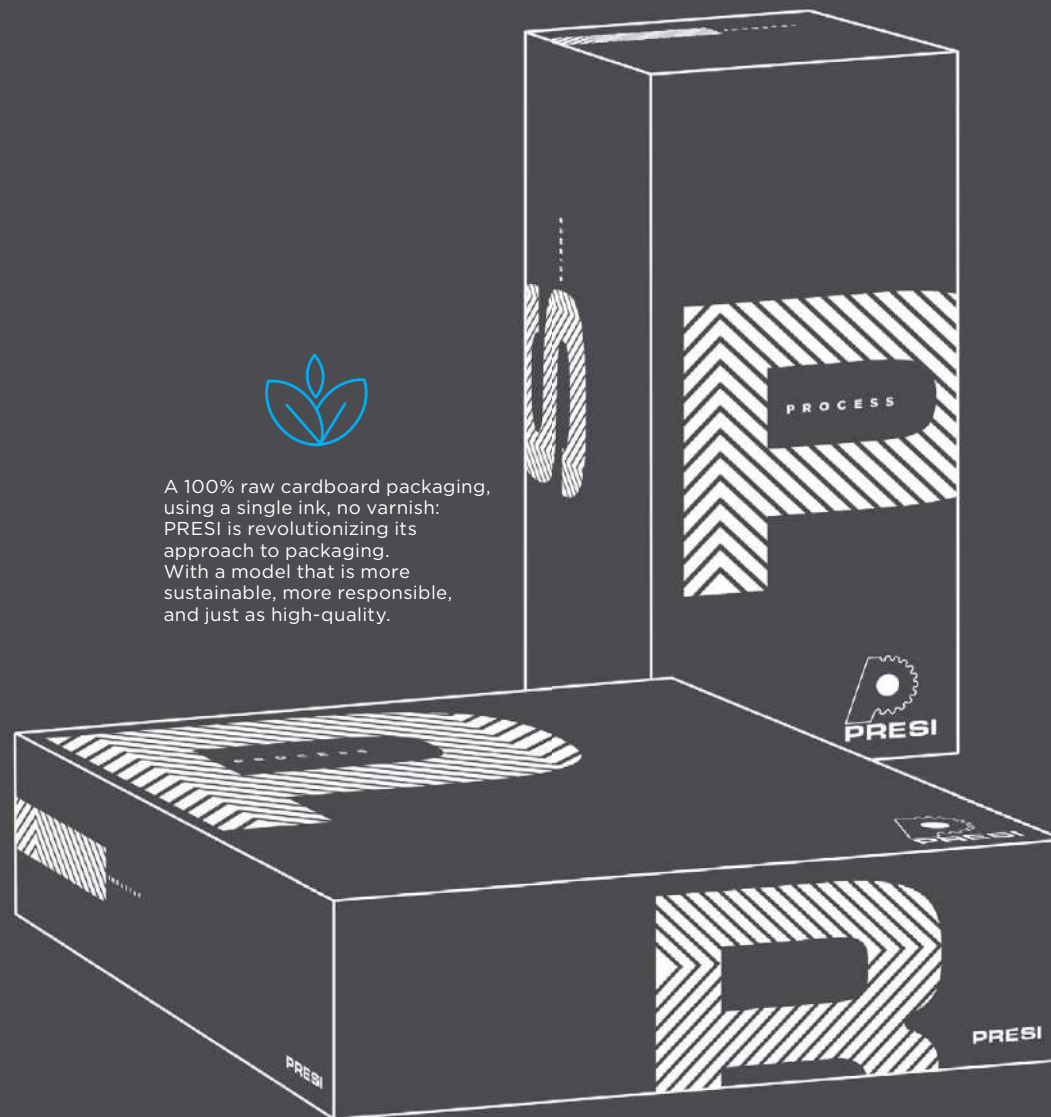
FOOD  
INDUSTRY

# VALUE

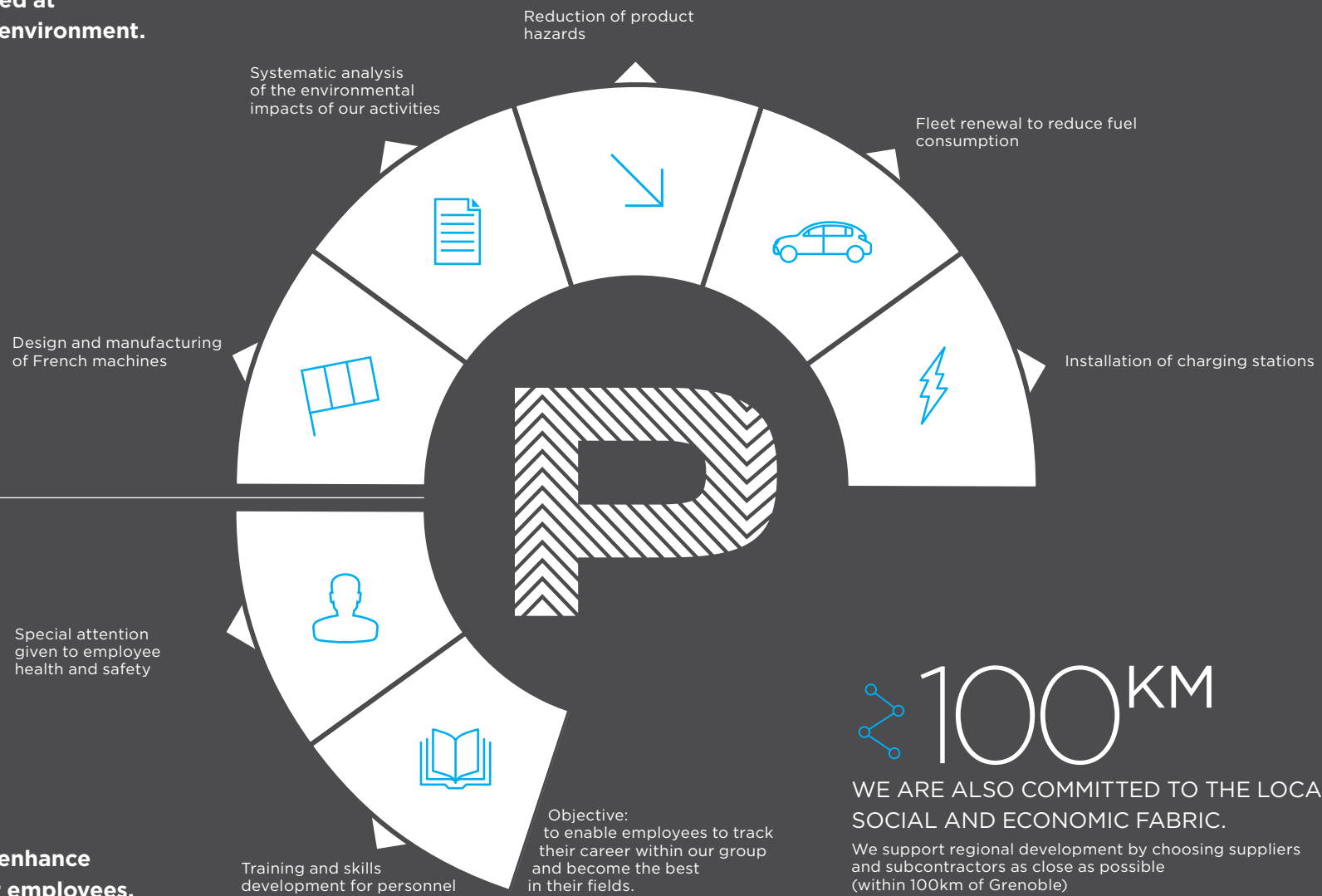
The complete redesign of our packaging:  
a new milestone in strengthening  
our CSR policy.



A 100% raw cardboard packaging,  
using a single ink, no varnish:  
PRESI is revolutionizing its  
approach to packaging.  
With a model that is more  
sustainable, more responsible,  
and just as high-quality.



**This is just a “visible” sign  
of our much more ambitious  
CSR policy aimed at  
protecting the environment.**

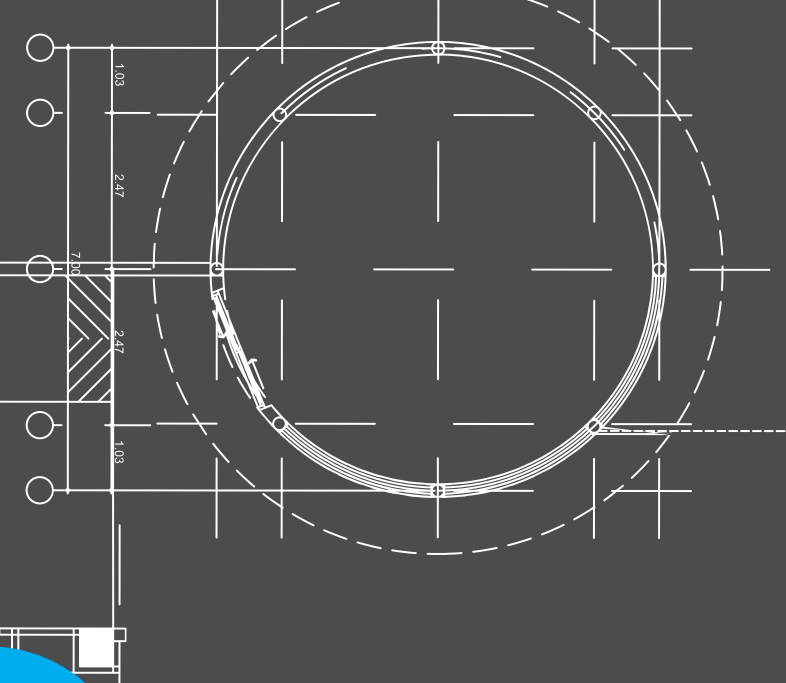


**We have made  
commitments  
to protect and enhance  
the skills of our employees.**

 **100<sup>KM</sup>**

**WE ARE ALSO COMMITTED TO THE LOCAL  
SOCIAL AND ECONOMIC FABRIC.**

We support regional development by choosing suppliers  
and subcontractors as close as possible  
(within 100km of Grenoble)



# INNOVATE

New challenges,  
special cases,  
evolving machines  
and consumables,  
emergence of new needs...  
**PRESI, TESTWELL CONTROL,  
and HOYTOM maintain constant vigilance.**

In response to challenges, our design office revises our machines **every 6 years on average.**

Research and development of new solutions for metallographic analyses, prototype design, technological monitoring, and development of customized specific **applications...**  
**The goal is simple: to optimize and perfect our product lines and services to meet all our customers' needs.**

## R&D, A CORE HUB AT PRESI

Innovation is at the heart of our company. It enables us to offer tailored, creative, and original solutions.

**That's why our R&D technical department is growing and gaining new expertise.**

It is equally with the support of the R&D team that we redesign the ergonomics of our machines, going beyond mere aesthetics. Easier to use, they provide real comfort in the workplace.

## TAILOR-MADE

Since 1961, we have been building our experience, the expertise of our technicians, and the resources of our Research and Development department. Our clients trust us and turn to us with increasingly precise and specific requests. **This allows us to evolve our initial offering into products that are 100% customized: biomedical, aeronautics, metallurgy.**

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

Whatever your field of application, your challenge, budget, or deadline, PRESI supports you throughout your projects.

## NUCLEAR

**Outstanding reliability for glove boxes and hot cells.**

Designed and developed on demand, our custom equipment and accessories are entirely redesigned using appropriate materials: stainless steel, reduction of plastics, and more.

They provide optimal resistance to harsh environments and adapt safely to them. In some cases, they can be operated remotely using manipulators and remote controls.

**PRESI has genuine expertise in adapting to harsh environments.**

**Its experience is built on key strengths:**

- complete control over manufacturing and production processes
- advanced technical expertise
- easy-to-maintain tools

To meet very specific needs, PRESI customizes its cutting, mounting, and polishing machines with a focus on high quality and advanced technology.



## CUTTING

### VICES AND OTHER SPECIFIC ACCESSORIES



Ball vice  
Models T305, T335,  
ST315



Pneumatic vice  
for core cutting on  
T265 double blade



Specialized vice  
for grooving of a disc  
indexed at 90°



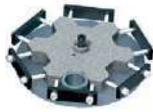
Rotary table  
mounting on  
a T-slotted table  
(T305, ST315,  
T335, EVO)



Specialized jaws  
for vice

## POLISHING

### POLISHING CUSTOM SAMPLE HOLDERS



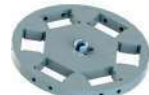
Custom central  
pressure sample  
holder for tube



Special central  
pressure holder  
with double clamping



Special central  
pressure sample  
holder for thin-section tubes



Special central  
pressure sample  
holder for rectangular  
samples



Special individual  
pressure sample holder  
for thin sections

## WORKBENCHES

A fully equipped metallography laboratory custom-built (project tracked in 3D with realistic renderings).



## NUCLEAR-RATED CUTTING MACHINE



## NUCLEAR-RATED MOUNTING PRESS



## NUCLEAR-RATED POLISHER



### SPECIFIC PROJECT, UNIQUE SOLUTION.

With or without a specifications document, PRESI supports you every step of the way, guiding your project from the initial study through to on-site staff training for the operation of these one-of-a-kind machines.



# TRAIN

SUPPORTING OUR CLIENTS IS A KEY ASPECT OF OUR BUSINESS APPROACH. ON-SITE OR AT OUR FACILITIES, IN PERSON OR REMOTELY, WE HAVE DEVELOPED A RANGE OF CUSTOMIZED SERVICES. TRAINING TO BETTER UNDERSTAND AND APPLY.



## METALLO TRAINING

**To better learn, understand, and practice.**

PRESI offers customized training programs tailored to all audiences, for both novice and experienced metallographers.

Our training sessions are led by metallography experts in our **LAB** equipped with the latest technology. Choose your training content based on your needs and challenges:

### **General (2 or 3 days)**

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

### **Specific (1 day)**

Answer to a specific problem or in-depth study of a particular preparation step. Our training combines both a theoretical and practical approach.



FOR MORE INFORMATION ABOUT OUR TRAINING PROGRAMS, PLEASE CONTACT US BY EMAIL: [PRESI@PRESI.COM](mailto:PRESI@PRESI.COM)

## EXAMPLE OF A TRAINING PLAN

### TECHNIQUES AND METHODS IN METALLOGRAPHY

Based on the report prepared by the PRESI laboratory, trainees will be asked to reproduce the metallographic preparation techniques and procedures for their samples

Duration: 3 days (21 hours)

#### 1. Cutting (6 hours)

##### Theory

- Different types of cutting discs vs. different materials
- Cutting parameters (rotation speed / table speed)
- Defects and errors caused by cutting

##### Practical

- Cutting samples

#### 2. Mounting (5 hours)

##### Theory

- Introduction to different resins
- Resin/material combination
- Mounting defects and how to correct them

##### Practical

- Mounting the samples collected previously

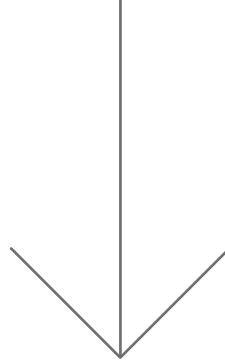
#### 3. Polishing (10 hours)

##### Theory

- Machines used
- Advantages and disadvantages of manual polishing, central or individual pressure
- Presentation of a typical polishing range
- Presentation of the ranges established based on the samples provided
- Presentation of the expected defects in the event of a range error

##### Practical

- Polish the samples using the ranges presented
- Analyze the results and identify any defects in the polished samples



## PRESI LAB

A 100% PRESI creation, the **LAB** is a key unit. It welcomes new employees to the company for training, as well as our customers.

It's also where the R&D department tests its machines and products. Innovations and optimizations necessarily involve the **LAB**.

The **LAB** is in direct contact with customers to support them in optimizing their processes. **It's an essential way to initiate and validate developments from our R&D department.**

PRESI and its subsidiaries have their own **LAB** to stay ever closer to their clients and provide them with 100% personalized advice.

### A center of experts

Tailor-made technical support and solutions for specific projects, design and optimization of preparation processes, etc. The **LAB** further develops the areas initiated by the design office.

## PRESI ACADEMY










## LAB'NOTES

In addition to training, PRESI also provides downloadable **LAB'Notes** on its website.

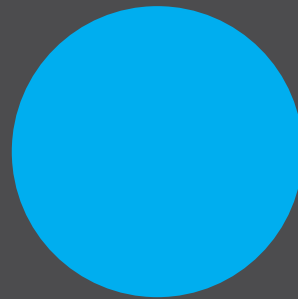
Created by the lab, these **LAB'Notes** present in a clear and detailed manner all the processes related to a large number of applications. For example, quality control (steel, cast iron, copper, titanium, etc.), heat treatment and biomaterials.



DOWNLOAD FROM PRESI.COM  
EXPERTISE SECTION  
> APPLICATIONS

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# 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.

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## 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.

22



**MECATOME  
T205**

26



**FLEXICUT 2**

**MECATOME  
T345**



50

**EVO 400/400+**



54



30



**MECATOME  
T215**

34



**MECATOME  
T265**

38



**MECATOME  
T305**

42



**MECATOME  
ST315**

46



**MECATOME  
T335**

**EVO 450**



56

**EVO 500**



58

**DIAMOND  
WIRE SAW**



62

**RESINOID  
CUT-OFF WHEELS**



64

**CONSUMABLES**

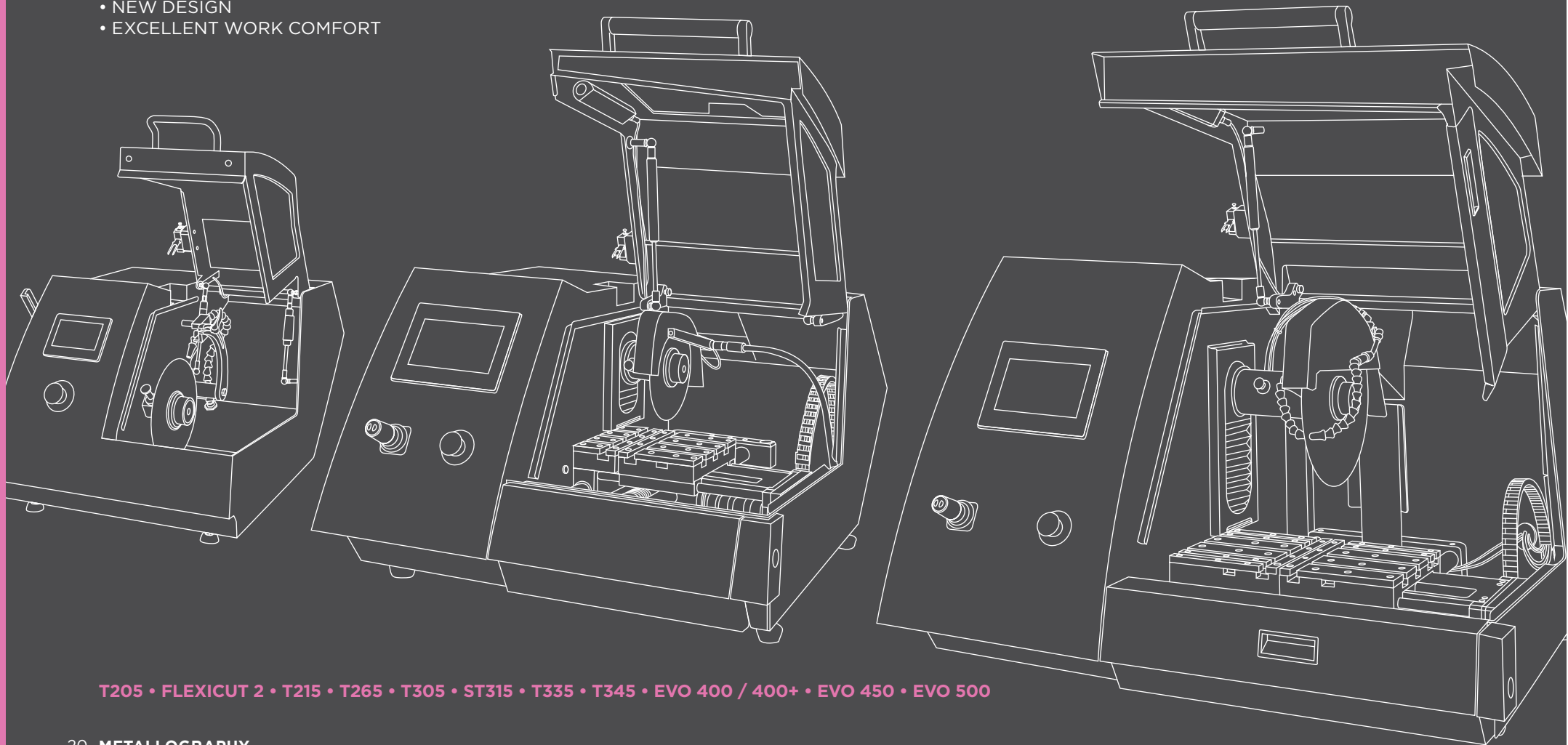


67

## CUTTING

# A brand new and extended range that fits your needs

- SIMPLICITY
- NEW DESIGN
- EXCELLENT WORK COMFORT

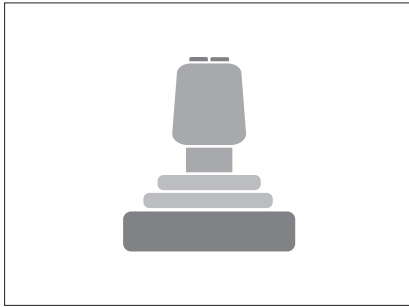


T205 • FLEXICUT 2 • T215 • T265 • T305 • ST315 • T335 • T345 • EVO 400 / 400+ • EVO 450 • EVO 500



# AUTOMATIC CUTTING MODES

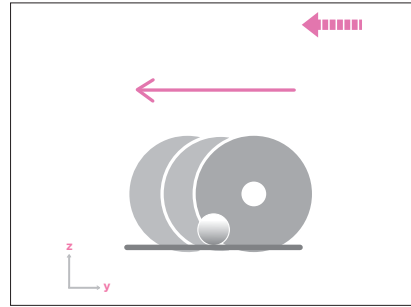
## ASSISTED MODE



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
✓	✓	✓

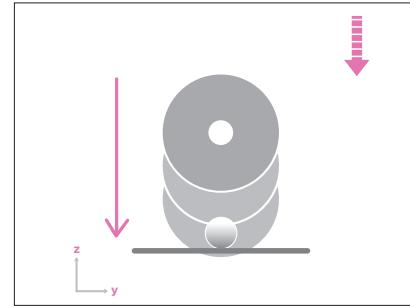
## Y PULSE MODE



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
✓	✓	✓

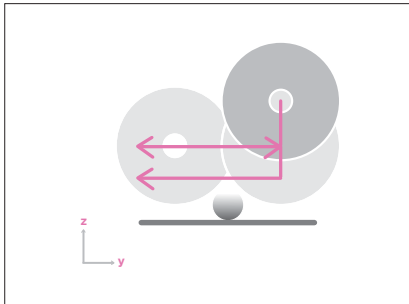
## Z PULSE MODE



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
✓		✓

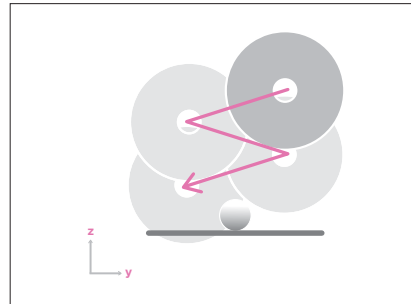
## COMBINED MODE



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
✓		✓

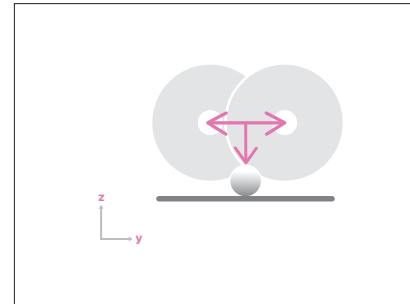
## PROGRESSIVE COMBINED MODE



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
✓		✓

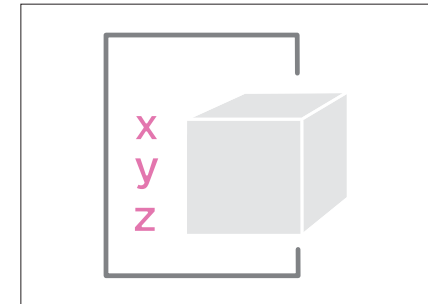
## OSCILLATING MODE



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

- SAMPLE HOLDER ARM WITH MICROMETRIC DISPLAY OF THE LATERAL MOVEMENT (1/100<sup>TH</sup>)
- DEDICATED TO SMALL-SIZED SAMPLES

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.



# T205

## Robustness and visibility

Metal frame with PETG protective glass.

## Practical

- Large selection of sample holders.
- Easy retrieval of cut parts
- 2 cutting modes:  
Manual and by Gravity.

## Brushless motor

High and constant torque with a rotation speed range of 100 to 4000 RPM.

## Safety

- Mechanically locked cover during cutting.
- Braked stopping of the cut-off wheel.
- Zero speed check.
- Emergency stop button.

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



Spindle lock for wheel change with quick-clamping nut option



Quick clamping of sample holders



2 available cutting modes : manual or by gravity



Cover lock during cutting

Check the technical specifications  
of the MECATOME T205



# T205

## FEATURES

### 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

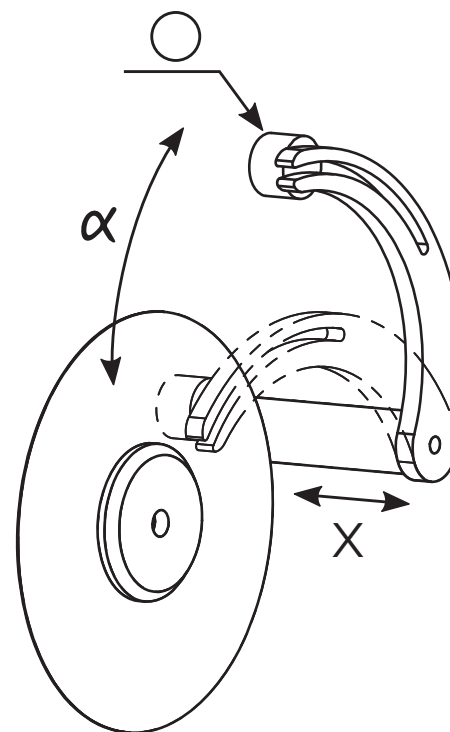
### LUBRICATION - COOLING

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

## CUTTING CAPACITY\*



X 0-100mm

O Ø 40mm

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.

# T205

## ACCESSORIES

### SAMPLE HOLDERS



**V shaped sample chuck**  
Ref. 51715



**Orientable chuck**  
(To be used with aluminium  
plates Ref. 51162 and 51163)  
Ref. 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**  
Ref. 51765



**Mini screw vice**  
Ref. 51722



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

### FLANGES



**Set of aluminium flanges  $\varnothing$  35mm  
for wheel  $\varnothing$  75 to 100mm**  
Ref. 51710

**Set of aluminium flanges  $\varnothing$  50mm  
for wheel  $\varnothing$  100 to 150mm**  
Ref. 51711

**Set of aluminium flanges  $\varnothing$  75mm  
for wheel  $\varnothing$  150 to 200mm**  
Ref. 51712

### OTHER ACCESSORIES

#### OPTION



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



**Analogue refractometer**  
**Brix 0-10**  
Ref. 19074

CUTTING

# FLEXI-CUT 2

MICRO CUTTING MACHINE  
DEDICATED TO PCB  
AND FLAT SAMPLES

**REF. 51810**

The FLEXICUT 2 is a micro-cutting machine suitable for the manual cutting of flat samples.

It has 3 cutting modes:

- Longitudinal table mode:  
for PCB cutting.
- Manual micro-cutting mode.
- Gravity micro-cutting mode.





# FLEXICUT 2

## Robustness and visibility

Metal frame with PETG protective window.

## Practical

- Wide selection of sample holders
- Easy retrieval of cut parts
- 3 cutting modes: manual, gravity-fed, or using a longitudinal moving table.

## Brushless motor

High and constant torque with a rotational speed range from 100 to 4,000 RPM.

## Safety

- Mechanically locked hood during cutting.
- Braked wheel stop.
- Zero speed control.
- Emergency stop button.



Micro-cutting mode



Longitudinal table

- ↑ 465mm hood closed  
850mm hood open
- ↔ 595mm
- ↗ 765mm
- 📦 65kg



Extraction sleeve



# FLEXICUT 2

## FEATURES

### HOOD

Type	PETG enclosure with metal hinges
Safety	Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood
Fumes extraction outlet	45mm

### MOTORISATION - POWER SUPPLY

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

### CUT-OFF WHEELS

Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	from Ø75 to Ø200mm
Rotation speed	from 100 to 4000 RPM
Arbor size	12.7mm

### CONTROL

Control Interface	Color touch control screen
Security Access	Can be activated

### 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	100mm X-axis movement of the sample carrier arm: 230 mm
X axis range	100mm X-axis movement of the sample carrier arm
Table dimensions	385x250mm
Table material	Micro-rollers
Holders	Sample carrier arm will accept a wide variety of holders

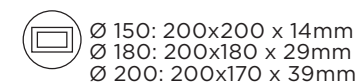
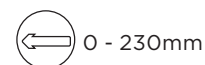
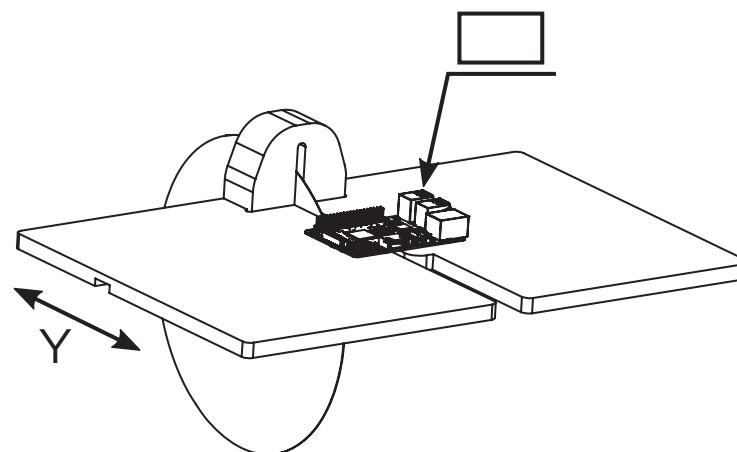
### LUBRICATION - COOLING

Pump & tank	Integrated - Capacity 4.5L
Type of lubrication	Recirculating pump or drag feed
Method of directing pumped	A single alignable nozzle
Type of filtration	100µm filter

### ERGONOMICS

Spray nozzle for cleaning	Integrated
Cut off wheel replacement	Spindle locking system for wheel replacement Optional tool-free wheel replacement

## CUTTING CAPACITY\*



\* 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.



# FLEXICUT 2

## 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**  
Ref. 51713



**Chuck for cylindrical samples**  
Ref. 51714



**Chuck for irregular shape samples**  
Ref. 51716



**Quick coupler rack**  
T205/T215  
Ref. 51765



**Mini screw vice**  
Ref. 51722



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

### FLANGES

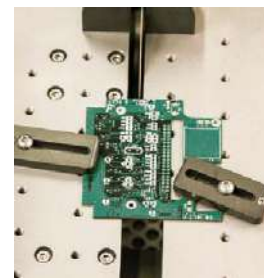


**Set of aluminium flanges  $\varnothing$  35mm**  
for wheel  $\varnothing$  75 to 100mm  
Ref. 51710

**Set of aluminium flanges  $\varnothing$  50mm**  
for wheel  $\varnothing$  100 to 150mm  
Ref. 51711

**Set of aluminium flanges  $\varnothing$  75mm**  
for wheel  $\varnothing$  150 to 180mm  
Ref. 51712

### TABLES AND POSITIONING



**Linear table for PCB cuts.**  
385mm x 250mm  
Ref. 51815

### OTHER ACCESSORIES



**Versatile led light with magnetic fixing**  
Ref. 51730



**Analogical refractometer**  
Brix 0-10  
Ref. 19074

CUTTING

# MECATOME T215

AUTOMATIC MICRO  
CUTTING MACHINE

REF. 51460

- 2 CUTTING AXES
- 3 MOTORIZED AXES
- SUITABLE FOR R&D AS WELL  
AS FOR ROUTINE OPERATIONS

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.



# T215

## The most advanced cutting modes on the market

Combination of three motorized axes:  
2 cutting axes - Y&Z, one positioning axis - X.

## User-friendly

- Intuitive interface.
- Touch screen and 3-axis joystick with two programmable control buttons.
- Positioning laser.

## Easy Maintenance

- Pre-filtration grid mechanical and magnetic filtration.
- Integrated cleaning gun.

## Safety

- Mechanically locked cover during cutting.
- Two-hand control for manipulation of the axes while cover is open.
- Braked stopping of the cut-off wheel.
- Emergency stop button.



540mm hood closed  
1010mm hood open



840mm



860mm



135kg

Check the technical specifications  
of the MECATOME T215



Spindle lock for wheel change with quick-release nut



Two-hand control



Magnetic filter for 10 L recirculation tank



Transversal table with motorized movement  
Ref. 51461

## FEATURES

### 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 Ref. 51463
Table type	Treated aluminum table, interchangeable stainless steel pallets
Holders	T-slotted table (12mm) accepting all commercial clamping systems

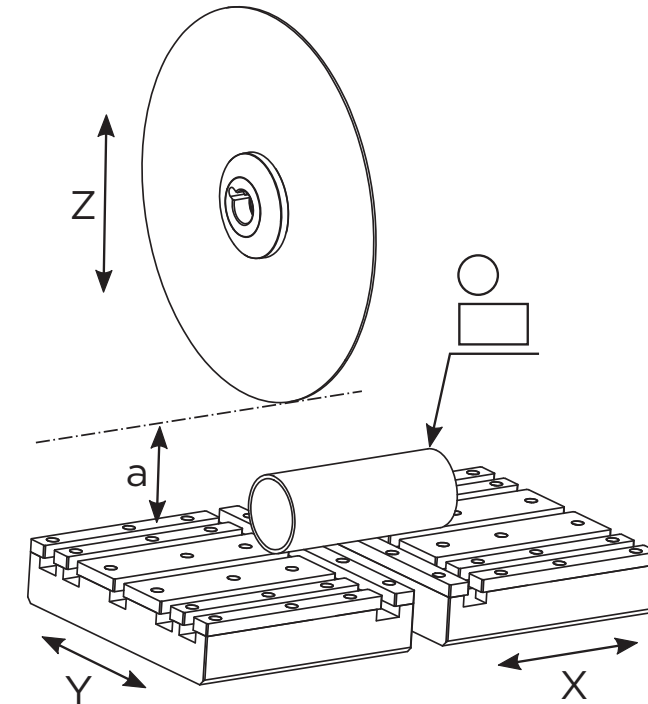
### LUBRICATION - COOLING

Type of lubrication	By pump, flow rate 45L/min
Recirculation tank	Integrated - Capacity 10L Option: 25L external tank and pump Ref.51462
Type of filtration	Integrated: Grid & 100µm filter, optional magnetic filter External: Washable 100µm cloth filter, magnetic filter Ref. 51271
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	< 70dB

## CUTTING CAPACITY\*



<b>Z</b> 60mm	<b>a</b> 40mm (cut-off wheel Ø200mm)
<b>Y</b> 250mm	<b>Ø</b> 55mm
<b>X</b> Option: 100mm	<b>□</b> 55x190mm

\* 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.

## ACCESSORIES

### SAMPLE HOLDERS



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



Vice chuck for longitudinal cuts  
Ref. 51717



Chuck for small samples (Vice Typ)  
Ref. 51713



Chuck for irregular shape samples  
Ref. 51716



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



Chuck for cylindrical samples  
Ref. 51714



Quick coupler rack T205/T215  
Ref. 51765



V shaped sample chuck  
Ref. 51715



Mini screw vice  
Ref. 51722



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

### STAINLESS STEEL VICES & 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



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



Kopal Clamp  
Ref. 50616



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



Kopal kit  
Ref. 50613

### TABLES & POSITIONING



Transversal table with motorized movement  
Ref. 51461



Manual transversal table  
Ref. 51355



Positioning laser for T215  
Ref. 51463

### OTHER ACCESSORIES



Base cabinet for automatic cutting machine  
Ref. 51470



25L recirculating tank  
Ref. 51462



Base cabinet (small model)  
Ref. 51006



Suction & extraction  
Ref. 51464



CUTTING

# MECATOME T265

SIMPLE AND  
ROBUST MANUAL  
CUTTING MACHINE

**REF. 51270**

- L-SHAPED CLAMPING TABLE
- FAST AND SIMPLE CUTS

The robust MECATOME T265 accepts cutting discs of Ø250 & Ø300mm. 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.



# T265

## User-friendly

- 8 rotation speeds.
- Tool-less cut-off wheel replacement.

## Easy maintenance

- Integrated cleaning gun. • 25L recirculation tank, on wheels.
- Mechanical and magnetic filtration.

## Safety

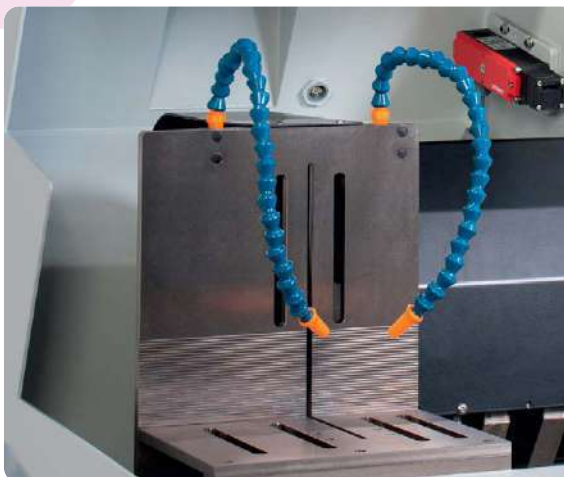
- Mechanically locked cover during cutting.
- Braked stopping of the cut-off wheel.
- Zero speed check.
- Emergency stop button.

↑ 1170mm  
hood open

↔ 720mm

↗ 970mm

📦 147kg



L-shaped clamping table - Allows horizontal or vertical clamping



Cleaning gun



8 rotation speeds



User-friendly control panel

Check the technical specifications  
of the MECATOME T265



# T265

## FEATURES

### 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
otation speed	1300, 1600, 2000, 2400, 2800, 3200, 3800 & 4000 RPM
Arbor size	25.4mm

### CONTROL

Control interface	Control Panel
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### CUTTING

Operating mode	Manual
Table type	Treated Steel L-shaped table - 250mm wide
Holders	Vices in horizontal or vertical position

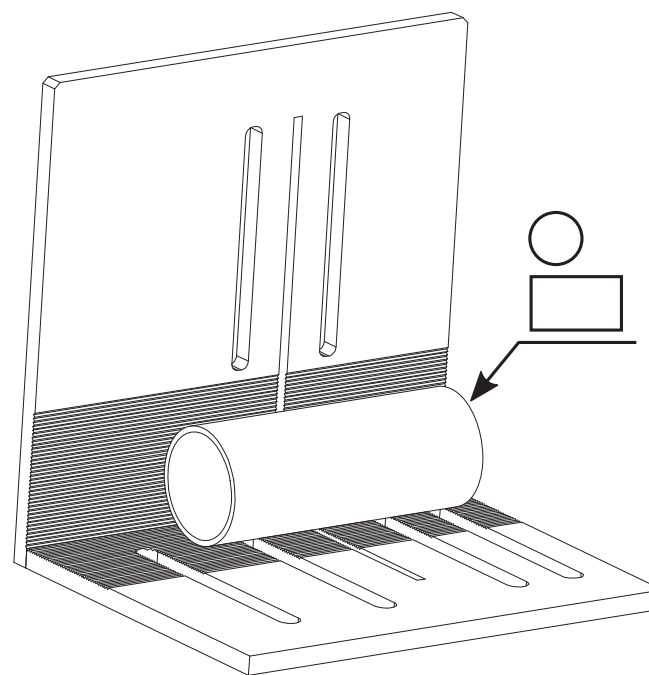
### LUBRICATION - COOLING

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	< 70dB

## CUTTING CAPACITY\*



Ø95mm  
(wheel Ø300mm)

120x60mm  
150x25mm  
85x85mm

\* 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.



# T265

## ACCESSORIES

### STAINLESS STEEL VICES & CLAMPING SYSTEMS



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



**Kopal clamp**  
Ref. 50616



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



**Kopal Kit**  
Ref. 50613



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

### TABLES & POSITIONING



**Cross table**  
Ref. 51212

### OTHER ACCESSORIES



**Suction & extraction**  
Ref. 51273



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



**Protective tunnel for bar passage  
on left side - Mecatome T265**  
Ref. 51276



**Base cabinet**  
Ref. 51006



**Magnetic filter (option)**  
Ref. 51271



**3 Filters for cooling tank 25L**  
Ref. 51621



**Analogical refractometer Brix 0-10**  
Ref. 19074



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

CUTTING

# MECATOME T305

ROBUST AND FLEXIBLE  
MANUAL CUTTING  
MACHINE

REF. 50220

- PLUNGE-CUT
- ROUTINE WORK REQUIRING A LARGE CUTTING CAPACITY

Robust and flexible, the MECATOME T305 accepts Ø250 & Ø300mm cutting discs. Its rotation speeds ranging from 300 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.



# T305

## Ergonomy

- Anti-glare lighting.
- Guided evacuation system for residual drops.
- 2 cover handles.
- Cleaning gun.
- Tool-less cut-off wheel replacement.

## Controls

- Programmable color touch screen.
- Access control by security code.
- Visualization of the motor load.

## Cutting capacity

- Cylindrical Shape: Ø110mm.
- Space under cut-off wheel 105mm.
- Power: 3.7kW.

## Safety

- Mechanically locked cover during cutting.
- Braked stopping of the cut-off wheel.
- Zero speed check.
- Emergency stop button.

↑ 710mm hood closed  
↑ 1130mm hood open

↔ 730mm

↗ 975mm

📦 156kg



Adjustable end-of-cut stop



Spindle lock for wheel change with quick-release nut



Large slotted table with stainless steel pallets



55L recirculation tank with 100µm filter and front-level indicator

Check the technical specifications  
of the MECATOME T305



## FEATURES

### 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	300 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

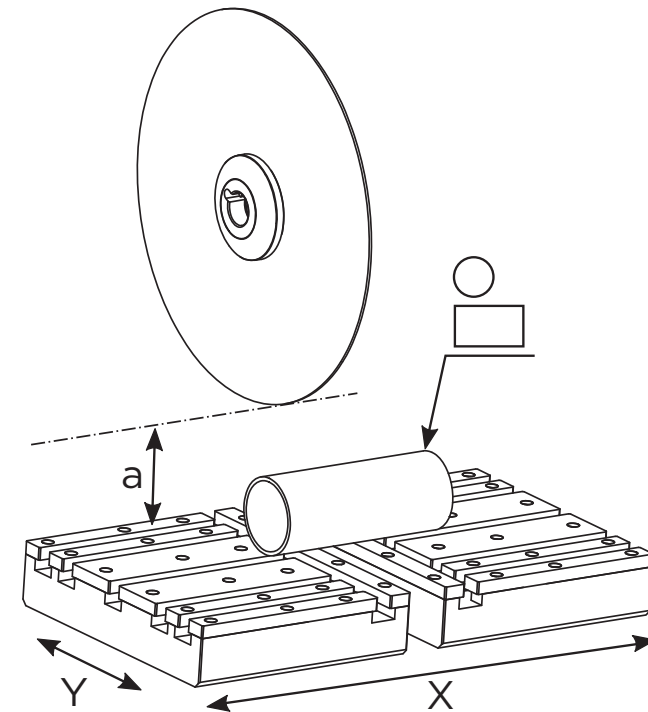
### LUBRICATION - COOLING

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	< 70dB

## CUTTING CAPACITY\*



Y 290mm

X 390mm

a 90mm  
(wheel Ø 300mm)

Ø105mm

210x50mm

\* 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.

## ACCESSORIES

### STAINLESS STEEL VICES & 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



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. 51282

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

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



Kopal Clamp  
Ref. 50616



Kopal Kit  
Ref. 50613

### TABLES & POSITIONING



Manual transversal table  
Ref. 50244



Kit of v positioning  
supports  
Ref. 50370

### OTHER ACCESSORIES



Base cabinet for manual  
cutting machine  
Ref. 51275



Base cabinet  
Ref. 51006



Protective tunnel for bar passage  
on left side - Mecatome T305/ST315  
Ref. 50221



Protective tunnel for bar passage  
on right side - Mecatome T305/ST315  
Ref. 50223



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

- FAST CUTS WITH NO RISK OF BURNING THE SAMPLES
- DIFFICULT CUTS OR PRODUCTION REQUIREMENTS

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%.



# ST315

## Speed

- Swing movement: time savings of up to 60%.
- Braked stopping of the cut-off wheel.

## Controls

- Programmable color touch screen.
- Access control by security code.
- Visualization of the motor load.

## Maintenance

- Cleaning gun
- 55L recirculating tank with dual filtration system.

## Safety

- Mechanically locked cover during cutting.
- Braked stopping of the cut-off wheel.
- Zero speed check.
- Emergency stop button.



Swing movement



Ergonomic arm and handle

↑  
710mm hood closed  
1130mm hood open

↔  
720mm

↗  
975mm

📊  
160kg



Option magnetic filter



Option suction & extraction

Check the technical specifications  
of the MECATOME ST315



## FEATURES

### 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

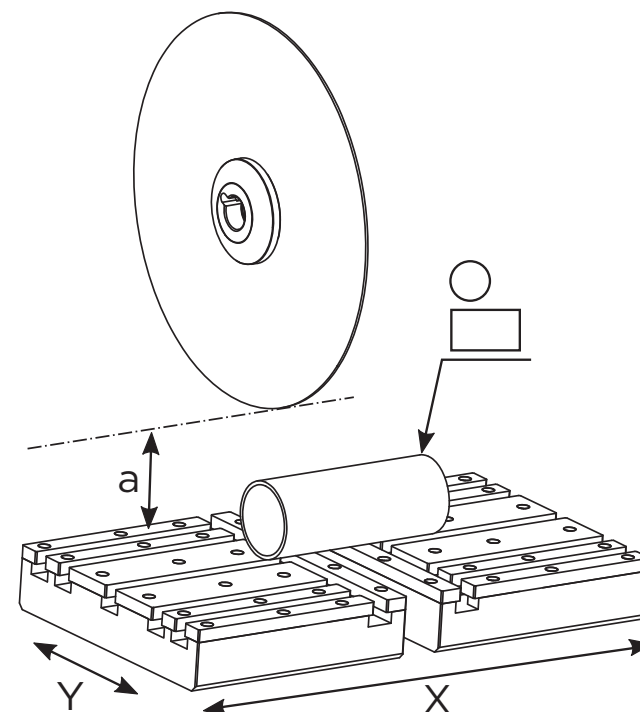
### LUBRICATION - COOLING

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	< 70dB

## CUTTING CAPACITY\*



Y 290 -mm

X 390 -mm

a 130mm  
(wheel Ø -300mm)

Ø105mm

210x50mm

\* 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.



## ACCESSORIES

### STAINLESS STEEL VICES & 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



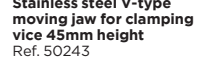
Special fragile samples "Delrin"  
thermoplastic moving jaw  
for clamping vice 45mm  
Ref. 51283



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



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



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



Kopal Clamp  
Ref. 50616



Kopal Kit  
Ref. 50613

### TABLES & POSITIONING



Manual transversal table  
Ref. 50244



Kit of v positioning  
supports  
Ref. 50370

### OTHER ACCESSORIES



Base cabinet for manual  
cutting machine  
Ref. 51275



Base cabinet  
Ref. 51006



Protective tunnel for bar passage  
on left side - Mecatome T305/ST315  
Ref. 50221



Protective tunnel for bar passage  
on right side - Mecatome T305/ST315  
Ref. 50223



Magnetic filter  
Ref. 50222



Suction & extraction  
Ref. 51273



3 Filters for cooling tank  
Ref. 51620



Analogical refractometer Brix 0-10  
Ref. 19074

CUTTING

# MECATOME T335

MANUAL AND AUTOMATIC  
CUTTING MACHINE

REF. 50380

- 2 CUTTING AXES
- 2 MOTORIZED AXES
- VERSATILITY FOR ALL TYPES  
OF APPLICATIONS

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 300 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.



# T335

## Manual and automatic

- Motorized Y&X axes:  
assisted cutting, automatic cutting, serial cutting.
- Manual Z axis with automatic arm lock.

## User-friendly

- Intuitive interface.
- Touch screen and 3-axis joystick.
- Positioning laser.

## Maintenance

- Cleaning nozzle located at the rear of the machine.
- 55L recirculation tank.
- Dual filtration system, mechanical and magnetic.

## Safety

- Mechanically locked cover during cutting.
- Braked stopping of the cut-off wheel.
- Zero speed check.
- Two-hand control for manipulation of the axes while cover is open.
- Emergency stop button.

↑ 680mm hood closed  
1180mm hood open

↔ 1025mm

↘ 954mm

📦 210kg

Check the technical specifications  
of the MECATOME T335



Electromagnetic locking of the cutting arm



Cleaning Gun



Spindle lock for wheel change with optional quick-clamping nut



Option magnetic filter

## FEATURES

### 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

Cut-off wheel	Braked wheel stop
Type of cut-off wheel	Resinoid & Metallic
Size of the cut-off wheel	from Ø 250 to Ø 300mm
Rotation speed	300 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, Oscillating
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: 192x230mm Right table: 192x230mm
Distance between cut-off wheel and table	77.5mm (with Ø300mm 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

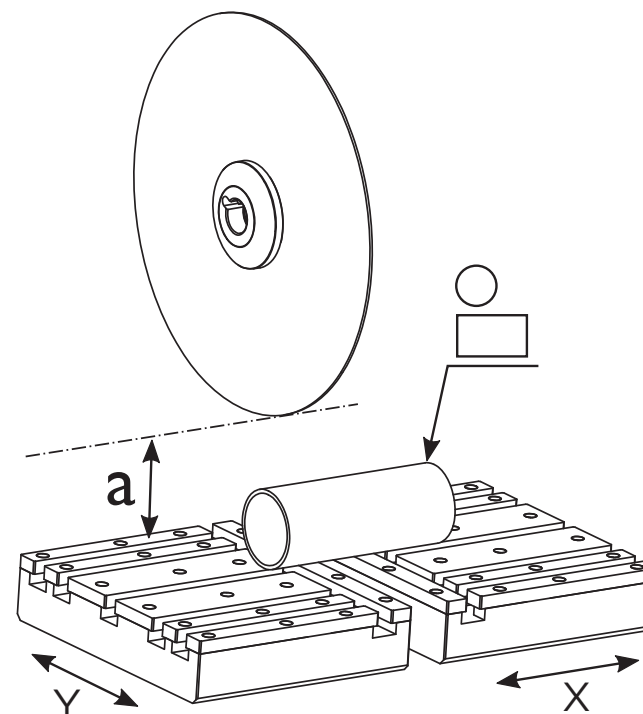
### LUBRICATION - COOLING

Type of lubrication	By pump, flow rate 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 and up to 2 optional 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	< 70dB

## CUTTING CAPACITY\*



Y 240mm

X Option: 100mm

a 80mm (cut-off wheel  
Ø300mm)

Ø 105mm

105x145mm

\* 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.



## ACCESSORIES

### STAINLESS STEEL VICES & 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



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

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



Kopal Clamp  
Ref. 50616



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

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



Kopal Kit  
Ref. 50613

### TABLES & POSITIONING



Motorized transversal table  
Ref. 50381



Manual transversal table  
Ref. 50244



Kit of V positioning  
supports  
Ref. 50370

### AUTRES ACCESSOIRES



Base cabinet for automatic  
cutting machine  
Ref. 51470



Base cabinet (big size)  
Ref. 51010



Protective tunnel for bar passage  
on left side - Mecatome T335  
Ref. 50384



Protective tunnel for bar passage  
on right side - Mecatome T335  
Ref. 50385



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

- 2 CUTTING AXES
- 3 MOTORIZED AXES
- SUITABLE FOR R&D AS WELL  
AS FOR ROUTINE OPERATIONS

Powerful and precise, the MECATOME T345 is an automatic cutting machine. Its rotation speeds ranging from 300 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.



# T345

## The most advanced cutting modes on the market

Combination of three motorized axes:

- 2 cutting axes - Y&Z,
- one positioning axis - X.

## User-friendly

- Intuitive interface.
- Touch screen and 3-axis joystick with two programmable control buttons.
- Positioning laser.

## Maintenance

- Cleaning gun.
- Guided evacuation system for cutting residues by flow of lubricant
- 55L recirculation tank.
- Dual filtration system, mechanical and magnetic.



Two-hand control



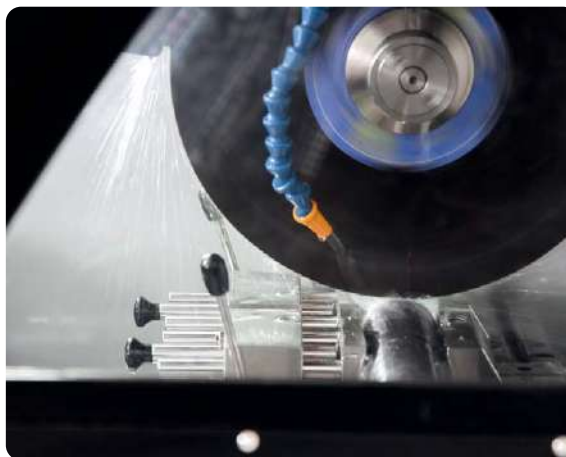
Spindle lock for wheel change with optional quick-clamping nut

680mm hood closed  
11180mm hood open

1060mm

910mm

210kg



Oscillating cutting along the Y and Z axes



Cleaning nozzle located at the rear of the machine

Check the technical specifications  
of the MECATOME T345



## FEATURES

### 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	300 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: 192x230mm Right Table: 192x230mm
Distance between cut-off wheel and table	90mm (with Ø300mm 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

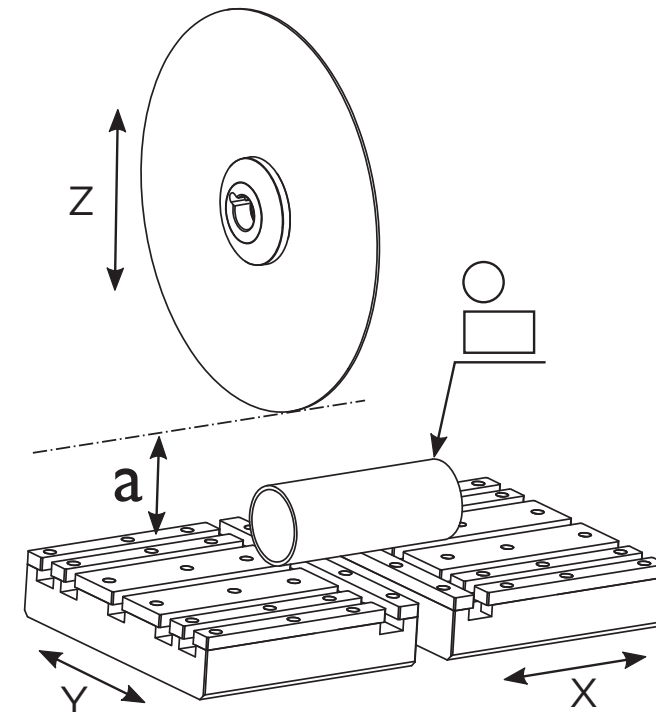
### LUBRICATION - COOLING

Type of lubrication	By pump, flow rate 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	< 70dB

## CUTTING CAPACITY\*



**Z** 150mm

**Y** 240mm

**X** Option: 100mm

**a** 90mm  
(cut-off wheels  
Ø300mm)

**Ø** Ø105mm

**□** 105x145mm

\* 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.



## ACCESSORIES

### STAINLESS STEEL VICES & 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  
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



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. 51282

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

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



Kopal Clamp  
Ref. 50616



Kopal Kit  
Ref. 50613

### TABLES & POSITIONING



Motorized transversal table  
Ref. 50391



Manual transversal table  
Ref. 50244



Kit of V positioning  
supports  
Ref. 50370

### OTHER ACCESSORIES



Base cabinet for automatic  
cutting machine  
Ref. 51470



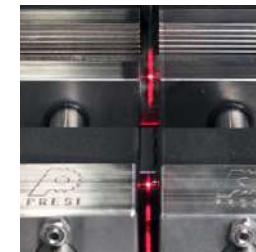
Base cabinet (big size)  
Ref. 51010



Protective tunnel for bar passage  
on right side - Mecatome T345  
Ref. 50394



Magnetic filter  
Ref. 50222



Positioning laser for MECATOME T345  
Ref. 50392



Suction & extraction  
Ref. 51273



3 Filters for cooling tank  
Ref. 51620



Analogical refractometer Brix 0-10  
Ref. 19074

CUTTING

NEW

# EVO

## 400 / 400+

### HIGH CAPACITY CUTTING MACHINE

**EVO 400 - REF. 50810**  
**EVO 400+ - REF. 50820**

The EVO 400 is a spacious, powerful and robust cutting machine. It has a height under cut-off wheel of 230mm 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.



## FEATURES

### HOOD

Type	Metal frames & PETG Motorised opening and closing
Safety	Two-hand control for positioning and handling of the hood Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood
Fumes extraction outlet	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 400mm* (optional)
Axis X travel	Travel 200mm* (optional)
Axis Z travel	320mm
Standard table	Left table 300x600mm. Right table 300x600mm
With X axis option - Manual transverse movement table	Left table 300x600mm. Right table 250x600mm
With Y axis option - Manual longitudinal movement table	Left table 300x300mm. Right table 300x300mm
Positioning laser	Option
Distance between cut-off wheel and table	230mm
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

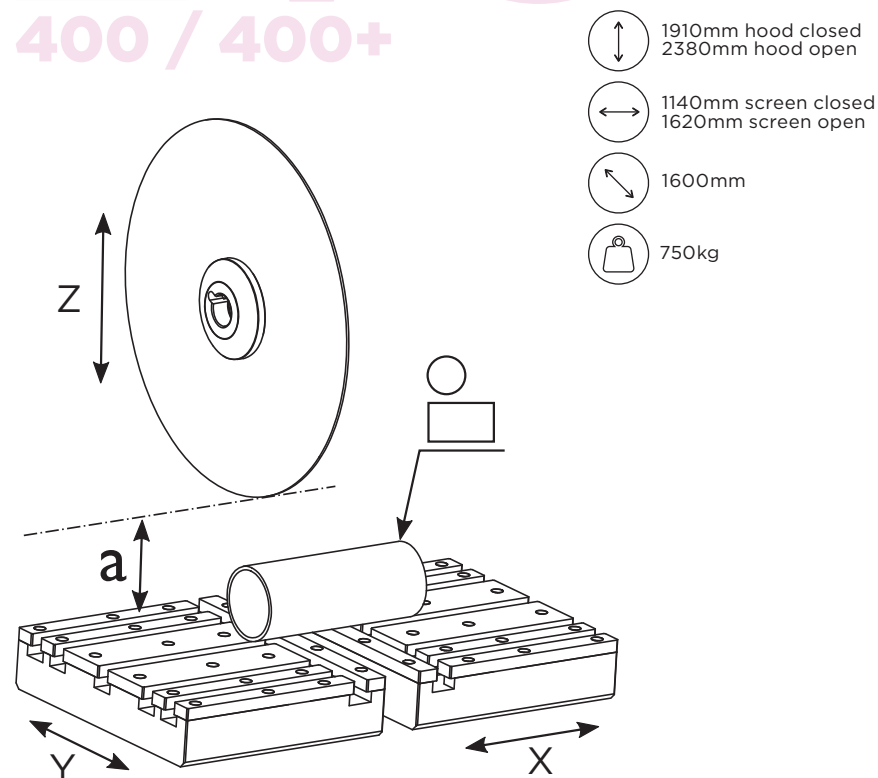
Internal lighting	LED
Spray nozzle for cleaning	Integrated

\* Customizable tables and strokes.

## CUTTING CAPACITY\*

# EVO

## 400 / 400+



- 1910mm hood closed  
2380mm hood open
- 1140mm screen closed  
1620mm screen open
- 1600mm
- 750kg

- Z 320mm
- Y 400mm
- X 200mm
- a 230mm
- Ø125mm
- 70x270mm  
50x130mm  
35x330mm

\* 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.

CUTTING

NEW

# EVO

## 450

### HIGH CAPACITY CUTTING MACHINE

REF. 50830

The EVO 450 is a spacious, powerful and robust cutting machine. It has a height under cut-off wheel of 205mm 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.



## FEATURES

### HOOD

Type	Metal frames & PETG Motorised opening and closing
Safety	Two-hand control for positioning and handling of the hood Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood
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 400mm* (optional)
Axis X travel	Travel 200mm* (optional)
Axis Z travel	320mm
Standard table	Left table 300x600mm. Right table 300x600mm
With X axis option - Manual transverse movement table	Left table 300x600mm. Right table 250x600mm
With Y axis option - Manual longitudinal movement table	Left table 300x300mm. Right table 300x300mm
Positioning laser	Option
Distance between cut-off wheel and table	205mm
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

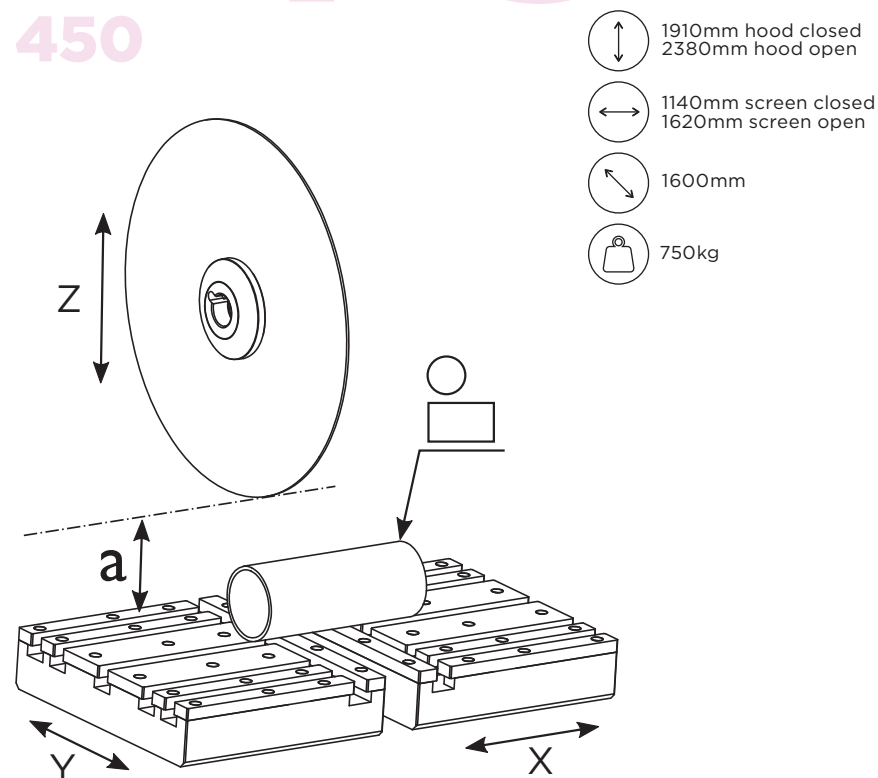
### ERGONOMICS

Internal lighting	LED
Spray nozzle for cleaning	Integrated

\* Customizable tables and strokes.

## CUTTING CAPACITY\*

450



- 1910mm hood closed  
2380mm hood open
- 1140mm screen closed  
1620mm screen open
- 1600mm
- 750kg

- Z 320mm
- Y 400mm
- X 200mm
- a 205mm
- Ø140mm
- 70x325mm  
50x360mm  
25x390mm

\* 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.

CUTTING

# EVO

## 500

### HIGH CAPACITY CUTTING MACHINE

**REF. 50840**

The EVO 500 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.



**NEW**





## FEATURES

### HOOD

Type	Metal frames & PETG Motorised opening and closing
Safety	Two-hand control for positioning and handling of the hood Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood
Fumes extraction outlet	76mm

### MOTORISATION - POWER SUPPLY

Nominal power S1	15000W
Nominal power S3	21000W
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 500mm
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 400mm* (optional)
Axis X travel	Travel 200mm* (optional)
Axis Z travel	320mm
Standard table	Left table 300x600mm. Right table 300x600mm
With X axis option - Manual transverse movement table	Left table 300x600mm. Right table 250x600mm
With Y axis option - Manual longitudinal movement table	Left table 300x300mm. Right table 300x300mm
Positioning laser	Option
Distance between cut-off wheel and table	180mm
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

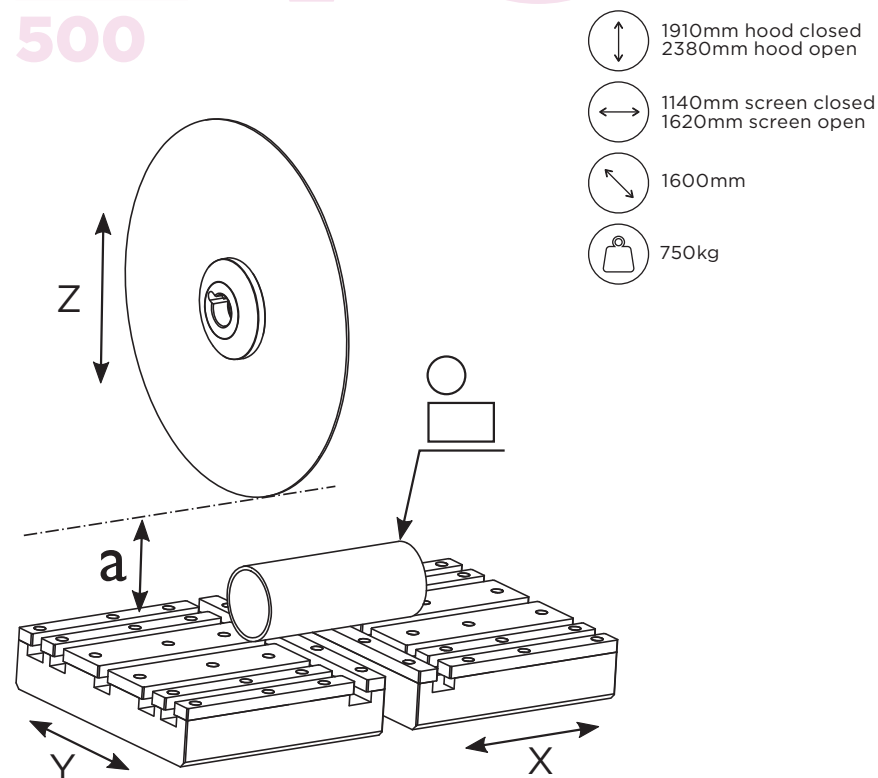
Internal lighting	LED
Spray nozzle for cleaning	Integrated

\* Customizable tables and strokes.

## CUTTING CAPACITY\*

# EVO

## 500



<b>Z</b> 320mm	<b>Y</b> 400mm	<b>X</b> 200mm
<b>a</b> 180mm	Ø165mm	70x390mm 50x420mm 25x445mm

\* 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.

# EVO

## Powerful

- The three available motor options make EVO machines tailored to your needs

## Ease of use

- Intuitive touch interface
- Positioning laser (optional)

## Safety

- Two-hand control for safe handling of motorized axes
- Mechanically locked hood during cutting
- Braked wheel stop
- Zero speed control



200L recirculation tank with 100µm filter and front-level indicator



Large workspace



Two-hand control panel



Filter option: suction and extraction



## ACCESSORIES

### STAINLESS STEEL VICES & 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



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

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



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

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



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



Kopal Clamp  
Ref. 50616



Kopal chain clamping system  
Ref. 50617



Kopal Kit  
Ref. 50613

### TABLES & POSITIONING



X-axis manual table  
Ref. 50850



Y-axis manual table  
Ref. 50851



X-axis motorized table  
Ref. 50852



Y-axis motorized table  
Ref. 50853



XY-axis motorized table  
Ref. 50854



Kit of V positioning supports  
Ref. 50370

Positioning laser  
Ref. 50412

### OTHER ACCESSORIES



Positioning laser  
Ref. 50412



Suction & extraction  
Ref. 50408



Set of 2 filters  
Ref. 81500



Protective tunnel for bar passage on left side EVO  
Ref. 50861



Protective tunnel for bar passage on right side EVO  
Ref. 50860

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.

Check the diamond wire saws  
video



CE

**SAW 4500**

Ref. 52040



860mm



85kg



L : 590mm  
l: 480mm



CE

**SAW 6500**

Ref. 52050



1200mm



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

## FEATURES

	3500	3500 PREMIUM	3400
<b>POWER SUPPLY - CONTROL</b>			
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	✓	✓	✓
<b>WORKING AREA</b>			
Height adjustment (counterweight position markers using coloured dots, like on the winder)	✓	✓	
<b>ADVANCEMENT</b>			
Gravity (wire)	✓	✓	
Scale/Weight (sample)			✓
<b>CUTTING DEPTH</b>			
Maximum in mm	60	35/52	50
Slider with electronic end-of-cut stop		✓	
<b>SAMPLE HOLDER</b>			
Slotted table	✓	✓	
Micrometric table	option	✓	✓
30mm diameter with 5 ceramic plates	✓	✓	✓
30mm diameter 90° with 5 ceramic plates	option	option	option
Turning deck		✓	
<b>LUBRIFICATION</b>			
Dampening device	✓	✓	✓
<b>WARRANTY</b>			
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
52155	Standard wire 120m	Ø 0.35mm	64µ
52150	Standard wire 120m	Ø 0.5mm	64µ
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 500ml  
Ref. 52304 5L

**Set of 5 ceramic plates**  
Ref. 52303

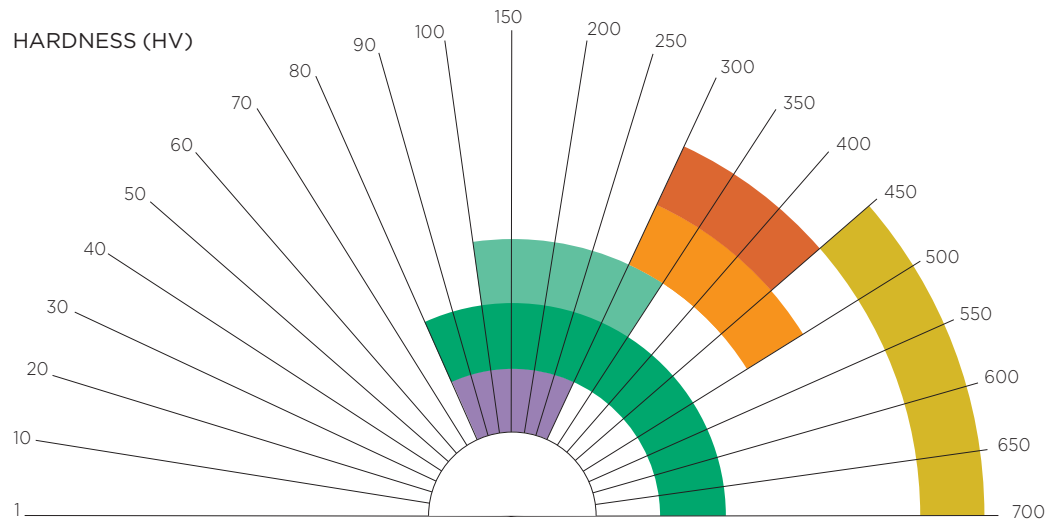
**Drum**  
Ref. 52306

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

# RESINOID CUT-OFF WHEELS

## FERROUS MATERIAL

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

## STANDARD RESINOID CUT-OFF WHEELS

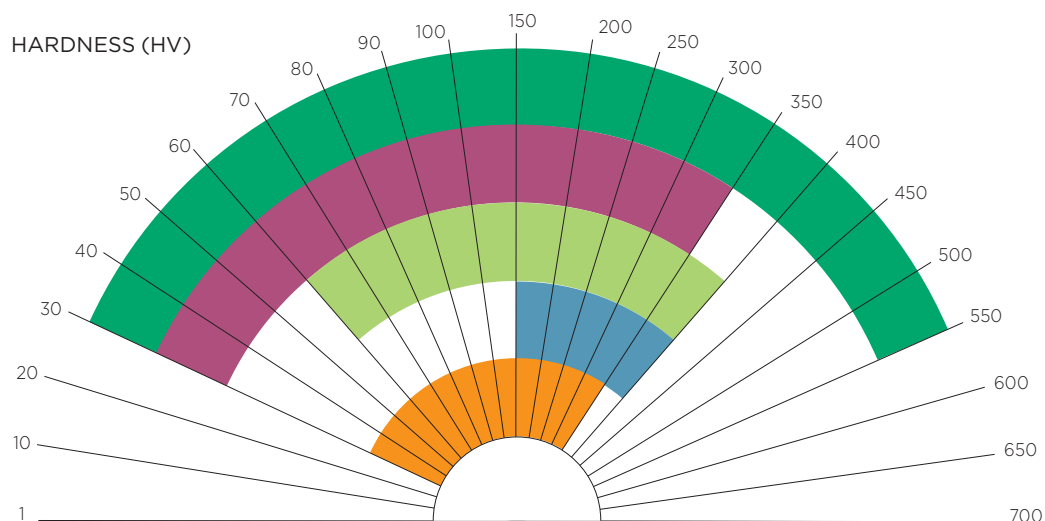
Pack of 10

REF.	DESCRIPTION	ABRASIVE	Ø
S			
01016	Cut-off wheels	Al <sub>2</sub> O <sub>3</sub>	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 <sub>2</sub> O <sub>3</sub>	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
AT			
01009	Cut-off wheels	Al <sub>2</sub> O <sub>3</sub>	Ø 250 x 1.5 x 32mm
01011	Cut-off wheels	Al <sub>2</sub> O <sub>3</sub>	Ø 300 x 2 x 32mm
A			
01040	Cut-off wheels	Al <sub>2</sub> O <sub>3</sub>	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 <sub>2</sub> O <sub>3</sub>	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

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

### STANDARD RESINOID CUT-OFF WHEELS

Pack of 10

REF.	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		Ø 200 x 0.5 x 25.4mm
MNF			
01005	Cut-off wheels	SiC	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		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	SiC	Ø 250 x 1.6 x 32mm
01072	Cut-off wheels		Ø 300 x 2 x 32mm
01073	Cut-off wheels		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/CBN CUT-OFF 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

### DIAMOND 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
02048	Cut-off wheel	Ø 300 x 1.4 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

# 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 dressing sticks for Tissediam



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
<b>Pack of 20</b>		
01089	Reduction ring teflon	32 / 25,4 mm x 2 mm
01091	Reduction ring teflon	25,4 / 22 mm x 1,6 mm
01092	Reduction ring teflon	32 / 25,4 mm x 3 mm
<b>Pack of 5</b>		
51324	Reduction ring aluminium	25,4 / 12,7 mm x 1,5 mm
51331	Reduction ring aluminium	32 / 12,7 mm x 1,5 mm
51332	Reduction ring aluminium ultra thin	25,4 / 12,7 mm x 0,9 mm



Reduction ring  
teflon



Reduction ring  
aluminium

\* Other diameters on request.





## METALLOGRAPHY

# MOUNTING

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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.

## COLD MOUNTING

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**COLD OR HOT  
MOUNTING**

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**PRESSURE  
AND VACUUM  
MOUNTING  
MACHINES**

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**TRANSPARENT  
& OPAQUE  
RESINS**

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**MOULDS**

## HOT MOUNTING

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**MECAPRESS 4**



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**MECAPRESS 5**



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**RESINS**



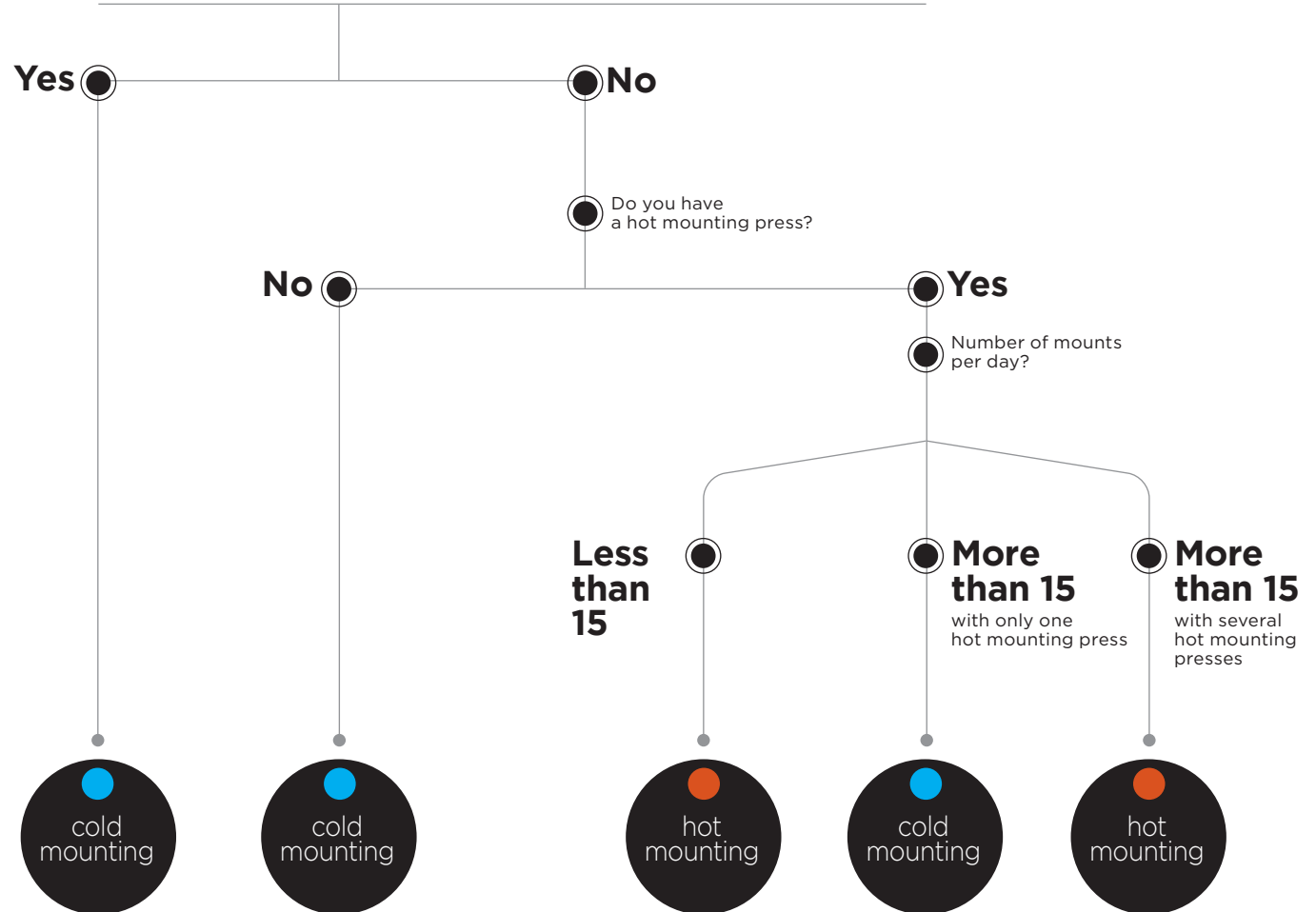
80



## 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:**

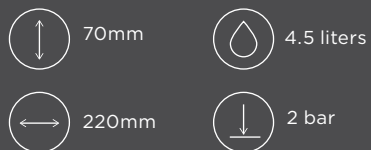
- high quality mounts (observation of edges),
- hardness measurements,
- polishing in individual pressure.

## 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

See our POLY'VAC video here



# RESINS

## TRANSPARENT

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

TYPE OF RESINS	USE	POLYMERIZATION TIME	SHRINKAGE	EXOTHERMIC PEAK	HARDNESS	PROPORTION
IP IMPREGNATION (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	1h 30 at 20°C	Medium	80°C	76 Shore D	2.5% catalyst

\* depends on the volume



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

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

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



Red  
Ref. 04184



Blue  
Ref. 04185



Yellow  
Ref. 04186

# RESINS

## OPAQUE

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-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-CO RESIN

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

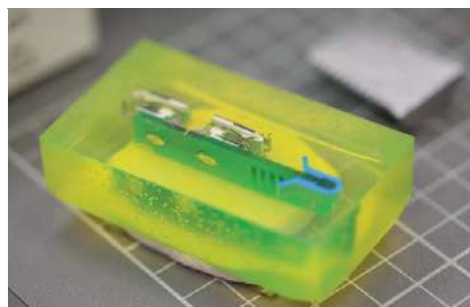
## KM-BACK RESIN

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

\* Packs of KM-U / KM-B / KM-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





# 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.



### Clean

The silicon base is totally airtight.



### So simple

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



### Respecting the environment

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



### 100% transparent

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



## 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	Téflon Ø 50 mm



## RUBBER SILICONE

Box of 5.  
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



## MOUNT RELEASE SPRAY

Just spray into the cold-mounting molds.

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

\* Non-disruptive mold release spray.



## 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
53605	Set of 50 protective sheets
53606	Set of 50 flexible hoses and plastic connectors



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



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



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



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



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



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



Box of 50 holding clips "six slots"  
Ref. 04114

HOT MOUNTING

# MECAPRESS 4

THE HOT MOUNTING PRESS

**REF. 53800**

MECAPRESS 4 is a fully automatic hot mounting press. Easy to use, it combines the features of a highly precise machine: process memorization and adjustment, customization, and fast operation. MECAPRESS 4 also enables a significant reduction in water consumption. A flexible, powerful machine.



543mm



314mm



526mm



55kg



## FEATURES

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/16A
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)	✓
Dust extraction system	✓



Mounting mould MECAPRESS 4



Colour touch screen

## ACCESSORIES

### MOULD SETS FOR MECAPRESS 4



**Mould set  
Ø 25mm - On request**  
Ref. 53999

**Mould set  
Ø 25.4mm**  
Ref. 53810

**Mould set  
Ø 30mm**  
Ref. 53811

**Mould set  
Ø 31.7mm**  
Ref. 83812

**Mould set  
Ø 38.1mm**  
Ref. 53813

**Mould set  
Ø 40mm**  
Ref. 53814

**Mould set  
Ø 50mm**  
Ref. 53815

### INTERMEDIATE RAMS

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



**Intermediate rams  
Ø 25mm - On request**  
Ref. 53999

**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 (551)**

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. 53145

#### **Coolant tank for MECAPRESS**

Ref. 53150



#### **Ultra-silent air compressor, 24L tank.**

**Dimensions (WxDxH):  
400x400x600mm**

Ref. 67750



#### **Refill cartridge for anti chalk system MECAPRESS**

Ref. 53521



#### **Vacuum unit for MECAPRESS**

Ref. 53140

HOT MOUNTING

# MECAPRESS 5

## THE HOT MOUNTING PRESS

**REF. 53100**

MECAPRESS 5 is a modular hydraulic hot mounting press. Versatile and powerful, it enables the production of high-quality, customized mounts thanks to automatic mould recognition. MECAPRESS 5 can accommodate up to two additional mounting modules, allowing a large number of samples to be processed daily. Mounting time is significantly reduced with the latest-generation molds.

CE



565mm



525mm



475mm



80kg



## FEATURES

Automatic cycle	✓
Fast cycle time	✓
Temperature setting	from 20 to 220°C, by step of 1°C
Heating time setting	from 1 to 999 seconds by step of 1 second
Cooling time setting	from 30 to 999 seconds by step of 1 second
Cooling mode setting	✓
Pressure setting	from 10 to 300 bars
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	2500W (base) 4500W (base + 1 mounting unit) 6500W (base + 2 mounting units)
Electrical input	230 V/50 - 60 Hz/16 A for the base and each mounting unit
Air connector diameter (input and output)	Ø 12mm
Anti chalk system (Ref. 53520)	✓
Additional Mounting units	Up to 2
Dust extraction system	✓



Base + 1 mounting unit



Base + 2 mounting units

## ACCESSORIES

### MOULD SETS FOR MECAPRESS 5



**Mould set Ø 25mm**  
On request  
Ref. 5399

**Mould set Ø 25.4mm**  
Ref. 53120

**Mould set Ø 30mm**  
Ref. 53121

**Mould set Ø 31.7mm**  
Ref. 53122

**Mould set Ø 38.1mm**  
Ref. 53123

**Mould set Ø 40mm**  
Ref. 53124

**Mould set Ø 50mm**  
Ref. 53125

### INTERMEDIATE RAMS

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



**Intermediate rams Ø 25mm**  
On request  
Ref. 53999

**Intermediate rams Ø 25.4mm**  
Ref. 53130

**Intermediate rams Ø 30mm**  
Ref. 53131

**Intermediate rams Ø 31.7mm**  
Ref. 53132

**Intermediate rams Ø 38.1mm**  
Ref. 53133

**Intermediate rams Ø 40mm**  
Ref. 53134

**Intermediate rams Ø 50mm**  
Ref. 53135

### ADDITIONAL MODULES



**Mounting unit MECAPRESS 5**  
Ref. 53110

### OTHER ACCESSORIES



**Stainless steel recirculation tank and pump system (551)**

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. 53145

**Coolant tank for MECAPRESS**

Ref. 53150



**Refill cartridge for anti chalk system MECAPRESS**

Ref. 53521



**Vacuum unit for MECAPRESS**

Ref. 53140



# 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
THERMOWOOD	NEW	Standard inspection of all materials	Low	91 Shore D	-	Brown
PHENOLIC		Standard inspection 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		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	Drum 20kg	Black Phenolic
03002	Pack 2.5kg	Green Phenolic
03102	Pack 10kg	Green Phenolic
03151	Drum 20kg	Green Phenolic
03003	Pack 2.5kg	Red Phenolic
03103	Pack 10kg	Red Phenolic
03152	Drum 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 fiber glass
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

## THERMOWOOD RESIN

NEW

REF.	DESIGNATION	
03104	Pack 5kg	Thermowood
03158	Drum 20kg	Thermowood

# THERMOWOOD

## A BIO-SOURCED RESIN

This resin provides an eco-friendly and high-performance solution for various metallographic applications.

### Plant-based

This biopolymer reduces dependence on fossil resources.

### Biodegradable

This resin perfectly fits within an eco-responsible approach.

## 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.





## 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**

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**FILTER SOLUTIONS**

### ADAPTATION DEVICES



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### GRINDING



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### GRINDING CONSUMABLES



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**MECAPLAN  
350**

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**MECATECH  
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**MECATECH**

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**MECATECH  
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**ELECTER**

**POLISHING  
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**POLISHING  
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**DIAMOND  
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**DIAMOND  
CONSUMABLES**



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**SUPER-  
FINISHING  
POLISHING**



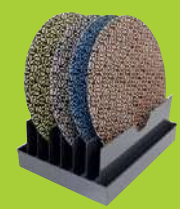
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**REAGENTS**



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**SMALL  
LABORATORY  
EQUIPMENT**



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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.

CE



700mm (hood open)  
372mm (hood closed)



398mm



420mm



25kg

Download LE CUBE technical  
sheet



## FEATURES

Diameter of the polishing platen	200 or 250mm
Rotation speed	150 & 300 RPM
Direction of rotation	Clockwise and counter-clockwise
Multi jet water spray	✓
Removable polishing platen	✓
Nominal power S1	90W
Nominal power S3	180W
Frequency inverter	✓
High-torque motor	✓
Speed and torque compensation	✓
Immediate stop of the platen (safety)	✓
Progressive acceleration	✓
Transparent protection hood	✓
Splash guard	✓
Simple to maintain and service	✓
Power supply	230V / 50-60Hz
Water inlet	Designed for a hose with inside Ø 12mm (not supplied)
Water outlet	Delivered with a hose with outside Ø 25mm



LE CUBE - hood closed

## 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 ACCESSORY



**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.

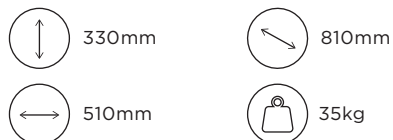


Download MINITECH technical sheet



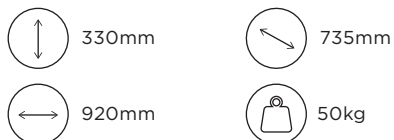
## PLATEN DIAMETERS: 200 TO 250MM

**MINITECH 250 SP1**  
REF. 66400



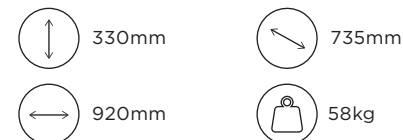
- 1 platen
- 1 motor
- 1 watering ramp
- 1 removable bowl

**MINITECH 250 DP1**  
REF. 66410



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

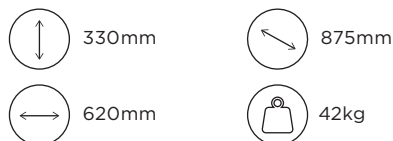
**MINITECH 250 DP2**  
REF. 66420



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

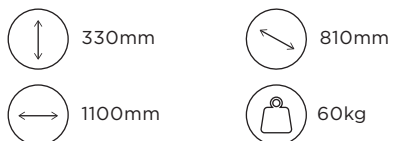
## PLATEN DIAMETERS: 250 TO 300MM

**MINITECH 300 SP1**  
REF. 66430



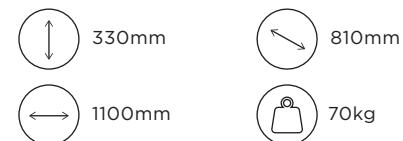
- 1 platen
- 1 motor
- 1 watering ramp
- 1 removable bowl

**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

## FEATURES 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 torque motor	✓	✓	✓	✓	✓	✓
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

620mm	420mm	420mm	12kg
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### 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
--------------------	--------------------------------------

625mm	600mm	400mm	16kg
-------	-------	-------	------

## 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

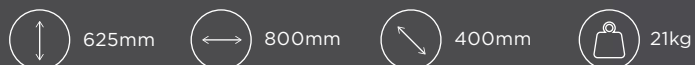
Capacity	60L
Materials	Polyvinyl chloride
Handling	4 wheels
Filter type	Cylindrical pre-filter Ø 260mm - Filtration 30µm Cartridge - Filter 5µm
Tank delivered with	1 single-phase 230V pump with power cable 1 washable cylindrical pre-filter Ø 260 - Filtration 30µm 1 filter cartridge - Filtration 5µm 1 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.



Polishing head



Large colour touch screen



Dressing diamond and touch sensor



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



806mm



1240mm



500kg

Download MECAPLAN 350  
technical sheet



## FEATURES

Diameter of the grinding wheel	356mm
Rotation speed	1000 to 2000 RPM
Rotation direction	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
Tank 55L	✓
Maintenance alert module	✓
Anti-Rust additive concentration control	✓
Number of dressing modes	6

## 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	✓

## ACCESSORIES

### MACHINE ACCESSORIES

#### CLAMPING VICES

54213 Clamping vice Ø 170mm For specimen holder Ø 170mm

54214 Clamping vice Ø 210mm For specimen holder Ø 210mm



**Diamond for dressing**  
Ref. 01054



**Suction & extraction**  
Ref. 51260

All information regarding specimen holders on page 99



### GRINDING WHEEL

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



**Grinding wheel**  
Abrasive Al<sub>2</sub>O<sub>3</sub>

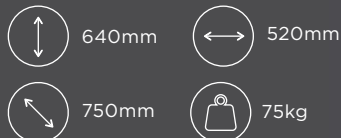
## POLISHING

# 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.



## FEATURES

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.

CE



Download the MECATECH  
technical sheet



## PLATEN DIAMETERS: 200 TO 250MM

**MECATECH 250 SPI**  
REF. 67910



- 1 platen - 6 pistons
- Individual pressure

**MECATECH 250 SPC**  
REF. 67920



- 1 platen - 6 pistons
- Central and Individual pressure

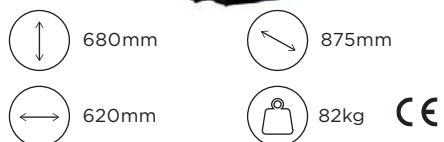
**MECATECH 250 DPC**  
REF. 67930



- 2 platens - 6 pistons
- Central and Individual pressure

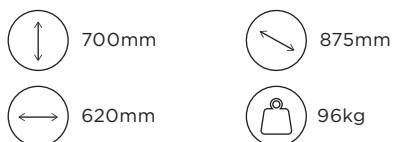
## PLATEN DIAMETERS: 250 TO 300MM

**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



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.



## FEATURES

MACHINES	250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
Number of motors	1	1	2	1	1
Number of polishing platens	1	1	2	1	1
Diameter of the polishing platen	200 to 250mm	200 to 250mm	200 to 250mm x 2	250 to 300mm	300mm
Rotation speed	20 to 700 RPM	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	30daN	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
<b>SPECIMEN HOLDERS FOR CENTRAL PRESSURE POLISHING</b>							
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		-	✓	✓	✓	✓

<b>SPECIMEN HOLDERS FOR INDIVIDUAL PRESSURE POLISHING</b>							
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	-	-	-	-	✓

<b>REDUCTION RINGS FOR SPECIMEN HOLDERS</b>							
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 140mm for 3 samples Ø 30 to 40mm**  
Ref. 57125



**Specimen holder Ø 160mm for 6 samples Ø 25 to 32mm**  
Ref. 57102  
**Specimen holder Ø 140mm for 6 samples Ø 25 to 32mm**  
Ref. 57126



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



**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 160mm for 6 samples Ø 40mm**  
Ref. 67833  
**Specimen holder Ø 170mm for 6 samples Ø 50mm**  
Ref. 67835



**Specimen holder Ø 200mm for 8 samples Ø 50mm**  
Ref. 67836  
**Specimen holder Ø 180mm for 8 samples Ø 30mm**  
Ref. 67838



**Special individual pressure plate for thin sections**

## REDUCTION RINGS FOR SPECIMEN HOLDERS



## SPECIFIC HOLDERS ON REQUEST

# 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 with a Ø305mm platen.

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



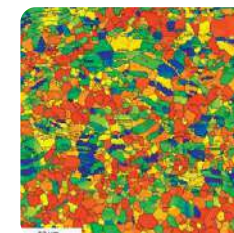
554mm



90kg



Vibrotech 300  
closed hood



EBSD mapping

Download the VIBROTECH 300  
technical sheet



## FEATURES

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	519W
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	✓

## SAMPLE HOLDER

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



## SAMPLE HOLDER + LEVELLING PLATE

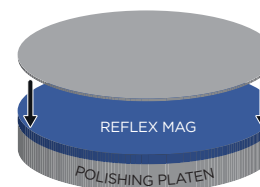
REF.	Ø
68110	Ø 25mm
68111	Ø 25.4mm
68112	Ø 30mm
68113	Ø 31.7mm
68114	Ø 38.1mm
68115	Ø 40mm
68116	Ø 50mm



## ACCESSORIES



**Polishing bowl**  
Ref. 68105



**Reflex MAG Ø 300mm  
for VIBROTECH**  
Ref. 24055



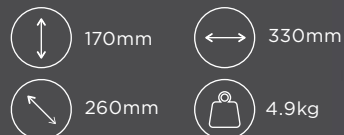
POLISHING

# 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.



## 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



Reinforced transport case

## COMPLEMENTARY EQUIPMENTS



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



Ø 3 clamp for HG 200  
Ref. 90060



HG 200 Straight end piece HG 200  
Ref. 90052



KC 300 45° angle end piece  
Ref. 90056



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



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

# ULTRASONIC CLEANER

Ultrasonic cleaning is currently the most commonly used cleaning method. The main advantage is that it allows for extremely high quality results, in a very short amount of time, without any manual work afterwards, and without any damage to the samples. This cleaning technique is applied immediately after the polishing of samples. Tanks are supplied with their lids.

## FEATURES

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		





# 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



**Easier processes**



**Flexibility of use**



**Time saving**



**No tedious removal of adhered surfaces**

## REFLEX CONCEPT

AN IDEA OFTEN COPIED, NEVER EQUALLED.

European patent n° EP 1504846



1

**Stick**

the Reflex FIX to the polishing platen.



2

**Put**

your consumable on the Reflex FIX. It is fixed!



3

**Remove**

your consumable by simply lifting it.

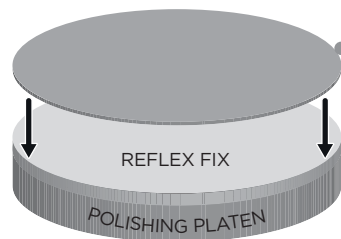
Download the Reflex Fix technical sheet



# ADAPTATION DEVICES

These devices enable adaptation across all manufacturer machines and consumables.

## REFLEX FIX



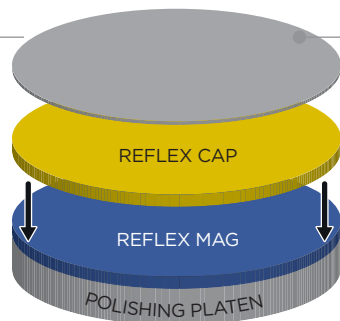
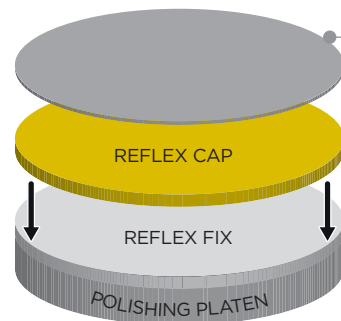
### Consumables adapted to Reflex FIX:

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

REF.	DESIGNATION	Ø
24030	1 Reflex Fix support	Ø 200mm
24031	1 Reflex Fix support	Ø 230mm
24032	1 Reflex Fix support	Ø 250mm
24033	1 Reflex Fix support	Ø 300mm
24034	1 Reflex Fix support	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
<b>Box of 5 discs</b>		
24040	Reflex CAP	Ø 200mm
24042	Reflex CAP	Ø 250mm
24043	Reflex CAP	Ø 300mm

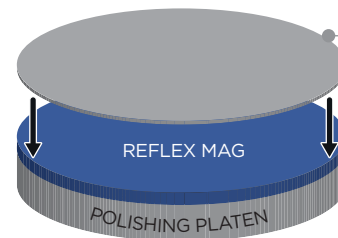
## Non-adhesive device AD/AC

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
<b>Box of 5 discs</b>		
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.



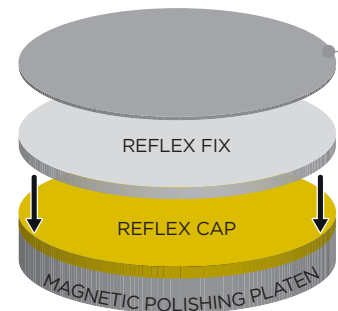
### Consumables adapted to Reflex MAG:

- 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.



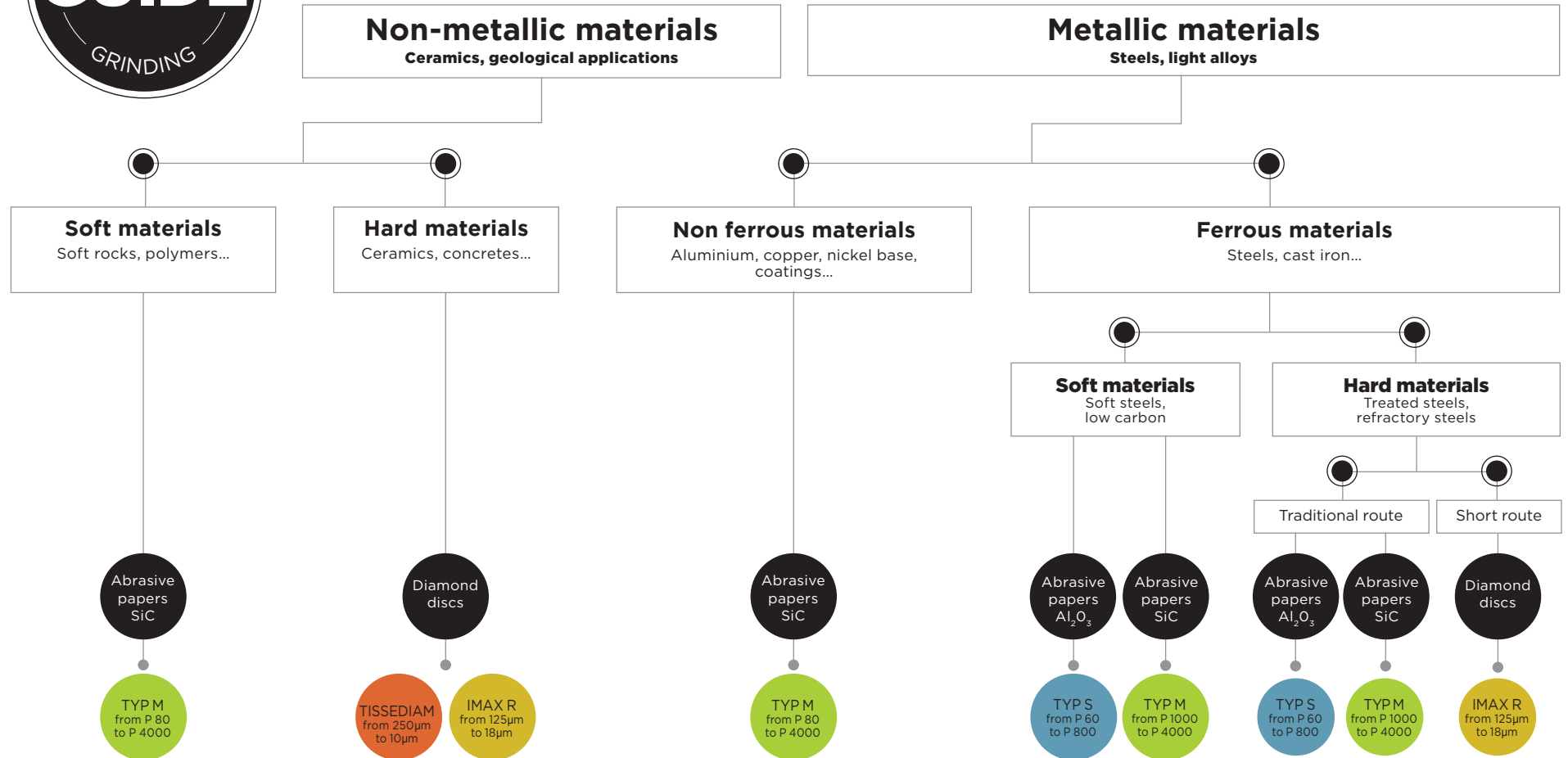
### Consumables adapted to Reflex FIX:

- 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.



Al<sub>2</sub>O<sub>3</sub> abrasive, except P1000, P1200, P2400 and P4000.



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

## Standards and equivalents

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



# GRINDING

## I-MAX R

New diamond discs with resin binder, designed and manufactured by PRESI, 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.	DESIGNATION	GRIT	Ø
24067	Reflex I-Max R	Grey 18µ	200mm
24069	Reflex I-Max R	Grey 18µ	250mm
24070	Reflex I-Max R	Grey 18µ	300mm
24072	Reflex I-Max R	Yellow 54µ	Ø 200mm
24074	Reflex I-Max R	Yellow 54µ	Ø 250mm
24075	Reflex I-Max R	Yellow 54µ	Ø 300mm
24077	Reflex I-Max R	Red 75µ	Ø 200mm
24079	Reflex I-Max R	Red 75µ	Ø 250mm
24080	Reflex I-Max R	Red 75µ	Ø 300mm
24082	Reflex I-Max R	Blue 125µ	Ø 200mm
24084	Reflex I-Max R	Blue 125µ	Ø 250mm
24085	Reflex I-Max R	Blue 125µ	Ø 300mm



Dressing stick for 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%.

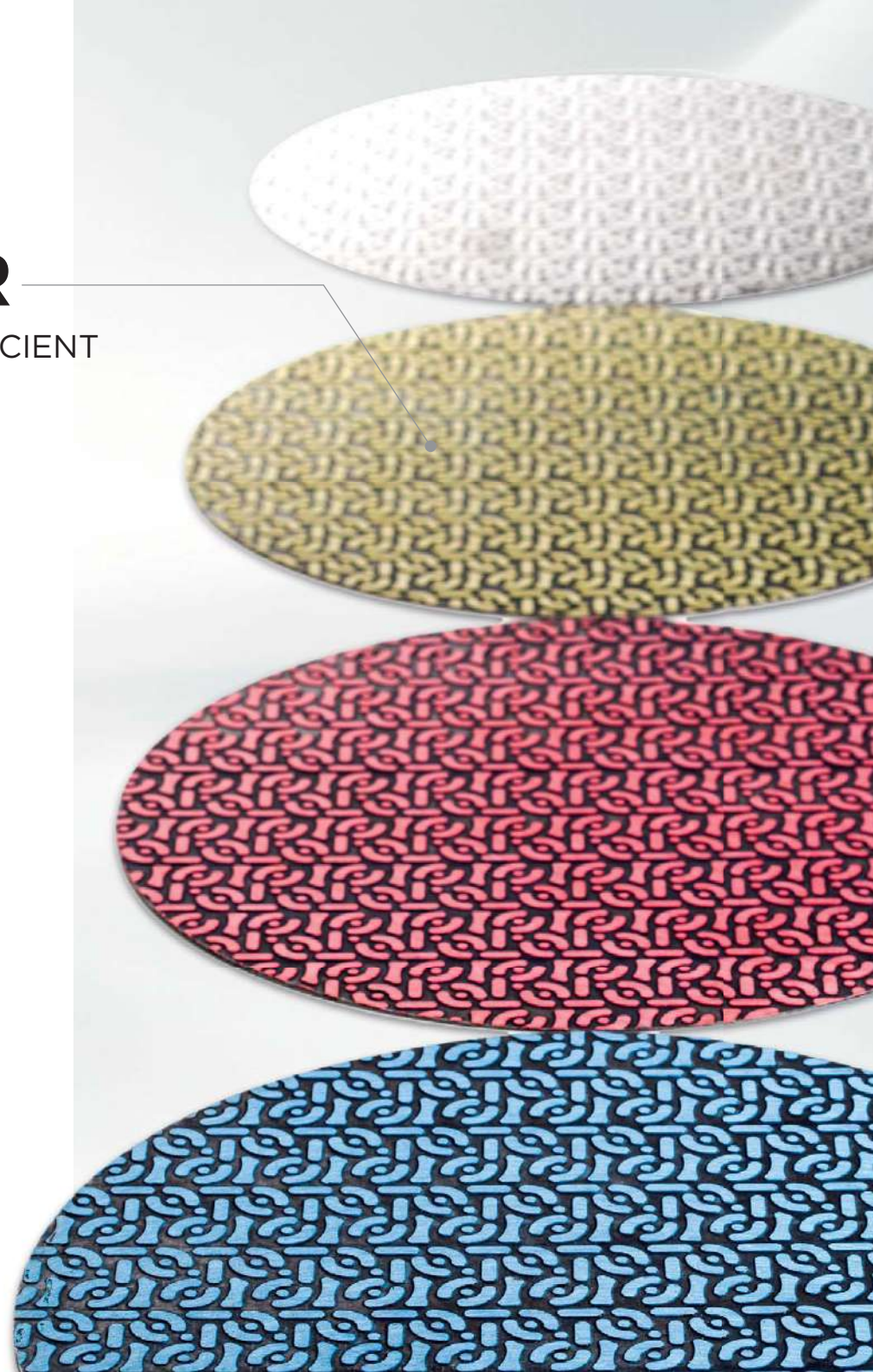


**Economical**  
**1 I-MAX R**  
**= + 500**  
**abrase papers\***

\* 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. 107).

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

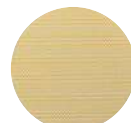
R = resin bond  
M = metallic bond



Blue



Grey



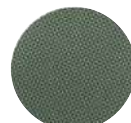
Yellow



Red



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	GRAIN
19015	Pack of 10 dressing sticks for Tissediam	220
19014	Pack of 10 dressing sticks for IMAX-R	



Dressing sticks

# ABRASIVES FOR LAPPING

## SILICON CARBIDE POWDER\*

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

\* Other abrasives and grain sizes: contact us.



Silicon Carbide

## BORON CARBIDE POWDER\*

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

\* Other abrasives and grain sizes: contact us.



Boron Carbide

## ALUMINA OXIDE POWDER\*

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

\* Other abrasives and grain sizes: contact us.



Alumina oxide

## LAPPING OIL

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

REF.	DESIGNATION
12040	Bottle 1l
12042	Drum 10l

## LAPPING LUBRICANT

Water soluble lubricant.

REF.	DESIGNATION
12041	Bottle 10l
12043	Drum 10l

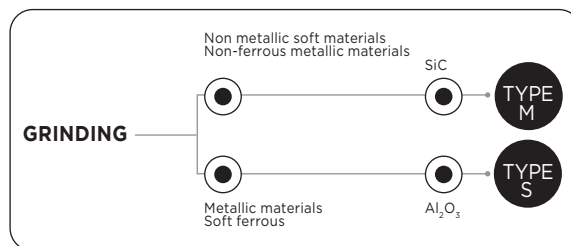


Lapping lubricant

**DIAMOND POWDERS**  
Contact us.

# ABRASIVE PAPERS

## Ø 200MM



### NON-ADHESIVE

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

### ADHESIVE

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

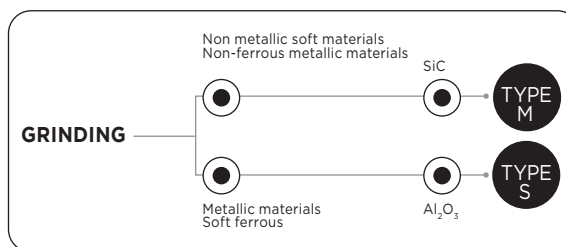
### REFLEX NAC



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

# ABRASIVE PAPERS

## Ø 250MM



### NON-ADHESIVE

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

### ADHESIVE

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

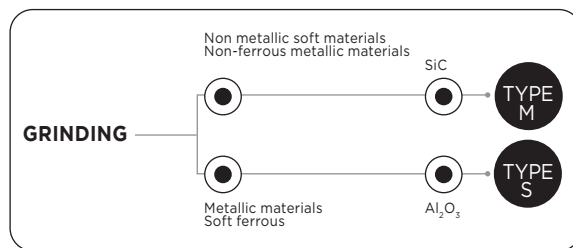
### REFLEX NAC

**Reflex**  
CONCEPT

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

# ABRASIVE PAPERS

## Ø 300MM



### NON-ADHESIVE

REF.	DESIGNATION	GRIT
<b>Box of 100</b>		
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
13083	Type M	P 2500
13157	Type M	P 4000
<b>Box of 25</b>		
13300	Type S	P 100
13301	Type S	P 120
13302	Type S	P 180
13309	Type S	P 240
13303	Type S	P 320
13304	Type S	P 400
13305	Type S	P 600
13306	Type S	P 800
13307	Type M	P 1000
13308	Type M	P 1200
13330	Type M	P 2400
13088	Type M	P 2500
13331	Type M	P 4000

### ADHESIVE

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

### REFLEX NAC

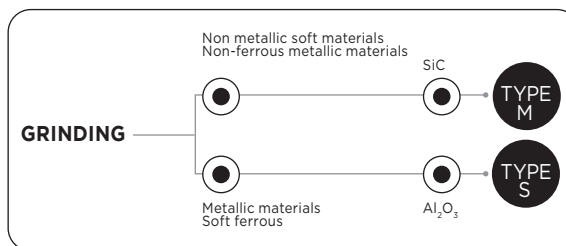


REF.	DESIGNATION	GRIT
<b>Box of 100</b>		
24545	Type S	P 60
24546	Type S	P 100
24547	Type S	P 120
24548	Type S	P 180
24549	Type S	P 240
24550	Type S	P 320
24551	Type S	P 400
24552	Type S	P 600
24553	Type S	P 800
24605	Type M	P 80
24606	Type M	P 120
24607	Type M	P 180
24608	Type M	P 240
24609	Type M	P 320
24610	Type M	P 400
24611	Type M	P 600
24612	Type M	P 800
24613	Type M	P 1000
24614	Type M	P 1200
24556	Type M	P 2400
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
<b>Box of 100</b>		
13110	Type S	P 100
13111	Type S	P 120
13112	Type S	P 180
13113	Type S	P 240
13114	Type S	P 320
13115	Type S	P 400
13116	Type S	P 600
13117	Type S	P 800
13410	Type M	P 80
13411	Type M	P 120
13412	Type M	P 180
13413	Type M	P 240
13414	Type M	P 320
13415	Type M	P 400
13416	Type M	P 600
13417	Type M	P 800
13418	Type M	P 1000
13419	Type M	P 1200
13152	Type M	P 2400
13081	Type M	P 2500
13153	Type M	P 4000
<b>Box of 25</b>		
13230	Type S	P 100
13231	Type S	P 120
13232	Type S	P 180
13239	Type S	P 240
13233	Type S	P 320
13234	Type S	P 400
13235	Type S	P 600
13236	Type S	P 800
13237	Type M	P 1000
13238	Type M	P 1200
13240	Type M	P 2400
13086	Type M	P 2500
13241	Type M	P 4000

### REFLEX NAC Ø 230MM



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

### NON-ADHESIVE Ø 305MM

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

### ADHESIVE Ø 400MM

REF.	DESIGNATION	GRIT
<b>Box of 25</b>		
14410	Type S	P 60
14400	Type S	P 100
14401	Type S	P 120
14402	Type S	P 180
14409	Type S	P 240
14403	Type S	P 320
14404	Type S	P 400
14405	Type S	P 600
14406	Type S	P 800
14407	Type M	P 1000
14408	Type M	P 1200
14411	Type M	P 2400
14413	Type M	P 2500
14412	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 PAD MAG VERSION
MED R		Resinoids studs	Levelling of all types of materials	Polycrystalline super abrasive product / Diamond product	15 to 6 $\mu$		Ref. 24087: Ø 200mm Ref. 24089: Ø 250mm Ref. 24090: Ø 300mm
TOP		Plasticised acetate silk taffeta	Levelling of all types of materials	Diamond products	15 to 6 $\mu$	Ref. 16214: Ø 200mm Ref. 16264: Ø 250mm Ref. 16314: Ø 300 mm	Ref. 24161: Ø 200mm Ref. 24191: Ø 250mm Ref. 24206: Ø 300mm
RAM II		Acetate silk satin, plasticised and glued to a semi-rigid support	Soft materials	Diamond products	9 to 6 $\mu$	Ref. 16211: Ø 200mm Ref. 16261: Ø 250mm Ref. 16311: Ø 300mm	Ref. 24162: Ø 200mm Ref. 24192: Ø 250mm Ref. 24219: Ø 300mm









## ROUGH-FINISHING CLOTHS





NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	METALLIC BACK-SIDE PAD MAG VERSION
RAM		Acetate silk satin, plasticised and glued to a semi-rigid support	Polishing and finishing with excellent flatness. Inclusion retention-All materials	Diamond products	3 to 1 $\mu$	Ref. 16216: 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 $\mu$	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 $\mu$	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 $\mu$ 2.5 $\mu$ (cerium) 0.3 $\mu$ (alumina)	Ref. 16215: Ø 200mm Ref. 16265: Ø 250mm Ref. 16309: Ø 300mm	Ref. 24168: Ø 200mm Ref. 24198: Ø 250mm Ref. 24213: Ø 300mm



## FINISHING CLOTHS

NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	METALLIC BACK-SIDE PAD MAG VERSION
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 PAD MAG VERSION
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 cloth
- + more resistant than a polishing cloth

⦿ Higher removal rate

⊖ Improved 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

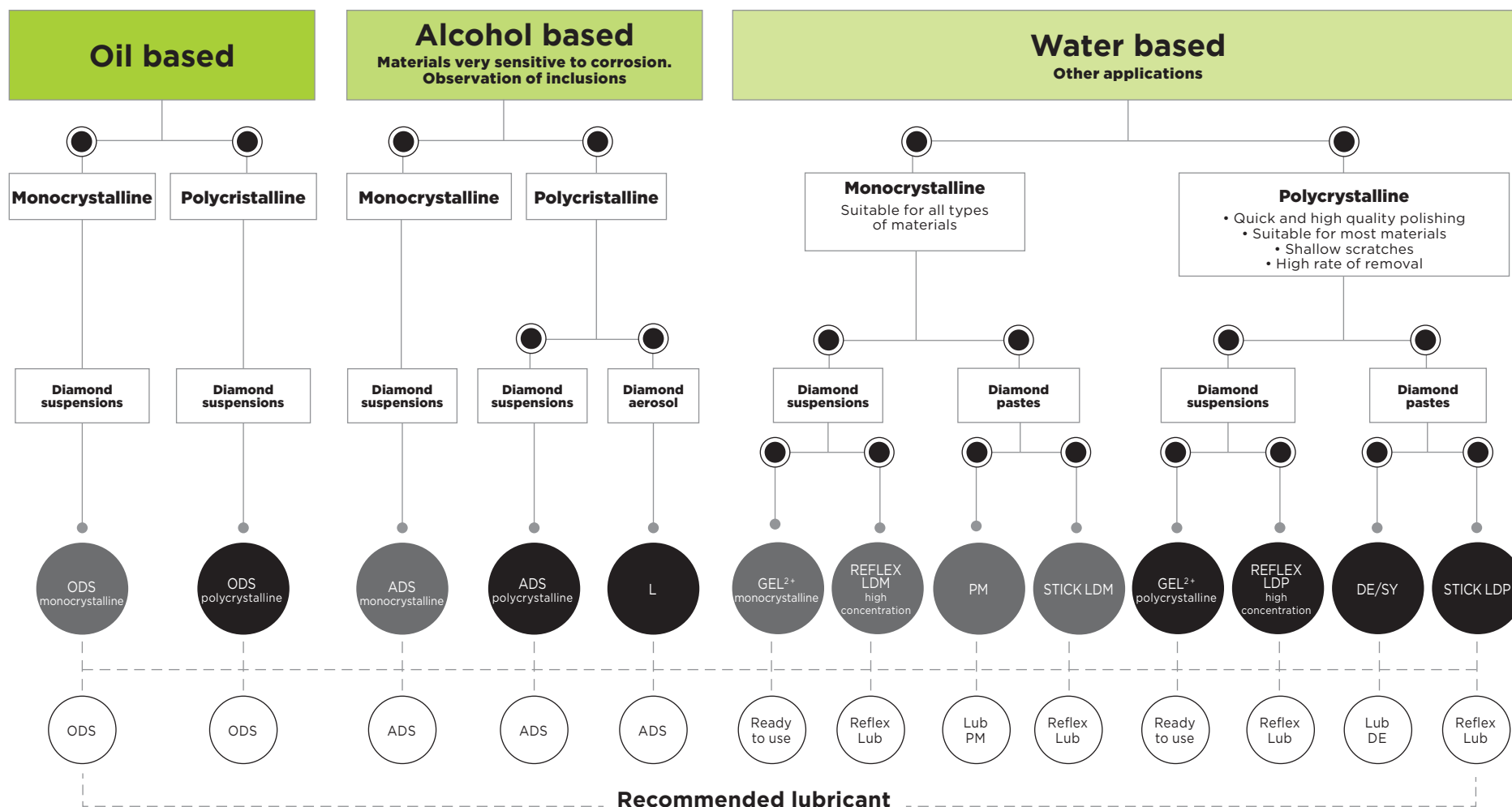
Box of 5.

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 products 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



Monocrystalline & Polycrystalline  
from 1/4μ to 15μ

## 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

## GEL<sup>2+</sup> MONOCRYSTALLINE

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

REF.	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	3μ
24304	1l Bottle*	6μ
24318	2.5l Drum	6μ
24305	1l Bottle*	9μ
24319	2.5l Drum	9μ
24306	1l Bottle*	15μ
24320	2.5l Drum	15μ

\* Comes in a spray bottle

## SPRAYS

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



Sprays 500 CC



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

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

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

## GEL<sup>2+</sup> 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*	1/4 μ
24321	2.5l Drum	1/4 μ
24310	1l Bottle*	1 μ
24322	2.5l Drum	1 μ
24311	1l Bottle*	3 μ
24323	2.5l Drum	3 μ
24312	1l Bottle*	6 μ
24324	2.5l Drum	6 μ
24313	1l Bottle*	9 μ
24325	2.5l Drum	9 μ
24314	1l Bottle*	15 μ
24326	2.5l Drum	15 μ

\* 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	3μ
06022	10g syringe	3μ
06023	5g syringe	6μ
06024	10g syringe	6μ
06025	5g syringe	9μ
06026	10g syringe	9μ
06027	5g syringe	15μ
06028	10g syringe	15μ
06029	5g syringe	30μ
06030	10g syringe	30μ
06031	5g syringe	45μ
06032	10g syringe	45μ

### LUBRICANTS

REF.	DESIGNATION	TYPE	COLOR
10005	1l Bottle	DE	Pink
10020	10l Drum	DE	Pink
10006	1l Bottle	PM	Orange
10021	10l Drum	PM	Orange
10013	1l Bottle	ADS	Transparent
10025	10l Drum	ADS	Transparent
24270	1l Bottle*	Reflex Lub	Green
24271	10l Drum	Reflex Lub	Green
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
<b>Bottle of 1l</b>		
11004	N° 1 (48h)	0.04μ
11005	N° 2 (24h)	0.3μ
11006	N° 3 (12h)	0.8μ
11007	N° 4 (6h)	1μ

## SPM (COLLOIDAL SILICA) NON CRYSTALLISING

New SPM non crystallising 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
<b>Bottle of 1l</b>		
11012	N° 3	0-0.3μ
11011	N° 2	0-0.7μ
11010	N° 1	0-1μ

## SPM (COLLOIDAL SILICA)

SPM suspension is 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
<b>Box of 1 kg</b>	
11001	Type 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

# ELECTROLYTIC POLISHING

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

## ELECTROLYTES FOR ELLOPOL TYPE PORTABLE DEVICE

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

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

\* Subject to customs regulations 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 tartaric acid	Aluminium alloys, cobalt alloys
	Electrolyte D 14 2/2	60ml perchloric acid	
17104	Electrolyte D 15 1/2*	1l Ethanol + 100g sodium thiocyanate + 100g citric acid	Cast iron, magnesium and magnesium alloys, high-alloys steels
	Electrolyte D 15 2/2	15ml perchloric acid	
17106	Electrolyte D 31 1/2	500ml water + 250ml orthophosphoric acid + 250ml ethyl alcohol	Copper, cobalt alloys, brass
	Electrolyte D 31 2/2	50ml isopropanol + 5g urea	
17107	Electrolyte D 61*	800ml Ethanol + 160g sodium thiocyanate + 80ml butyl glycol	Zinc and zinc alloys, magnesium and magnesium alloys
17108	Electrolyte D 62 1/2*	900ml Ethanol + 300g copper nitrate	Copper alloys, bronze, brass
	Electrolyte D 62 2/2	30ml nitric acid	
17110	Electrolyte D 71 1/2	1l water	Tungsten
	Electrolyte D 71 2/2	200g sodium hydroxide	

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

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

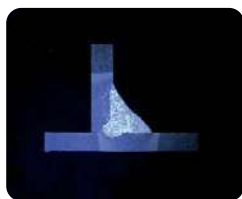
REF. 100ML	REF. 1L	DESIGNATION	FORMULA	ETCHANT	USE
17234	17235	Villela etchant*	5ml HCl + 1g Picric acid + 100ml Ethanol	Micro	Austenitic stainless steels - Revealing of grain, tool steels, martensitic stainless steels
17285	17286	V2A etchant	100ml H <sub>2</sub> O + 100ml HCl + 10ml HNO <sub>3</sub>	Micro	Stainless steels - Size of grain (Attack between 50 and 60°C)
17322	17320	Catella etchant*	2g Picric acid 2g + 6g CH <sub>3</sub> COOH + 10g HCl + 100g ethanol	Micro	Treated martensitic stainless steels - Revealing the structure and grains
17236	17237	Barker etchant	5g HBF <sub>4</sub> + 200ml H <sub>2</sub> O	Micro	Aluminium - Revealing of structure/grains
17238	17239	Keller etchant	2ml HF + 3ml HCl + 5ml HNO <sub>3</sub> + 190ml H <sub>2</sub> O	Micro	Aluminium - Revealing of structure
17271	17272	5% HF solution in distilled water	Aqueous solution - 5% HF	Micro	Aluminium - Microstructures of brazed aluminium seals (Observation of dissolution phenomena)
17326	17325	Graff & Sargent's etchant	3g CrO <sub>3</sub> + 15.5ml HNO <sub>3</sub> + 0.5ml HF + 84ml H <sub>2</sub> 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
17275	17276	10% sodium solution	Aqueous solution - 10% NaOH	Macro	Aluminium alloys, weld
17240	17241	Potassium dichromate	1g K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> + 4ml H <sub>2</sub> SO <sub>4</sub> + 50ml H <sub>2</sub> O	Micro	Cuivre - révélation des grains
17277	17278	Alcohol solution of iron chloride III acid	5g de FeCl <sub>3</sub> + 5ml d'HCl + 95ml Ethanol	Micro	Copper - Revealing of grain
17246	17247	INVAR / KOVAR	400ml HCl + 8g CuCl <sub>2</sub> + 400ml H <sub>2</sub> O + 800ml Methanol + 28g FeCl <sub>3</sub> + 20ml HNO <sub>3</sub>	Micro	Invar - Kovar
17324	17323	Weck etchant*	2g NH <sub>4</sub> HF <sub>2</sub> + 25ml ethanol + 100ml H <sub>2</sub> O	Micro / Macro	Titanium / Aluminium - Weld Structure and Development
17242	17243	Kroll etchant	3ml HF + 6ml HNO <sub>3</sub> + 100ml H <sub>2</sub> O	Micro	Titanium - Revealing of structure Titanium alloys primarily alloys Ti-Al-V-(Sn)
17279	17280	Adler etchant	25ml water + 3g [(NH <sub>4</sub> ) <sub>2</sub> CuCl <sub>4</sub> , 2 H <sub>2</sub> O] + 50ml HCl + 15g FeCl <sub>3</sub>	Micro/Macro	Attack of Inconel Superalloys Corrosion resistant steels Cobalt and nickel alloys

\* 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



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

## WIPING - CLEANING - DRYING - PROTECTING

REF.	DESIGNATION
<b>Oil-based cleaner</b>	
17997	5L drum technical acetone
17281	5L drum denatured ethanol
17282	10L drum denatured ethanol
<b>Water-based cleaner</b>	
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)

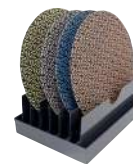
## ACCESSORIES FOR OPTICS (MICROSCOPE)

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

## ACCESSORIES



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



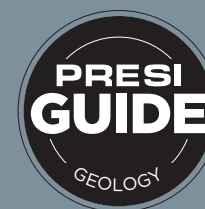
# GEOLOGY

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.

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**THIN SECTION  
PREPARATION**

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**MECATOME  
T265**

**GEOPRESS**



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**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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**MINITECH**

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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**



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**MICROSCOPES**

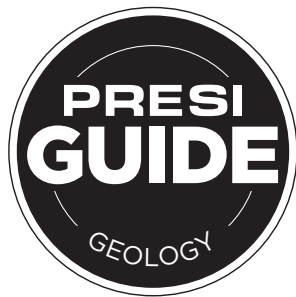


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**EVERYTHING YOU NEED  
FOR PETROGRAPHY**



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# 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.



## 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



All their technical characteristics p.34 et p.38



## THINING

# 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.



Discover them in detail p.62



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



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



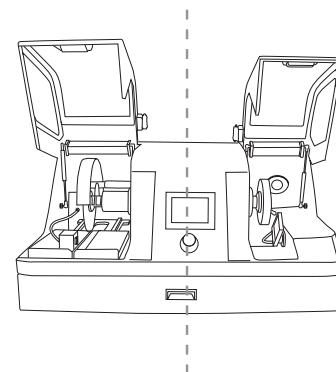
170kg



## CUT • SHAPE • THIN

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

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.



## FEATURES

### 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	Cutting: wheel guard
Cooling	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

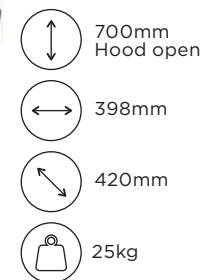
SPACE-SAVING EASY  
TO USE ROBUST

**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.



Full information p.84



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



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

# 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.



All MINITECH models p.86



**Minitech 250 SP1**  
Ref. 66400



**Minitech 250 DP1**  
Ref. 66410



**Minitech 250 DP2**  
Ref. 66420



**Minitech 300 SP1**  
Ref. 66430



**Minitech 300 DP1**  
Ref. 66440



**Minitech 300 DP2**  
Ref. 66450

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.



More information about the  
Mecatech 300 SPC p.96



700mm  
Hood open

620mm

875mm

82kg

# MECATECH 334 SPC

REF. 67960

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



More information about the  
Mecatech 334 SPC p.94



640mm

520mm

750mm

75kg



Precise holder  
for thin section  
30x45mm  
Ref. 62862



Specimen holder for  
individual pressure  
for 6 thin sections  
30x45mm  
Ref. 62851



Specimen holder  
for precise holder  
Ref. 62861



Specimen holder  
for double contact  
holder for thin section  
30x45mm  
Ref. 62872 - 62873

Contact us for more information

GLUING

# GEOPRESS

PROGRAMMABLE  
ADJUSTABLE  
TEMPERATURE

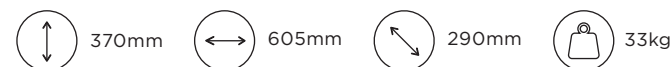
REF. 62820

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.



## FEATURES

Number of samples	20 sections 30x45 or 10 sections 60x45
Size of heating plate	130x500mm
Weight-block weight	600g
Heating power	750 W
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.71



# 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.71



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.



## 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 lenght	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, for lapping, polishing cloths, diamond suspensions.



## CUT-OFF WHEEL



**Diamond LM**  
See p. 64

## GLASS SLIDES

Box of 100

**30x45 x 1.65mm**  
Ref. 19023

**45x60 x 1.9mm**  
Ref. 19024

**60x90 x 1.9mm**  
Ref. 19025

## ABRASIVE FOR LAPPING



**Silicon Carbide**  
See p. 111



**Alumina Oxide**  
See p. 111

## 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

## DIAMOND SUSPENSIONS



**Monocrystalline & Polycrystalline from 1/4µ to 15µ**  
Also available in oil and alcohol base  
See p. 121

## DIAMOND STICKS



**Monocrystalline & Polycrystalline from 1/4µ to 25µ**  
See p. 123

## DIAMOND PASTES



**Monocrystalline & Polycrystalline from 1/4µ to 45µ**  
See p. 123

## POLISHING CLOTHS



**TOP cloth Ø 300mm**  
See p. 119



**RAM cloth Ø 300mm**



**NT cloth Ø 300mm**



**SUPRA cloth Ø 300mm**

## DIAMOND DISCS



**I-MAX R from 18µ to 125µ**  
See p. 109



**Tissediam from 10µ to 250µ**  
See p. 110



**Abrasive paper type M**  
See p. 112

## OTHER CONSUMABLES

**Bottle 1kg resin IP Impregnation**  
Ref. 04200

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

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



## CHARACTERIZATION

# OPTICAL

At the end of metallographic preparation comes the characterization stage, with macroscopic and microscopic inspections as the natural next steps. The choice and quality of equipment are crucial for reliable results. PRESI offers a comprehensive range of equipment and software designed for these applications.

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**STEREOMICROSCOPES**

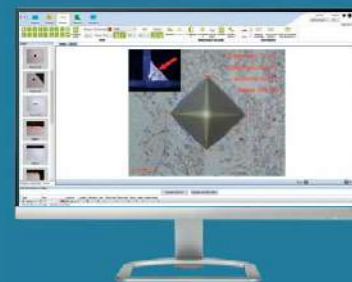
143



**MICROSCOPES**

---

## MEASUREMENT SOFTWARE



144

OPTICAL CHARACTERIZATION

# STEREO- MICROSCOPES

## 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

## 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.

Digital  
imaging  
very easy  
to use

- 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



## 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**

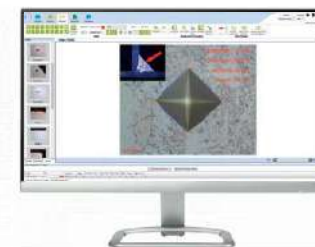
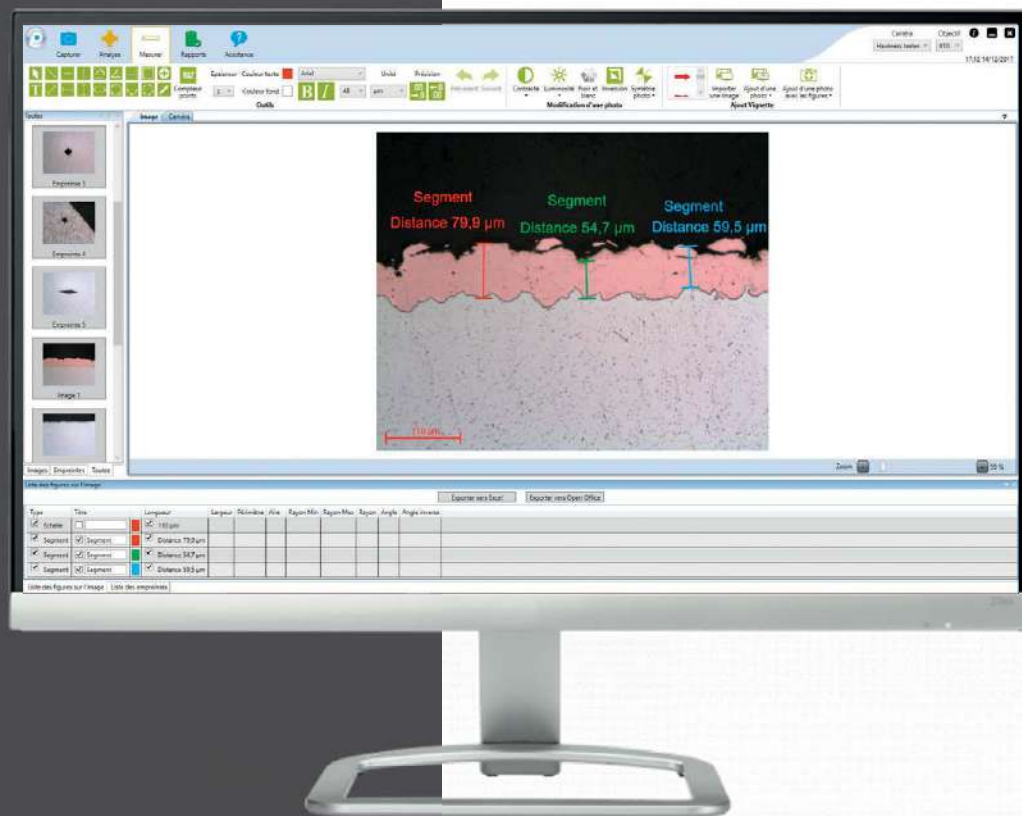
## Key features and advantages

- 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

# HARDNESS

### Mastering Material Strength

Hardness testing makes it possible to evaluate a material's resistance to penetration using standardized methods (Rockwell, Brinell, Vickers, etc.).

PRESI and HOYTOM offer a comprehensive range of solutions that meet the needs of production, laboratories, and R&D, including manual, semi-automatic, and fully automated hardness testers.

Each solution combines precision, reliability, and ease of use, ensuring reproducible results that comply with industrial standards.

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**HARDNESS  
RANGE**

150



**HARDNESS  
TESTERS**

**PORTABLE  
HARDNESS TESTERS**



178

**HARDNESS  
TEST BLOCKS**



179

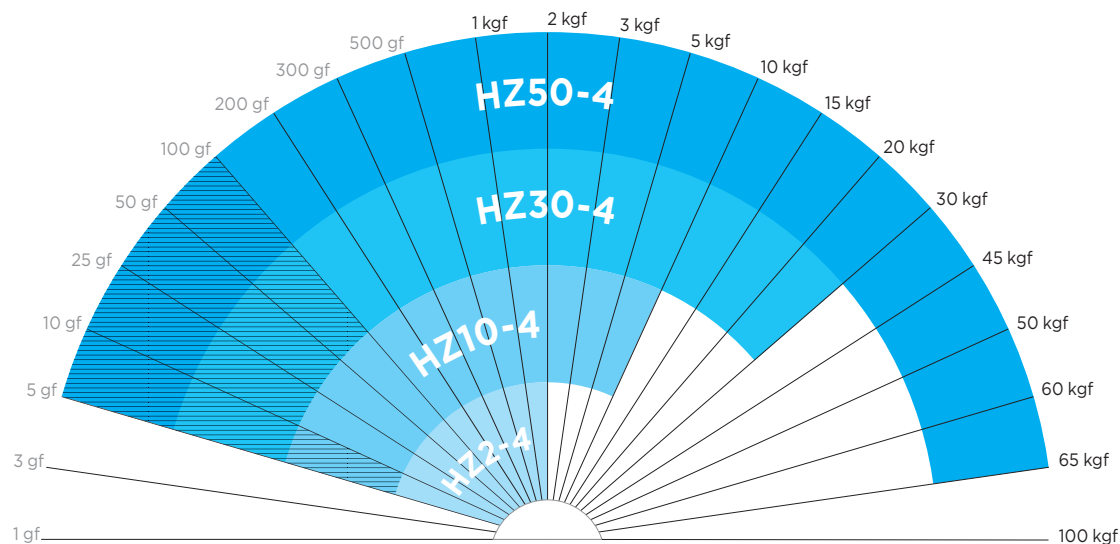




# PRESI HZ

## FULL AUTOMATIC LOAD CELLS

### LOAD RANGE



	Hardness tester	Hardness scale	Turret	Lenses	Indenters	Extendable load range
<b>HZ2-4</b>	Full automatic	Vickers and/or Knoop	Automatic 7 positions	Up to 4	Up to 2	-
<b>HZ10-4</b>	Full automatic	Vickers and/or Knoop	Automatic 7 positions	Up to 4	Up to 2	Extendable up to 5gf
<b>HZ30-4</b>	Full automatic	Vickers and/or Knoop	Automatic 7 positions	Up to 4	Up to 2	Extendable up to 5gf
<b>HZ50-4</b>	Full automatic	Vickers and/or Knoop	Automatic 7 positions	Up to 4	Up to 2	Extendable up to 5gf

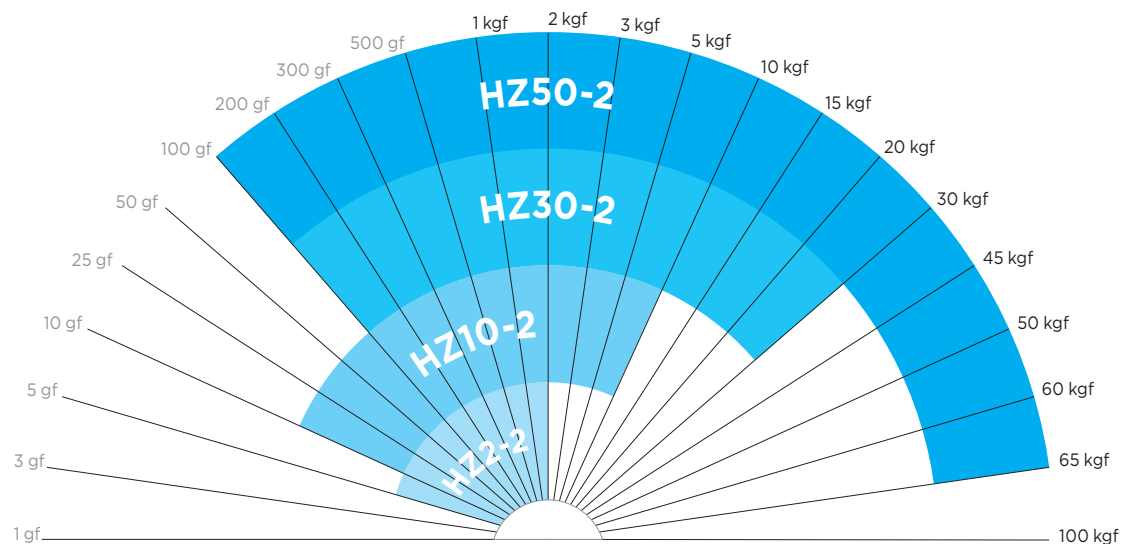
Extendable load range: optional



# PRESI HZ

## SEMI-AUTOMATIC LOAD CELLS

### LOAD RANGE



	Hardness tester	Hardness scale	Turret	Lenses	Indenters	Table
<b>HZ2-2</b>	Semi-automatic	Vickers or Knoop	Automatic 6 positions	Up to 4	1	Fixed or manual
<b>HZ10-2</b>	Semi-automatic	Vickers	Automatic 6 positions	Up to 4	1	Fixed or manual
<b>HZ30-2</b>	Semi-automatic	Vickers	Automatic 6 positions	Up to 4	1	Fixed or manual
<b>HZ50-2</b>	Semi-automatic	Vickers	Automatic 6 positions	Up to 4	1	Fixed or manual

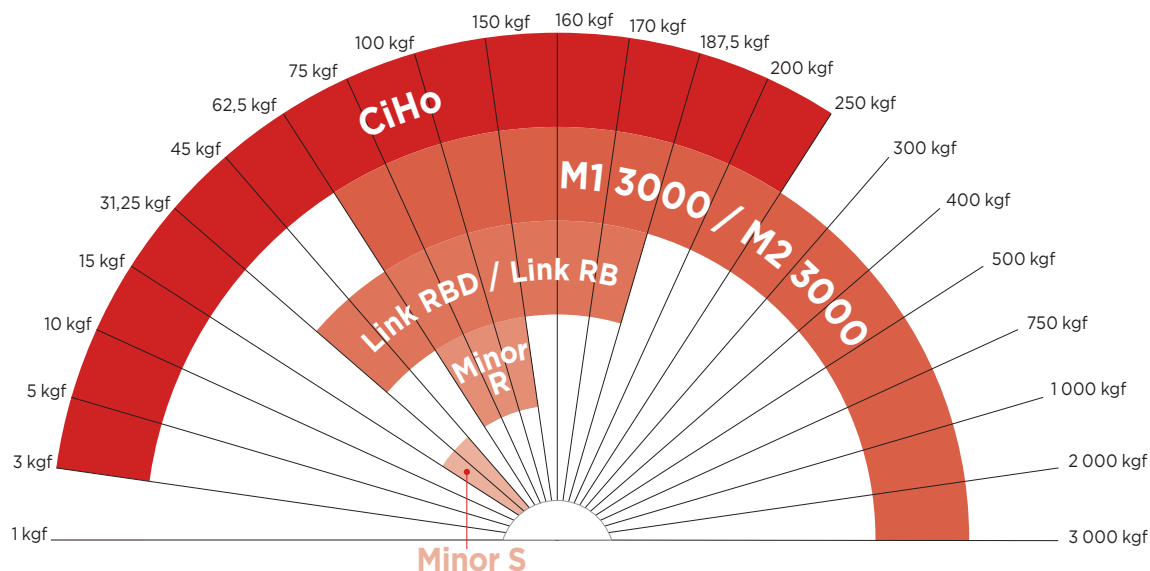


# HOYTOM

## ROCKWELL AND BRINELL



### LOAD RANGE

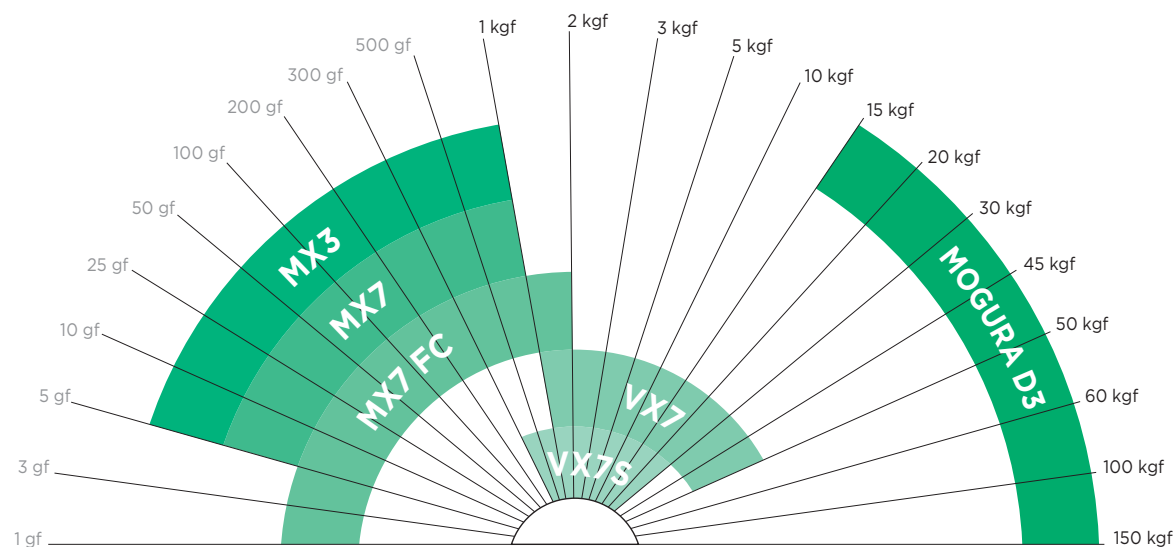


	Hardness scale			Hardness testers	Load application type	Display	HOYWIN software
	Rockwell	Rockwell superficial	Brinell				
<b>CiHo</b>	✓	✓	✓	Semi-automatic	Loadcell	Touch screen	✓
<b>M1 3000</b>			✓	Manual	Loadcell	Digital	
<b>M2 3000</b>			✓	Semi-automatic	Loadcell	Touch screen	✓
<b>Link RBD</b>	✓		✓	Manual	Dead weights	Digital	
<b>Link RB</b>	✓		✓	Manual	Dead weights	Analog	
<b>Minor R</b>	✓			Manual	Dead weights	Analog	
<b>Minor S</b>		✓		Manual	Dead weights	Analog	



# MATSUZAWA DEAD WEIGHTS

## LOAD RANGE



	Indenters				Turrets	Number of lenses + number of indenters					
	Vickers	Knoop	Brinell	Rockwell	Turret type	2 + 1	2 + 2	3 + 1	3 + 2	4 + 1	4 + 2
<b>MICROTECH MX3</b>	✓	✓			Manual	Standard	✓	✓	✓	✓	✓
<b>MICROTECH MX7</b>	✓	✓			Automatic	Standard	✓	✓	✓	✓	✓
<b>MICROTECH MX7 FC</b>	✓	✓			Automatic				Standard		✓
<b>MACROTECH VX7</b>	✓		✓		Automatic	Standard		✓		✓	
<b>MACROTECH VX7S</b>	✓		✓		Automatic	Standard		✓		✓	
<b>MOGURA D3</b>				✓							

Available objectives: x2,5 x5 x10 x20 x50 x100

HARDNESS

# HARDNESS TESTERS HZ FULL AUTOMATIC

## PERFORMANCE AND RELIABILITY FOR HARDNESS TESTING

The HZ-4 range is designed to offer a complete, high-performance solution, combining precision, flexibility and advanced automation. Developed to meet the requirements of laboratories and industrial environments, it stands out for its robustness, ergonomics and AI-based software.

- **Optimized accuracy and stability**
- **Touch sensor: guaranteed speed and safety**
- **Modularity & flexibility for every need**
- **Intuitive and powerful software**
- **Made in France**



800mm



370mm



700mm



80kg

Large working area  
thanks to a major  
250mm vertical  
extension



Check the technical datasheet  
for the HZ range



## FEATURES

HZ HARDNESS TESTER		AUTOMATIC			
MODEL		HZ2-4	HZ10-4	HZ30-4	HZ50-4
LOAD APPLICATION					
Load range		5gf – 2kgf	10gf – 10kgf	100gf – 30kgf	100gf – 65kgf
Extended load range		-	Up to 5gf	Up to 5gf	Up to 5gf
Indenter type		Vickers and/or Knoop	Vickers and/or Knoop	Vickers and/or Knoop	Vickers and/or Knoop
FRAMES					
Load cell		1 to 2	1 to 2	1 to 2	1 to 2
Touch sensor		✓	✓	✓	✓
Lenses		Up to 4	Up to 4	Up to 4	Up to 4
Magnification		200 to 2000x	200 to 2000x	200 to 2000x	200 to 2000x
Microscopic camera		✓	✓	✓	✓
Macroscopic camera		○	○	○	○
LED light source		✓	✓	✓	✓
Z axis travel		250mm	250mm	250mm	250mm
TABLES					

### Automatic “standard” 280x200mm

XY travel: 100x130mm  
 Table feeding accuracy: 1µm  
 Maximum sample weight: 80kg  
 Compatible with single sample holders only

### Automatic “marble” 420x210mm

XY travel: 180x200mm  
 Table accuracy: 1µm  
 Maximum sample weight: 100kg  
 Compatible with single and multi-sample holders

## SOFTWARE

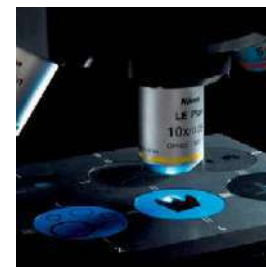
PRESI TOUCH Pattern	✓	✓	✓	✓
PRESI TOUCH Welding	○	○	○	○
PRESI TOUCH Mapping	○	○	○	○
PRESI TOUCH “Full”	○	○	○	○
External PC and 28” screen	○	○	○	○

## GENERAL

Test load accuracy <1 %	✓	✓	✓	✓
Dwell time: 5 - 999 s	✓	✓	✓	✓
Standard compliance: ISO 6507 & 4545, ASTM E384 and E92	✓	✓	✓	✓

LEGEND: - Incompatible / ✓ Included / ○ Option

## ACCESSORIES



**Nikon lenses**  
Magnification up to x2000



**Sample holder**  
Wide selection of diameters and sample quantities available



**2 LED lighting systems:**  
micro and macro use



**Teflon touch sensor**  
Detects the part without leaving marks and ensures optimal operator safety



**Motorized turret**  
Up to 7 positions, including the touch sensor



**6-shortcut ergonomic joystick**  
enabling quick and safe operation

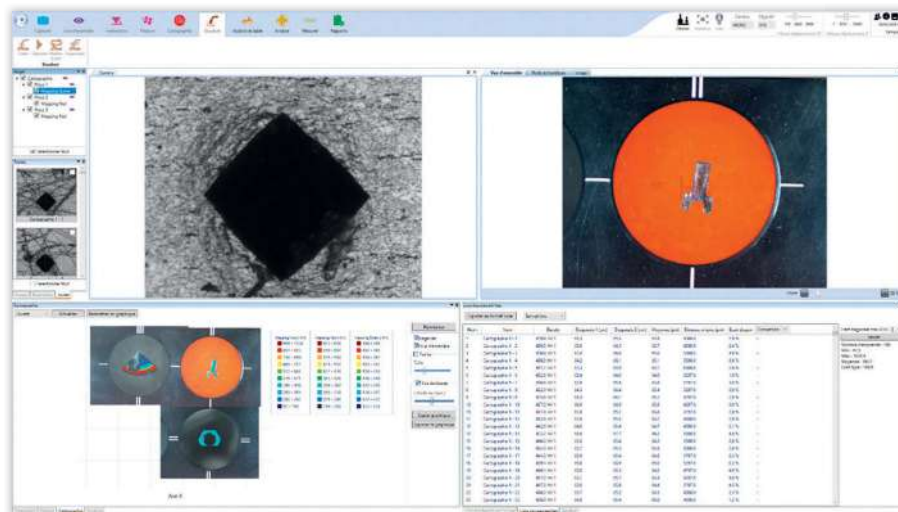


## HARDNESS

# SOFTWARE HZ AUTOMATIC

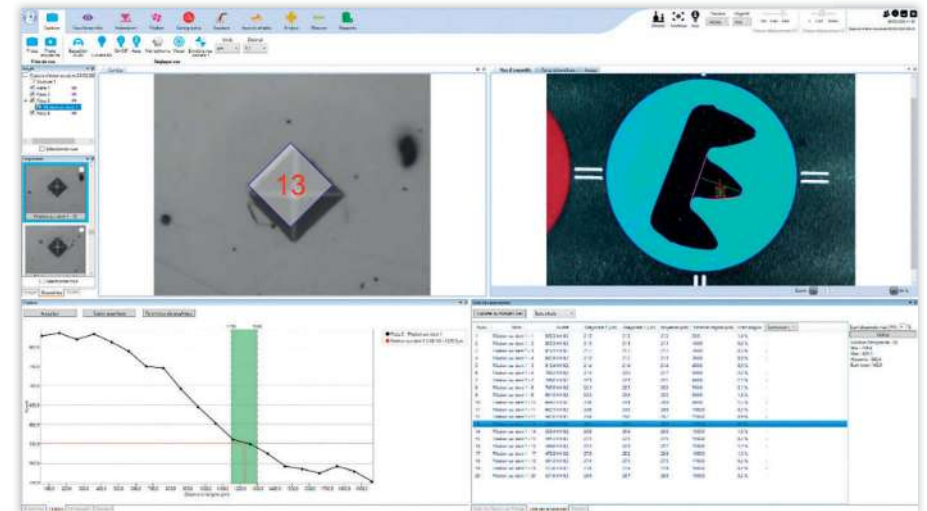
PRESI TOUCH PATTERN, PRESI TOUCH WELDING & PRESI TOUCH MAPPING

## PRESI TOUCH MAPPING



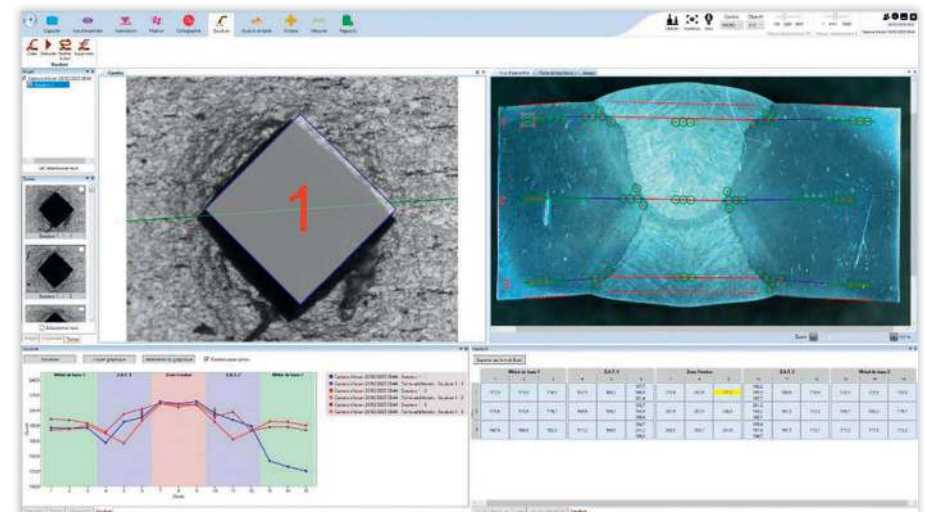
## PRESI TOUCH PATTERN

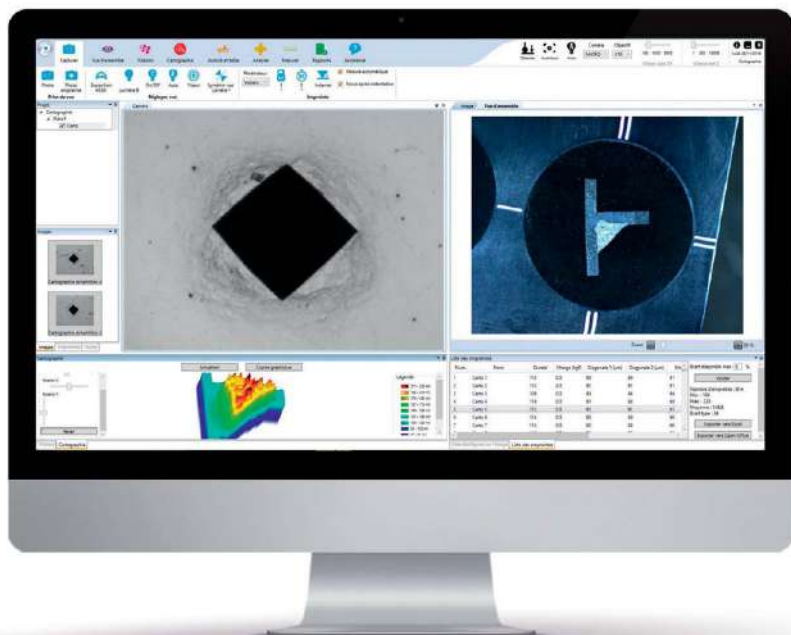
Gear tooth pattern, CHD and NHT evaluation







## PRESI TOUCH WELDING

New welding module developed by PRESI





-  **Complete, reliable and powerful**
-  **Ultra-high image quality**
-  **Intuitive navigation**
-  **Time saving**

## FEATURES

SOFTWARES	PRESI TOUCH PATTERN	PRESI TOUCH MAPPING	PRESI TOUCH WELDING	PRESI TOUCH AUTOMATIC FULL
<b>INDENT TYPE</b>				
Single indent	✓	✓	✓	✓
Manual pattern	✓	✓	✓	✓
Automatic pattern	✓	✓	✓	✓
Welding module	-	-	✓	✓
Manual mapping	-	✓	-	✓
Automatic mapping	-	✓	-	✓
<b>FEATURES</b>				
Automatic measurement of the indent by AI	✓	✓	✓	✓
Manual measurement of the indent	✓	✓	✓	✓
Autofocus	✓	✓	✓	✓
Automatic light	✓	✓	✓	✓
Incorrect measurement alerts	✓	✓	✓	✓
Pattern settings	✓	✓	✓	✓
Simulation of the indent size	✓	✓	✓	✓
Hardness value conversion	✓	✓	✓	✓
Analysis reports	✓	✓	✓	✓
"Measurement" toolbox	✓	✓	✓	✓
Macroscopic overview	(1)	(1)	(1)	(1)
Reconstruction of macroscopic images	✓	✓	✓	✓
Reconstruction of microscopic images	✓	✓		
Automatic backup	✓	✓		
Multilingual software	✓	✓		
<b>EQUIPMENT</b>				
FULL HD digital camera for microscopy	✓	✓	✓	✓
FULL HD digital camera for macroscopy	(1)	(1)	(1)	(1)
X - Y - Z 3-axis joystick	✓	✓	✓	✓
External PC and 28" screen	✓	✓	✓	✓

LEGEND: - Incompatible / ✓ Included / o Option

(1) Available with macroscopic camera

HARDNESS

# HARDNESS TESTER HZ SEMI AUTOMATIC

## HARDNESS TESTING ESSENTIALS

**PRESI's semi-automatic hardness tester gets a fresh new look!**

The HZ-2 range from PRESI offers a high-performance and accessible solution for hardness testing. Designed to meet the needs of laboratories and workshops, it combines **ease of use, measurement reliability, and compactness** — all backed by PRESI's metrology expertise.

- **Guaranteed Accuracy & reliability**
- **Optimized use with Touch sensor**
- **Compact and modular design suitable for all environments**
- **Ergonomic software with manual pattern assistance**
- **Made in France by PRESI**



660mm



320mm



660mm



70kg

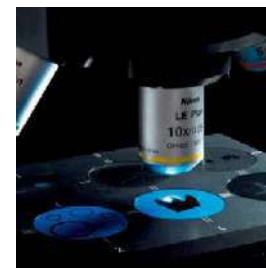


## FEATURES

HZ HARDNESS TESTER		SEMI-AUTOMATIC			
MODEL		HZ2-2	HZ10-2	HZ30-2	HZ50-2
LOAD APPLICATION					
Load range		5gf – 2kgf	10gf – 10kgf	100gf – 30kgf	100gf – 65kgf
Indenter type		Vickers and/or Knoop	Vickers	Vickers	Vickers
FRAMES					
Load cell		1	1	1	1
Touch sensor		✓	✓	✓	✓
Lenses		Up to 4	Up to 4	Up to 4	Up to 4
Magnification		200 to 2000x	200 to 2000x	200 to 2000x	200 to 2000x
Microscopic camera		✓	✓	✓	✓
LED light source		✓	✓	✓	✓
Z axis travel		150mm	150mm	150mm	150mm
TABLES					
<b>Fixed 200x200mm</b>					
Maximum sample weight: 50kg		○	○	○	○
Compatible with single sample holder					
<b>Manual 110x100mm</b>					
XY travel 25x25mm					
Table accuracy					
With analog micrometers: 10µm		○	○	○	○
With digital micrometers: 1µm					
Maximum sample weight: 50kg					
Compatible with single sample holder					
SOFTWARE					
PRESI TOUCH Essential		✓	✓	✓	✓
PRESI TOUCH Manual		○	○	○	○
GENERAL					
Test load accuracy <1%		✓	✓	✓	✓
Dwell time: 5 - 999s		✓	✓	✓	✓
Standard compliance: ISO 6507 & 4545, ASTM E384 and E92		✓	✓	✓	✓

LEGEND: - Incompatible / ✓ included / ○ Option

## ACCESSORIES



**Nikon lenses**  
Magnification up to x2000



**Digital micrometers**  
Optional - facilitates the execution of manual patterns



**Motorized turret**  
Up to 7 positions, including the touch sensor



**Teflon touch sensor**  
Detects the part without leaving marks and ensures optimal operator safety



**Single sample holder**  
For sample leveling



**Color code** in accordance with the machine status

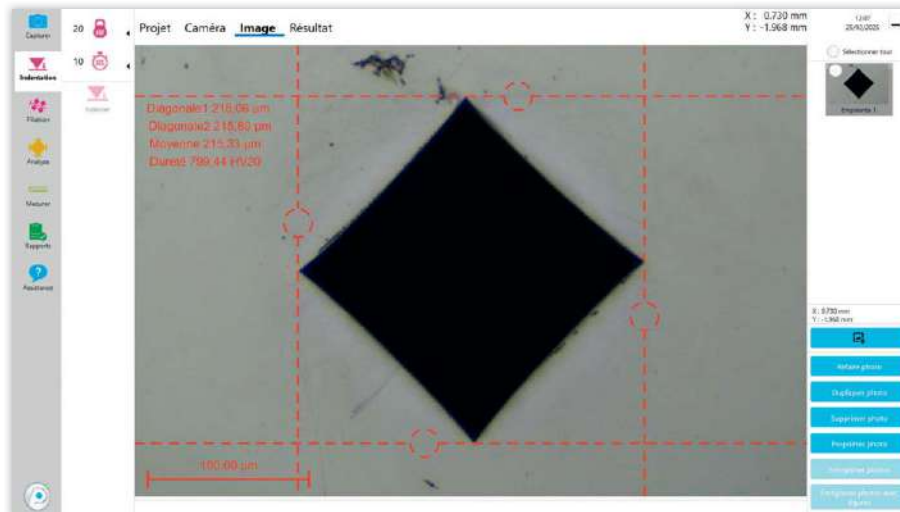
## HARDNESS

# SOFTWARE HZ SEMI AUTOMATIC

## PRESI TOUCH ESSENTIAL & MANUAL

### COMPATIBILITY:

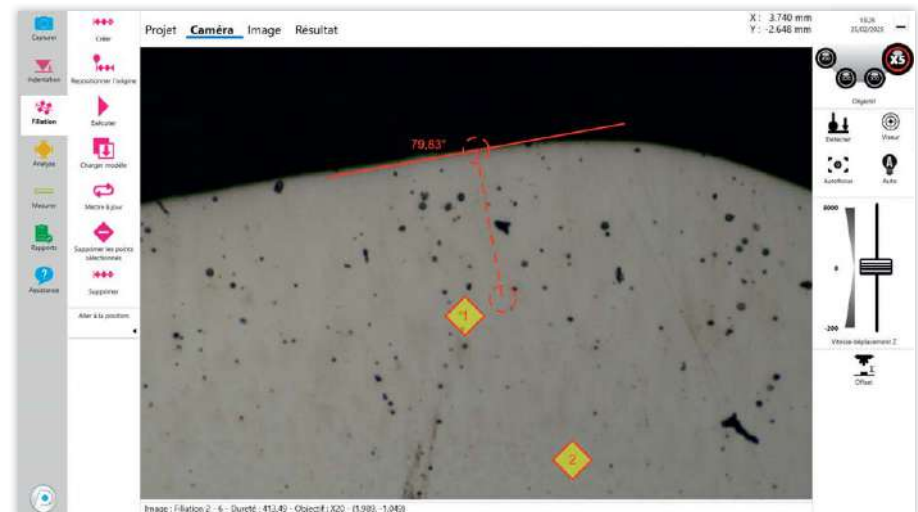
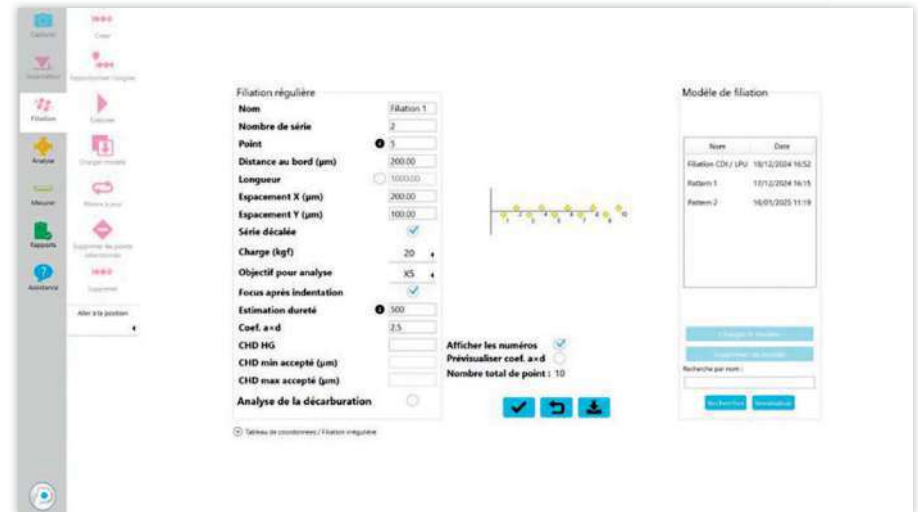
HZ hardness tester semi-automatic  
HZ2-2 | HZ10-2 | HZ30-2 | HZ50-2



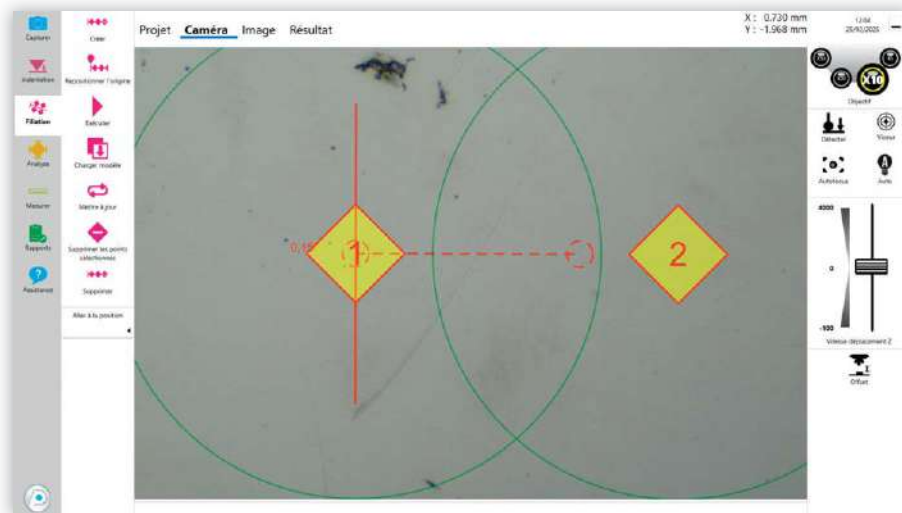
## PRESI TOUCH ESSENTIAL




Intuitive software with graphical menu. Touchscreen technology for simplified use. 100% customizable interface. Built-in search engine. Automatic or manual imprint measurement using Artificial Intelligence. Single indentation mode. The software has been completely redesigned for an enhanced user experience.

### Assisted manual pattern







-  **Simple and intuitive**
-  **Image fluidity**
-  **Data storage**

## FEATURES

SOFTWARE	PRESI TOUCH ESSENTIAL	PRESI TOUCH MANUAL
<b>INDENTATION TYPE</b>		
Single indent	✓	✓
Manual pattern	-	✓
<b>FEATURES</b>		
Automatic indent measurement	AI-assisted	AI-assisted
Manual indent measurement	✓	✓
Autofocus	✓	✓
Automatic light	✓	✓
Incorrect measurement alerts	✓	✓
Pattern settings	✓	✓
Simulation of the indent size	-	✓
Hardness value conversion	✓	✓
Analysis reports	-	✓
"Measurement" toolbox	o	✓
Automatic backup	✓	✓
Multilingual software	✓	✓
<b>EQUIPMENT</b>		
FULL HD digital camera for microscopy	✓	✓
Turret control	✓	✓

LEGEND: - Incompatible / ✓ included / o Option



HARDNESS

# HARDNESS TESTER CiHO SRD

## ROCKWELL AND BRINELL HARDNESS TESTER

Semi-automatic and instantly recognizable, the **CiHo SRD** from HOYTOM stands out for its original design, robustness and exceptional performance. Designed for industrial environments.

 **Versatility**

 **Precision**

 **Reliability**



250mm



396mm



160mm



150kg



## FEATURES

### HARDNESS TESTER CIHO SRD

Pre-load (kg)	3 – 10
Rockwell superficial (kg)	15 – 30 – 45
Rockwell standard (kg)	60 – 100 – 150
Brinell scale (kg)	31.25 – 62.5 – 125 – 187.5 – 250
Dwell time	Automatically adjusted
Methods selection	On touch screen 21.5"
Loadcell	HBM
Z axis travel (mm)	250
Goose neck depth (mm)	160
Software	HOYWIN hardness : • Statistical calculation (average, deviation, standard deviation, etc.) • Customised report • Access to results on the internal network via web browser
Warranty	3 years

## ACCESSORIES

### INCLUDED

- Rockwell indenter diamond cone 120°
- Rockwell indenter ball 1/16", certified
- Brinell indenter with 2.5 and 5mm ball, certified
- Spare ball for Rockwell and Brinell indenter
- Certified Hardness test blocs for HRC and HRBW scale
- Flat support Ø 50mm and 10mm
- V-shape support for cylinder

### NOT INCLUDED



**Brinell camera** with software for automatic indenter reading and hardness data extraction



**Brinell magnifier**



**Certified indenter**



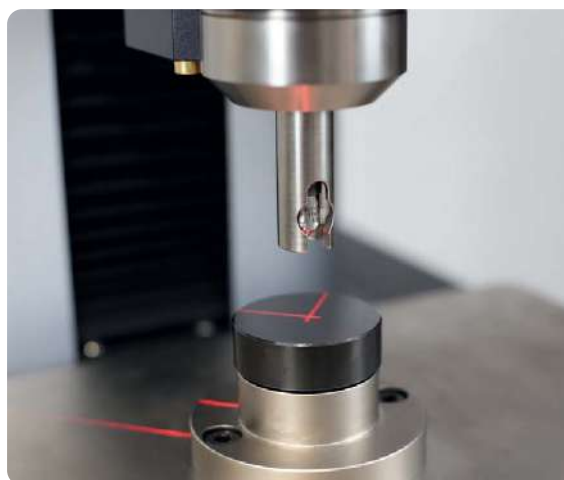
**Hardness test blocs**



**Ergonomic base**



**Fast indenter replacement and large table**



**Laser positioning**

HARDNESS



# HARDNESS TESTERS

## M1 3000

## M2 3000

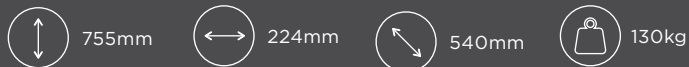
BRINELL SEMI-AUTOMATIC  
AND MANUAL

**HOYTOM Brinell Range**  
Precision, robustness and digital evolution

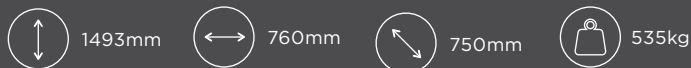
The M1-3000 and M2-3000 models cover a wide range of Brinell tests up to 3000 kgf, offering excellent stability and simplified operation. The M2-3000 model features HOYWIN, an advanced software interface that automates test sequences, centralizes data, and boosts productivity.

A range designed to meet industrial requirements while ensuring precision and scalability.

### M1 3000



### M2 3000



## FEATURES

	M1 3000	M2 3000
Available Brinell loads (kg)	62.5 - 100 - 125 - 187.5 - 250 - 500 750 - 1000 - 1500 - 3000	62.5 - 100 - 125 - 187.5 - 250 - 500 750 - 1000 - 1500 - 3000
Vertical capacity (mm)	225	275
Goose neck depth (mm)	135	200
Dimensions (mm)	L 224 x P 540 x H 755	L 760 x P 750 x H 1493
Weight (kg)	130	535
Power supply	AC 220 V $\pm$ 5 %, 50-60 HZ	AC 220 V $\pm$ 5 %, 50-60 HZ
HOYWIN Hardness	Not available	Included
Brinell magnifier x20	Included	Included
HBWT method (Brinell without indent reading)	Not available	Included
Z axis	Manual	Motorized
Display	Digital	Touch screen 21.5"
Flat sample holder (mm)	$\varnothing$ 60 - $\varnothing$ 200	$\varnothing$ 200
V-support for cylindrical parts	Included	Included
Hardness test blocs 10/3000, certified	Included	Included
Warranty	3 years	3 years

## ACCESSORIES

### NOT INCLUDED



**Brinell camera** with software for automatic indent reading and hardness data extraction



**Brinell magnifier**



**Certified indenter**



**Hardness test blocs**



**Ergonomic base**



**Fast and simple indenter replacement**



**Robust and intuitive touchscreen**

## HARDNESS

# HARDNESS TESTER LINK RBD

## MANUAL ROCKWELL AND BRINELL

### Compact, versatile and accurate

The Link RBD is a motorised tabletop hardness tester designed to perform Rockwell (60, 100, 150 kgf) and Brinell (31.25 to 187.5 kgf) tests with high reliability.

Its compact design makes it ideal for small spaces without compromising on robustness. The motorised load application ensures greater repeatability, and loads are selected via a smooth rotary interface. The touchscreen provides easy navigation.

The Link RBD is the perfect tool for fast, reliable testing in the laboratory or production environment.



700mm



215mm



520mm



100kg

## FEATURES

### HARDNESS TESTER LINK RBD

Pre-load (kg)	10
Rockwell loads (kg)	60 – 100 – 150
Brinell loads (kg)	31,25 – 62,5 – 187,5
Accuracy (HRC/HRB/...)	0,01
Vertical capacity (mm)	170
Goose neck depth (mm)	165
External dimensions (mm)	L 215 x P 520 x H 700
Weight (kg)	100
Power supply (V)	220
Display	Digital
Output	USB
Load selector	Manual selector
Warranty	3 years



Manual pre-load



Robust and intuitive touchscreen

## ACCESSORIES

### INCLUDED

- Rockwell indenter diamond cone 120°
- Rockwell indenter ball 1/16"
- Brinell indenter with 2.5mm ball
- Spare balls
- Certified Hardness test blocs for HRC and HRBW scale
- Flat sample holder Ø 60 and Ø 150mm
- V-support for cylindrical parts
- Storage case for accessories

### NOT INCLUDED



Brinell camera with software for automatic indent reading and hardness data extraction



Brinell magnifier



Certified indenter



Hardness test blocs



Ergonomic base



## HARDNESS

# HARDNESS TESTER LINK RB

### The Essential of Rockwell & Brinell in Compact Format

The Link RB is a motorised tabletop hardness tester designed for Rockwell (60, 100, 150kgf) and Brinell (31.25 to 187.5kgf) testing, combining versatility and ease of use. Its motorised loading system ensures consistent, reproducible force application, ideal for production environments.

The clear, intuitive analogue display allows results to be read quickly and directly, with no superfluous information. Compact and robust, it fits easily into any workstation and adapts to industrial constraints.

The Link RB is a reliable, functional and affordable solution for everyday testing needs.



700mm



215mm



520mm



100kg

## FEATURES

### HARDNESS TESTER LINK RB

Pre-load (kg)	10
Rockwell loads (kg)	60 - 100 - 150
Brinell loads (kg)	31,25 - 62,5 - 187,5
Vertical capacity (mm)	170
Goose neck depth (mm)	165
External dimensions (mm)	L 215 x P 520 x H 700
Weight (kg)	100
Display	Analogic
Warranty	3 years

## ACCESSORIES

### INCLUDED

- Rockwell indenter diamond cone 120°
- Rockwell indenter ball 1/16"
- Brinell indenter with 2.5mm ball
- Spare balls
- Hardness test blocs for HRC and HRBW scale
- Flat sample holder 60 and Ø 150mm
- V-support for cylindrical parts
- Storage case for accessories

### NOT INCLUDED



**Brinell camera** with software for automatic indent reading and hardness data extraction



**Brinell magnifier**



**Certified indenter**



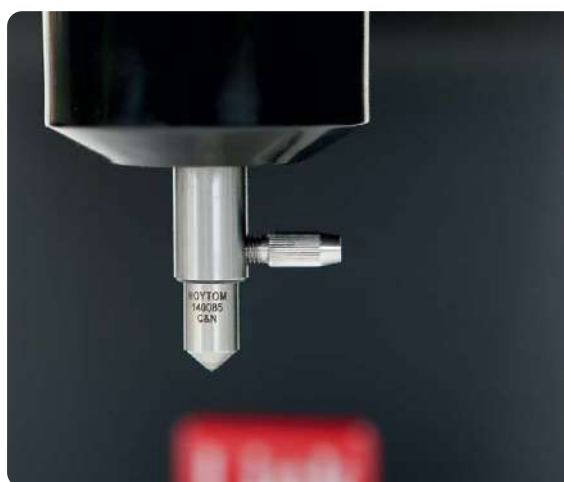
**Hardness test blocs**



**Ergonomic base**



**Analogic display**



**Fast and simple indenter replacement**

## HARDNESS

# HARDNESS TESTER MINOR R & S

### Compact mechanical Rockwell hardness testers

The Minor R (Standard Rockwell) and Minor S (Superficial Rockwell) are tabletop mechanical hardness testers designed for accurate and reliable measurements.

Their integrated handle and weight system ensures stable and controlled load application, providing excellent test repeatability.

The clear, direct analogue display provides fast, unambiguous reading of results, facilitating quality control in industrial environments.

With their robust, compact design, these models fit easily into workstations where reliability and efficiency are essential.

An effective solution for simple, reliable and durable Rockwell measurements.



760mm



185mm



550mm



100kg

## FEATURES

	MINOR R	MINOR S
Rockwell scale	Rockwell Standard	Rockwell Superficial
Pre-load (kg)	10	3
Rockwell loads (kg)	60 – 100 – 150	15 – 30 – 45
Vertical capacity (mm)	175	175
Goose neck depth (mm)	165	165
External dimensions (mm)	L 185 x P 550 x H 760	L 185 x P 550 x H 760
Weight (kg)	100	100
Display	Analogic	Analogic



Analogic display



Large working area

## ACCESSORIES

### INCLUDED

- Rockwell indenter diamond cone 120°
- Rockwell indenter ball 1/16"
- Spare balls
- Hardness test blocs for HRC and HRB scales
- Hardness test blocs for HRN and HRT scales
- Flat sample holder 60 and Ø 150mm
- V-support for cylindrical parts
- Storage case for accessories

### NOT INCLUDED



Certified indenter



Hardness test blocs



Ergonomic base

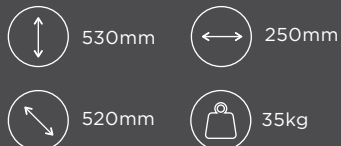
## HARDNESS

# 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.

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



## FEATURES

	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	-

**OPTION**  
**PRESI VIEW**  
software

LOAD RANGE (GF)



## AVAILABLE OPTIONS

### INDENTERS



**VICKERS**  
Ref. 1DIAM/EU020S



**KNOOP**  
Ref. 1DIAM/EU026S

### 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

### TURRET

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

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

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

### SAMPLE HOLDERS AND REMOVABLE HOLDERS



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



**Single place sample holder**  
Ref. 71109



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

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

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

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

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

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

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

### OTHER ACCESSORIES



**C Mount for Microtech**  
Ref. 71108



**Standard Vickers test block  
Ø 30mmx10mm for Microtech**  
Contact us



**Object micrometer**  
Ref. 71503



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



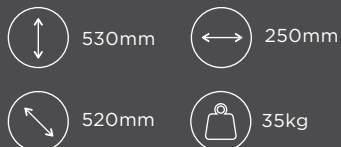
## HARDNESS

# MICROTECH MX7 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.

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



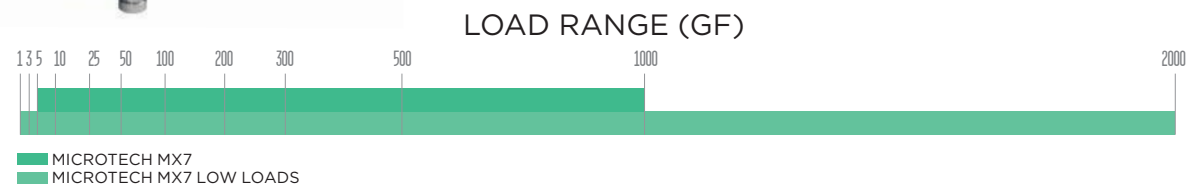
170 **HARDNESS CHARACTERIZATION**



## FEATURES

	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

**OPTION**  
**PRESI VIEW**  
software



## AVAILABLE OPTIONS

### INDENTERS



**VICKERS**  
Ref. 1DIAM/EU020S



**KNOOP**  
Ref. 1DIAM/EU026S

### STANDARD VICES



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

### OBJECTIVES



**x2,5**  
Ref. 71106

**x5**  
Ref. 71154

**x10**  
Ref. 71142

**x20**  
Ref. 71129

**x50**  
Ref. 71143

**x100**  
Ref. 71135

### TURRET

**3 positions turret for objectives**  
Ref. 71131

**4 positions turret for objectives**  
Ref. 71130

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

### SAMPLE HOLDERS AND REMOVABLE HOLDERS



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



**Single place  
sample holder**  
Ref. 71109



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

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

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

**Support amovible ø 31,7 mm**  
Ref. 71111

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

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

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

### OTHER ACCESSORIES



**C Mount for Microtech**  
Ref. 71108



**Standard Vickers test block  
ø 30mm x 10mm for Microtech**  
Contact us



**Object micrometer**  
Ref. 71503



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

## HARDNESS

# MACROTECH VX7 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.

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



770mm



230mm



580mm



55kg for MACROTECH VX7  
52kg for MACROTECH VX7S



## FEATURES

	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) and JIS	Conversion to other scales according to ASTM (E-140) and 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

**OPTION**  
**PRESI VIEW**  
software

## LOAD RANGE (KGF)



MACROTECH VX7  
MACROTECH VX7S

## AVAILABLE OPTIONS

### INDENTERS



**VICKERS**  
Ref. 1DIAM/EU020S

### STANDARD VICES



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

### OBJECTIVES



**x2,5**  
Ref. 71106

**x5**  
Ref. 71154

**x10**  
Ref. 71142

**x20**  
Ref. 71129

**x50**  
Ref. 71143

**x100**  
Ref. 71135

### TURRET

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

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

### SAMPLE HOLDERS AND REMOVABLE HOLDERS



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



**Single place sample  
holder**  
Ref. 71109



**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** Ref. 71125

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

### OTHER ACCESSORIES



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



**Standard Vickers test block  
ø 30mm x 10mm for Microtech**  
Contact us



**Object micrometer**  
Ref. 71503



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

## HARDNESS

# SOFTWARE PRESI VIEW HARDNESS

## ACCESSIBLE AND INTUITIVE DIGITAL IMAGERY FOR SINGLE INDENTS

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



**Easy and intuitive**



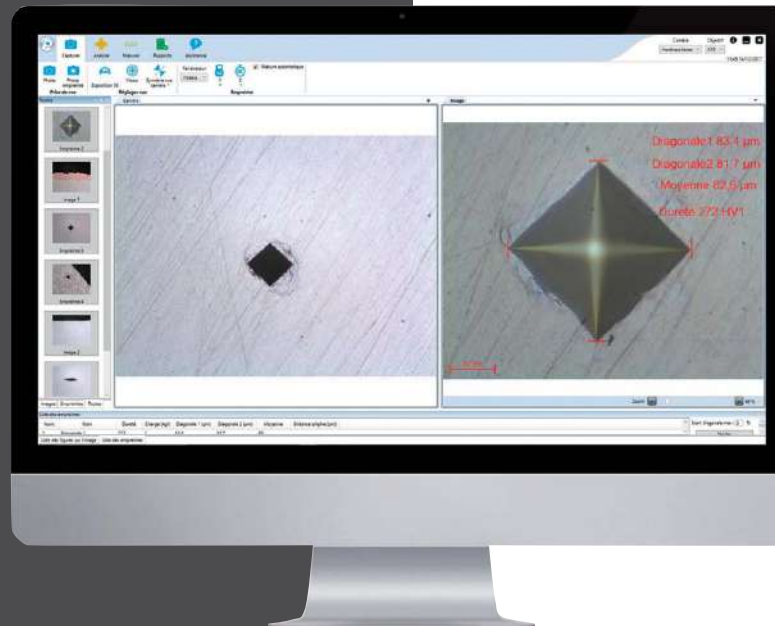
**Image fluidity**



**Automatic analysis**



**Data storage**



## FUNCTIONALITIES

### LANGUAGE

FR - DE - EN - PL - ES - TR

### 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 with AI

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

Numerous recording formats

Automatic storage of results in database

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

Data exportation in format: Excel/Open Office

### COMPATIBILITY

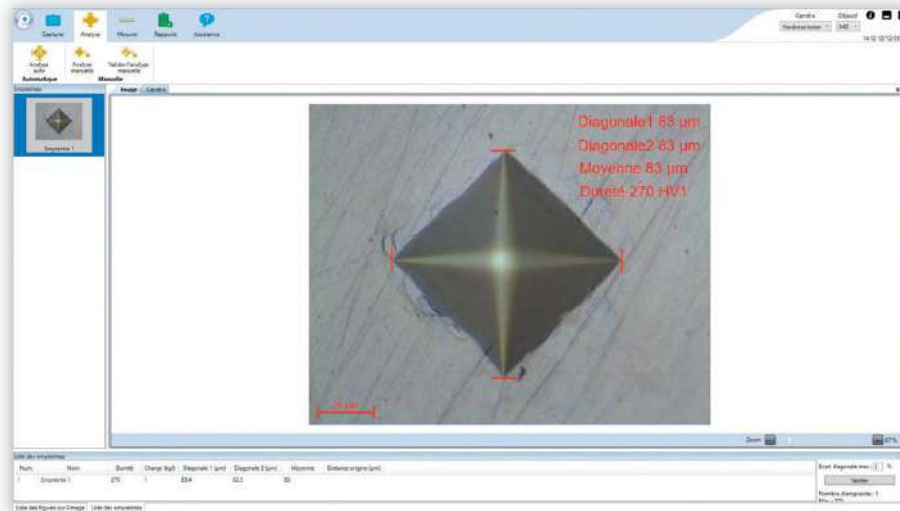
The software is compatible with all our MICROTECH, MACROTECH VX7 and VX7S hardness testers, and all brands equipped with a video output and C mount.

## EXTENDED FEATURES WITH PRESI VIEW MESURE

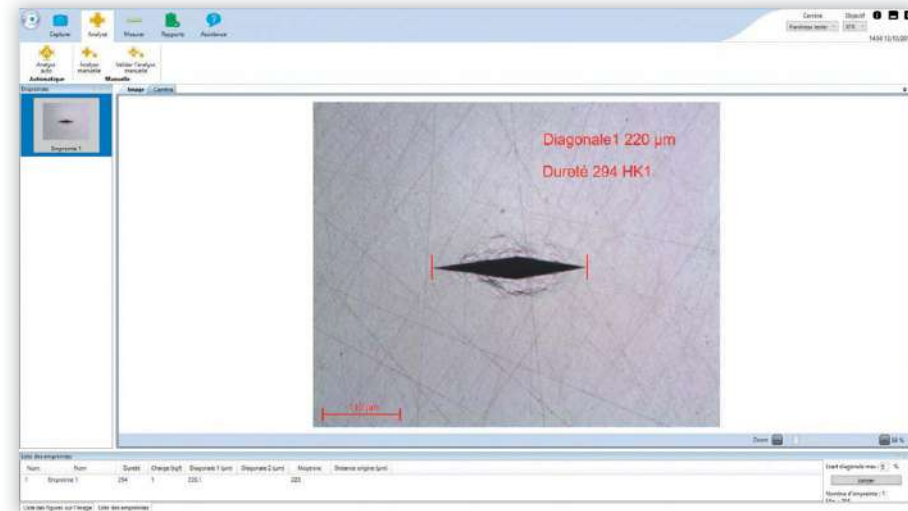
- Lengths, thicknesses, markers, angles...
- Rays, diameters, perimeters, surfaces, circles, arcs...
- Text boxes insertions, titles and arrows.

## PRESI VIEW HARDNESS

Automatic or manual measurement of Vickers indents.

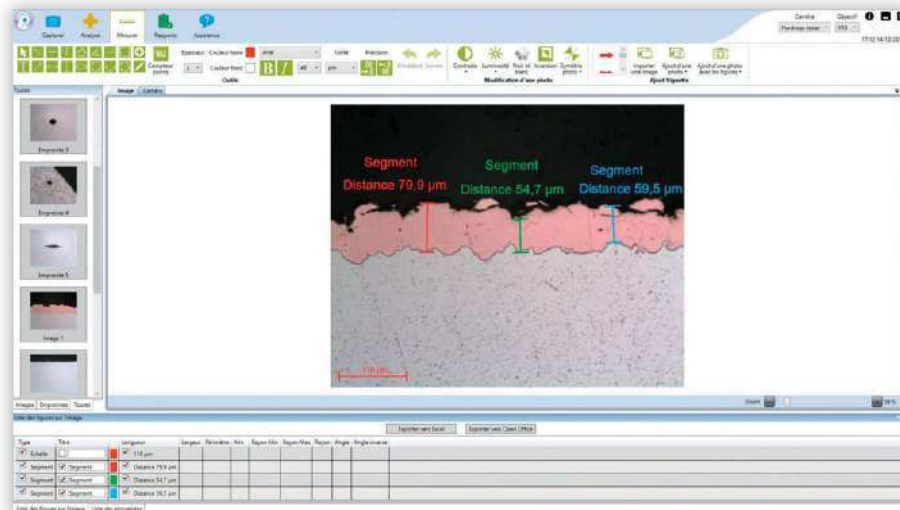


Automatic or manual measurement of Knoop indents.

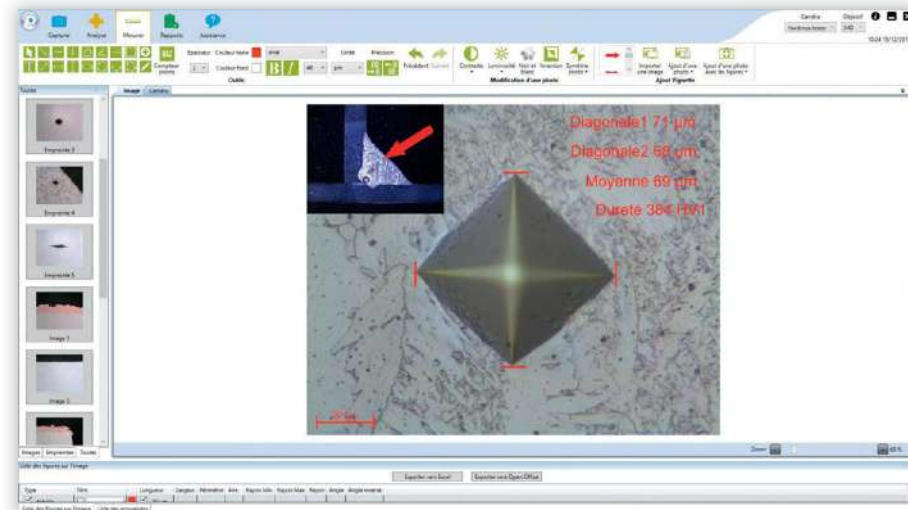


## PRESI VIEW FULL

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



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





HARDNESS

# HARDNESS TESTERS ROCKWELL MATSUZAWA MOGURA D3

## MODEL A1 REF. 71320

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.



Minimalist and intuitive display



Toggle for superficial Rockwell hardness

## TECHNICAL FEATURES

TYPE		DIGITAL		
Name		MoguRa-d3		
Test		Rockwell/Superficial		
Test Load		15, 30, 45 kgf 60, 100, 150kgf		
Pre-charge		3, 10kgf		
Included scales	DIA	A D C 15N	30N	45N
	1/6" ball	F B G 15T	30T	45T
Optional scales	1/8" ball	H E K 15W	30W	45W
	1/4" ball	L M P 15W	30W	45W
	1/2" ball	R S V 15Y	30Y	45Y
Statistics		Max., Min., average, deviations, conformity limits		
Sample size		Max. height: 246 mm, Max. depth: 158 mm		
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 50/60 Hz		

## 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  
(ø 64mm x 15mm)

## HARDNESS

# 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.

Basic analog hardness testers are also available for Rockwell or Brinell testing, with magnetic bases, clamp-type mechanisms, or hydraulic systems for HBW10/3000 applications.

For plastics or rubbers, the measurement is made with a Shore hardness tester.

For soft metal parts such as aluminum, as well as fiberglass or hard plastics, hardness can be measured using a Barcol hardness tester.

For aluminum tubes, hardness measurement can be performed using a Webster clamp.



**WORLDWIDE  
DISTRIBUTION**  
On request

## ACCESSORIES



HLD Rebound hardness tester  
with external probe



Leeb probe range:  
G - DL - D+15 - C - DC - D



HLD Rebound Hardness Tester  
with integrated probe



Hardness testers UCI



Range of UCI probes and accessories



UCI hardness tester mounted  
on a measuring frame



**Analog Rockwell-Brinell Hardness Testers:**

- with magnetic base
- clamp-type
- hydraulic, for HBW 10/3000



Webster clamp



Shore hardness tester mounted  
on a measuring frame



Shore hardness test blocks

## HARDNESS

# HARDNESS TEST BLOCKS

To ensure the accuracy of hardness tests, it is essential to regularly check the machines using certified test blocks. It is recommended to use **3 blocks per hardness scale** (examples of scales: HRC, HRA, HV10, HBW2.5/187.5). The blocks can be grid-marked to distribute the measurement points according to standards.

**Available hardness types:** Rockwell, Vickers, Brinell, Leeb, UCI.

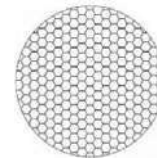


## ROCKWELL AND SUPERFICIAL ROCKWELL HARDNESS TEST BLOCKS

UKAS Certified (ISO 6508-3 / ASTM E18).  
Various hardness levels available (upon request).

### Formats:

- Round: Ø 64mm, thickness 15mm (hexagonal grid)
- Square: 65 × 65mm, thickness 14mm (square grid)
- Available grid sizes: from 2 to 6mm.



Hexagonal grid



HRB test block



HRB test block

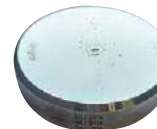
## MACRO-VICKERS, MICRO-VICKERS AND MICRO-KNOOP HARDNESS TEST BLOCKS

UKAS or DAkkS certified (ISO 6507-3 / ASTM E92 / E384).  
Multiple loads available – example: 150 HV2-HV5-HV10 (contact us for details).

### Formats:

- Macro-Vickers (from HV2): Round – Ø 64mm × 15mm thick or Ø 65mm × 10mm thick.
- Micro-Vickers (below HV1) or Micro-Knoop: round – Ø 30mm or Ø 40mm × 10mm thick.

**Available grid sizes for Macro-Vickers test blocks:**  
2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 mm.



Multi-load Macro-Vickers Test Block



Micro-Vickers Test Block

## LOW LOAD AND HIGH LOAD BRINELL HARDNESS TEST BLOCKS

UKAS or DAkkS certified (ISO 6506-3 / ASTM E10).  
Various hardness types available upon request.

### Low load Brinell test blocks (2.5 to 187.5kg)

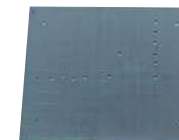
- Round: Ø 64mm × 15mm.
- Square: 60 × 60 × 16mm.
- Available grid sizes: 2 to 6mm.



Low Load Brinell Test Block with grid

### High load Brinell test blocks (> 250kg)

- Rectangular: 150 × 125 × 16mm.
- Square: 100 × 100 × 16mm.
- Grid sizes: 6 to 16mm.



High Load Brinell Test Block with grid

## LEEB AND UCI HARDNESS TEST BLOCKS

UKAS or DAkkS certified (ISO and ASTM standards).  
Various hardness levels available (contact us).

### For calibrating portable rebound hardness testers:

- Leeb D test blocks:  $\varnothing 90 \times 55\text{mm}$ .
- Leeb G test blocks:  $\varnothing 120 \times 70\text{mm}$ .

### For calibrating portable UCI hardness testers:

- UCI test blocks:  $\varnothing 90 \times 16\text{mm}$  (calibrated in HV or HRC).



Leeb HLD test block

## BRINELL REFERENCE TEST BLOCKS

For the indirect verification of your Brinell impression reading systems,  
UKAS certified test blocks (ISO 6506-3).

### Our test blocks include 10 reference indents:

- 5 with a  $\varnothing 10\text{mm}$  ball (indent diameters approximately 2.4 to 5mm).
- 5 with a  $\varnothing 5\text{mm}$  ball (indent diameters approximately 1.4 to 2.4mm).



Brinell reference test block

## INDENTERS

Indenters are used to apply hardness marks on your test samples or on your test blocks during the indirect verification of your machines.

### Several types exist:

- **Rockwell diamond indenters**  
120° cone for testing HRC, HRA, HR15N, HR30N, HR45N.
- **Rockwell ball indenters**  
with or without a mounted  $\varnothing 1/16''$  ball, for HRB, HR15T, HR30T, HR45T tests.
- **Rockwell ball indenters**  
with or without a mounted  $\varnothing 1/8''$  ball, for HRE, HRH, HRK tests.
- **Rockwell ball indenters**  
with or without a mounted  $\varnothing 1/4''$  ball, for HR15X, HR30X, HR45X tests.
- **Rockwell ball indenters**  
with or without a mounted  $\varnothing 1/2''$  ball, for HR15Y, HR30Y, HR45Y tests.
- **Vickers diamond indenters**  
pyramidal diamond with 136° angle.
- **Knoop diamond indenters**  
asymmetrical pyramidal diamond.
- **Brinell ball indenters**  
with or without a mounted  $\varnothing 1\text{ mm}$  ball, for HBW 1/30, HBW 1/10, HBW 1/5 tests.
- **Brinell ball indenters**  
with or without a mounted  $\varnothing 2.5\text{ mm}$  ball, for HBW 2.5/31.25, HBW 2.5/62.5, HBW 2.5/187.5 tests.
- **Brinell ball indenters**  
with or without a mounted  $\varnothing 5\text{ mm}$  ball, for HBW 5/250, HBW 5/750 tests.
- **Brinell ball indenters**  
with or without a mounted  $\varnothing 10\text{ mm}$  ball, for HBW 10/100, HBW 10/1000, HBW 10/3000 tests.

### Equally available:

- UKAS-certified indenters for all machine brands, compliant with ISO and ASTM standards.
- Special models available upon request (please specify dimensions, see below).
- Carbide replacement balls for unmounted indenters, with UKAS certificate, compliant with ISO and ASTM standards.



Diamond indenters and ball indenters

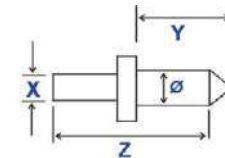


## OUR RECOMMENDATIONS:

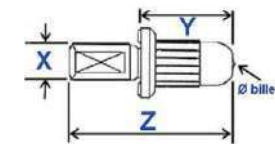
- Regularly check the condition of your indenters (surface defects), especially if you have any doubts about your measurements.
- It is necessary to perform an indirect verification of your machine whenever you change its indenter.
- According to the ISO standard, it is recommended to perform a direct verification of your indenter every 2 years or to replace it.

For each request, please provide us with the type of indenter, the hardness machine model, or the dimensions, as indicated below:

### Diamond indenter



### Ball indenter





## CHARACTERIZATION

# MECHANICAL

### **Mechanical testing & resilience** **Understanding the behaviour of materials**

Mechanical testing is used to characterize the response of materials through various stresses: tension, compression, bending, etc.  
Resilience testing measures their ability to withstand impacts in a controlled manner.

PRESI and HOYTOM offer a range of reliable, robust equipment designed to meet the demands of quality control and laboratory characterization.  
From tensile testers to Charpy pendulums, each solution guarantees precision, repeatability and compliance with standards.

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**UNIVERSAL TESTING  
MACHINES**

192



**RESILIENCE  
MACHINES**

## NON-DESTRUCTIVE TESTING



196



UNIVERSAL TESTING MACHINES



# HOYTOM HM-V

## PRECISION AND INNOVATION FOR YOUR TESTS

The reference for **tensile, compression and bending** tests on a wide range of materials (metals, plastics, composites, wood, textiles, etc.).

Designed to combine **precision, simplicity and robustness**, it fits in perfectly with the requirements of laboratories and industries.

- **Absolute accuracy**
- **Enhanced user experience**
- **Robustness and longevity**
- **Modularity and versatility**
- **Certified Quality and 3-year warranty**
- **Ergonomically designed for efficiency**



## FEATURES

### GENERAL FEATURES

Capacity	1 000	5 000
Maximum travel (mm)	750	750
Maximum travel with HOYTOM tensile grips (mm)	580	580
Distance between column and testing area (mm)	140	140
Maximum travel speed (mm/min)	1 000	1 000
Dimensions (mm)	L 320 x P 580 x H 1220	L 320 x P 580 x H 1220
Weight (kg)	140	140
Power supply (V)	220 / Single phased	220 / Single phased
Machine class	0.5	0.5
Minimum force in class 0.5 (N)	3	15
Load cell resolution (%)	0,001	0,001
Travelling control	Incremental encoder on servomotor	Incremental encoder on servomotor
Cross head travelling accuracy (mm)	< 0.001	< 0.001
Accuracy (%)	< 0.1	< 0.1
Machine control	21.5" touch screen	21.5" touch screen
Software	HOYWIN Material testing	HOYWIN Material testing
Warranty	3 years	3 years

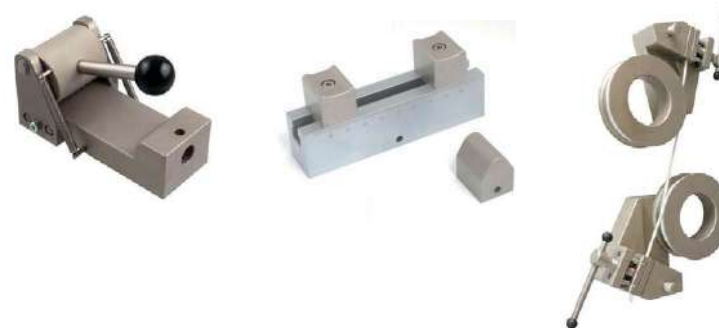


HBM Load cell

## ACCESSORIES

All types of accessories on demand

### WIDE RANGE OF GRIPS AND FIXTURES



### EXTENSOMETERS



Optic  
VECTOR by IMETRUM



Automatic



Clip-On



# HOYTOM HM-D

## POWER AND PRECISION FOR YOUR TESTS

Designed for high-capacity testing, the **HOYTOM HM-D** offers a test force of 5 to 1000 kN, ideal for laboratories, R&D centres and industry. Its ultra-rigid frame and state-of-the-art electronics guarantee reliable, accurate measurements, even on the toughest materials.

- High accuracy
- Reliability and durability
- Maximal flexibility
- Intuitive control with Hoywin®



HM-D1



HM-D2



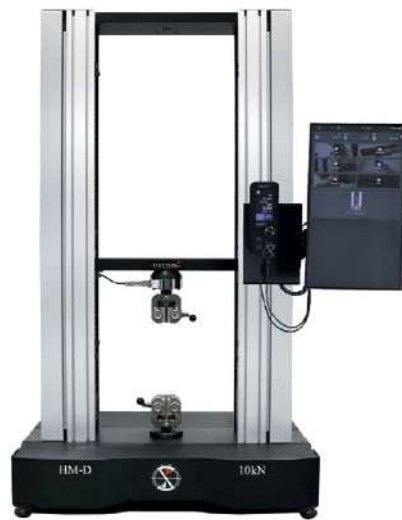
HM-D4

## FEATURES

TABLETOP MODEL		
FRAMES	HM-D0	HM-D1
Capacity (kN)	5 - 10 - 20	25 - 50 - 100
Maximum travel (mm)	877	990
Maximum travel with HOYTOM tensile grips (mm)	700	626
Travel speed (mm/min)	0.001 - 1 000	0.001 - 750
Space between columns	447	447
Dimensions (mm)	L 916 x P 642 x H 1485	L 916 x P 642 x H 1749
Weight (kg)	260	430
Power supply (V)	220 / Single phase	220 / Single phase
Machine class	0.5	0.5
Minimum force in class 0.5 (N)	30 - 30 - 75	75 - 150 - 370
Load cell resolution (%)	0.001	0.001
Travelling control	Incremental encoder on servomotor	Incremental encoder on servomotor
Cross head travelling accuracy (mm)	< 0.001	< 0.001
Accuracy (%)	< 0.1	< 0.1
Machine control	21.5" Touch screen	21.5" Touch screen
Software	HOYWIN Material Testing	HOYWIN Material Testing
Warranty	3 years	3 years



HBM Load cell



HM-D0



HM-D1

## FEATURES

FLOOR MODEL			
FRAMES	HM-D2	HM-D3	HM-D4
Capacity (kN)	200 - 250 - 300	400 - 500 - 600	1 000
Maximum travel (mm)	936	681	750
Maximum travel with HOYTOM tensile grips (mm)	592	-	-
Travelling speed (mm/min)	0.001 - 600	0.001 - 350	0.001 - 200
Space between columns	567	635	635
Dimensions (mm)	L 1156 x P 665 x H 2116	L 1175 x P 947 x H 2561	L 1182 x P 970 x H 2825
Weight (kg)	930	2 780	3400
Power supply (V)	400 - three phases	400 - three phases	400 - three phases
Machine Class	0.5	0.5	0.5
Minimum force in class 0.5 (N)	0.4 - 0.7 - 0.7	1,5	1,5
Load cell accuracy (%)	0.001	0.001	0.001
Travelling control	Incremental encoder on servomotor	Incremental encoder on servomotor	Incremental encoder on servomotor
Cross head travelling accuracy (mm)	< 0.001	< 0.001	< 0.001
Accuracy (%)	< 0.1	< 0.1	< 0.1
Machine control	21.5" Touch screen	21.5" Touch screen	21.5" Touch screen
Software	HOYWIN Material Testing	HOYWIN Material Testing	HOYWIN Material Testing
Warranty	3 years	3 years	3 years



Stark® transmission system



## ACCESSORIES

### EXTENSOMETERS



Optic  
VECTOR by IMETRUM



Clip-On



Automatic



Safety guard



Double area

### WIDE RANGE OF GRIPS AND FIXTURES



Tensile Grips

- Manual
- Pneumatic
- Hydraulic



Compression plates



Peeling

- Climbing drum
- 90°
- Controlled angle
- More on demand



Bending bench

- 3 points
- 4 points



Shearing

Special equipment on request

### CLIMATIC CHAMBER AND FURNACE



### ERGONOMIC BASE







# HOYTOM DI-CP

## POWER, PRECISION AND FLEXIBILITY FOR YOUR INDUSTRIAL TESTING

The **HOYTOM DI-CP** range is designed for tensile, compression, flexure and shear tests on demanding materials such as metals, cables, fasteners, concrete and composites.

Ideal for laboratories, R&D centres and industry, stands out for its robustness, accuracy and advanced technology.

### HOYTOM DI-CP :

- Double test area
- Optimum accuracy
- Intuitive control
- HOYWIN® software
- Wide range of accessories
- Reliability and durability

### DI-CP/V4 :

- Extended capacity
- Adaptable speed and space

### DI-CP/V2 :

- Reinforced capacity
- Customized working area



HOYTOM DI-CP/V2



HOYTOM DI-CP/V4



## FEATURES

MACHINE	DI-CP / V2		DI-CP / V4		
Capacity (kN)	1 000	1 500	600	1 000	1 500
Travel speed (mm/min)	150	100	150	150	100
Return speed (mm/min)	190	140	200	200	150
Piston travel (mm)	300	300	500	500	500
Vertical space between grips (mm)	50 - 1 000	50 - 1 100	100 - 600	100 - 600	100 - 600
Horizontal space in tensile area (mm)	750	830	615	800	800
Horizontal space in compression area (mm)	450	490	330	450	490
Maximum height	4 500	4 500	3 400	3 900	4 000
Dimensions (mm)	L 1 470 x P 1 330 x H 4 200	L 1 550 x P 1 330 x H 4 200	L 1 000 x P 780 x H 2 900	L 1 230 x P 975 x H 3 400	L 1 230 x P 975 x H 4 500
Hydraulic group dimensions (mm)	L 930 x P 1 000 x H 1 650	L 930 x P 1 000 x H 1 650	L 930 x P 1 000 x H 1 650	L 930 x P 1 000 x H 1 650	L 930 x P 1 000 x H 1 650
Weight (kg)	5 400	6 250	2 400	4 250	5 200
Hydraulic group weight (kg)	250	250	250	250	250
Power supply (V)	380V Three-phase	380V Three-phase	380V Three-phase	380V Three-phase	380V Three-phase
Warranty	3 years	3 years	3 years	3 years	3 years

Also available in 2.000 kN on demand!

## AVAILABLE ACCESSORIES

### EXTENSOMETER



Optic  
VECTOR by IMETRUM



Clip-On



Automatic



Tensile grips for flat specimens



Bending bench

UNIVERSAL TESTING MACHINES



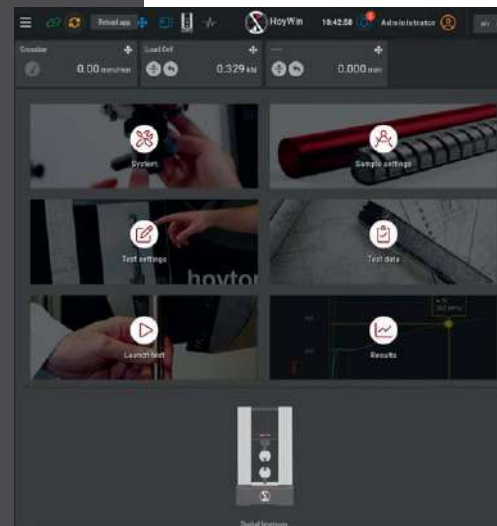
# SOFTWARE HOYWIN®

## THE REFERENCE IN TEST MANAGEMENT, SIMPLE AND ACCESSIBLE

**HOYWIN®** is the control software designed to work perfectly with **HOYTOM** machines, offering an ultra-practical and intuitive solution for all your materials testing. Thanks to its web-based technology, it allows you to manage everything without installing anything on your equipment.

**HOYWIN®** is **compatible with all operating systems** – Windows, macOS, Linux, Android, iOS – and guarantees you easy and flexible access to your test data, wherever you are.

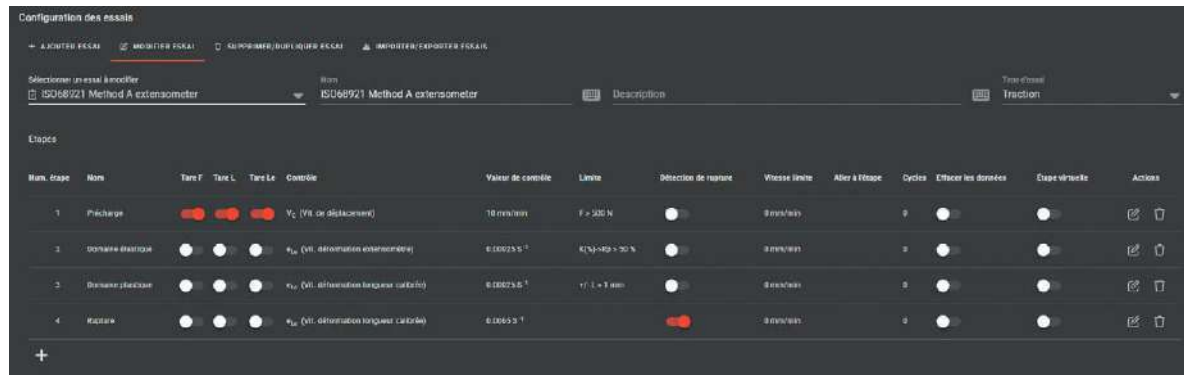
- Web technology
- Full compatibility
- Easy to use
- Evolution and precision



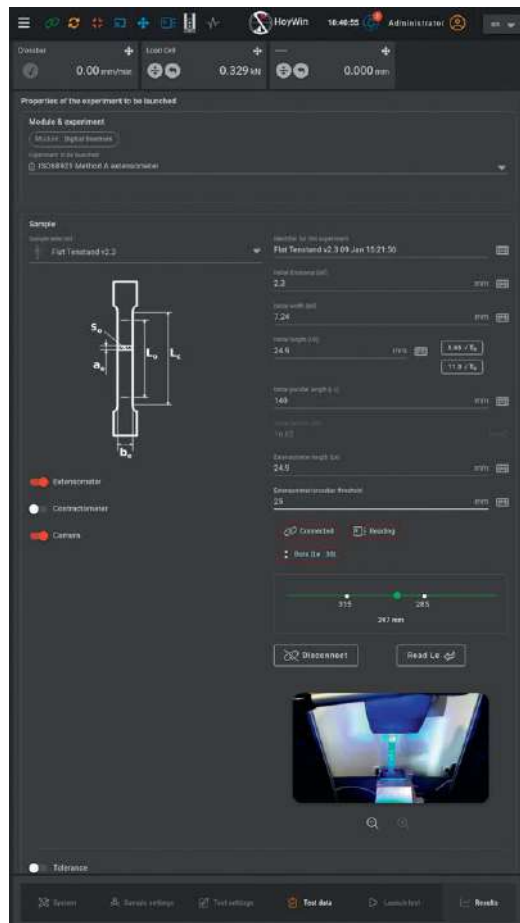
Home page



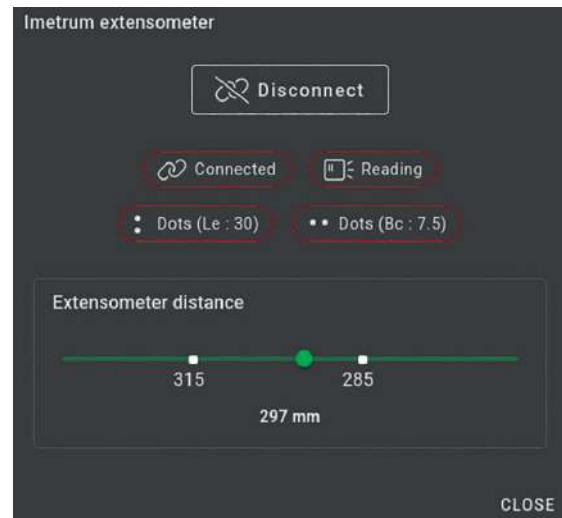
Smart data display



Creation of custom methods according to international or internal standards



Simple and intuitive customization of test conditions



Specialized interface for Vector positioning



Generate customized reports



# HYTT

## THE METAL PENDULUM, EMPOWERED BY HOYWIN® SOFTWARE

Specially designed for impact testing on metal, the **HYTT** from **HOYTOM** combines robustness, precision and **advanced technology**.

Compliant with **Charpy** and **Izod** standards, it offers capacities ranging from 300 to 750 Joules, perfect for evaluating the strength of metallic materials.

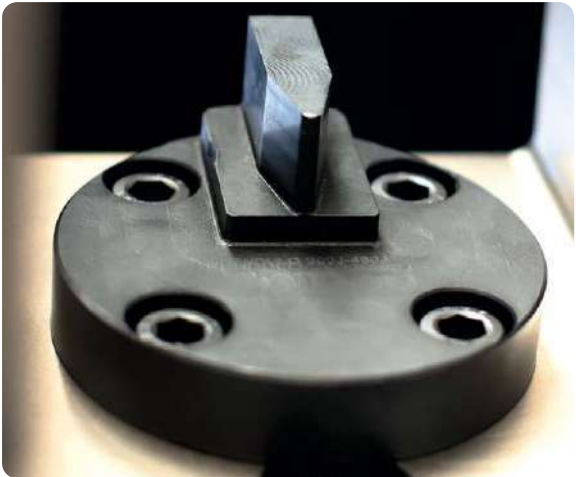
Thanks to its integration with the HOYWIN® software, it turns every test into a **simple, fast** and **high-performance** experience.

- **HOYWIN® technology**
- **Accuracy and viability**
- **Complete automatization**
- **Enhanced security**
- **Intuitive interface**
- **Compliant with international standards**



FEATURES

METAL PENDULUM			
Capacity (J)	300	450	750
Launching angle (°)	150	150	150
Arm length (mm)	800	800	800
Maximum speed at impact (m/s)	5.42	5.42	5.42
Resolution (J)	0.01	0.01	0.01
IZOD option	Available	Available	No available
Strikers	R2mm and R8mm included	R2mm and R8mm included	R2mm and R8mm included
Standards	Compliant with ISO 148 and ASTM E23	Compliant with ISO 148 and ASTM E23	Compliant with ISO 148 and ASTM E23
Dimensions (mm)	L 2100 x P 1140 x H 2550	L 2100 x P 1140 x H 2550	L 2200 x P 1195 x H 2635
Weight (kg)	3000	3000	3800
Power supply (V)	220	220	220
Warranty	3 years	3 years	3 years



Strikers compliant with ISO and ASTM standard, easily removable

AVAILABLE ACCESSORIES

NOTCHING MACHINES



Manual



Automatic

BROACHES



- V notch 42 HRC
- V notch 52 HRC
- U notch 32 HRC
- U notch 42 HRC

AUTO-CENTERING ASSIST



CRYOGENIC BATH







# HYTP

## THE PENDULUM FOR IMPACT TESTING ON POLYMERS, EQUIPPED WITH HOYWIN® SOFTWARE

Designed for impact testing on polymer materials, **HOYTOM'S HYTP** combines precision, safety and advanced technology. Adapted to **Charpy** and **Izod** standards, it offers ideal measurement capabilities for evaluating polymer resistance.

Incorporating **HOYWIN®** software, the **HYTP** transforms each test into a **simple, fast** and **high-performance** experiment.

- **HOYWIN® technology**
- **Accuracy and reliability**
- **Adapted power**
- **Complete automatization**
- **Enhanced security**
- **Intuitive interface**
- **Compliant with international standards**



## FEATURES

### PENDULUM

Maximum capacity (J)	25	50
Arm length for hammer < 5 J (mm)	230	340
Arm length for hammer > 5 J (mm)	340	340
Impact speed for hammer < 5 J (mm/min)	2,9	3,46
Impact speed for hammer > 5 J (mm/min)	3,46	3,46
Hammer starting position	Manual	Automatic
Resolution (J)	0.01	0.01
Power supply (V)	220	220
Weight (kg)	200	500
Dimensions (mm)	L 1000 x P 600 x H 1000	L 1250 x P 800 x H 1040
Available CHARPY hammers for ISO standard (J)	2 - 4 - 5 - 7.5 - 15 - 25	2 - 4 - 5 - 7.5 - 15 - 25 - 50
Available CHARPY hammers for ASTM standard (J)	2.7 - 5.4 - 10.8 - 21.6	2.7 - 5.4 - 10.8 - 21.6 - 50
Available IZOD hammers (J)	2.75 - 5.5 - 11 - 22	2.75 - 5.5 - 11 - 22
Warranty	3 years	3 years

## AVAILABLE ACCESSORIES

### IZOD TESTING MODULES



### MANUAL CENTERING ASSISTANCE



### 50 J AND 25 J HAMMER



### NOTCHING MACHINE



## 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.



**WORLDWIDE**  
DISTRIBUTION  
On request



"S" sensor



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.



**WORLDWIDE**  
DISTRIBUTION  
On request



3 component sensor



6-component sensor

## 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.



**WORLDWIDE**  
DISTRIBUTION  
On request



Torque meters  
for torque tools



Torque meters  
for cap tightening  
control



Static torque meters



Dynamic torque meters

# NON-DESTRUCTIVE TESTING

## 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 permascopes measures the thickness of the coating deposited on a metal part.



**WORLDWIDE**  
DISTRIBUTION  
On request



Thickness controllers  
for paper, cardboard,  
plastic and aluminum films



Coating thickness  
ultrasonic Controllers



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.



**WORLDWIDE**  
DISTRIBUTION  
On request



Roughness  
measuring  
device



Glass roughness  
standards  
Choice of: Ra 0.8 /  
1.5 / 2.2 / 2.3 / 3µm



Metal roughness standards  
Choice of: Ra 0.04 / 0.06 / 0.1 /  
0.3 / 0.5 / 1 / 3 / 3.15 / 6.37µm



Step height  
standards



Comparison  
standards

## DYNAMOMETERS

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



**WORLDWIDE**  
DISTRIBUTION  
On request



Hydraulic  
dynamometer



Traction  
dynamometer



Dynamometer rings  
(with analogue or digital display)



Electronic  
dynamometers

## NON-DESTRUCTIVE TESTING

### SMALL MANUAL 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.



**WORLDWIDE**  
DISTRIBUTION  
On request



Manual machine with force  
and displacement measurement  
Maximum force 2kN



Manual bi-column machine  
with force measurement  
Maximum force 5kN



Motorized machine with force  
and displacement measurement  
Maximum force 5kN

### 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.



**WORLDWIDE**  
DISTRIBUTION  
On request



Two-column machines



Single column machines



SERVICES

# CONTROL & MAINTENANCE

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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 enables the determination of equipment compliance or classification based on a set of criteria defined in normative standards.

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 (non-exhaustive list).

For controls carried out under accreditation, refer to the COFRAC website ([www.cofrac.fr](http://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



**Services are carried out either on the customer's premises or in the workshop** (for portable equipment only), by experienced technicians capable of providing technical support.



**The measurement readings are taken using standards or reference materials calibrated by accredited bodies,** ensuring 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 on machine operation can also be conducted by our technicians.** Several key aspects are covered during the session:

- Support with test setup
- Assistance in drafting test procedures
- Explanation of applicable testing standards
- Practical testing on customer parts

## Our intervention areas

OUR TECHNICIANS  
OPERATE IN EUROPE  
IN THE FOLLOWING COUNTRIES:

**FRANCE,  
BELGIUM,  
SWITZERLAND,  
LUXEMBOURG,  
GERMANY,  
SPAIN,  
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, subject to adaptation depending on machine type and brand):

- Replacement of wear parts
- Cleaning of optical components, weights, comparators, and change over switches
- Draining and filter replacement on hydraulic machines
- Inspection and functional check of safety systems.

## FLEXIBLE MAINTENANCE SERVICES TO SUIT YOUR SPECIFIC NEEDS:



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 enhances precision and reproducibility, while also enabling integration of 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, for over 50 years, we've been listening to our clients to support them in improving their testing equipment — regardless of brand or technology.



ZWICK 1485 250KN



UTS 200KN



WOLPERT TZ2250



ZWICK Z010TN25 10KN



Control Electronics



Retrofitting of hardness test machine

# ENGINEERED TO FIT 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  
and thermal chamber**



**Climatic chamber**



**Long Travel  
Extensometer**



**Vector**

**Docks**



**Hydraulic docks**

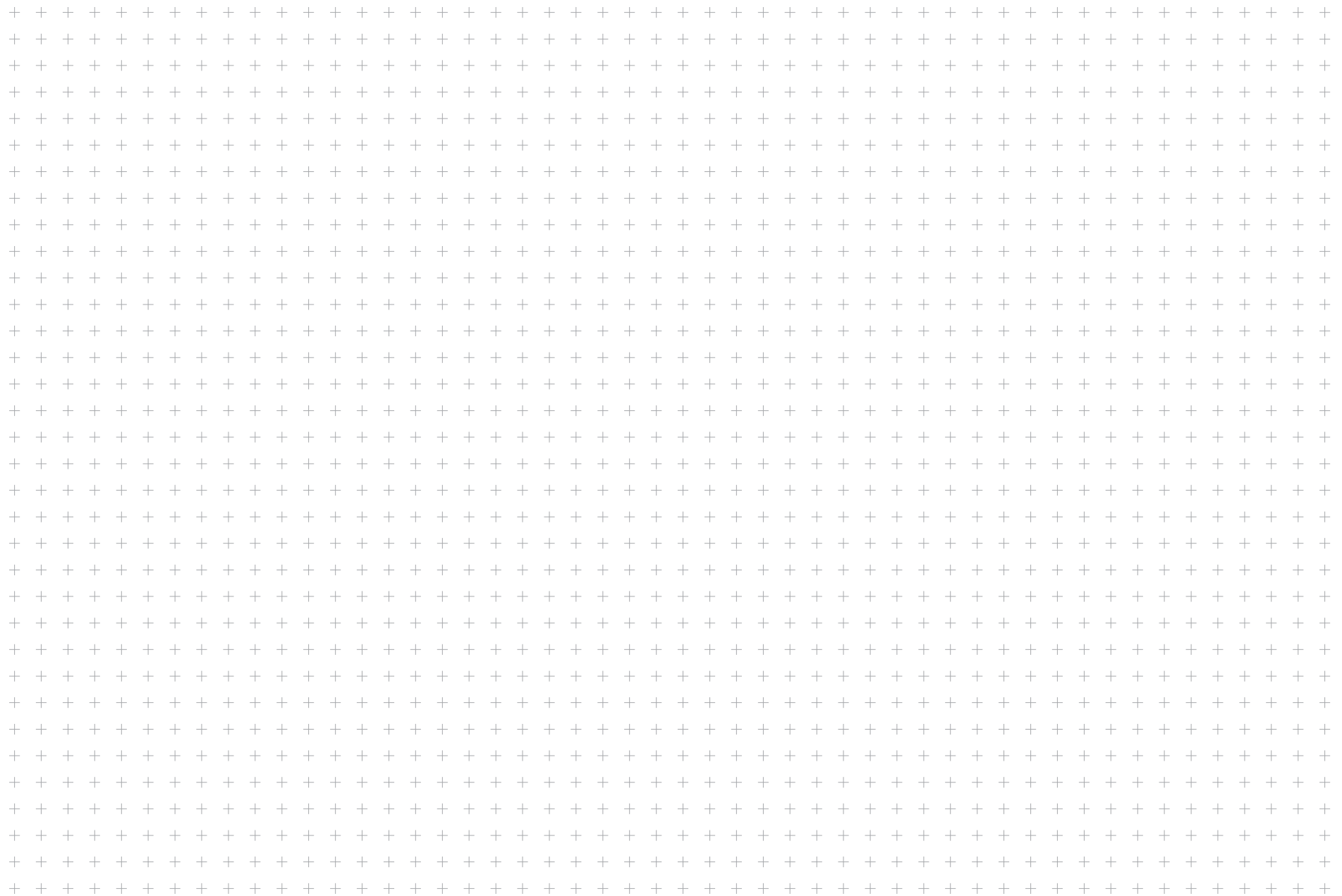


**Corners docks**

**Hardness  
Determination**



# NOTES





## NOTES

# NOTES





# A TEAM AT YOUR SERVICE

Proximity is an important value  
for PRESI, HOYTOM and TESTWELL CONTROL.  
Whatever your request,  
you can trust our experienced team  
to provide you with the advice  
and answers you need.

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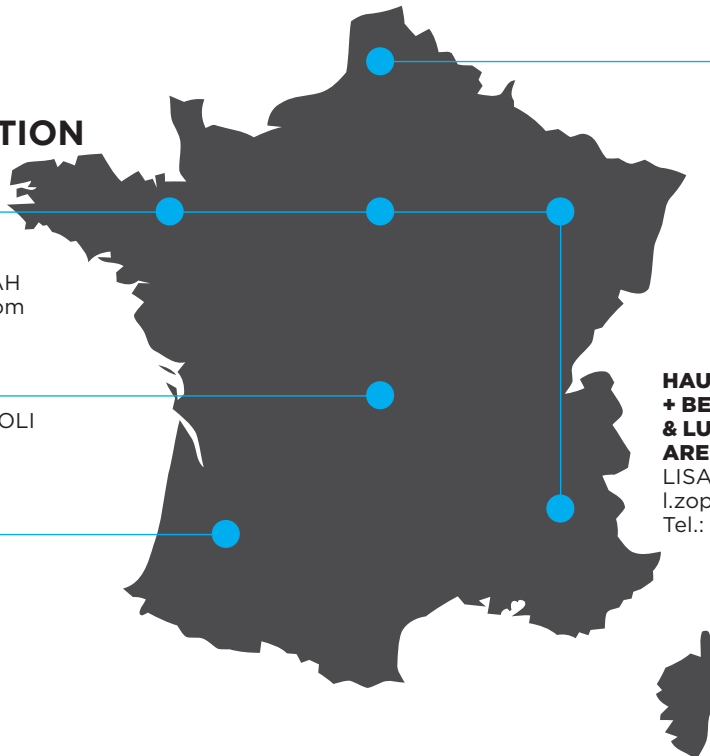
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