

PRESI

GLOBAL OFFER 2015-2016



CUTTING



MOUNTING



POLISHING



MICROSCOPY AND HARDNESS

A NEW WAY OF LOOKING AT METALLOGRAPHY



FRANCE SWITZERLAND CHINA GERMANY AND MORE THAN 35 DISTRIBUTORS THROUGHOUT THE WORLD



INNOVATION AND PRECISION THROUGHOUT THE WORLD

Challenges continue to occur in metallography, PRESI evolves accordingly.

We constantly strive to improve our product offering in terms of innovation and precision in an effort to delight our customers in anticipation of the needs of tomorrow.

Recognised around the world since 1961, the PRESI brand is firmly established through International presence combined with real proximity via our subsidiaries in China, Germany and Switzerland.

In France and abroad, our laboratories accompany booming business sectors such as aerospace, automotive, research and heavy industry...

We face new metallographic challenges every day, they stimulate our creativity.

More flexibility with customised solutions developed by our R&D department. More technology, more innovation, increased precision, flexibility.

This is the PRESI global offering.

**“I WANT A CLOSE RELATIONSHIP OF
PROXIMITY WITH OUR CUSTOMERS,
WHEREVER THEY ARE.”**



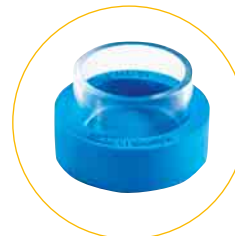
CUTTING



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MOUNTING



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EVERYTHING YOU NEED FOR YOUR LAB



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POLISHING



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MICROSCOPY AND HARDNESS



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**“PRESI CONTINUOUSLY OPTIMISES
AND WIDENS ITS RANGE OF
PRODUCTS. THE OBJECTIVE IS CLEAR:
EXCEED EXPECTATIONS.”**



UNDERSTANDING IS NECESSARY TO PRACTICE METALLOGRAPHY. LEARNING IS NEEDED TO UNDERSTAND.

Our premises or yours.
With PRESI machines or with yours.
For trainees or experienced people.

Thanks to Metallotraining you can choose whatever you need.

Objective: to learn, understand- and practice.
A thorough and comprehensive overview of tools and their use.
From theory to practice. By experts.



**"METALLOTRAINING
OR ASSISTED METALLOGRAPHY."**





**PRESI
R&D**

OPTIMISE, IMAGINE, INNOVATE. PUSHING THE LIMITS OF WHAT IS POSSIBLE.

New needs, specific technical situations:
The Metallographic market is in perpetual motion.
Faced with these challenges, we adapt
our solutions.

From creation of prototypes to customised development.
Continual investment boosts our business
and production.

This is why our machines are fully
redesigned every 6 years on average.



**“WHETHER IN CHINA, CANADA
OR AUSTRALIA, IT MUST BE POSSIBLE
TO CHANGE A PART EASILY.”**



"LABORATORY IN EACH OF OUR SUBSIDIARIES, IS ESSENTIAL. THIS IS THE WAY WE CAPTURE THE EXPERIENCES OF OUR R&D, AS OUR CUSTOMER ONES."



ANALYSE, OBSERVE, TEST. MASTER ALL COMBINATIONS.

This is a real accelerator of technical development. PRESI LAB, a state-of-the-art center oriented to constant optimisation. PRESI LAB expands upon technology developed by the R&D department, simulating situations analysed with our customers. Test, re-test until you find the "recipe", the most accurate one. A keystone of PRESI expertise.





CUTTING

Preservation of the specimen to be cut for observation is essential. For this reason, Presi cut off saws are engineered for precision yet are powerful and ergonomic in use. Increased cutting capacity, innovation and precision.

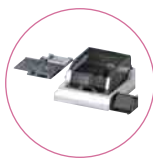
Absolute **control** without compromise.

“THE DESIGN OF METALLOGRAPHIC PREPARATION TOOLS THAT YIELD REPEATABLE AND TOTALLY RELIABLE RESULTS IS A CORE COMPETENCY OF PRESI.”



MECATOME T180

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EVO 400

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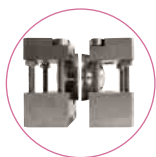
DIAMOND WIRE SAWS

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SPECIAL NUCLEAR

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MADE-TO- MEASURE

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PRESI GUIDE

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CONSUMABLES

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MECATOME T180

Ref. 51700

Width: 430mm
Depth: 380mm
Height (closed lid): 330mm
Weight: 30 kg
Conformity: EC



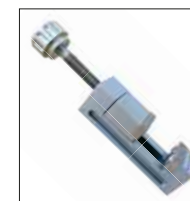
MECATOME T180, a new generation precision cutting machine

Robustly built with compact dimensions, it has the ability to cut a wide range of materials (from the hardest to the softest).

The large tactile screen provides an easy to use interface to control all cutting parameters and display X-axis positioning of the cut.

Characteristics

Hood	
Type	PETG
Safety	Closure switch to cut off motor when hood opened
Motorization-Power supply	
Power	575 W
Power supply	220 V / Single phase / 50 Hz-upon request 110 V / Single phase/60 Hz
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	From Ø 75 to Ø 180mm
Rotation speed	From 300 to 2.500 RPM-Option: slow speed kit from 100 to 1.200 RPM
Arbor size	12.7mm
Control	
Control Interface	Color touch control screen
Security Access	Can activate password protection
Programmability	Up to 3 programs
Cutting	
Cutting method	Manual or by gravity (Weight/counter-Weight)
X axis range	100mm X-axis movement of the sample carrier arm
Holders	Sample carrier arm will accept a wide variety of holders
Lubrication-Cooling	
Pump & tank	Integrated-Capacity 2.5 L
Type of lubrication	Recirculating pump or drag feed
Method of directing pumped coolant	A single alignable nozzle
Type of filtration	Exchangeable paper filters
Ergonomics	
Spray nozzle for cleaning	Integrated



51722



51715

ACCESSORIES MECATOME T180

Vice

51722

Mini screw vice

Sample chucks

51715

V shaped sample chuck

51717

Vice chuck for longitudinal cuts

51718

Vice chuck for longitudinal cuts
(Length 53mm)

51713

Chuck for small samples (Vice Type)

51156

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

51714

Chuck for cylindrical sample

51716

Irregular shaped sample chuck

51162

Set of 5 Aluminium plates (60 x 25mm)
for samples sticking

51163

Set of 5 Aluminium plates (40 x 25mm)
for samples sticking

Flanges

51710

Set of 2 flanges \varnothing 35mm for wheel
 \varnothing 75 to 100 mm

51711

Set of 2 flanges \varnothing 50mm for wheel
 \varnothing 100 to 150 mm

51712

Set of 2 flanges \varnothing 75mm for wheel
 \varnothing 150 to 180mm

Other accessories

51719

Set of 10 filters for T180

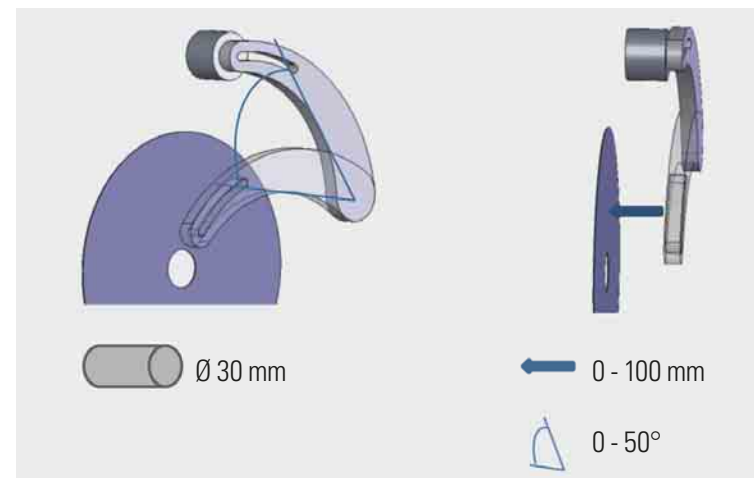
51720

Low speed kit 100 to 1 200 RPM T180/Flexicut

51730

Self lighting LED on magnetic base

Cutting envelope*



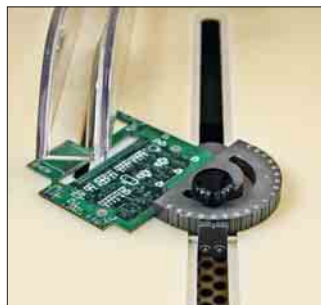
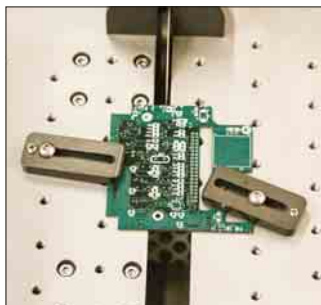
* This illustration of the cutting envelope of the MECATOME T180 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.



FLEXICUT

Ref. 51800

Width: 800mm
Depth: 665mm
Height (closed lid): 375mm
Weight: 52 kg
Conformity: EC



FLEXICUT, a machine designed for sectioning circuit boards

PCB (Printed Circuit Boards): the multiplicity of formats, soldering techniques, conductivity systems, are various cases that need dedicated tools.

PRESI created FLEXICUT, a versatile cutting machine designed for the sectioning requirements in the production quality control of printed circuit boards. With its versatility, it is also suited to a variety of other metallographic cutting applications.

Characteristics

Hood	
Type	PETG enclosure with metal hinges
Safety	Closure switch to cut off motor when hood opened
Fumes extraction outlet	45mm
Motorization-Power supply	
Power	575 W
Power supply	220 V / Single phase / 50 Hz-110 V / Single phase / 60 Hz
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	From Ø 75 to Ø 180mm-Ø 200mm for PCB cutting
Rotation speed	From 300 to 2.500 RPM-Option: slow speed kit from 100 to 1.200 RPM
Arbor size	12.7mm
Control	
Control Interface	Color touch control screen
Security Access	Can activate password protection
Cutting	
Cutting method	Manual or by gravity (Weight/counter-Weight)
Type of table movement	Fixed or moving table options (Y axis) for PCB sectioning
Y axis range	Length of Y axis traverse-230mm
X axis range	100mm X-axis movement of the sample carrier arm
Table dimensions	Fixed table option 390 x 200mm Moving table option 390mm x 200mm (15" x 8")
Table material	Option table with longitudinal movement- micro-rollers stainless steel table
Holders	Sample carrier arm will accept a wide variety of holders
Lubrication-Cooling	
Pump & tank	Integrated-Capacity 2.8 L
Type of lubrication	Recirculating pump or drag feed
Method of directing pumped coolant	A single alignable nozzle
Type of filtration	Exchangeable paper filters
Ergonomics	
Spray nozzle for cleaning	Integrated



51722



51715



51717



51718



51713

ACCESSORIES FLEXICUT

Vice

51722

Mini screw vice

Porte-échantillons

51715

V Shaped sample chuck

51717

Vice chuck for longitudinal cuts

51718

Vice chuck for longitudinal cuts
(Length 53mm)

51713

Chuck for small samples (Vice Type)

51156

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

51714

Chuck for cylindrical sample

51716

Irregular shaped sample chuck

51162

Set of 5 Aluminium plates 60 x 25mm
for samples sticking

51163

Set of 5 Aluminium plates 40 x 25mm
for samples sticking

Tables and positioning

51801

Forward movement stage for PCB Cuts

51802

Fixed stage for PCB cuts

Flanges

51710

Set of 2 flanges Ø 35 mm for wheel
Ø 75 to 100 mm

51711

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

51712

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

Other accessories

51720

Low speed kit 100 to 1 200 RPM T180/Flexicut

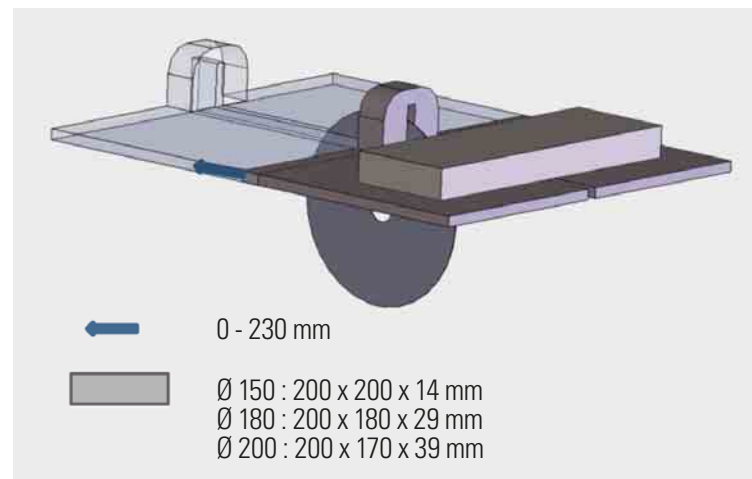
51721

Set of 10 filters for Flexicut

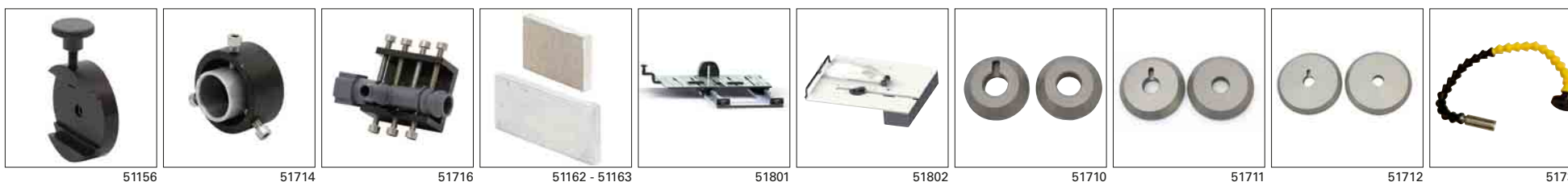
51730

Self lighting LED on magnetic base

Cutting envelope*



* This illustration of the cutting envelope of the FLEXICUT is to show the maximum theoretical capacity only.
The actual capacity in practice will depend on the sample geometry and its physical properties.



51156

51714

51716

51162 - 51163

51801

51802

51710

51711

51712

51730

MECATOME T210

Ref. 51400

Width: 758mm
Depth: 753mm
Height (closed lid): 505mm
Weight: 90 kg
Conformity: EC



MECATOME T210, the best in its class

MECATOME T210 provides for rapid cutting of medium size parts and the possibility of multiple serial sections with the optional X axis drive. Positional accuracy and a range of speeds is ensured with the use of high precision motors for the Y axis and the optional X axis. Cutting of even the most difficult materials is ensured with the powerful cutter motor and Y axis motion being optimised and under automated control. The work area under the hood is spacious, well lit and equipped with a "T" slot table compatible with most clamping systems available. Sample cooling and lubrication can be by the internal self-contained system or through the use of an external re-circulating system."

Characteristics

Hood	
Type	PETG enclosure with metal hinges
Safety	Interlock switch keeps hood locked during cutting
Motorization-Power supply	
Power	1 500 W
Power supply	220 V / Single phase / 50 Hz
Control of the motor	Frequency inverter
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	From Ø 75 to Ø 203mm
Rotation speed	From 300 to 6.000 RPM
Arbor size	12.7mm
Control	
Control Interface	Color touch control screen
Security Access	Can activate password protection
Programmability	Up to 100 programs protected by password
Cutting	
Cutting modes	Assisted, automatic, programmed, pulse mode
Type of table movement	Motorised Y axis motion
Y axis speed	From 0.01 to 3mm/s
Cutting control	Automated regulation optimised to the motor ratings
Y axis range	Optional 251mm Y-axis movement of the table
X axis range	Optional 100mm X-axis movement of the table
Z axis range	60mm
Serial sectioning	Option (motorised X table)
Dimensions of the tables	Left table: 82 x 210mm-Right table: 142 x 210mm
Space under cut-off wheel	40mm (with cut off wheel Ø 200mm)
Type of table	Treated aluminum table with exchangeable stainless blocks
Holders	Sample carrier arm will accept a wide variety of holders
Lubrication-Cooling	
Pump & tank	Integrated-Capacity 10 L-Option: 25 L external pump and tank
Type of lubrication	Internal recirculating pump or optional external recirculating unit
Method of directing pumped coolant	6 nozzles in the blade guard
Type of filtration	Integrated: filtration grid-External: 100 µm washable filter cloth
Ergonomics	
Internal lighting	LED
Spray nozzle for cleaning	Integrated



51319 - 51321



51722



51356



50613



50616



51715



51717



51718

ACCESSORIES MECATOME T210

Vices and Holders

- 51319**
Quick clamping vice right side
- 51321**
Quick clamping vice left side
- 51722**
Mini screw vice
- 51356**
Quick clamping vice for long sample
- 50613**
Box of Kopal holders
- 50616**
Kopal holding

Flanges

- 51326**
Set of stainless steel flanges Ø 50 mm for wheels
Ø 100 to 150 mm
- 51327**
Set of stainless steel flanges Ø 35 mm for wheels
Ø 75 to 100 mm
- 51325**
Set of stainless steel flanges Ø 75 mm for wheels
Ø 150 to 200 mm

Tables & positioning

- 51420**
Motorised traversing table
- 51355**
Manual traversing table
- 51323**
Rotating vice
- 51430**
Positioning laser

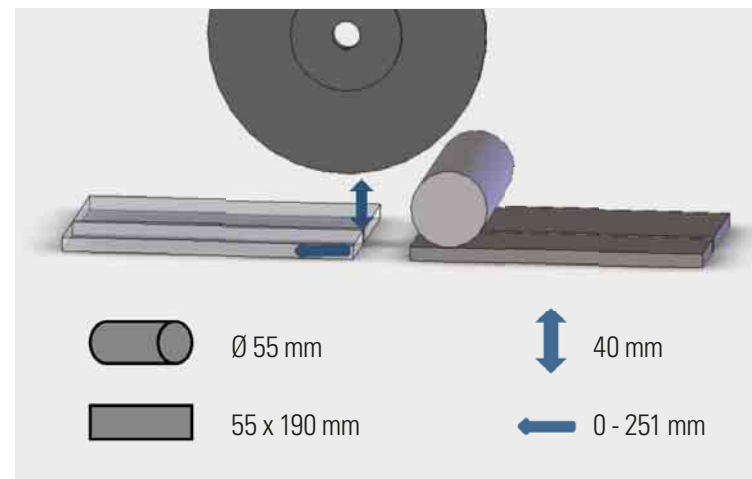
Sample chucks

- 51715**
V Shaped sample chuck
- 51717**
Vice chuck for longitudinal cuts
- 51718**
Vice chuck for longitudinal cuts
(Length 53mm)
- 51713**
Chuck for small samples (vice type)
- 51156**
Orientable chuck (to be used with aluminium plates
Ref. 51162 and 51163)
- 51714**
Chuck for cylindrical sample (up to 32mm)
- 51716**
Irregular shaped sample chuck
- 51162**
Set of 5 aluminium plates 60 x 25mm
for sample sticking
- 51163**
Set of 5 aluminium plates 40 x 25mm
for sample sticking
- 51410**
Sample chucks (to use only with a transversal table)

Other accessory

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

Cutting envelope*



* This illustration of the cutting envelope of the MECATOME T210 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.



51713

51156

51714

51716

51325 - 51326 - 51327

51420

51355

51323

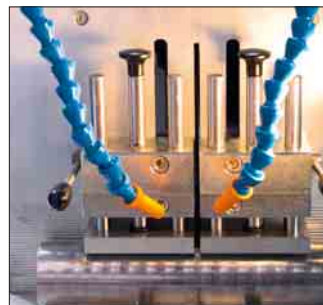
51410

51006

MECATOME T260

Ref. 51200

Width: 610mm
Depth: 820mm
Height (closed lid): 520mm
Weight: 110 kg
Conformity: EC



MECATOME T260, a reliable, robust and versatile cut-off machine

MECATOME T260 provides maximum flexibility and rapid set up through the provision of an easily accessible cutting table that allows quick sample clamping in either the vertical or horizontal plane with the provided vises. MECATOME T260 can also be equipped with other types of vise from the available accessories to allow a range of sample geometries to be clamped.

The motor / blade assembly on the MECATOME T260 has been carefully designed to provide optimum balance during the cut for improved precision and reduced effort for the user.

Characteristics

Hood	
Type	PETG enclosure with metal hinges
Safety	Interlock switch keeps hood locked during cutting
Motorization-Power supply	
Power	2 200 W
Power supply	220 V / Single phase / 50 Hz
Control of the motor	Frequency inverter
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	250 and 300mm
Rotation speed	3.200 or 3.800 RPM, option variable speed 1.500 RPM to 4.000 RPM
Arbor size	25.4mm
Control	
Control Interface	Push buttons
Cutting	
Cutting modes	Manual
Type of table	Treated steel table in L
Holders	Vices in horizontal or vertical position-Kopal
Lubrication-Cooling	
Pump & tank	External-25 L
Type of lubrication	External recirculating system
Method of directing pumped coolant	2 alignable nozzles
Type of filtration	100 µm washable filter cloth
Ergonomics	
Internal lighting	LED
Spray nozzle for cleaning	Optional

ACCESSORIES MECATOME T260

Vices and Holders

51210
Left and right quick clamping vices
Height 45mm

51213
Left quick clamping vice
Height 45mm

51214
Right quick clamping vice
Height 45mm

50613
Box of Kopal holders

50616
Kopal holding

Tables & positioning

51212
Manual X-axis table

Other accessories

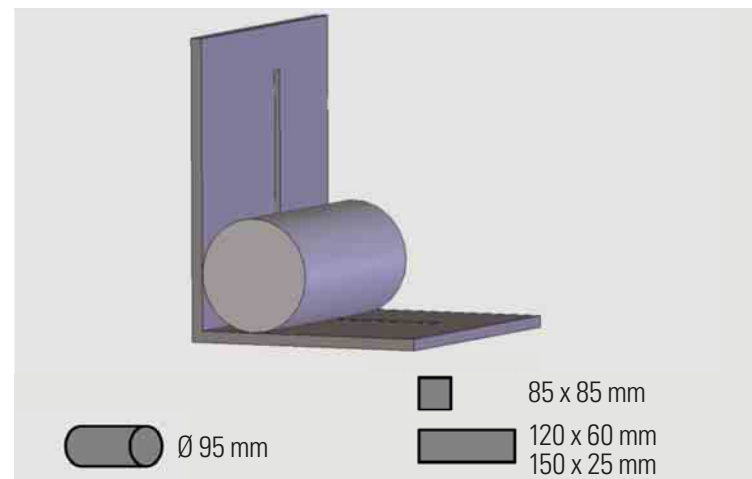
51006
Base Cabinet
Width 770mm x depth 880mm
x height 855mm

51230
Cleaning Set

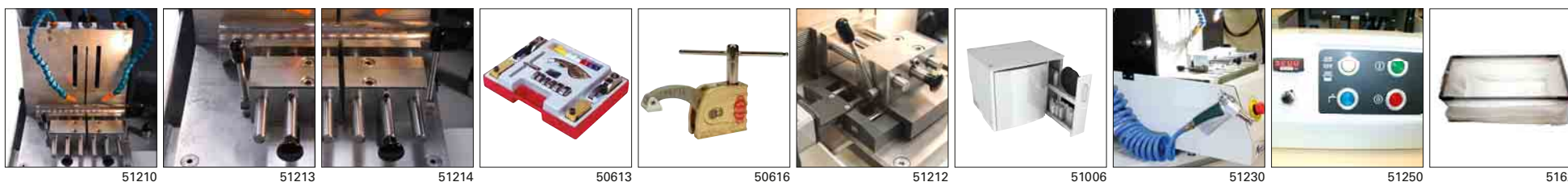
51250
Variable speed option (1.500 RPM to 4.000 RPM)

51621
Set of 3 filters for coolant tank

Cutting envelope*



* This illustration of the cutting envelope of the MECATOME T260 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.



51210

51213

51214

50613

50616

51212

51006

51230

51250

51621

MECATOME ST310

Ref. 50200

Width: 660mm (+ 120mm for the swinging arm)
 Depth: 880mm
 Height (closed lid): 660mm
 Weight: 120 kg
 Conformity: EC



51319 - 51321

50906

MECATOME ST310, a robust and reliable manual abrasive cut-off machine with a swing action for increased cutting speed

MECATOME ST310 with its PRESI exclusive swing arm action provides for increased length of longitudinal cut capacity and rapid sectioning without burning making it the highest performer in its class.

The utilisation of new technology for motor speed control provides constant wheel rotation speed even during the toughest cuts. A choice of 250mm or 300mm diameter cut-off blades coupled with up to 4 pre-set rotational speeds provides the optimum cutting condition for a wide range of materials. The MECATOME ST310 has been designed with the need to be able to easily accommodate samples that are longer than the chamber through the use of removable side ports. Sample set up is easy with the raised "T" slot bed, large, well lit cutting chamber and wide open access thanks to a fully retracting hood. Observation of the sample during the cutting operation is enhanced with the provision of extra-large windows in the hood.

The cutting table of the MECATOME ST310 has removable "T" slot beds made of stainless steel that can accommodate a wide range of sample fixturing devices. A recirculating coolant tank is included that is equipped with a filtering system to trap swarf and abrasive debris for a cleaner supply of coolant to the cut. An integrated stainless steel spray nozzle makes for easy wash down of the cutting chamber. The MECATOME ST310 is well suited for any metallurgical laboratory or for workshop use.

Characteristics

Hood	
Type	PETG enclosure with metal hinges and gas strut assisted lift
Safety	Interlock switch keeps hood locked during cutting
Fumes extraction outlet	76mm
Motorization-Power supply	
Power	3 700 W
Power supply	380 V / Three-phases / 50 Hz
Control of the motor	Frequency inverter
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	Up to 300mm
Rotation speed	2.800, 3.200, 3.700 or 4.000 RPM
Arbor size	25.4mm
Control	
Control Interface	Push buttons
Cutting	
Cutting modes	Manual swing action
Table dimensions	390 x 290mm
Distance between cut-off wheel and table	130mm (with a Ø 300mm wheel)
Type of table	Treated aluminum table with exchangeable stainless blocks
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed
Lubrication-Cooling	
Pump & tank	External-60 L
Type of lubrication	External recirculating system
Method of directing pumped coolant	2 ports in the wheel guard 2 alignable nozzles in the cutting chamber
Type of filtration	100 µm washable filter cloth
Ergonomics	
Internal lighting	LED
Spray nozzle for cleaning	Integrated

ACCESSORIES MECATOME ST310

Vices and Holders

51319

Right quick clamping vice

51321

Left quick clamping vice

50906

Left and right quick clamping vices
Height 45mm

50905

Left quick clamping vice
Height 45mm

50909

Right quick clamping vice
Height 45mm

50902

Double screw clamping vices Left and Right
Height 45mm

50901

Left screw clamping vice
Height 45mm

50613

Box of Kopal holders

50616

Kopal holding

Tables & positioning

51610

Manual X-axis table

Other accessories

51006

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

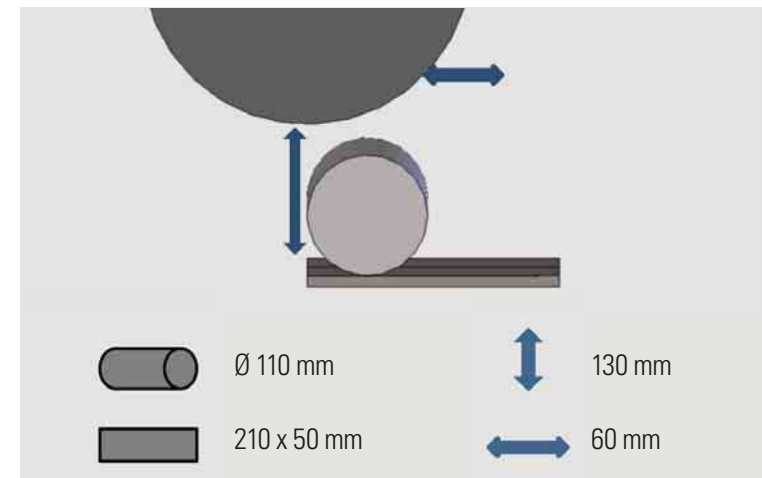
51620

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

50370

Kit of V positioning supports

Cutting envelope*



* This illustration of the cutting envelope of the MECATOME ST310 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.



50905

50909

50902

50901

50613

50616

51610

51006

51620

50370

MECATOME T300

Ref. 51600

Width: 650mm
Depth: 810mm
Height (closed lid): 600mm
Weight: 120 kg
Conformity: EC



51319 - 51321

50906

MECATOME T300, a manual or automated abrasive cut-off machine

MECATOME T300 is a powerful, robust and reliable cut-off machine employing the latest technologies to ensure ease of use and simplified maintenance. A choice of 250mm or 300mm diameter cut-off wheels coupled with variable rotational speed and automated feed provides the optimum cutting condition for a wide range of materials. The MECATOME T300 has been designed with the need to be able to easily accommodate samples that are longer than the chamber through the use of removable side ports.

Characteristics

Hood	
Type	PETG enclosure with metal hinges and gas strut assisted lift
Safety	Interlock switch keeps hood locked during cutting
Fumes extraction outlet	76mm
Motorization-Power supply	
Power	3 700 W
Power supply	380 V / Three-phases / 50 Hz
Control of the motor	Frequency inverter
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	Up to 300mm
Rotation speed	From 1.000 to 4.000 RPM
Arbor size	25.4mm
Control	
Control Interface	7 segments display + control panel
Cutting	
Cutting modes	Manual chop action or automated Y feed with optional pulse action
Table automation	Motor driven Y axis
Cutting control	Automated regulation of Y axis feed rate
Y axis travel	260mm
X axis travel	Option: 100mm
Table dimensions	390 x 230mm
Distance between cut-off wheel and table	80mm (with a Ø 300mm wheel)
Table type	Treated aluminium table with stainless steel "T" slots
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed
Lubrication-Cooling	
Pump & tank	External-60 L
Type of lubrication	External recirculating system
Method of directing pumped coolant	2 ports in the wheel guard 2 alignable nozzles mounted on the wheel assembly
Type of filtration	100 µm washable filter cloth
Ergonomics	
Internal lighting	LED
Spray nozzle for cleaning	Integrated

ACCESSORIES MECATOME T300

Vices and Holders

51319

Right quick clamping vice

51321

Left quick clamping vice

50906

Left and right clamping vices
Height 45mm

50905

Left quick clamping vice
Height 45mm

50909

Right quick clamping vice
Height 45mm

50902

Double screw clamping vices Left and Right
Height 45mm

50901

Left screw clamping vice
Height 45mm

50613

Box of Kopal holders

50616

Kopal holding

Tables & positioning

51610

Manual X-axis table

Other accessories

51006

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

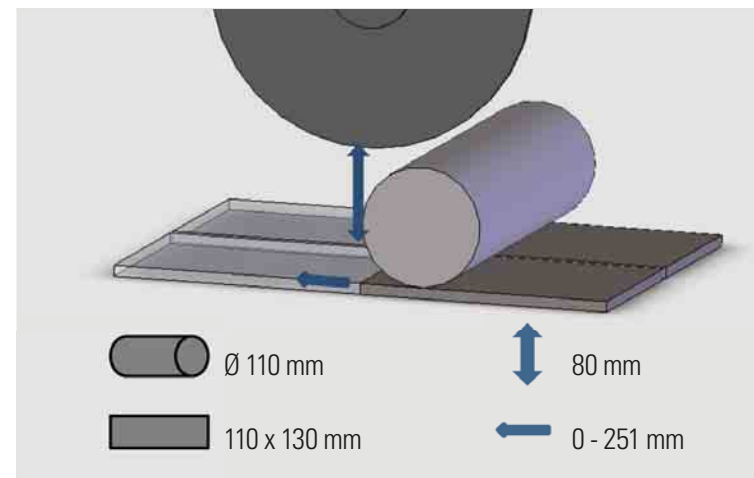
51620

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

50370

Kit of V positioning supports

Cutting envelope*



* This illustration of the cutting envelope of the MECATOME T300 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.



MECATOME T330

Ref. 50300

Width: 894mm
Depth: 844mm
Height (closed lid): 629mm
Weight: 190 kg
Conformity: EC



51319 - 51321

50906

MECATOME T330, high capacity cutting machine

MECATOME T330 is specially designed to be able to accommodate larger samples. With the raised cutting bed, unobstructed large cutting chamber and large hood with side ports, even very long pieces are easily mounted for transverse sectioning. For repeated serial transverse sections there is an optional motorised X-axis table available. The latest technology in motors and motor control is used for the X and Y drives to give optimum feed control and positional accuracy. Once set, control of the cutting motor speed and Y axis feed rate is automated to provide the optimal cut in the shortest time. The cutting chamber of the MECATOME T330 is very spacious, well lit and easy to clean. It is supplied with a large cutting table mounted with interchangeable stainless steel T slot beds that will accommodate a wide range of sample fixturing devices. Cutting wheel change is easy with the unobstructed design of the wheel guard and the built in arbor lock.

Characteristics

Hood	
Type	PETG enclosure with metal hinges and gas strut assisted lift
Safety	Interlock switch keeps hood locked during cutting
Fumes extraction outlet	76 mm
Motorization-Power supply	
Power	3 700 W
Power supply	380 V / Three-phases / 50 Hz
Control of the motor	Frequency inverter
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	Up to 300mm
Rotation speed	From 1.000 to 6.000 RPM
Arbor size	25.4mm
Control	
Control Interface	Color touch control screen
Security Access	Can activate password protection
Programmability	Up to 100 programs protected by password
Cutting	
Cutting modes	Manual chop action or automated Y feed with optional pulse action
Table automation	Motor driven Y axis
Y axis speed	From 0.01 to 3mm/s
Cutting control	Automated regulation of Y axis feed rate
Y axis travel	240mm
X axis travel	Option: 100mm
Serial cutting	Option (motorized X table)
Table dimensions	Left table: 192 x 230mm-Right table: 192 x 230mm
Positioning laser	Option
Distance between cut-off wheel and table	80mm (with a Ø 300mm wheel)
Table type	Treated aluminium table with stainless steel "T" slots
Holdes	Any sample fixturing system compatible with a 12mm "T" slot bed
Coolant system	
Pump & tank	External-60 L
Type of lubrication	External recirculating system
Method of directing pumped coolant	2 ports in the wheel guard 2 alignable nozzles mounted on the wheel assembly
Type of filtration	100 µm washable filter cloth
Ergonomics	
Internal lighting	LED
Spray nozzle for cleaning	Integrated

ACCESSORIES MECATOME T330

Vices and Holders

- 51319**
Right quick clamping vice
- 51321**
Left quick clamping vice
- 50906**
Left and right quick clamping vices
Height 45mm
- 50905**
Left quick clamping vice
Height 45mm
- 50909**
Right quick clamping vice
Height 45mm
- 50902**
Double screw clamping vices Left and Right
Height 45mm
- 50901**
Left screw clamping vice
Height 45mm
- 50613**
Box of Kopal holders
- 50616**
Kopal holding

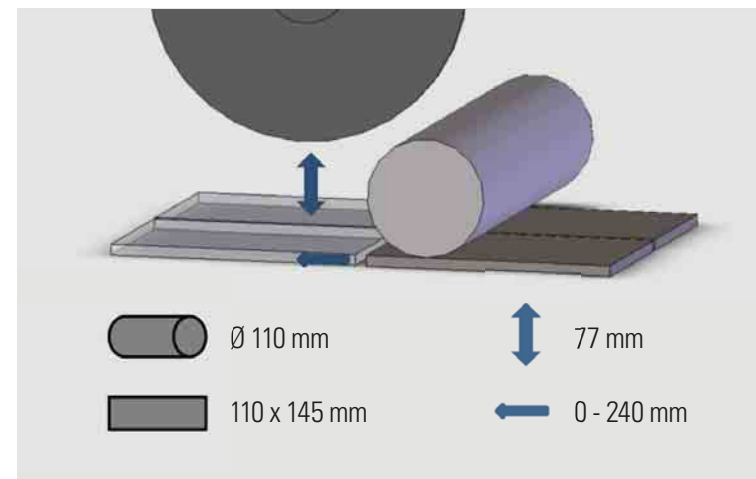
Tables & positioning

- 50305**
Motorised X-axis table
- 51610**
Manual X- axis table
- 51430**
Positioning Laser

Other accessories

- 51010**
Base cabinet with door and slide out
vertical drawer
Width 1 000mm x depth 880mm
x height 855mm
- 51620**
Set of 3 filters for coolant tank
ST310/T330/T300
- 50370**
Kit of V positioning supports

Cutting envelope*



* This illustration of the cutting envelope of the MECATOME T330 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.



50905

50909

50902

50901

50613

50616

51010

51610

51620

50370

NEW!

EVO 400

Ref. 50400

Width (closed screen): 1 140mm
 Width (open screen): 1 620mm
 Depth: 1 600mm
 Height (closed hood): 1 910mm
 Height (open hood): 2 380mm
 Weight: 750kg
 Conformity: EC

NEW!



Cutting machine EVO 400

EVO 400 brings a cutting solution for large samples (200mm high). This new machine - perfect for workshops - combines sturdiness and ease of use. Its programming guarantees cut repeatability. For ergonomic reasons, it is equipped with a motorised hood and a touchscreen, making the man-machine interface easier.

Characteristics

Hood	
Type	Metal frames & PETG
	Motorised opening and closing
Safety	Locked during motor rotation
Fumes extraction outlet	76mm
Motorization-Power supply	
Power	7500 W
Power supply	380 V / Three-phases / 50 Hz
Control of the motor	Frequency control
Cut-off wheels	
Type of cutting disk	Resinoid & diamond
Size of cutting disk	Up to 400mm
Rotation speed	1000 to 3000 RPM
Shaft diameter	32mm
Control	
Control interface	Colour touchscreen
Code protection	Can be activated
Programmable	Up to 100 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	Option: manual table 600 x 300 travel 300mm*
Axis X travel	Option: manual table 400 x 600 travel 200mm*
Axis Z travel	320mm
Table dimensions	600 x 600mm
Positioning laser	Option
Distance between cut-off wheel and table	200mm
Type of table	Treated aluminium table, interchangeable stainless steel palettes
Holders	Slotted T table (12mm) accepting all clamping systems available on the market
Lubrication - Cooling	
Pump & tank	External - 200 L
Type of lubrication	Pump
Method of directing pumped coolant	Cutting disk housing and 2 mobile sprinklers on the table
Type of filtration	100 µm washable textile filter
Ergonomics	
Internal lighting	LED
Spray nozzle for cleaning	Integrated

* Customisable tables and stroke lengths.

ACCESSORIES EVO 400

Vices and Holders

50510

Left and right quick clamping vices
Height 70mm

50911

Left and right quick clamping vices
Height 90mm

50906

Left and right quick clamping vices
Height 45mm

50905

Left quick clamping vice
Height 45mm

50909

Right quick clamping vice
Height 45mm

50617

Chain clamp

50613

Box of Kopal holders

50616

Kopal holding

50902

Left and right screw clamping vices
Height 45mm

50901

Left screw clamping vice
Height 45mm

50903

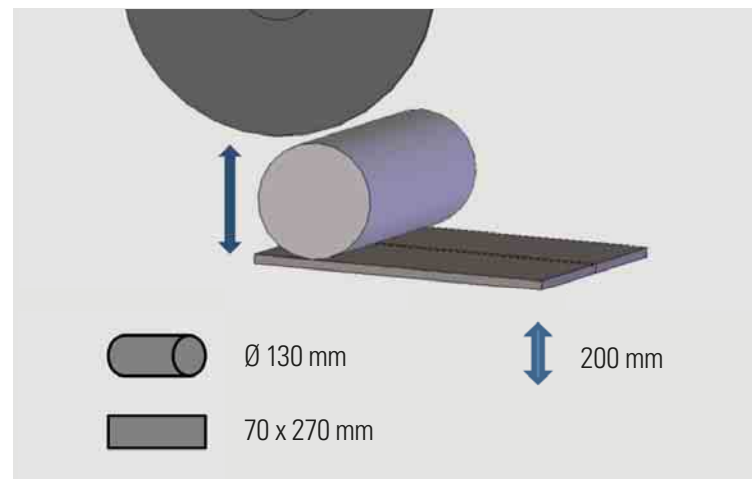
Right screw clamping vice
Height 45mm

Other accessories

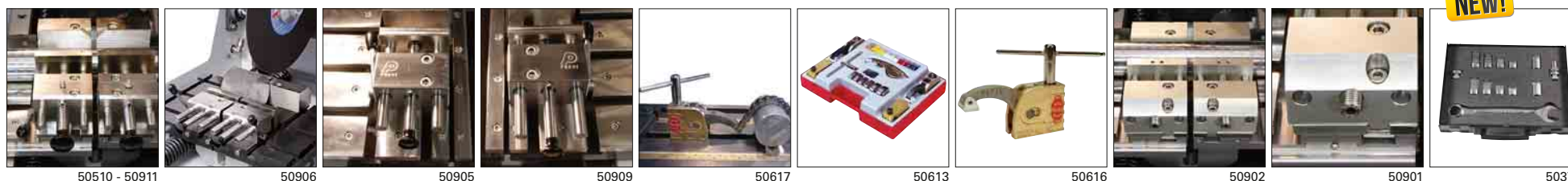
50370

Kit of V positioning supports

Cutting envelope*



* This illustration of the cutting envelope of the EVO400 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.



50510 - 50911

50906

50905

50909

50617

50613

50616

50902

50901

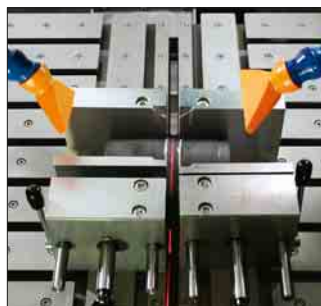
50370

EVO 500

Ref. 50800

Width: 1 660mm
Depth: 1 815mm
Height (hood closed): 1 955mm
Height (hood open): 2 430 mm
Weight: 1 100kg
Conformity: EC

**NEW
CAPACITY**



Cutting machine EVO 500

Equipped with the latest technologies EVO 500 can accept work pieces up to 200kg in weight and up to 240mm in height on its 600mm x 600mm cutting table. Perfect for cutting very large pieces, EVO 500 has the benefit of a very powerful cutting motor coupled with feed rate sensors and exceptional control software to ensure optimal operation.

Designed with even the smallest details in mind, the operator will benefit from a number of ease-of-use ergonomic features such as: motorised hood lift, automated wash down cycle for cleaning and easy access of large parts to the cutting table.

Characteristics

Hood	
Type	Metal frames & PETG - Motorised opening and closing
Safety	Locked during motor rotation
Fumes extraction outlet	76mm
Motorization-Power supply	
Power	11000 W / 21000 W (via variator)
Power supply	380 V / 3 phases / 50 Hz
Control of the motor	Frequency inverter
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Wheel diameter	Up to 500mm
Rotational speed	from 1.000 to 3.000 RPM
Arbor size	32mm
Control	
Interface	Colour touchscreen
Security Access	Can be activated
Programmability	Up to 100 password-protected programmes
Communication interface / Machine control	CANOPEN
Cutting	
Cutting method	Assisted, automatic, programmed, by impulse
Work piece feed	Y axis table feed and Z axis wheel feed
Feed rate	From 0.01mm/sec to 3mm/sec
Cutting control	Feed speed according to the motor load Movement of the arm according to the motor load Feed of the table and movement of the arm according to the contact force cut off wheel / workpiece to cut Rotation speed of the cut off wheel
Axis Y travel	200mm*
Axis X travel	150mm*
Axis Z travel	400mm
Serial cutting	2 modes: Y Axis cut and Z Axis cut
Dimensions tables	Left table: 295 x 600mm-Right table: 295 x 600mm*
Cutting table dimensions	Yes
Laser to locate the cut	Treated aluminium table with interchangeable stainless steel "T" slot plates
Table type	Any sample fixturing system compatible with a 12mm "T" slot bed
Holders	
Pump and tank	External-300 L
Type of lubrication	By Pump
Position of lubrication-Cooling	2 ports in the wheel guard 2 alignable nozzles mounted on the wheel assembly
Filter	Washable 100 µm fabric filter
Automatic filling	Yes with control of levels
Ergonomics	
Internal lighting	LED
Spray nozzle for cleaning	Integrated
Automatic cleaning cycle	Yes

* Customisable tables and stroke lengths.

ACCESSORIES EVO 500

Vices and Holders

50510

Left and right quick clamping vices
Height 70mm

50911

Left and right quick clamping vices
Height 90mm

50906

Left and right quick clamping vices
Height 45mm

50905

Left quick clamping vice
Height 45mm

50909

Right quick clamping vice
Height 45mm

50617

Chain clamp

50613

Box of Kopal holders

50616

Kopal holding

50902

Left and right screw clamping vices
Height 45mm

50901

Left screw clamping vice
Height 45mm

50903

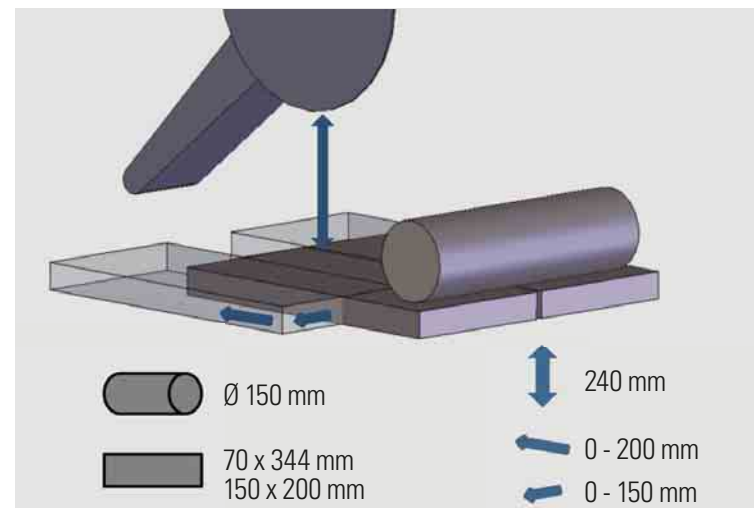
Right screw clamping vice
Height 45mm

Other accessories

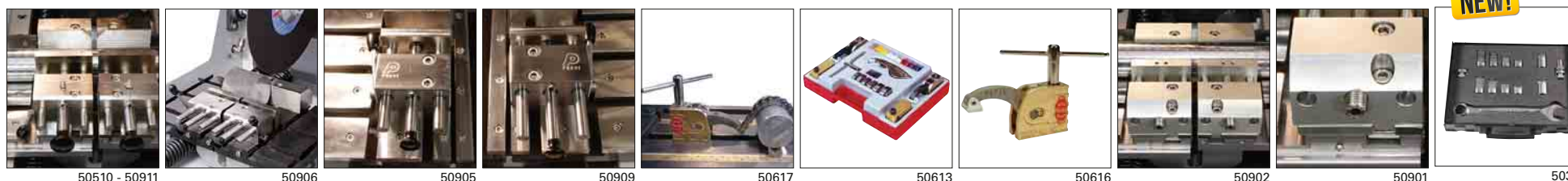
50370

Kit of V positioning supports

Cutting envelope*



* This illustration of the cutting envelope of the EVO500 is to show the maximum theoretical capacity only with a 450mm disc. The actual capacity in practice will depend on the sample geometry and its physical properties.



50510 - 50911

50906

50905

50909

50617

50613

50616

50902

50901

50370

DIAMOND WIRE SAWS

Ref. 52020

Length: 410 mm
Width: 345 mm
Height: 460 mm
Weight: 13,8 kg
Conformity: CE

NEW!



3500 PREMIUM SAW

Fine cutting and absolute precision

With its stainless steel wire, the diamond wire saws cuts most materials. It is particularly recommended for cutting delicate samples such as silicon, glass or electronic components. Low speeds allow samples to be cut whilst protecting materials and preventing overheating.

They ensure flat cut surfaces with clear edges, avoiding modifications to the structure on each side of the cut. Alos, its sample clamping system avoids any dimensional distortion and its horizontal / vertical working modes make cutting easier.

Characteristics

	3500	3500 PREMIUM	3400
Power supply - Control			
Voltage 230 V, 50-60 Hz	✓	✓	✓
Access code	✓	✓	✓
Mains cable	✓	✓	✓
Power supply USB 5V on the side of the machine	✓	✓	✓
Touchscreen (optimal regulation of wire speed, measurement of effective cutting time)	✓	✓	✓
Wi-Fi (possibility of remote machine control in dangerous or difficult environments)	✓	✓	✓
Timer	✓	✓	✓
Working area			
Height adjustment (counterweight position markers using coloured dots, like on the winder)	✓	✓	
Advancement			
Gravity (wire)	✓	✓	
Scale/Weight (sample)			✓
Cutting depth			
Maximum in mm	60	35/52	50
Slider with electronic end-of-cut stop		✓	
Sample holder			
Slotted table	✓	✓	
Micrometric table	option	✓	✓
30mm diameter with 5 ceramic plates	option	✓	✓
30mm diameter 90° with 5 ceramic plates	✓	✓	✓
Turning deck		✓	
Lubrication			
Dampening device	✓	✓	✓
Warranty			
12 months (excluding wear parts)	✓	✓	✓

3500 BASE SAW

Ref. 52010

Length: 410mm
Width: 345mm
Height: 460mm
Weight: 13,8kg
Conformity: CE



3400 SAW

Ref. 52030

Length: 450mm
Width: 290mm
Height: 310mm
Weight: 11,3kg
Conformity: CE



DIAMOND WIRE SAW ACCESSORIES

Accessories

Dual vice 12mm

Round vice 12-32mm diameter

Goniometer

Stereoscopic microscope 40 x
for 3500 Premium and 3400

Dynamometer

Sample holder

Turning deck

X-Y table

Micrometric table

Consumables

Ref.	Descriptif	Ø
52100	Standard wire - 120m	Ø 0,3mm 60µ
52101	Standard wire - 120m	Ø 0,3mm 40µ
52102	Standard wire - 120m	Ø 0,22mm 40µ
52103	Standard wire - 120m	Ø 0,17mm 30µ
52104	Standard wire - 120m	Ø 0,17mm 20µ
52105	Standard wire - 120m	Ø 0,13mm 30µ
52106	Standard wire - 120m	Ø 0,13mm 20µ
52107	Standard wire - 120m	Ø 0,1mm 20µ
52200	Standard wire - 30m	Ø 0,3mm 60µ
52201	Standard wire - 30m	Ø 0,3mm 40µ
52202	Standard wire - 30m	Ø 0,22mm 40µ
52203	Standard wire - 30m	Ø 0,17mm 30µ
52204	Standard wire - 30m	Ø 0,17mm 20µ
52205	Standard wire - 30m	Ø 0,13mm 30µ
52206	Standard wire - 30m	Ø 0,13mm 20µ
52207	Standard wire - 30m	Ø 0,1mm 20µ
52300	Wire refill - 10m	
52301	33 type winder	



Sample holder



Turning deck



X-Y table



Micrometric table



CUTTING MACHINES **NUCLEAR** & HOSTILE ENVIRONMENTS

• **A real expertise in hostile environments**

PRESI's success in hostile environments is based on; solid benefits for the user, exact control of the design, development and manufacturing process, a high tech team using the latest tools to produce machines that address specific needs and have easy access and maintenance.

Designed and made to order, this range of machines answers the special needs of the nuclear industry and is supported through available machine specific customer training.

• **Glove box and hot cells: Taylor-made cutting**

Preserving the structure of the sample: a crucial step in cutting.

That is why PRESI taylor makes its machines using high technology to achieve the highest quality.

Designed completely with the most appropriate materials (stainless steel with minimum use of plastic), these cutting machines and accessories have optimum resistance to hostile environments and may be used via manipulators or remote control.

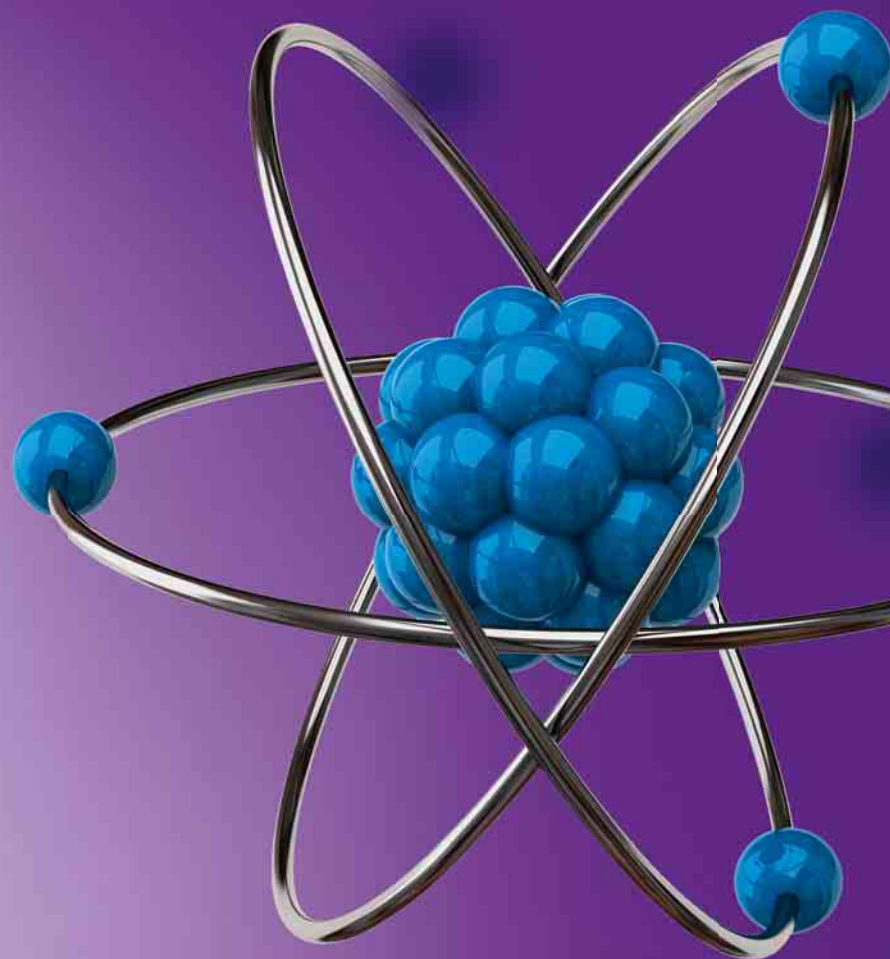
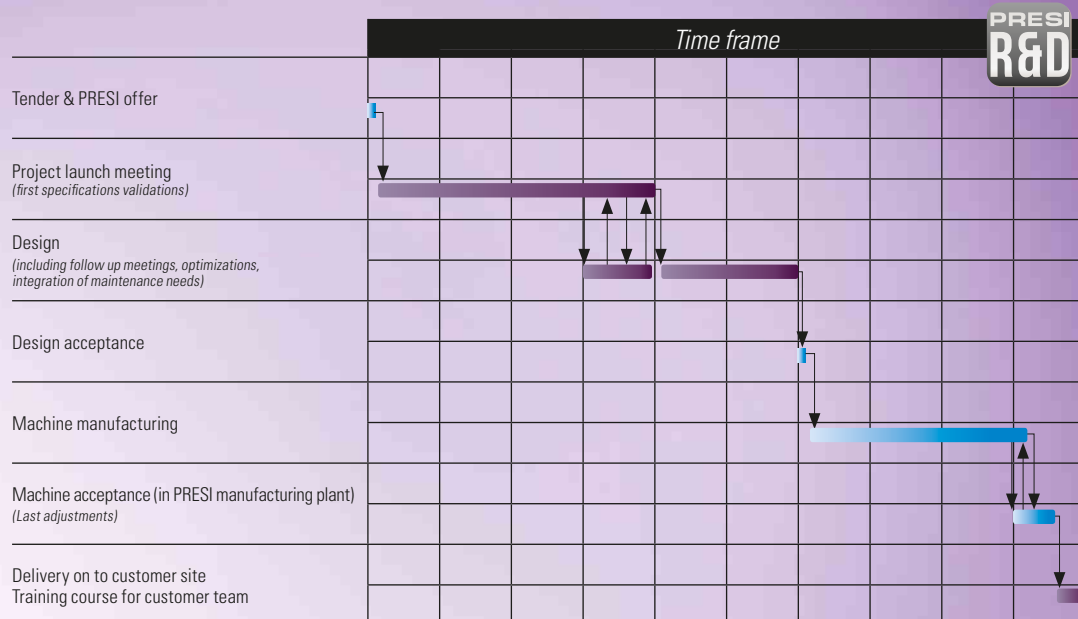


SPECIFIC PROJECT SPECIFIC MACHINE

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

PROJECT MANAGEMENT

Seven phases in PRESI R&D project management.



TRENNEN

CUTTING

TRONÇONNAGE

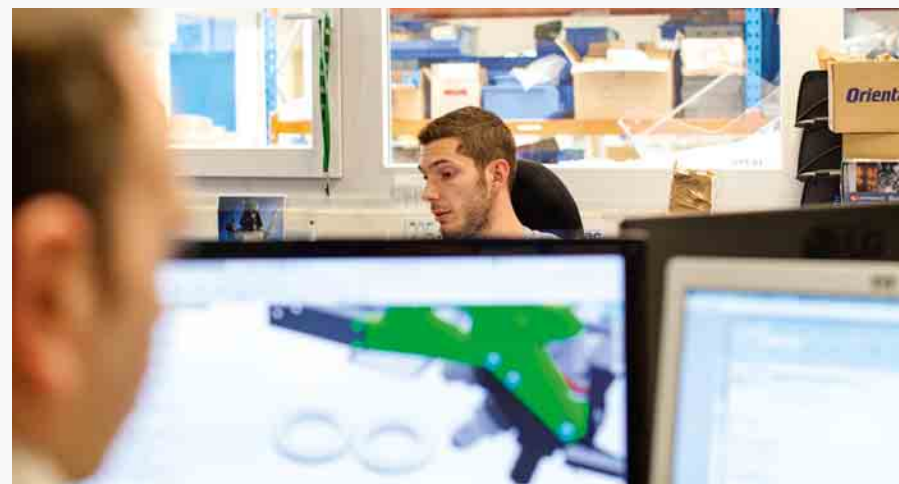
MACHINES

MADE-TO-MEASURE CUTTING

The know-how of our technicians and the resources of our R&D department

Since 1961, we have furthered our experience in cutting.
Our customers have showed their trust in us and contact us for increasingly precise and specific jobs...
This has allowed us to transform our initial product range into a 100% customised service...

Biomedical, aeronautics, metallurgy...
Whatever the area of application, whatever your problems, your budget or deadline, PRESI will be there to help you in your projects.



Specific vices

Ball vice (T300, T330 and ST310)
3D vice (T300, ST310, T330)
Screw vice to mount on motorised or manual table (T210, T330)
Angle position vice (T210, T300, ST310, T330)
Pneumatic vice for core cutting on dual blade T260
Specific vice for tip slotting, indexed to 90°

Other specific accessories

Positioning stop (T260)
Vertical clamping kit for cylindrical parts (T260)
Height measurement tool for axis Z (T210)
Turning deck: fixed on slotted T table (T300, ST310, T330, EVO 400)
Specific jaws for vice
Sample holder for very irregular samples (T180, Flexicut)
Resin block rack (T330)

Made-to-measure vices



Ball vice



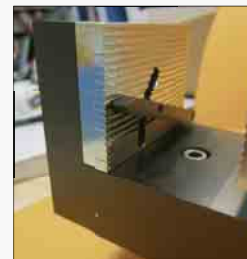
3D vice



Screw vice



Angle position vice



Angle position vice



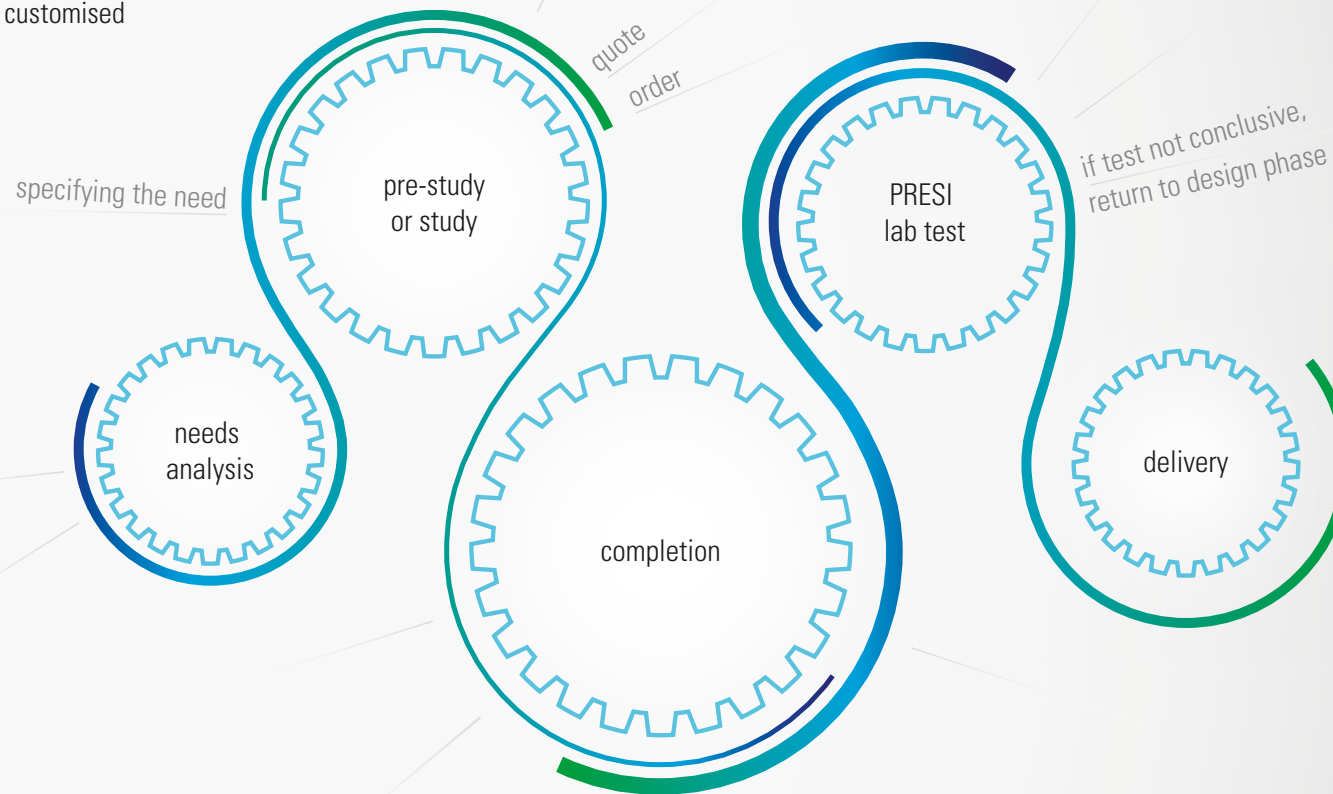
Pneumatic vice



Specific vice for tip slotting

● A tried and tested method

Each project is unique.
PRESI teams adapt and offer you customised methodology.



Specific accessories



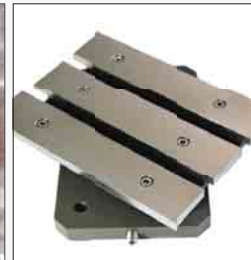
Positioning stop



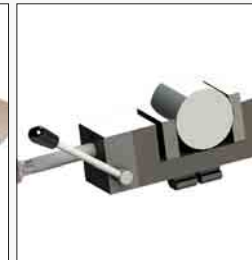
Vertical clamping kit



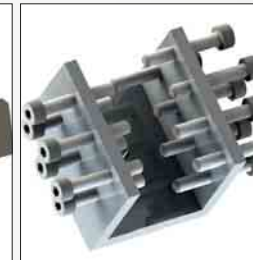
Height measurement tool



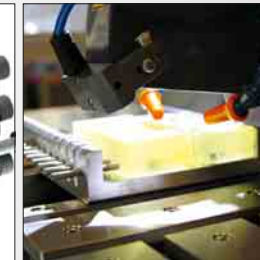
Turning deck



Specific jaws



Sample holder



Resin block rack



CUTTING

Resinoid cut-off wheels are designed to cut most materials. The quality of the abrasive and the correct hardness of the resin are essential to achieve a perfect cut. PRESI has specially developed a complete range of high quality cut-off wheels to allow you to get the optimal cut on your materials.

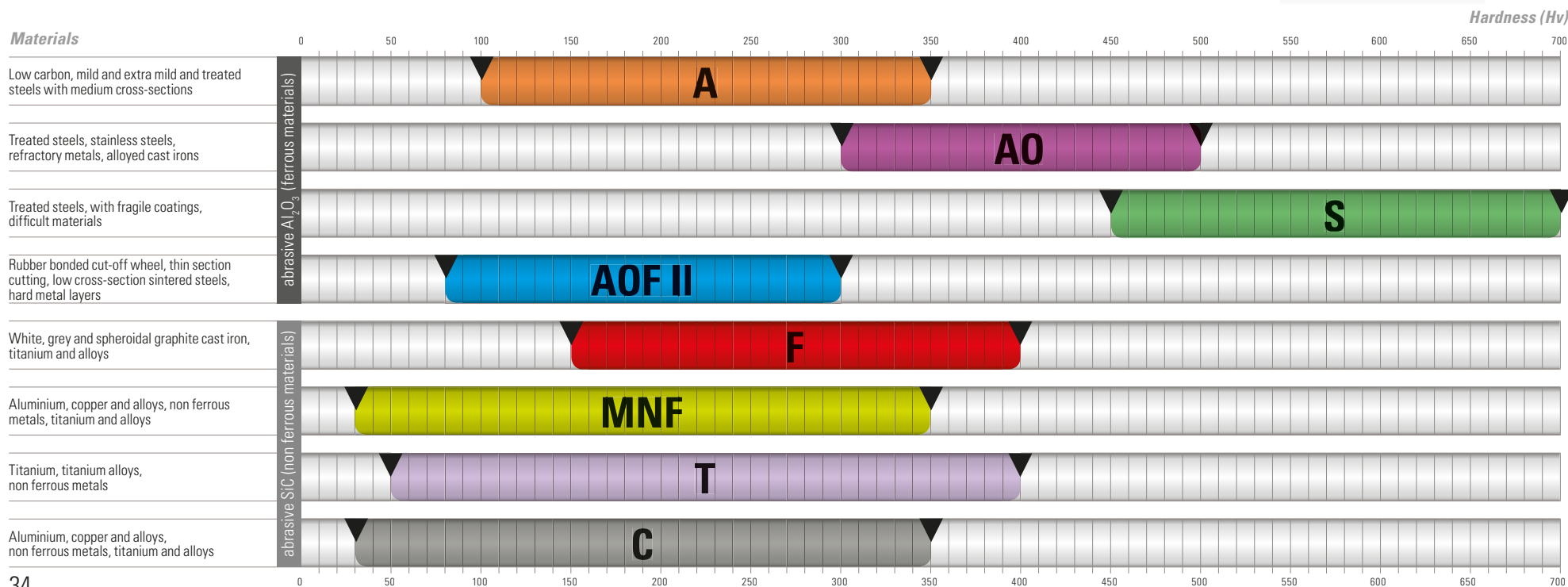
Standard resinoid cut-off wheels - Pack of 10

	Ref.	Designation	Ø
A	01040	Cut-off wheel type. A	Ø 100 x 0.3 x 12.7mm
	01009	Cut-off wheel type. A	Ø 230 x 1.6 x 22mm
	01015	Cut-off wheel type. A	Ø 250 x 1.6 x 32mm
	01021	Cut-off wheel type. A	Ø 300 x 2 x 32mm
	01033	Cut-off wheel type. A	Ø 350 x 2.5 x 32mm
	01029	Cut-off wheel type. A	Ø 400 x 3 x 32mm
	01038	Cut-off wheel type. A	Ø 450 x 3.5 x 32mm
	01062	Cut-off wheel type. A	Ø 500 x 3 x 32mm
	01046	Cut-off wheel type. AO	Ø 125 x 0.5 x 12.7mm
	01043	Cut-off wheel type. AO	Ø 150 x 0.5 x 12.7mm
AO	01002	Cut-off wheel type. AO	Ø 200 x 1.6 x 25.4mm
	01008	Cut-off wheel type. AO	Ø 230 x 1.6 x 22mm
	01014	Cut-off wheel type. AO	Ø 250 x 1.6 x 32mm
	01020	Cut-off wheel type. AO	Ø 300 x 2 x 32mm
	01030	Cut-off wheel type. AO	Ø 350 x 2.5 x 32mm
	01027	Cut-off wheel type. AO	Ø 400 x 3 x 32mm
	01036	Cut-off wheel type. AO	Ø 450 x 3.5 x 32mm
	01063	Cut-off wheel type. AO	Ø 500 x 3 x 32mm

	Ref.	Designation	Ø
AOF II	01001	Cut-off wheel type. AOF II	Ø 200 x 0.8 x 25.4mm
	01012	Cut-off wheel type. AOF II "S"	Ø 250 x 0.8 x 32mm
	01013	Cut-off wheel type. AOF II	Ø 250 x 0.8 x 32mm
	01019	Cut-off wheel type. AOF II	Ø 300 x 1 x 32mm
	01041	Cut-off wheel type. AOF C	Ø 100 x 0.3 x 12.7mm
F	01018	Cut-off wheel type. AOF F	Ø 250 x 1.6 x 32mm
	01024	Cut-off wheel type. AOF F	Ø 300 x 2 x 32mm
MNF	01005	Cut-off wheel type. MNF	Ø 200 x 1.6 x 25.4mm
	01011	Cut-off wheel type. MNF	Ø 230 x 1.6 x 22mm
	01017	Cut-off wheel type. MNF	Ø 250 x 1.6 x 32mm
	01023	Cut-off wheel type. MNF	Ø 300 x 2 x 32mm
	01031	Cut-off wheel type. MNF	Ø 350 x 2.5 x 32mm
	01028	Cut-off wheel type. MNF	Ø 400 x 3 x 32mm
	01037	Cut-off wheel type. MNF	Ø 450 x 3.5 x 32mm
	01066	Cut-off wheel type. MNF	Ø 500 x 3 x 32mm

	Ref.	Designation	Ø
S	01060	Cut-off wheel type. S (SiC)	Ø 180 x 0.5 x 25.4mm
	01016	Cut-off wheel type. S	Ø 250 x 1.6 x 32mm
	01022	Cut-off wheel type. S	Ø 300 x 2 x 32mm
	01032	Cut-off wheel type. S	Ø 350 x 2.5 x 32mm
	01034	Cut-off wheel type. S	Ø 400 x 3 x 32mm
	01039	Cut-off wheel type. S	Ø 450 x 3.5 x 32mm
	01064	Cut-off wheel type. S	Ø 500 x 3 x 32mm
T	01071	Cut-off wheel type. T	Ø 250 x 1.6 x 32mm
	01072	Cut-off wheel type. T	Ø 300 x 2 x 32mm
	01073	Cut-off wheel type. T	Ø 350 x 2.5 x 32mm
	01048	Cut-off wheel type. T	Ø 450 x 3 x 32mm
	01065	Cut-off wheel type. T	Ø 500 x 3 x 32mm

PRESI GUIDE
CUTTING



Diamond cut-off wheels

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

Dressing stick for diamond disc

Ref.	Designation
51164	Dressing stick for diamond disc

CBN cutting discs

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

Reduction rings*

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

Ref.	Designation	Ø
Pack of 20		
01091	Reduction ring	25.4/22mm
01092	Reduction ring	32/25.4mm
Pack of 5		
51324	Reduction ring aluminium	25.4/12.7mm
51331	Reduction ring aluminium	32/12.7mm

* Other diameters on request.

Antirust coolant

The quality of the coolant is part of the cut quality and efficiency. Our coolant is corrosion protective (machine & specimen). The anti-rust coolant is available in 1,5 L or 10 L containers (mixing ratio: 4% in water).

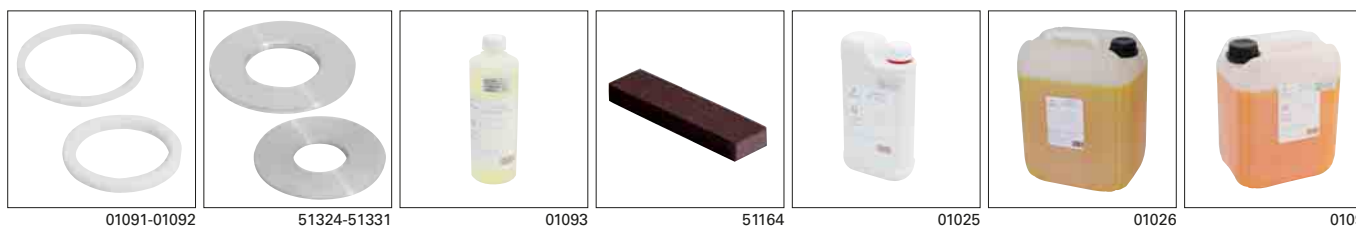
Ref.	Designation
01025	1 l bottle
01026	10 l drum
01090	5 l drum

Antiseptic liquid

Avoids spreading of bacteria in the cutting machine, unpleasant smell and extends life time of cut-off machines (mixing ratio: 0.2% in water).

Ref.	Designation
01093	500cc antibacteria bottle

Bonds	Surface condition	Hardness	Longevity
LR Resin bond. High concentration disc, advised when you want the best cutting quality. To cut hard and fragile materials, composites, plasma deposit, ceramics, electronic components...			
CBN - Resin bond. High boron nitride concentration disk for cutting hard ferrous materials, cast iron and treated, high-speed and hard steel.			
LM - Metallic bond. Very polyvalent cut-off wheel, normal concentration, to cut hard materials such as: ceramics, composites, tungsten carbide, alumina, sintered carbides.			
LM+ - Metallic bond. High concentration disc to cut hard materials such as: ceramics (large sections), tungsten carbide, silicon carbide, plasma deposit, mounted samples, refractory materials, minerals, concretes...			





MOUNTING

For mounting we have developed specific machines and consumables.

The result is the suppression of mounting problems such as blistering, edge shrinkage and uncured mounts.

Innovation, repeatability, precision.

Quality without compromise.

**“OUR CUSTOMERS KNOW: WE HAVE
THE ABILITY TO ADAPT OUR SOLUTIONS
TO THEIR PROBLEMS.
FOR US, COMPLEXITY IS NOT AN
OBSTACLE. IT IS ENRICHMENT.”**



MECAPRESS 3

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SPECIAL NUCLEAR

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HOT MOUNTING

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COLD MOUNTING

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CONSUMABLES

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KM MOULD

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MECAPRESS 3

Ref. 53500

Width: 320mm
Depth: 560mm
Height: 530mm
Weight: 65 kg
Conformity: EC



MECAPRESS 3, new generation mounting press

MECAPRESS 3 is a fully automated hot mounting press.

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

Characteristics

Automatic cycle	✓
Fast cycle	✓
Temperature adjustable	From 100 to 200 °C, by step of 1 °C
Heating time adjustable	From 0 to 9999 seconds, by step of 1 second
Cooling time adjustable	From 0 to 9999 seconds, by step of 1 second
Cooling mode adjustable	✓
Pressure adjustable	From 300 to 1.800 daN, by step of 1 daN (for a 6 bars compressed air network)
Mould diameter	25.4/30/31.7/38.1/40/50mm
Intermediate ram (to allow two molds be made at the same time)	✓
Easy interchangeable moulds	✓
Possibility to stop the piston at the required position	✓
Fast arm lock	✓
Secure mould closing	✓
Sensor for detecting if mould is closed	✓
Mounting parameters adjustable	✓
Mounting parameters readable on tactile screen	✓
Memorised mounting processes	More than 100 processes
Cooling by pulse	✓
Connectors to plug and control tank and re-circulating pump	✓
Easy cleaning	✓
Easy use and maintenance	✓
Power	> 2 KW
Electrical input	230 V/50-60 Hz/8 A
Air pressure (input)	6-10 bars
Air connector diameter (input and output)	Ø 10mm
Water connector diameter (input and output)	Ø 12mm

ACCESSOIRES MECAPRESS 3

Mould sets

53505

Mould set Ø 25.4mm

53506

Mould set Ø 30mm

53507

Mould set Ø 31.7mm

53508

Mould set Ø 38.1mm

53509

Mould set Ø 40mm

53510

Mould set Ø 50mm

Intermediate rams

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

53416

Intermediate rams Ø 25.4mm

53420

Intermediate rams Ø 30mm

53421

Intermediate rams Ø 31.7mm

53422

Intermediate rams Ø 38.1mm

53423

Intermediate rams Ø 40mm

53424

Intermediate rams Ø 50mm

Other accessories

53515

55 l recirculating tank and pump system.
This recirculating system provides for closed circuit cooling of MECAPRESS 3 with the benefit of greatly reduced water use and the elimination of calcium carbonate build up from hard water supplies.
It also allows the MECAPRESS 3 to be used in areas of the lab where there is either no cold water feed or no drain line.

67750

Air compressor
(for labs with no compressed air supply)

53520

Anti chalk system for Mecapress 3

53521

Refill cartridge for anti chalk system Mecapress 3



53505-53506-53507-53508-53509-53510



53416 -53420-53421-53422-53423-53424



53515



67750



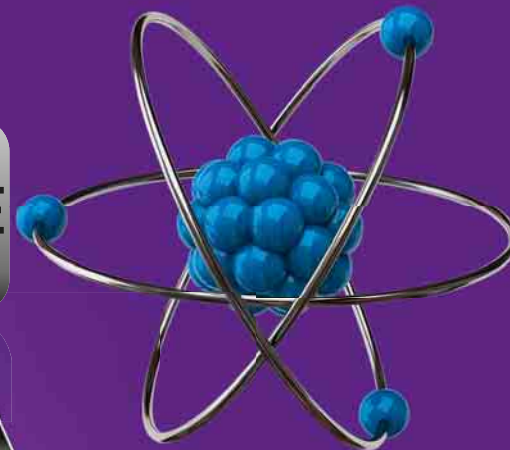
53250-53521



HOT MOUNTING PRESSES **NUCLEAR** & HOSTILE ENVIRONMENTS

SPECIFIC PROJECT SPECIFIC MACHINE

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



Controlled approach with hostile environments

PRESI's success in hostile environments is based on; solid benefits for the user, exact control of the design, development and manufacturing process, a high tech team using the latest tools to produce machines that address specific needs and have easy access and maintenance.

Reliable solutions for hot cells and glove box use

Designed completely with the most appropriate materials (stainless steel with minimal use of plastic), these machines and accessories have optimum resistance to hostile environments and may be used via manipulators or remote control.

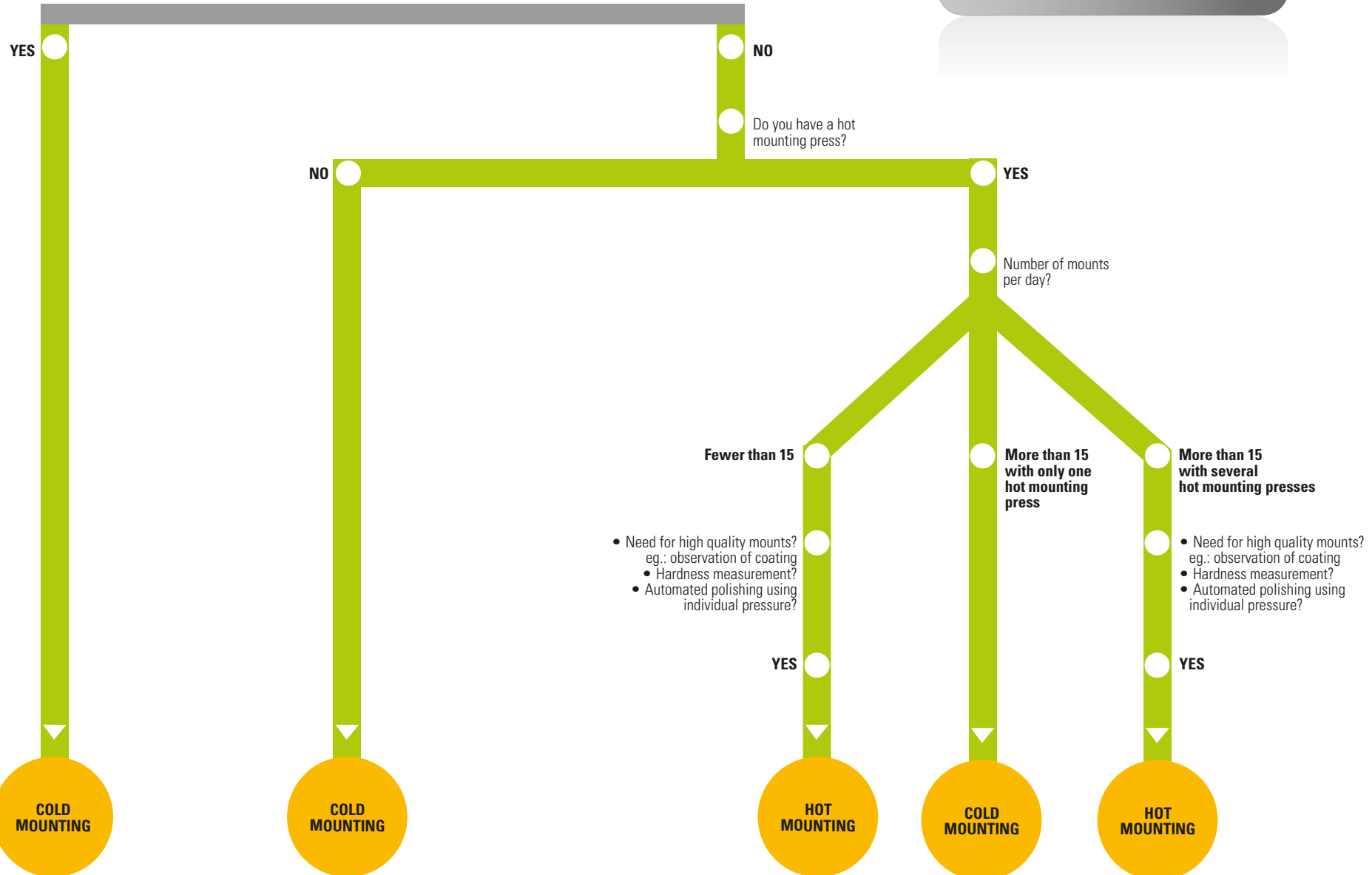


PRESI GUIDE MOUNTING



- Fragile materials?
- Materials sensitive to the temperature?
- Materials sensitive to the pressure?
- Porous materials?

- Honeycomb structures ?
- Ceramics ?
- Studies of cracks ?
- Rocks ?



HOT MOUNTING

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

Type of resin	Use	Shrinkage	Hardness	Conductivity	Colour
Epoxy	Hard materials, edge observation, surface deposits, coatings	Very low	96 Shore D	-	black
Phenolic	Standard mounting media for soft to medium hard materials	Low	90 Shore D	-	white, green, red, black
Conductive phenolic (with carbon)	SEM applications or electrolytic polishing	Low	90 Shore D	Good	black
Glass fiber phenolic	Standard mounting media for soft to medium hard materials	Low	95 Shore D	-	black
Glass fiber allylic	Observation of sample edges	Very low	93 Shore D	-	blue
Acrylic	When a transparent mount is required	Low	88 Shore D	-	transparent
Acrylic copper powder	For electro-polishing or electrolytic etching	Low	90 Shore D	Good	copper

Epoxy

Phenolic

Conductive phenolic (with carbon)

Glass fiber phenolic

Glass fiber allylic

Acrylic

Acrylic powder of copper



Phenolic resin

Ref.	Designation
03001	Pack 2.5 kg Black Phenolic
03101	Pack 10 kg Black Phenolic
03150	25 kg Black Phenolic
03002	Pack 2.5 kg Green Phenolic
03102	Pack 10 kg Green Phenolic
03151	25 kg Green Phenolic
03003	Pack 2.5 kg Red Phenolic
03103	Pack 10 kg Red Phenolic
03152	25 kg Red Phenolic
03011	Pack 2.5 kg White Phenolic
03105	Pack 10 kg White Phenolic
03010	Pack 2.5 kg Black fiber glass
03111	Pack 10 kg Black, with fiber glass filler
03012	Pack 2.5 kg Conductive Phenolic (black carbon)

Allylic resin

Ref.	Designation
03005	Pack 2.5 kg Allylic fiber glass
03106	Pack 10 kg Allylic fiber glass

Acrylic resin

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

Epoxy resin

Ref.	Designation
03009	Pack 2.5 kg Black Epoxy
03109	Pack 10 kg Black Epoxy
03156	25 kg Black Epoxy

Mount release agent

Just spray into the mould of the mounting machine!

Ref.	Designation
03008	Mount release agent Silicone aerosol 500ml
NEW! 03208	Silfree-Jet mould removal aerosol (Silicone free)

COLD MOUNTING

By pressure or vacuum, the cold mounting process can be enhanced for improved results.



PRESSURE VESSEL FOR MOUNTING UNDER PRESSURE

Ref. 04300



Mounting under pressure

The vessel for mounting under pressure can dramatically improve the quality of acrylic mounts. Resin type KM becomes more transparent and resin type KM-U has reduced shrinkage. Additionally, improved resin impregnation of porous materials can be achieved (Ø 180mm - Height 135mm - 4 l*).

* 9 l contact us.

VACUUM IMPREGNATION SYSTEM

Ref. 53600

Consumables set for

Poly'Vacc contents:

- 50 bed protection sheets
- 50 pipes
- 50 plastic nozzles



Vacuum mounting system

The vacuum mounting system provides for improved resin impregnation of porous materials. It is best used with MA2+ and IP resins. The device is programmable and controlled through a touch screen with options for setting cycle time (timer from one minute to several hours) and various levels of vacuum. It includes a resin dispenser.

Accessories

53605

50 bed protection sheets

53606

Pipes and plastic nozzles (set of 50)



COLD MOUNTING

The KM resins are acrylic. They are composed of two parts: powder and liquid. Easy to use, these resins polymerise at around 70°C and 115°C. Those temperatures do not alter most specimens. MA2+, 2S and IP resins are composed of two liquid parts: the resin and its hardener. These resins are totally transparent. MA2+, 2S and IP polymerise at ambient temperature, whereas IP resins require a vacuum oven.

	Type of resin	Use	Polymerisation time	Shrinkage	Exothermic peak	Hardness	Impregnation ability	Conductivity	Colour	Proportion	
Transparent resins	MA2+ (epoxy)	Observation of edges, temperature sensitive materials, polymers, visual control of material removal	12 h	Very low	30° C	62 Shore D	-	-	-	10% catalyst	MA2+
	IP (epoxy)	Porous materials (e.g. ceramics), observation of edges and coatings, electronic components etc	8 at 10 h (3h at 50°C)	Very low	30° C	83 Shore D	Très bonne	-	-	10% catalyst	IP
	2S (polyester)	General use for large quantity of mounts at one time	1 h 30	Medium	80° C	76 Shore D	-	-	-	2.5% catalyst	2S
	KM-U under pressure (acrylic)	Control/ General use with fast polymerisation	15 min	Low	115° C	90 Shore D	-	-	-	2 volumes of powder for 1 volume of liquid	KM-U under pressure
Opaque resins	KM-U (acrylic)	Control/ General use with fast polymerisation	10 min	Medium	115° C	90 Shore D	-	-	White	2 volumes of powder for 1 volume of liquid	KM-U
	KM-V (acrylic)	Control/ General use with fast polymerisation. Mineral loaded for a reduction of shrinkage	10 min	Low	115° C	90 Shore D	-	-	Blue	2 volumes of powder for 1 volume of liquid	KM-V
	NEW! KM-B (acrylic)	Control/ General use with fast polymerisation. Mineral loaded for a reduction of shrinkage	10 min	Very low	115° C	91 Shore D	-	-	Blue	2 volumes of powder for 1 volume of liquid	KM-B
	KM-EM (acrylic)	Casting replica's of sample surface	8 min	-	95° C	87 Shore D	-	-	Yellow	2 volumes of powder for 1 volume of liquid	KM-EM
	KM-CO (acrylic)	SEM control or electrolytic polishing	30 min	Medium	70° C	62 Shore D	-	Bonne	Black	8 volumes of powder for 5 volumes of liquid	KM-CO

● KM-U resins

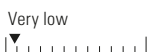
Typ: acrylic.
Colour: transparent.

Shrinkage  Medium
Polymerisation at 20°C: 10 minutes.

Ref.	Designation
04140	Pack 1 kg powder + 500 cc catalyst*
04141	Pack 1 kg powder
04142	Bottle 500 cc catalyst
04143	Pack 10 kg powder
04144	Bottle 5 l catalyst

● KM-B resins


Typ: acrylic.
Colour: blue.

Shrinkage  Very low
Polymerisation at 20°C: 10 minutes.

Ref.	Designation
NEW! 04130	Pack 1kg powder KM-B + 500 cc catalyst*
NEW! 04131	Pack 1kg powder resin KM-B
NEW! 04132	Bottle 500 cc catalyst KM-B

● KM-V resins

Typ: acrylic.
Colour: blue.

Shrinkage  Low
Polymerisation at 20°C: 10 minutes.

Ref.	Designation
04031	Pack 1 kg powder + 500 cc catalyst*
04032	Pack 1 kg powder
04033	Bottle 500 cc catalyst
04034	Pack 1 kg powder
04035	Bottle 5 l catalyst

● KM-EM resins


Typ: acrylic.
Colour: yellow.

Polymerisation at 20°C:
8 minutes

Ref.	Designation
04150	Pack 1 kg powder + 500 cc catalyst*
04151	Pack 1 kg powder
04152	Bottle 500 cc catalyst

● KM-CO resins

Typ: acrylic. Colour: opaque black.
Conductive phenolic resin for SEM
applications, electrolytic polishing...

Shrinkage  Medium
Polymerisation at 20°C:
30 minutes.

Ref.	Designation
04160	Pack 1 kg powder + 1 l catalyst*
04161	Pack 1 kg powder
04162	Bottle 1 l catalyst

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

● IP resins

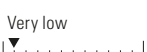
Typ: epoxy.
Colour: transparent.

Shrinkage  Very low
Polymerisation at 50°C: 3 hours.

Ref.	Designation
04200	Pack 1 kg powder + 100 cc catalyst**
04201	Bottle 100 cc catalyst
04202	Bottle 1 kg resin

● MA2+ resins

Typ: epoxy.
Colour: transparent.

Shrinkage  Very low
Polymerisation at 20°C: 12 hours.

Ref.	Designation
04040	Pack 1 kg powder + 100 cc catalyst**
04009	Bottle 100 cc catalyst
04041	Bottle 1 kg resin

● 2S resins

Typ: polyester.
Colour: transparent.

Shrinkage  Medium
Polymerisation at 20°C: 1 hour 30.

Ref.	Designation
04010	Pack 1 kg powder + 30 cc catalyst**
04011	Bottle 30 cc catalyst
04042	Bottle 1 kg resin

● Dyes (liquid) for KM-U

Ref.	Designation
04180	10 ml Red
04181	10 ml Green
04182	10 ml Blue
04183	10 ml Yellow

● Dyes (Powder) for 2S, MA2+, IP resins

Ref.	Designation
04184	1 000 mg Red
04185	1 000 mg Blue
04186	1 000 mg Yellow

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



Teflon (PTFE) mounting moulds

Box of 5

Material: teflon.

Characteristics: detachable base. Reusable. Extended life.

Ref.	Designation
04016	Teflon (PTFE) Ø 20mm
04017	Teflon (PTFE) Ø 25mm
04036	Teflon (PTFE) Ø 25.4mm
04018	Teflon (PTFE) Ø 30mm
04037	Teflon (PTFE) Ø 31.7mm
04038	Teflon (PTFE) Ø 38.1mm
04019	Teflon (PTFE) Ø 40mm
04020	Teflon (PTFE) Ø 50mm

Rubber silicone mounting moulds

Box of 5

Material: rubber.

Characteristics: one piece. Reusable.

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

Polyethylene mounting moulds

Box of 5

Material: polyethylene.

Characteristics: detachable base. Reusable.

Ref.	Designation
04028	Polyethylene Ø 25mm
04029	Polyethylene Ø 30mm
04030	Polyethylene Ø 40mm

Accessories for cold mounting

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

Mount release agent

Just spray into the mould of the mounting machine!

Ref.	Designation
03008	Mould release Silicone aerosol 500ml
NEW! 03208	Silfree-Jet mould removal aerosol (Silicone free)



Teflon moulds



Rubber moulds



Polyethylene moulds



04024



04110



04111



04112

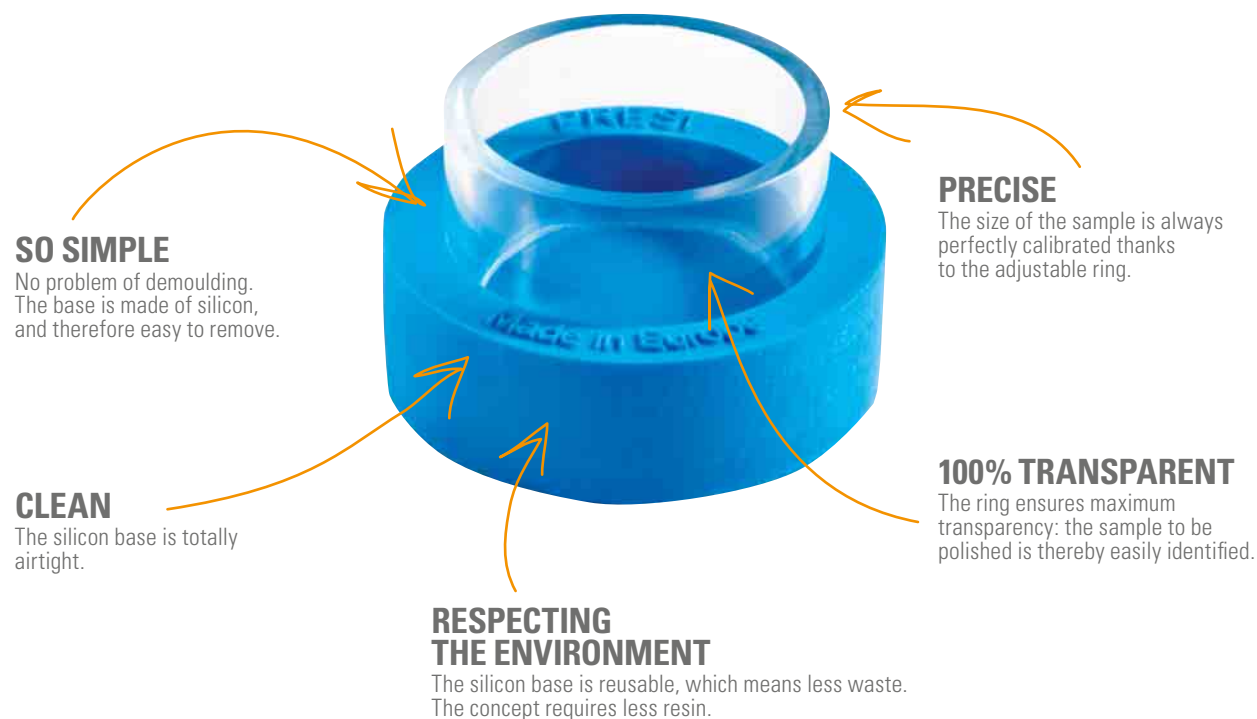


04900

KM^{2.0} **NEW!**

NEW GENERATION KM MOUNTING MOULDS...

Easy to use, precise and clean, the KM2.0 kit comes in the form of 50 rings and 5 reusable silicon bases. Ring and base refills are also available. Compatible with all cold mounting resins.



Compatible with all cold mounting resins.

IN A WORD... **REVOLUTIONARY!**

Mounting moulds - KM Box of 5 bases of 50 rings

Material: silicon base and acrylic rings.
Characteristics: 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



EVERYTHING YOU NEED FOR YOUR **LAB**



Classifying

Ref.	Designation
19005	Storage box (15 specimen)
19020	Electrical engraver with carbide tungsten point for specimen marking
19018	Pack of 3 pins in tungsten carbide for engraver Ref. 19020
19019	Diamond point for engraver Ref. 19020
57155	Draining board for plates Ø 200 to 300mm
57157	Top Quality storage cabinet 9 platens Ø 200 to 300mm, closing by sliding doors

Replicating

Ref.	Designation
19035	Replica Kit complete with 20 replica sheets 10 x 12cm (thickness 0.035mm), 80 glass slides, 1 bottle of solvent 125 cc
19036	Pack of 20 replica sheets
19040	Black silicone cartridge of 50ml RS7
19041	Black silicone cartridge of 50ml RS30 T
19042	Static mixer-Pack of 30 units
19043	Applicator

Wiping-Cleaning-Drying

Ref.	Designation
19001	1 l cleaning liquid "AllClean"
19006	Protective lacquer spray (600ml)
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

Bonding

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

Observing

Non destructive testing.

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

Protecting

Ref.	Designation
19071	Safety glasses
78001	Lab coat (blue) Presi
78002	Lab coat (white) Presi
19050	Box of 100 Latex gloves (Size S)
19051	Box of 100 Latex gloves (Size M)
19052	Box of 100 Latex gloves (Size L)
19062	Teflon coated Lab'Board protect 1m x 2m

Weighing

Ref.	Designation
70051	Precision (Kern) weighing machine-from 0 to 400 g. Accuracy 0.1 g
19061	Box of 500 pipettes 3/0,5ml Length 155mm
04901	Kit 25 syringes 50ml + 25 syringes 5ml for liquid resins

Accessories for optics (microscope)

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

Posters

Ref.	Designation
78032	Poster Polishing processes
78031	Poster Diagram steel/carbon

Polisher accessories

Ref.	Designation
57170	Waste recovery tray



19005



19020



57157



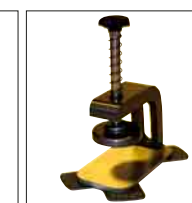
19060



57159



57160



71505



57170



POLISHING

Optimising the grinding and polishing stages with more intelligent devices. Equipped with touch screens, easier, intuitive and assisted: the range takes advantage from the last technologies developed by our laboratory. From grinding to superfinishing, the material is completely preserved.

Innovation, Precision.

Absolute **rigor** without compromise.

**“AN EXAMPLE THAT SPEAKS FOR ITSELF
ARE THE POLISHING MACHINES
MADE FOR THE NUCLEAR INDUSTRY.
HERE OUR ABILITY TO ADAPT WERE
CONSIDERED INVALUABLE.”**



LE CUBE

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MINITECH 233-263-265

P. 54-55



MINITECH 333-363-365

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MECATECH 234-264

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MECATECH 334

P. 62-65



DISTRITECH

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POLISEC

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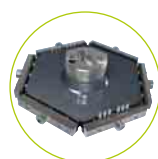
ELECTER EVOLUTION

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SPECIAL NUCLEAR

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MADE-TO- MEASURE

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PRESI GUIDES

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CONSUMABLES

P. 78-98

LE CUBE

Ref. 66250

Width: 400mm
Depth: 400mm
Height: 350mm
Weight: 20 kg
Conformity: EC

Technical specifications

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



LE CUBE, the ideal solution for basic polishing operations

LE CUBE is a Ø 200 and 250mm manual polishing machine. Simple, reliable and strongly built, 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 platen has a twin speed rotation speed selection (150 & 300 RPM). The multi-jet water spray ensures the optimum lubrication of the platen surface.

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

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

Characteristics table

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	✓
Motor power	90 W
Frequency inverter	✓
High-torque motor	✓
Speed and torque compensation	✓
Immediate stop of the platen (safety)	✓
Progressive acceleration	✓
Transparent protection hood	✓
Splash guard	✓
Simplified maintenance and after sales use	✓
Power supply	230 V/50-60 Hz

ACCESSORIES LE CUBE

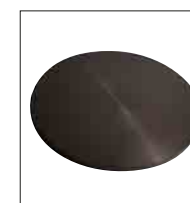
Platens and base platens

67822 Almagtech platen Ø 200mm

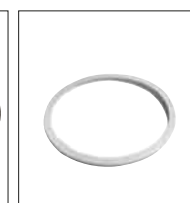
67820 Almagtech platen Ø 250mm

56054 Circular paper holder (metal) Ø 200mm

56055 Circular paper holder (metal) Ø 250mm



67822 - 67820



56054 - 56055



100% EUROPEAN PLUS 100% MADE IN FRANCE

Why our machines are unique...
Because they are 100% designed
in our design office?
Because they are manufactured and
tested in our manufacturing shop?
Or because PRESI is the only French
manufacturer for metallography
machines?

**ONE THING IS FOR SURE.
SINCE 1961
RELIABILITY IS OUR PRIORITY.**

MINITECH 233-263-265

Ø 200 to 250mm

MINITECH 233

Ref. 66300

Width: 445mm
Depth: 664mm
Height: 330mm
Weight: 29kg
Conformity: EC

Technical specifications

- 1 polishing station Ø 200 or Ø 250mm
- 1 touch screen
- 1 motor
- 1 multi jet water-spray system
- 1 removable bowl
- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm



MINITECH, the top of the range manual polishing machines

MINITECH polishing machines are robust, powerful and reliable, incorporating the most advanced technologies for ease of use and simplified maintenance.

Thanks to the LCD touch screen which can be positioned on the left or right side of the polishing machine, it is very easy to set the parameters such as speed, rotation direction, water spray and time. 3 polishing programs can be stored in the memory of the touch screen. Parameters may also be changed during the polishing cycle. The pressure manually applied to the polishing platen can be displayed thanks to a force sensor. Multi-jet water spray with adjustable flow is continuously cooling the platen.

Equipped with removable bowl, MINITECH polishing machines are very easy to clean and their composite bodies and bowls do not rust.

Their new technology provides a constant rotation of the platen, whatever the force applied, giving the possibility to polish large sized samples.

Characteristics table

	MINITECH 233	MINITECH 263	MINITECH 265
Number of polishing platens	1	2	2
Number of motors	1	1	2
Diameter of the platen(s)	200 to 250mm	200 to 250mm	200 to 250mm
Rotation speed (by step of 1 RPM)	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM
Direction of rotation	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise
Time	✓	✓	✓
Speed display	✓	✓	✓
Time display in seconds	✓	✓	✓
Display of manual force applied	✓	✓	✓
Memorization of parameters	✓	✓	✓
Multi-jet water spray system	✓	✓	✓
Motor power	250 W	250 W	2 x 250 W
Drying function 700 RPM	✓	✓	✓
High motor torque	✓	✓	✓
Constant speed of the platen	✓	✓	✓
Immediate stop of the platen	✓	✓	✓
Ball bearing transmission	✓	✓	✓
Removable composite bowl	✓	✓	✓
Progressive acceleration of the platen	✓	✓	✓
Splash guard	✓	✓	✓
Voltage / Frequency / Max. current	230 VAC/ 50-60 Hz/8 A	230 VAC/ 50-60 Hz/8 A	230 VAC/ 50-60 Hz/8 A

MINITECH 263

Ref. 66302

Width: 855mm
Depth: 664mm
Height: 300mm
Weight: 44kg
Conformity: EC

Technical specifications

- Double polishing machine Ø 200 or Ø 250mm
- 1 touch screen
- 1 motor (the 2 platens are driven simultaneously)
- 2 independant multi-jet water spray systems
- 2 removable bowls
- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm



MINITECH 265

Ref. 66303

Width: 855mm
Depth: 664mm
Height: 300mm
Weight: 52kg
Conformity: EC

Technical specifications

- Double polishing machine Ø 200 or Ø 250mm
- 2 touch screens
- 2 independant motors
- 2 independant multi-jet water spray systems
- 2 removable bowls
- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm



ACCESSORIES MINITECH 233-263-265

Platens & base drive platens

56350

Drive platen with positioners (aluminium, Ø 196mm)

67221

Drive platen with positioners (aluminium, Ø 245mm)

67822

Almagtech platen Ø 200mm

67820

Almagtech platen Ø 250mm

56066

PVC platen Ø 230mm with cone housing

56062

PVC platen Ø 250mm with cone housing

56053

Full PVC platen Ø 200mm with machined cone

56063

Full PVC platen Ø 250mm with machined cone

56054

Circular paper holder (metal) Ø 200mm

56055

Circular paper holder (metal) Ø 250mm

56067

Circular paper holder (PVC) Ø 200mm

56068

Circular paper holder (PVC) Ø 250mm

Covers for polishing machines

66050

PVC lid (Minitech 233/263/265)



56350 - 67221



67822 - 67820



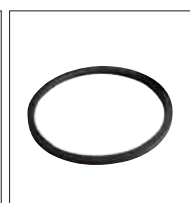
56066 - 56062



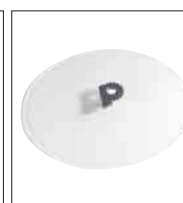
56053 - 56063



56054 - 56055



56067 - 56068



66050

MINITECH 333-363-365

Ø 250 to 300mm

MINITECH 333

Ref. 66305

Width: 520mm
Depth: 730mm
Height: 300mm
Weight: 37kg
Conformity: EC

Technical specifications

- 1 polishing station Ø 250 or Ø 300mm
- 1 touch screen
- 1 motor
- 1 multi-jet water spray system
- 1 removable bowl
- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm



MINITECH, the top of the range manual polishing machines

MINITECH polishing machines are robust, powerful and reliable, incorporating the most advanced technologies for ease of use and simplified maintenance.

Thanks to the LCD touch screen which can be positioned on the left or right side of the polishing machine, it is very easy to set the parameters such as speed, rotation direction, water spray and time. 3 polishing programs can be stored in the memory of the touch screen. Parameters may also be changed during the polishing cycle. The pressure applied to the polishing platen can be displayed thanks to a force sensor. Multi-jet water spray with adjustable flow is continuously cooling the platen.

Equipped with removable bowl, MINITECH polishing machines are very easy to clean and their composite bodies and bowls do not rust.

Their new technology provides a constant rotation of the platen, whatever the force applied, giving the possibility to polish large sized samples.

The MINITECH range works with platens of Ø 200 or 250mm (except for MINITECH 333, 363 and 365 which can work with platens from Ø 250 to 300mm).

Characteristics table

	MINITECH 333	MINITECH 363	MINITECH 365
Number of polishing platens	1	2	2
Number of motors	1	1	2
Diameter of the platen(s)	250 to 300mm	250 to 300mm	250 to 300mm
Rotation speed (per step of 1 RPM)	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM
Direction of rotation	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise
Time	✓	✓	✓
Speed display	✓	✓	✓
Time display in seconds	✓	✓	✓
Display of force applied	✓	✓	✓
Memorization of parameters	✓	✓	✓
Multi-jet water spray system	✓	✓	✓
Motor power	900 W	900 W	2 x 900 W
High motor torque	✓	✓	✓
Constant speed of the platen	✓	✓	✓
Immediate stop of the platen	✓	✓	✓
Progressive acceleration of the platen	✓	✓	✓
Drying function 700 RPM	✓	✓	✓
Ball bearing transmission	✓	✓	✓
Composite body	✓	✓	✓
Splash guard	✓	✓	✓
Voltage / Frequency / Max. current	230 VAC/ 50-60 Hz/8 A	230 VAC/ 50-60 Hz/8 A	230 VAC/ 50-60 Hz/8 A

MINITECH 363

Ref. 66306

Width: 1036mm
Depth: 742mm
Height: 298mm
Weight: 54kg
Conformity: EC

Technical specifications

- Double polishing machine Ø 250 or Ø 300mm
- 1 touch screen
- 1 motor
- 2 multi-jet water spray systems
- 2 removable bowls
- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm



MINITECH 365

Ref. 66307

Width: 1036mm
Depth: 742mm
Height: 298mm
Weight: 64kg
Conformity: EC

Technical specifications

- Double polishing machine Ø 250 or Ø 300mm
- 2 touch screens
- 2 independant motors
- 2 independant multi-jet water spray systems
- 2 removable bowls
- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm



ACCESSOIRES MINITECH 333-363-365

Platens and base drive platens

67221

Drive platen with positioners (aluminium, Ø 245mm)

67820

Almagtech platen Ø 250mm

67821

Almagtech platen Ø 300mm

56062

PVC platen Ø 250mm
with cone housing

56063

Full PVC platen Ø 250mm
with machined cone

56064

Full PVC platen Ø 300mm
with machined cone

56055

Circular paper holder (metal) Ø 250mm

56068

Circular paper holder (PVC) Ø 250mm

56069

Circular paper holder (PVC) Ø 300mm

57163

PVC platen Ø 300mm with cone housing

Covers for polishing machines

66025

PVC lid (MINITECH 333/363/365)



56350 - 67221



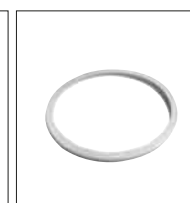
67821 - 67820



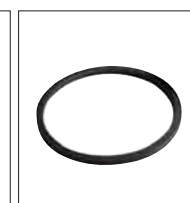
56062 - 57163



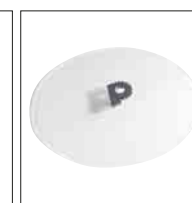
56063 - 56064



56055



56068 - 56069



66025

MECATECH 234-264

Ø 200 to 250mm



MECATECH 234

Ref. 67100

Width: 445mm
Depth: 664mm
Height: 640mm
Weight: 47kg
Conformity: EC

Technical specifications

- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm
- Air inlet: designed for a hose with inside Ø 10mm (not supplied)



MECATECH, the top of the range of automatic polishing machines

MECATECH 234-264 is a range of robust, powerful and reliable polishing machines incorporating the most advanced technologies for an easy use and fast maintenance. Its platens Ø 200 and 250mm, associated with the TC10, T110 and TCI10 polishing heads give the best polishing results on all types, sizes and numbers of specimen.

MECATECH 264

Ref. 67105

Width: 855mm
Depth: 664mm
Height: 640mm
Weight: 64kg
Conformity: EC

Technical specifications

- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm
- Air inlet: designed for a hose with inside Ø 10mm (not supplied)



**CHOOSE
YOUR
POLISHING HEAD**
page 60



ACCESSORIES MECATECH 234-264

Characteristics table

	MECATECH 234	MECATECH 264
Number of motors	1	2
Number of polishing platens	1	2
Diameter of the polishing platen	200 to 250mm	200 to 250mm (x 2)
Rotation speed	20 to 600 RPM	20 to 600 RPM
Direction of rotation	Clockwise and counter-clockwise	Clockwise and counter-clockwise
Motor power	250 W	250 W
Torque compensation	automatic	automatic
Immediate stop of the platen	automatic	automatic
Progressive acceleration of the platen	automatic	automatic
Drying function 600 RPM	✓	✓
Spindle on bearing + seal	✓	✓
Base platen + anti-vibration seals	✓	✓
Composite removable tank	✓	✓
Splash guard	✓	✓
High strength mechanically welded + painted steel chassis	✓	✓
Composite casting	✓	✓
TFT LCD 120 x 90mm colour touch screen	✓	✓
Simplified service and maintenance without dismantling	✓	✓
Voltage / Frequency / Max. current	230 V 1P 50-60 Hz/8A	230 V 1P 50-60 Hz/8A
Air pressure	5-10 bars	5-10 bars
Water inlet	Ø 12mm	Ø 12mm
Water outlet	Ø 32mm	Ø 32mm
Compressed air	Ø 10mm	Ø 10mm

Platens and base drive platens

67822

Almagtech platen Ø 200mm

67820

Almagtech platen Ø 250mm

56054

Circular paper holder (metal) Ø 200mm

56055

Circular paper holder (metal) Ø 250mm

56067

Circular paper holder (PVC) Ø 200mm

56068

Circular paper holder (PVC) Ø 250mm

Covers for polishing machines

66050

PVC lid, (MECATECH 234/264)

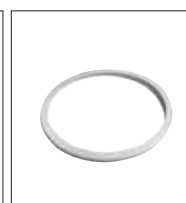
Other accessory

67750

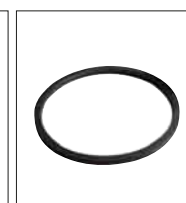
Air compressor
(for labs with no compressed air supply)



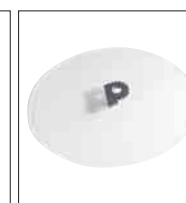
67822 - 67820



56054 - 56055



56067 - 56068



66050



67750

POLISHING HEADS FOR MECATECH 234-264



TI10

Individual pressure

Ref. 67112

For the automated and reproducible polishing of 1 to 4 mounts (Ø 50mm).



TC10

Central pressure

Ref. 67111

For the automated and reproducible polishing of 3 to 6 mounts per holder (4 at Ø 50mm or 6 at Ø 32mm maximum).



TCI10

Individual and central pressure

Ref. 67110

Integrates the functionalities of polishing heads TI10 and TC10.

Use

TI10-TC10-TCI10 to equip MECATECH 234-264.

All polishing heads have powerful motor gearing with frequency inverter, proportional electronic valve and 50mm vertical travel improving ergonomics, automatic locking when the cycle starts, and lubricant tank with micro-peristaltic pump for a precise dosage.

Characteristics table

	TI10	TC10	TCI10
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
Direction of rotation	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise
Motor power	74 W	74 W	74 W
Force per specimen	0.1-5 daN	0.1-5 daN	0.1-5 daN
Maximum power available	20 daN	20 daN	20 daN
Force controlled electronically	✓	✓	✓
Force reduced at start and end of cycle	✓	✓	✓
50mm lowering and raising of the polishing head	✓	✓	✓
Automatic locking of the polishing head	✓	✓	✓
200cc lubricant included in the polishing head	✓	✓	✓

ACCESSORIES FOR POLISHING HEADS ON MECATECH 234-264

Accessories				TI10	TC10	TC110
Specimen holders for central pressure polishing						
57120	Specimen holder	Ø 120mm	for 3 samples Ø 25 to 32mm		✓	✓
57126	Specimen holder	Ø 140mm	for 6 samples Ø 25 to 32mm		✓	✓
57125	Specimen holder	Ø 140mm	for 3 samples Ø 38.1 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			✓	✓
57116	Compulsory hooking system for central pressure specimen holder				✓	✓
57162	Levelling press for samples				✓	✓
Specimen holders for individual pressure polishing						
57142	Specimen holder	Ø 140mm	for 4 samples Ø 30mm	✓		✓
57141	Specimen holder	Ø 150mm	for 4 samples Ø 40mm	✓		✓
57140	Specimen holder	Ø 160mm	for 4 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		✓		✓



57120 - 57125



57102 - 57126



57103



57106



57107



Specific holders
on request



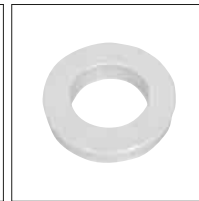
57105



57116



57140 - 57141 - 57142



Reduction rings

MECATECH 334

Ø 250 to 300mm

Ref. 67805

Width: 520mm
Depth: 750mm
Height: 640mm
Weight: 75 kg
Conformity: EC

Technical specifications

- Water inlet: designed for a hose with inside Ø 12mm (not supplied)
- Water outlet: delivered with a hose with outside Ø 38mm
- Air inlet: designed for a hose with inside Ø 10mm (not supplied)



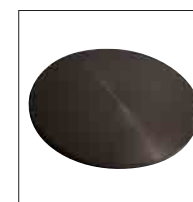
MECATECH 334, single station, automated polishing machine

MECATECH 334 is a robust, powerful and reliable machine, incorporating the most advanced technologies for ease of use and simple maintenance. Its Ø 250mm and Ø 300mm platens, associated with the TC15, TI15 and TC15 polishing heads give the best polishing results on all types, sizes and numbers of specimens.

Characteristics table

	MECATECH 334
Number of polishing platens	1
Diameter of the polishing platen	250 to 300mm
Rotation speed	20 to 600 RPM
Direction of rotation	Clockwise and counter-clockwise
Motor Power	900 W
Torque compensation	automatic
Immediate stop of the platen	automatic
Progressive acceleration of the platen	automatic
Drying function 600 RPM	✓
Spindle on bearings + seal	✓
Base platen + anti-vibration joints	✓
Automatic diamond distribution Distritech 1	1
Composite removable tank	✓
Splash guard	✓
High strength mechanically welded + painted steel chassis	✓
Composite casting	✓
TFT LCD 120 x 90mm colour touch screen	✓
Simplified service and maintenance without dismantling	✓
Voltage / Frequency / Max. current	230 V 1P 50-60 Hz/8A
Air pressure	5-10 bars
Water inlet	Ø 12mm
Water outlet	Ø 32mm
Compressed air	Ø 10mm

**CHOOSE
YOUR
POLISHING HEAD**
page 64



67820 - 67821

ACCESSORIES MECATECH 334

Platens and base drive platens

67820

Almagtech platen Ø 250mm

67821

Almagtech platen Ø 300mm

56055

Circular paper holder (metal) Ø 250mm

56068

Circular paper holder (PVC) Ø 250mm

56069

Circular paper holder (PVC) Ø 300mm

Covers for polishing machines

66025

PVC Lid (MECATECH 334)

Slurry dispenser

67870

Distritech 1

Other accessory

67750

Air compressor
(for labs with no compressed air supply)



56055



56068 - 56069



66025



67870



67750

PRESI ANNOUNCES THE COLOUR.

Rediscover Metallography today.
These days you can give colours to polishers.
Choose one colour for the base.



Choose one colour for the polishing-bowl.



Mix, Personalise.
Give your lab new energy.



POLISHING HEADS FOR MECATECH 334



TI15

Individual pressure Ref. 67812

For polishing of 1 to 6 mounts
(maximum Ø 50mm)
automated, reproducible.



TC15

Central pressure Ref. 67811

For automated and reproducible
polishing of 3 to 12 mounts in
specimen holders Ø 160 to 220mm.



TCI15

Individual and Central pressure Ref. 67810

Integrated functions of the TI15
and TC15 heads.



TCI MAX

Individual and Central pressure Ref. 67813

Integrated functions of the TC15 head
For automated and reproducible
polishing of 1 to 8 mounts in individual
mode (maximum Ø 40mm).

Use

Four types of polishing head are available for MECATECH 334.

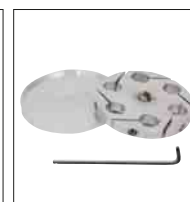
All polishing heads have powerful motor gearing with frequency inverter, proportional electronic valve and 50mm vertical travel improving ergonomics, automatic locking when the cycle starts, and lubricant tank with micro-peristaltic pump for a precise dosage.

Characteristics table

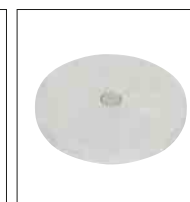
	TI15	TC15	TCI15	TCIMAX
Individual pressure	✓		✓	✓
Central pressure		✓	✓	✓
Mounted samples	✓	✓	✓	✓
Non mounted samples		✓	✓	✓
Rectangular samples	✓	✓	✓	✓
Rotation speed	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM
Direction of the rotation	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise
Motor power	180 W	180 W	180 W	180 W
Force per sample	0.1-5 daN	0.1-5 daN	0.1-5 daN	0.1-5 daN
Maximum force available	30 daN	30 daN	30 daN	30 daN
Material removal measurement with automatic stop		✓	✓	
Force controlled electronically	✓	✓	✓	✓
Force reduced at start and end of the cycle	✓	✓	✓	✓
50mm lowering and raising of the polishing head	✓	✓	✓	✓
Automatic locking of the polishing head	✓	✓	✓	✓
200cc lubricant included in the polishing head	✓	✓	✓	✓



57103



57106



57105



57116



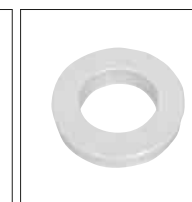
67835

ACCESSORIES FOR POLISHING HEADS ON MECATECH 334

Accessories				TI15	TC15	TCI15	TCI MAX
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 180mm	for 6 samples Ø 38.1 to 40mm		✓	✓	✓
57108	Specimen holder	Ø 210mm	for 12 samples Ø 25 to 32mm		✓	✓	✓
57109	Specimen holder	Ø 210mm	for 8 samples Ø 38.1 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				✓	✓	✓
57162	Levelling press for samples				✓	✓	✓
Specimen holders for individual pressure polishing							
67830	Specimen holder	Ø 150mm	for 6 samples Ø 30mm	✓		✓	✓
67833	Specimen holder	Ø 160mm	for 6 samples Ø 40mm	✓		✓	✓
67835	Specimen holder	Ø 170mm	for 6 samples Ø 50mm	✓		✓	✓
67840	Specimen holder	Ø 170mm	for 8 samples Ø 40mm				✓
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		✓		✓	✓



67840



67850



Specific holders
on request

DISTRITECH

Slurry dispensers.

DISTRITECH 1

Ref. 67870

Incorporated slurry dispenser on MECATECH 334.



- 500cc capacity
- Slurry dispenser for MECATECH 334, easily interchangeable from one bottle to another.
- Dosage is integrated with MECATECH 334.
- Every DISTRITECH 1 has its own peristaltic micro-pump, its distribution pipe to avoid cross contamination, as well as a storage support.
- Priming function.

DISTRITECH 5

Ref. 67875

Compatible with the whole Mecatech range.



- Slurry dispenser device, with a capacity of 5 bottles, 500cc each to be placed next to MECATECH.
- Each bottle dosage is managed by MECATECH. Each DISTRITECH 5 bottle has its own peristaltic pump and its own distribution pipe to avoid cross contamination.
- Priming function.
- Allows colloidal silica distribution by integrating an automatic rinsing function to avoid crystallisation.

NEW!

DISTRITECH 6

Ref. 67880

Autonomous and programmable slurry dispenser device, compatible with every polishing machine on the market.

- Slurry dispenser device with a capacity of 6 bottles, 500cc each.
- Each bottle dosage is managed by the dispenser. Each bottle has its own peristaltic micro pump and its own distribution pipe to avoid cross contamination.
- Simultaneous rinsing function of the 6 pipes.
- Priming function
- Allows colloidal silica distribution by integrating an automatic rinsing function to avoid crystallisation.



SPECIFICITY

DISTRITECH 6 allows liquid distribution on manual as well as automatic polishing machines. It is equipped with an automatic touch screen and 6 pumps. For optimum convenience, it incorporates an automatic rinsing system, (avoiding colloidal silica crystallisation). Thanks to its adjustable distribution pipe it can be adapted on all makes of machine. A must have! This dispenser can be shared between two polishing machines.





DISTRITECH: CONTROL YOUR DISPENSING

**REPEATABLE PROCEDURES
MAXIMISES OPERATOR EFFICIENCY
OPTIMISES CONSUMABLE USE**

DISTRITECH. THE NEW GENERATION OF AUTOMATED DIAMOND COMPOUND AND COLLOIDAL SILICA DISPENSERS

POLISEC C25

Ref. 59106 ELECTRO-POLISHING UNIT

Length: 200mm
Width: 400mm
Height: 350mm
Weight: 17.5 kg

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



Use

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

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

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

Ref. 59101 POWER SUPPLY

Length: 440mm
Width: 305mm
Height: 133mm
Weight: 17.5 kg

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



Complementary equipments

59111

Stainless steel clip for secondary etching

59112

Stainless steel bowl for secondary etching

59113

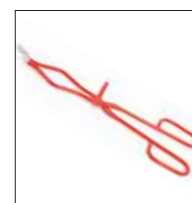
Cable for clamp and bowl

59114

2 l glass beaker

59115

Set of 5 cupels



59111



59112



59113



59114



59115

ELECTER EVOLUTION

Ref. 58100

Length: 330mm

Width: 260mm

Height: 170mm

Weight: 4.9 kg

- 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.



Use

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.

Complementary equipments

90076

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

90060

Ø 3 clamp for HG 200

90052

HG 200 Straight end piece HG 200

90056

KC 300 45° angle end piece

90055

IC 300 90° angle end piece

90071

RG01 speed reduction gear (1/4)

25002

Disc holder (set of 3) Ø 32mm



90076



90060



90052



90056 - 90055



90071



25002

ULTRASONIC CLEANER

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



Characteristics

Ref.	Designation	Tank dimensions	Capacity
61101	Ultrasonic cleaner	190 x 85 x 60	0.8 l
61121	Basket for tank 0.8 l		
61102	Ultrasonic cleaner	151 x 137 x 100	1.75 l
61122	Basket for tank 1.75 l		
61103	Ultrasonic cleaner	240 x 137 x 100	2.75 l
61123	Basket for tank 2.75 l		
61104	Ultrasonic cleaner	240 x 137 x 150	4.25 l
61124	Basket for tank 4.25 l		
61105	Ultrasonic cleaner	300 x 151 x 150	5.75 l
61125	Basket for tank 5.75 l		
61106	Ultrasonic cleaner	300 x 240 x 150	9.5 l
61126	Basket for tank 9.5 l		
61107	Ultrasonic cleaner	300 x 240 x 200	12.75 l
61127	Basket for tank 12.75 l		
61108	Ultrasonic cleaner	505 x 300 x 200	28 l
61128	Basket for tank 28 l		



POLIEREN

POLISHING

POLISSAGE

MACHINES



POLISHING MACHINES **NUCLEAR** & HOSTILE ENVIRONMENTS

● A real expertise in hostile environments

PRESI's success in hostile environments is based on; solid benefits for the user, exact control of the design, development and manufacturing process, a high tech team using the latest tools to produce machines that address specific needs and have easy access and maintenance.

Designed and made to order, this range of machines answers the special needs of the nuclear industry and is supported through available machine specific customer training.



● The Queen of glove boxes and hot cells

As the final step prior to microscopic examination, polishing should preserve the material characteristics.

This is why PRESI offers custom made machines for these applications. Designed completely with the most appropriate materials (stainless steel with minimal use of plastic), these machines and accessories have optimum resistance to hostile environments and may be used via manipulators or remote control.

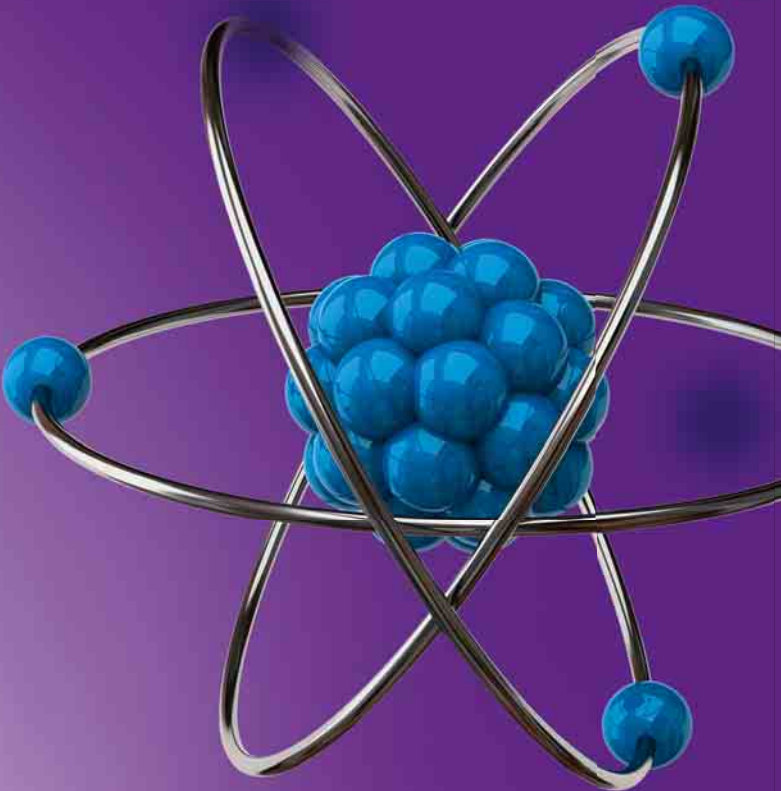
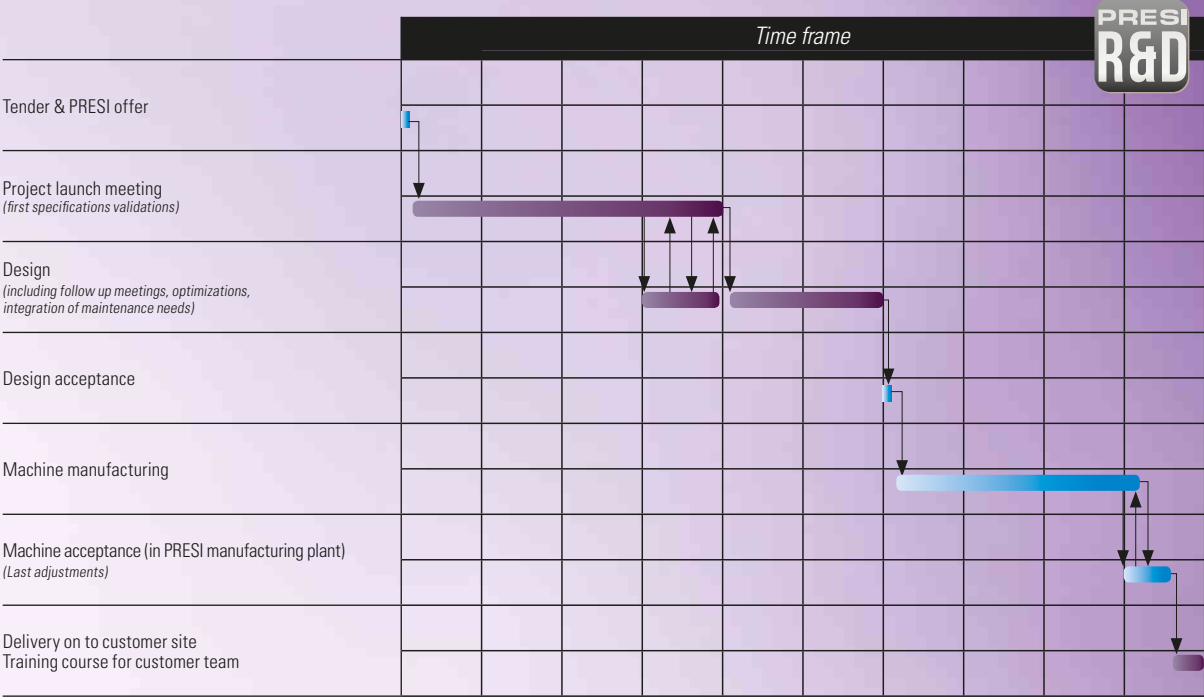
SPECIFIC PROJECT SPECIFIC MACHINE

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



PROJECT MANAGEMENT

Seven phases in PRESI R&D project management.



MADE-TO-MEASURE POLISHING

• The know-how of our technicians and the resources of our R&D department

Since 1961, we have developed our expertise in polishing.
Our customers have showed their trust in us and contact us for increasingly precise and specific jobs...
This has allowed us to transform our initial product range into a 100% customised service...

Biomedical, aeronautics, metallurgy...
Whatever the area of application, whatever your problems, your budget or deadline, PRESI will be there to help you in your projects.



• Specific plates

Special central pressure plate for tube
Special central pressure plate for non-flat non-coated sample
Special central pressure plate with dual tightening
Special central pressure plate for concrete plate
Special central pressure plate for thin section tube
Special central pressure plate for stud
Special central pressure plate for rectangular sample
Special central pressure plate for composite specimen

Special individual pressure plate for rectangular sample
Special individual pressure plate for thin blade
Special individual pressure plate with height-adjustable reduction ring



Special central pressure plate for tube



Special central pressure plate for non-flat non-coated sample



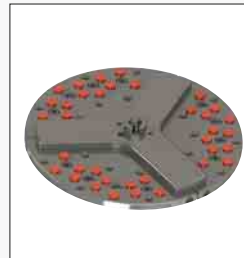
Special central pressure plate with dual tightening



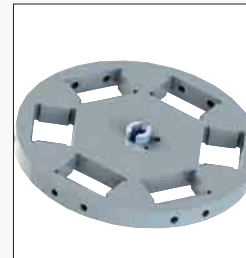
Special central pressure plate for concrete plate



Special central pressure plate for thin section tube



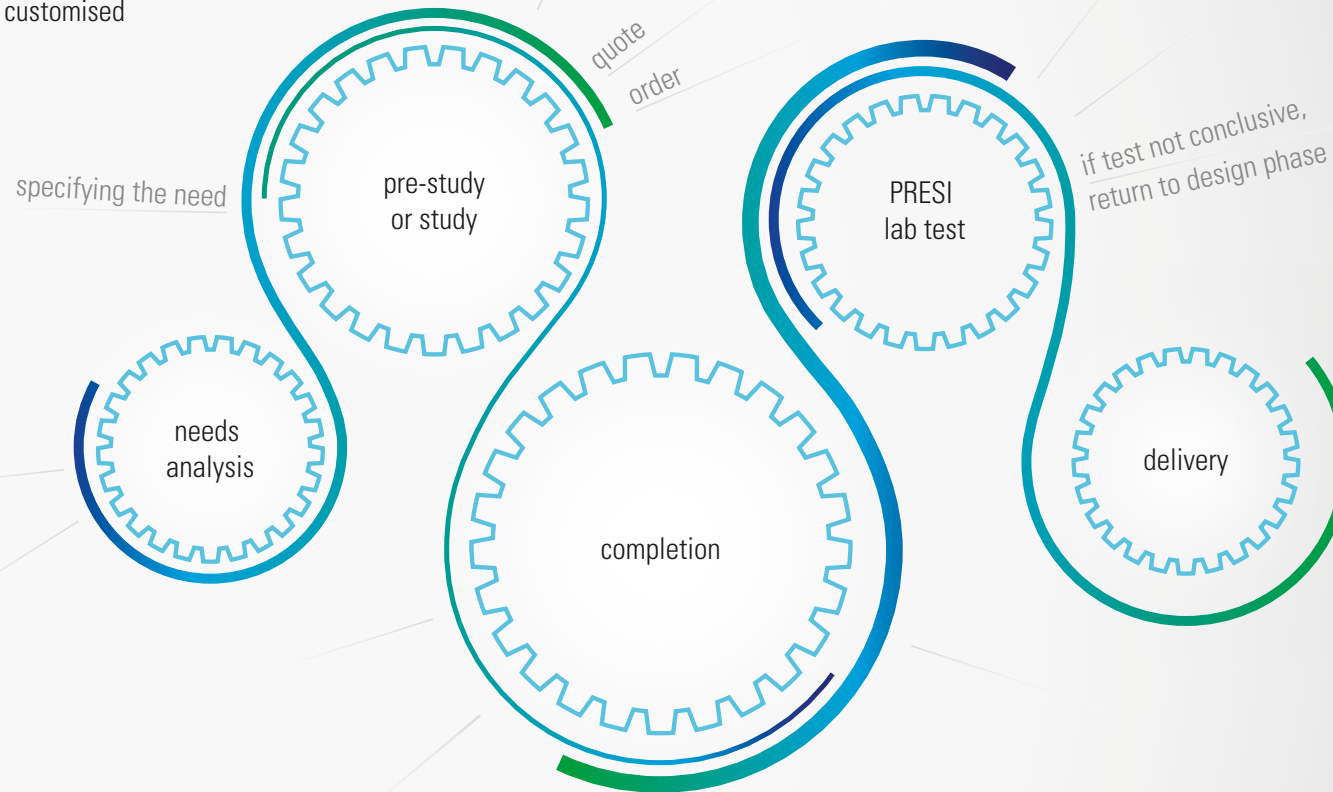
Special central pressure plate for stud



Special central pressure plate for rectangular sample

● A tried and tested method

Each project is unique.
PRESI teams adapt and offer you customised methodology.



Special central pressure plate for composite specimen



Special individual pressure plate for rectangular sample



Special individual pressure plate for thin blade



Special individual pressure plate with height-adjustable reduction ring



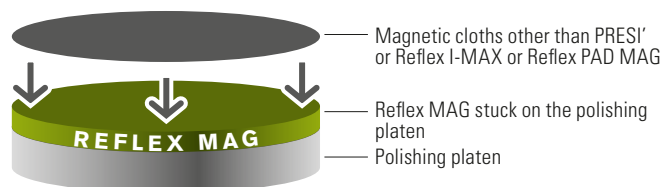
ADAPTATION DEVICES

This concept enables adaptation across-all manufacturer machines and consumables.

Reflex MAG

Reflex MAG: for the use of all brands magnetic consumables. Also possible to use on Reflex MAG, our I-MAX and PAD-MAG consumables. Reflex MAG is stuck on a regular polishing platen.

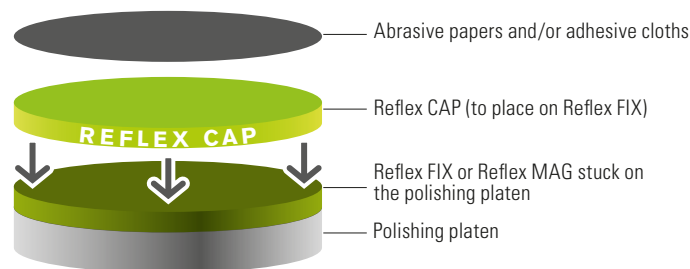
Ref.	Designation	Ø
24036	1 Reflex MAG	200mm
24038	1 Reflex MAG	250mm
24039	1 Reflex MAG	300mm



Reflex CAP

Convert a self-adhesive consumable in a Reflex or magnetic pad. Reflex CAP is a metallic plate to be stuck on the back of the consumable.

Ref.	Designation	Ø
Box of 5		
24040	Reflex CAP	200mm
24042	Reflex CAP	250mm
24043	Reflex CAP	300mm



Created and patented by PRESI, the exclusive REFLEX FIX system is a revolutionary holding system for all types of polishing supports such as abrasive papers, diamond discs or polishing cloths. No need to use an adhesive or magnetic polishing support, sample polishing becomes easier and quicker.

Reflex FIX

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



Position Reflex Fix on the polishing platen and adjust it on the center with your other hand.



Lay your abrasive papers NAC or polishing cloth PAD-MAG on Reflex Fix and put it on the platen, it is fixed!

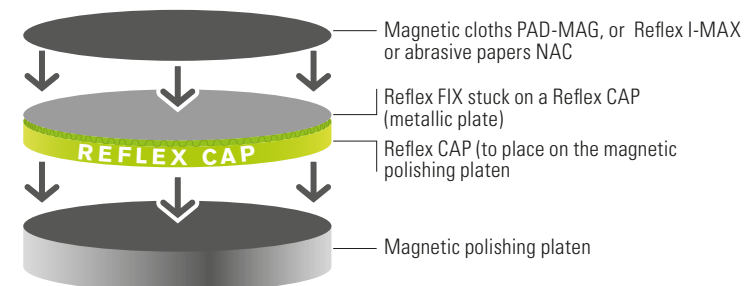


To remove the paper NAC or polishing cloths PAD-MAG: lift it and then just take it off.

Magnetic FIX

Combination of a Reflex FIX to be stuck on a Reflex CAP. Solution recommended to use abrasive papers Reflex NAC, or magnetic cloths PAD-MAD or Reflex I-MAX on any polishing machine equipped with a magnetic platen.

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





**MORE PRACTICAL, WITH NO EXTRA COST.
CAN YOU DO WITHOUT?**

**EASIER PROCESSES
FLEXIBLE
TIME SAVING**

Reflex fix concept is revolutionary.
Without self-adhesive or magnetic support.
Without extra platen.
No tedious removal of adhered surfaces.

Often copied, never equaled.
European patent N° EP 1504846.

Reflex
CONCEPT

REFLEX FIX CONCEPT IS REVOLUTIONARY



GRINDING

POLIEREN

POLISHING

POLISSAGE

GUIDE



TISSEDIAM
from 250 µm
to 10 µm

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

Type M
from P80
to P4000

SiC abrasive.

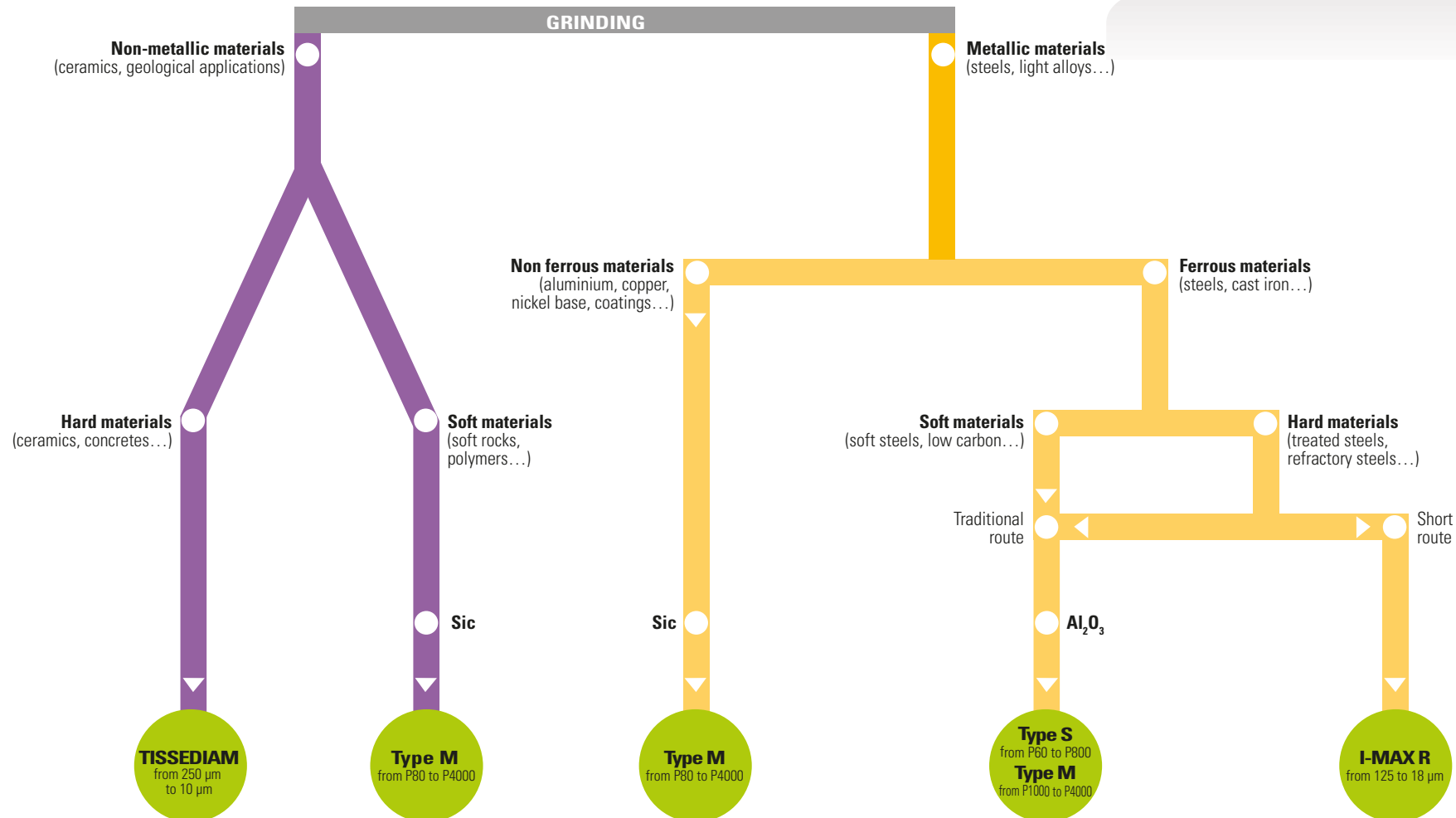
Type S
from P80
to P800

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

I-MAX R
from 125
to 18 µm

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

PRESI GUIDE GRINDING



Standards and equivalents

FEPA P	P60	P80	P100	P120	P180	P240	P320	P400	P600	P800	P1000	P1200	P2400	P4000
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			

Remind-Type M: Abrasive SIC - Type S: Abrasive Al₂O₃ except P1000, P1200, P2400 and P4000



GRINDING

I-Max R

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

Ref.	Designation	Grit	Ø
24067	Reflex I-Max R	18µ	200mm
24069	Reflex I-Max R	18µ	250mm
24070	Reflex I-Max R	18µ	300mm

24072	Reflex I-Max R	54µ	200mm
24074	Reflex I-Max R	54µ	250mm
24075	Reflex I-Max R	54µ	300mm

24077	Reflex I-Max R	75µ	200mm
24079	Reflex I-Max R	75µ	250mm
24080	Reflex I-Max R	75µ	300mm

24082	Reflex I-Max R	125µ	200mm
24084	Reflex I-Max R	125µ	250mm
24085	Reflex I-Max R	125µ	300mm

NEW!

I-MAX R

EVEN MORE EFFICIENT DIAMOND DISCS!

PRECISE

Unparalleled flatness for perfect polishing homogeneity.

EFFECTIVE

Polishing time gain of around 40%.

100% EUROPEAN

Designed, developed and manufactured by PRESI.

MULTI-PURPOSE

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

DURABLE

Unparalleled service life for less waste.

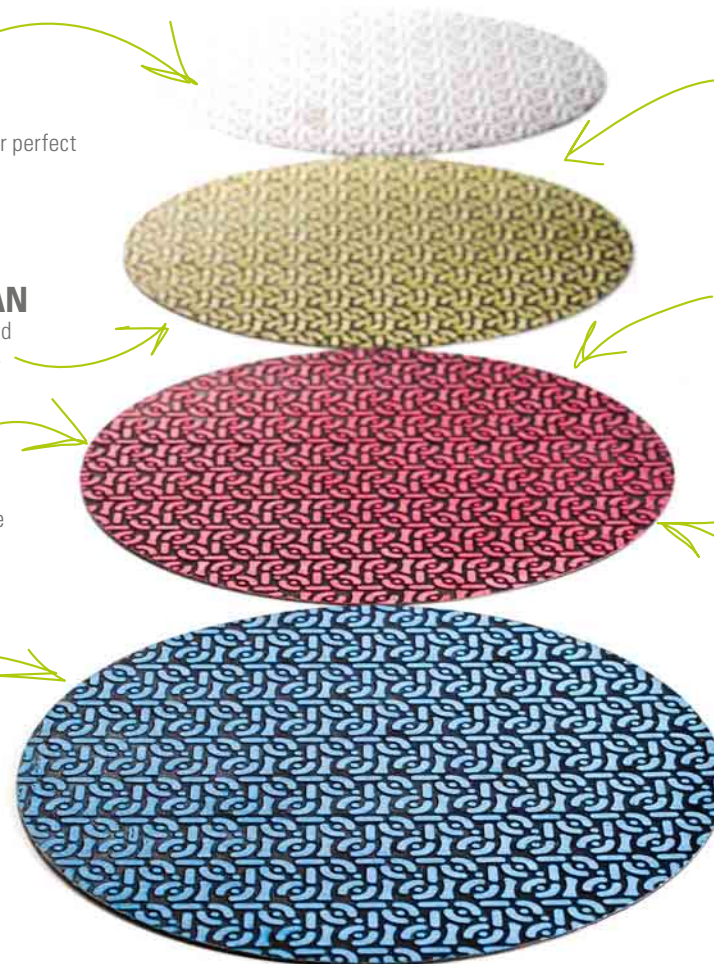
CLEAN

Innovative pattern for better residue flow.

ECONOMICAL

1 IMAX R = more than 500 pieces of sandpaper*.

* Depends on materials and polishing processes used.



I-Max

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

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

Tissediam*

Adhesive metallic or resin bond diamond discs for the leveling or grinding of non-metallic hard materials (ceramic, glass, quartz, ...).
Delivered with dressing stick.

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

* Tissediam: when used with Reflex Fix, a Reflex CAP is also necessary (Cf page 74).

** R = resin bond

*** M = metallic bond

Special abrasive discs - Zirconium oxide - ZR+

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

Ref.	Designation	Ø	Grit
Box of 25			
14224	Self Adhesive	200mm	P 60
14225	Self Adhesive	200mm	P 80
14226	Self Adhesive	200mm	P 120
14227	Self Adhesive	200mm	P 180
14267	Self Adhesive	250mm	P 60
14268	Self Adhesive	250mm	P 80
14269	Self Adhesive	250mm	P 120
14270	Self Adhesive	250mm	P 180
14317	Self Adhesive	300mm	P 60
14318	Self Adhesive	300mm	P 80
14319	Self Adhesive	300mm	P 120
14320	Self Adhesive	300mm	P 180

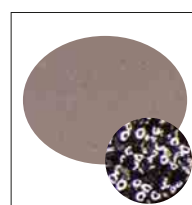
Dressing sticks 20 x 12 x 75mm

For the cleaning and dressing of diamond discs.

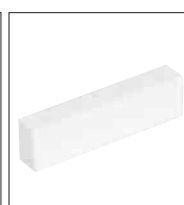
Ref.	Designation	Grit
19015	Pack of 10	220*
19016	Pack of 10	400**

* to be used with metallic bond

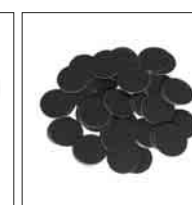
** to be used with resin bond



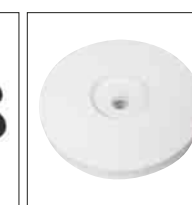
Tisserdiam



Dressing sticks



Abrasive papers



Grinding discs



Silicon Carbide

Grinding discs for grinding machine

Ref.	Designation
01052	Stone grinding discs Ø 356mm grain 150

Silicon Carbide powder*

Abrasive for lapping.

Ref.	Designation	Grit
1 kg per box		
12027	Silicon Carbide	7 µ
12026	Silicon Carbide	9 µ
12024	Silicon Carbide	17 µ
12023	Silicon Carbide	23 µ
12021	Silicon Carbide	37 µ
12020	Silicon Carbide	45 µ

* Other abrasives and grain sizes: contact us.



GRINDING

Micro abrasive-Aluminium oxide self adhesive*

Polyester sheets loaded with aluminium oxide for the optics and electronic polishing.

Ref.	Designation	Ø	Grit
Box of 25			
14230	Self Adhesive	200mm	0.3 µ
14210	Self Adhesive	200mm	1 µ
14211	Self Adhesive	200mm	3 µ
14212	Self Adhesive	200mm	5 µ
14213	Self Adhesive	200mm	9 µ
14214	Self Adhesive	200mm	12 µ
14215	Self Adhesive	200mm	30 µ
14228	Self Adhesive	200mm	40 µ

* Also available in Ø 250mm and Ø 300mm. Prices on request.

Micro abrasive-Aluminium oxide non-adhesive*

Polyester sheets loaded with aluminium oxide for the optics and electronic polishing.

Ref.	Designation	Ø	Grit
Box of 25			
13610	Plain back	200mm	0,3 µ
13611	Plain back	200mm	1 µ
13612	Plain back	200mm	2 µ
13613	Plain back	200mm	3 µ
13614	Plain back	200mm	5 µ
13615	Plain back	200mm	9 µ
13616	Plain back	200mm	12 µ
13617	Plain back	200mm	30 µ
13618	Plain back	200mm	40 µ
13619	Plain back	200mm	60 µ

* Also available in Ø 250mm and Ø 300mm.

Micro abrasive-diamond lapping films self adhesive*

Polyester sheets loaded with diamond for the optics and electronic polishing.

Ref.	Designation	Ø	Grit
1 diamond disc			
14500	Self Adhesive	200mm	0,1 µ
14501	Self Adhesive	200mm	0,5 µ
14502	Self Adhesive	200mm	1 µ
14508	Self Adhesive	200mm	1,5 µ
14503	Self Adhesive	200mm	3 µ
14504	Self Adhesive	200mm	6 µ
14505	Self Adhesive	200mm	9 µ
14506	Self Adhesive	200mm	15 µ
14507	Self Adhesive	200mm	30 µ
14509	Self Adhesive	200mm	45 µ
14510	Self Adhesive	200mm	60 µ

* Also available in Ø 250mm and Ø 300mm.

Micro abrasive-diamond lapping films non-adhesive*

Polyester sheets loaded with diamond for the optics and electronic polishing.

Ref.	Designation	Ø	Grit
1 diamond disc			
13650	Plain back	200mm	0,1 µ
13651	Plain back	200mm	0,5 µ
13652	Plain back	200mm	1 µ
13653	Plain back	200mm	1,5 µ
13654	Plain back	200mm	3 µ
13655	Plain back	200mm	6 µ
13656	Plain back	200mm	9 µ
13657	Plain back	200mm	15 µ
13658	Plain back	200mm	30 µ
13659	Plain back	200mm	45 µ
13660	Plain back	200mm	60 µ

* Also available in Ø 250mm and Ø 300mm.

Boron carbide powder*

Abrasive for lapping.

Ref.	Designation	Grit
500 gr per box		
12033	Boron Carbide	280
12035	Boron Carbide	400
12036	Boron Carbide	600
12038	Boron Carbide	1000

* Other abrasives and grain sizes: contact us.

Aluminium oxide powder*

Abrasive for lapping.

Ref.	Designation	Grit
1 kg per box		
12018	Aluminium oxide powder	1 µ
12016	Aluminium oxide powder	3 µ
12015	Aluminium oxide powder	5 µ
12014	Aluminium oxide powder	9 µ
12013	Aluminium oxide powder	12 µ
12012	Aluminium oxide powder	15 µ
12011	Aluminium oxide powder	20 µ
12010	Aluminium oxide powder	25 µ
12009	Aluminium oxide powder	30 µ
12008	Aluminium oxide powder	40 µ

* Other abrasives and grain sizes: contact us.

Lapping oil

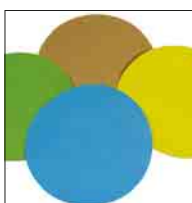
Lapping mineral oil for abrasive powders (150 to 200 g/l).

Ref.	Designation
12040	Bottle 1 l
12042	Bottle 10 l

Lubricant lapping

Water soluble lubricant.

Ref.	Designation
12041	1 l Bottle
12043	10 l Drum



Micro abrasive



Bore carbide

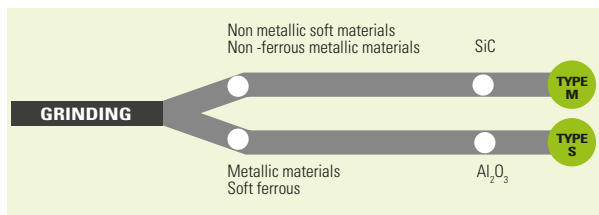


Aluminium oxide



Lubricant lapping

ABRASIVE PAPERS



● Abrasive papers Ø 200mm non-adhesive

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

● Abrasive papers Ø 200mm adhesive

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

● Abrasive papers Ø 200mm Reflex NAC

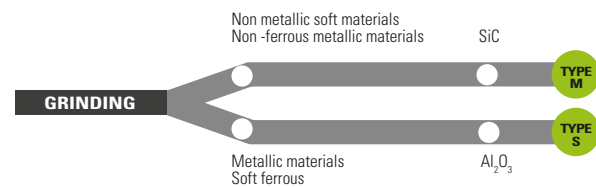


Ref.	Designation	Grit
Box of 100		
24500	S Type	P 60
24501	S Type	P 100
24502	S Type	P 120
24503	S Type	P 180
24504	S Type	P 240
24505	S Type	P 320
24506	S Type	P 400
24507	S Type	P 600
24508	S Type	P 800
Box of 100		
24575	M Type	P 80
24576	M Type	P 120
24577	M Type	P 180
24578	M Type	P 240
24579	M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



Abrasive papers

ABRASIVE PAPERS



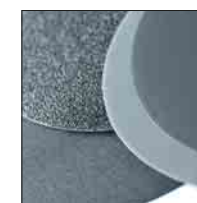
● Abrasive papers Ø 230mm non-adhesive

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

● Abrasive papers Ø 230mm Reflex NAC

Reflex
CONCEPT

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



Abrasive papers S Type

○ Abrasive papers Ø 250mm
non-adhesive

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

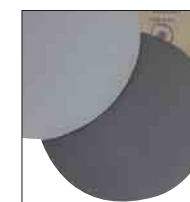
○ Abrasive papers Ø 250mm
adhesive

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

○ Abrasive papers Ø 250mm
Reflex NAC

Reflex
CONCEPT

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



Abrasive papers M Type

POLIEREN

POLISHING

POLISSAGE

CONSUMABLES



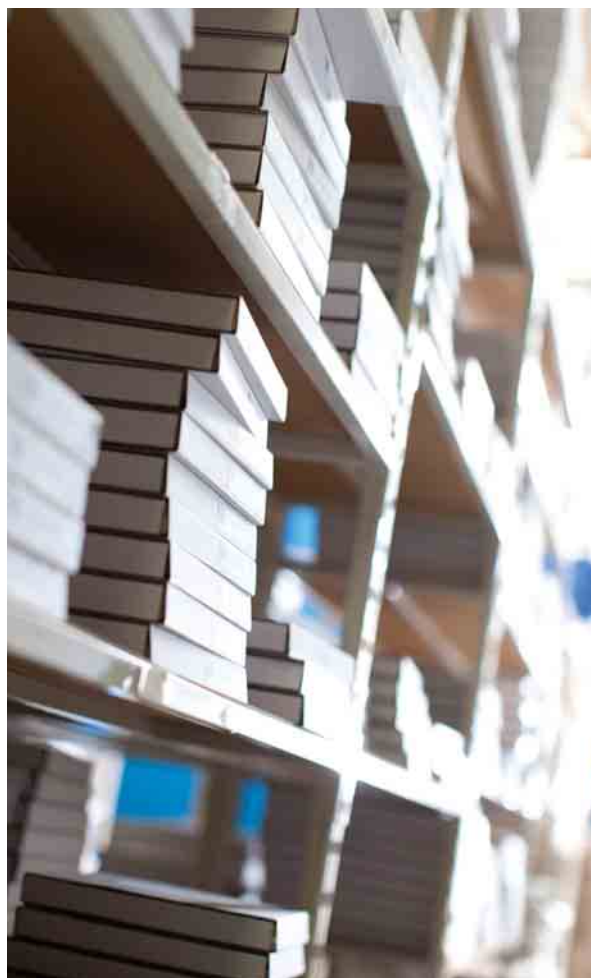
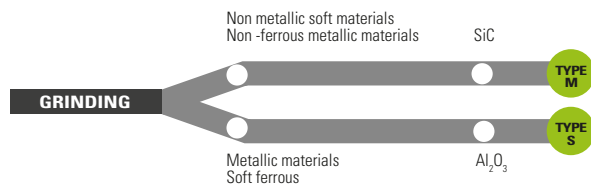
ABRASIVE PAPERS

POLIEREN

POLISHING

POLISSAGE

CONSUMABLES



● Abrasive papers Ø 300mm non-adhesive

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



Abrasive papers

● Abrasive papers Ø 300mm adhesive

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

○ Abrasive papers Ø 300mm
Reflex NAC



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

○ Abrasive papers Ø 305mm
non-adhesive

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

○ Abrasive papers Ø 400mm
adhesive

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

○ Abrasive papers Ø 32mm
adhesive

Ref.	Designation	Grit
Bag of 100		
14010	S Type	P 60
14000	S Type	P 100
14001	S Type	P 120
14002	S Type	P 180
14003	S Type	P 240
14004	S Type	P 320
14005	S Type	P 400
14006	S Type	P 600
14007	S Type	P 800
Bag of 100		
14008	M Type	P 1000
14009	M Type	P 1200
14011	M Type	P 2400
14012	M Type	P 4000

From P60 to P800: S Type.
From P1000 to P4000: M Type.



Abrasive papers Ø 32mm



Abrasive papers



POLISHING HOLDER

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

Polishing cloths are classified in 4 main families: fine-grinding, rough-finishing, finishing and super finishing.

PRESI, it's also a global offer for sticking, cleaning, protecting, marking, replicating, classifying, storing, observing, filing...



Storage tower 57157
9 platens Ø 200 to 300mm

PRESI GUIDE POLISHING



MED R AND FINE GRINDING



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







ROUGH-FINISHING CLOTHS



NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	METALLIC BACK-SIDE VERSION PAD MAG
RAM		Acetate silk satin, plasticised and glued to a semi-rigid support.	Polishing and finishing with excellent flatness Inclusion retention-All materials.	Diamond products	3 to 1 µ	16216 Ø 200mm 16266 Ø 250mm 16316 Ø 300mm	24160 Ø 200mm 24190 Ø 250mm 24205 Ø 300mm
STA		Acetate silk satin, plasticised and glued to a semi-rigid support.	All materials.	Diamond products	9 to 6 µ	16212 Ø 200mm 16262 Ø 250mm 16312 Ø 300mm	24170 Ø 200mm 24200 Ø 250mm 24215 Ø 300mm
ADR II		Wool cloth woven on a soft support.	Semi-finishing polishing with excellent flatness. All types of steels/stainless steels.	Diamond products	6 to 3 µ	16226 Ø 200mm 16276 Ø 250mm 16326 Ø 300mm	24172 Ø 200mm 24202 Ø 250mm 24218 Ø 300mm
NWF +		Synthetic fibers, elastomer bonded to a rough surface.	Final polishing of hard materials, refractories, carbides, ceramics. Applications for optics: glass and quartz (alumina & cerium oxide).	Diamond products Cerium oxide Alumina	3 to 1 µ 2.5 µ (Cerium) 0.3 µ (Alumina)	16215 Ø 200mm 16265 Ø 250mm 16309 Ø 300mm	24168 Ø 200mm 24198 Ø 250mm 24213 Ø 300mm





FINISHING CLOTHS



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

SUPER-FINISHING CLOTHS



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

Woven

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

Flocked

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

Non-woven

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



MED R

Discs MED R

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

Ref.	Designation	Ø
24087	Disc	200mm
24089	Disc	250mm
24090	Disc	300mm

Polycrystalline diamond suspension for MED R

Ref.	Designation	Grit
20613	500cc Bottle	6 µ
20623	1 l Bottle	6 µ
20633	2.5 l Container	6 µ
20614	500cc Bottle	9 µ
20624	1 l Bottle	9 µ
20634	2.5 l Container	9 µ
20615	500cc Bottle	15 µ
20625	1 l Bottle	15 µ
20635	2.5 l Container	15 µ

Super-abrasive suspension for MED R

Ref.	Designation	Grit
20653	500cc Bottle	6 µ
20663	1 l Bottle	6 µ
20673	2.5 l Container	6 µ
20654	500cc Bottle	9 µ
20664	1 l Bottle	9 µ
20674	2.5 l Container	9 µ
20655	500cc Bottle	15 µ
20665	1 l Bottle	15 µ
20675	2.5 l Container	15 µ

NEW!

MED R

QUICKER. EFFECTIVE.

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

REPLACES SEVERAL POLISHING STAGES:

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

Better removal rate

Better flatness

Enhanced circulation of polishing fluids



A complete range

3 diameters: 200, 250 and 300 mm.

CLOTHS

Polishing cloths Ø 200mm adhesive

Ref.	Designation
Box of 5	
16226	ADR II
16218	DBM
16202	HS-B
16201	HS-V
16223	LDR
16206	NT
16207	NV
16215	NWF+
16216	RAM
16211	RAM II
16230	RFI
16212	STA
16224	SUPRA
16204	TFR
16208	TMP
16214	TOP

Polishing cloths Ø 200mm Reflex PAD-MAG

Ref.	Designation
Box of 5	
24172	ADR II
24173	DBM
24164	HS-B
24163	HS-V
24165	NT
24171	NV
24168	NWF+
24160	RAM
24162	RAM II
24170	STA
24166	SUPRA
24167	TFR
24174	TMP
24161	TOP

Polishing cloths Ø 32mm

Ref.	Designation
Bags 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

Polishing cloths Ø 250mm adhesive

Ref.	Designation
Box of 5	
16276	ADR II
16268	DBM
16252	HS-B
16251	HS-V
16273	LDR
16256	NT
16257	NV
16265	NWF+
16266	RAM
16261	RAM II
16280	RFI
16262	STA
16274	SUPRA
16254	TFR
16258	TMP
16264	TOP

Polishing cloth Ø 250mm Reflex PAD-MAG

Ref.	Designation
Box of 5	
24202	ADR II
24203	DBM
24194	HS-B
24193	HS-V
24195	NT
24201	NV
24198	NWF+
24190	RAM
24192	RAM II
24200	STA
24196	SUPRA
24197	TFR
24204	TMP
24191	TOP



Polishing cloths Ø 300mm adhesive

Ref.	Designation
Box of 5	
16326	ADR II
16318	DBM
16302	HS-B
16301	HS-V
16323	LDR
16306	NT
16307	NV
16309	NWF+
16316	RAM
16311	RAM II
16330	RFI
16312	STA
16324	SUPRA
16304	TFR
16308	TMP
16314	TOP

Polishing cloths Ø 300mm Reflex PAD-MAG

Ref.	Designation
Box of 5	
24218	ADR II
24231	DBM
24209	HS-B
24208	HS-V
24210	NT
24217	NV
24213	NWF+
24205	RAM
24219	RAM II
24215	STA
24211	SUPRA
24212	TFR
24232	TMP
24206	TOP

Polishing cloths Ø 400 mm adhesive

Ref.	Designation
Box of 5	
16402	HS-B
16401	HS-V
16423	LDR
16406	NT
16441	NWF+
16416	RAM
16411	RAM II
16430	RFI
16412	STA
16424	SUPRA



DIAMOND POLISHING












POLIEREN

POLISHING

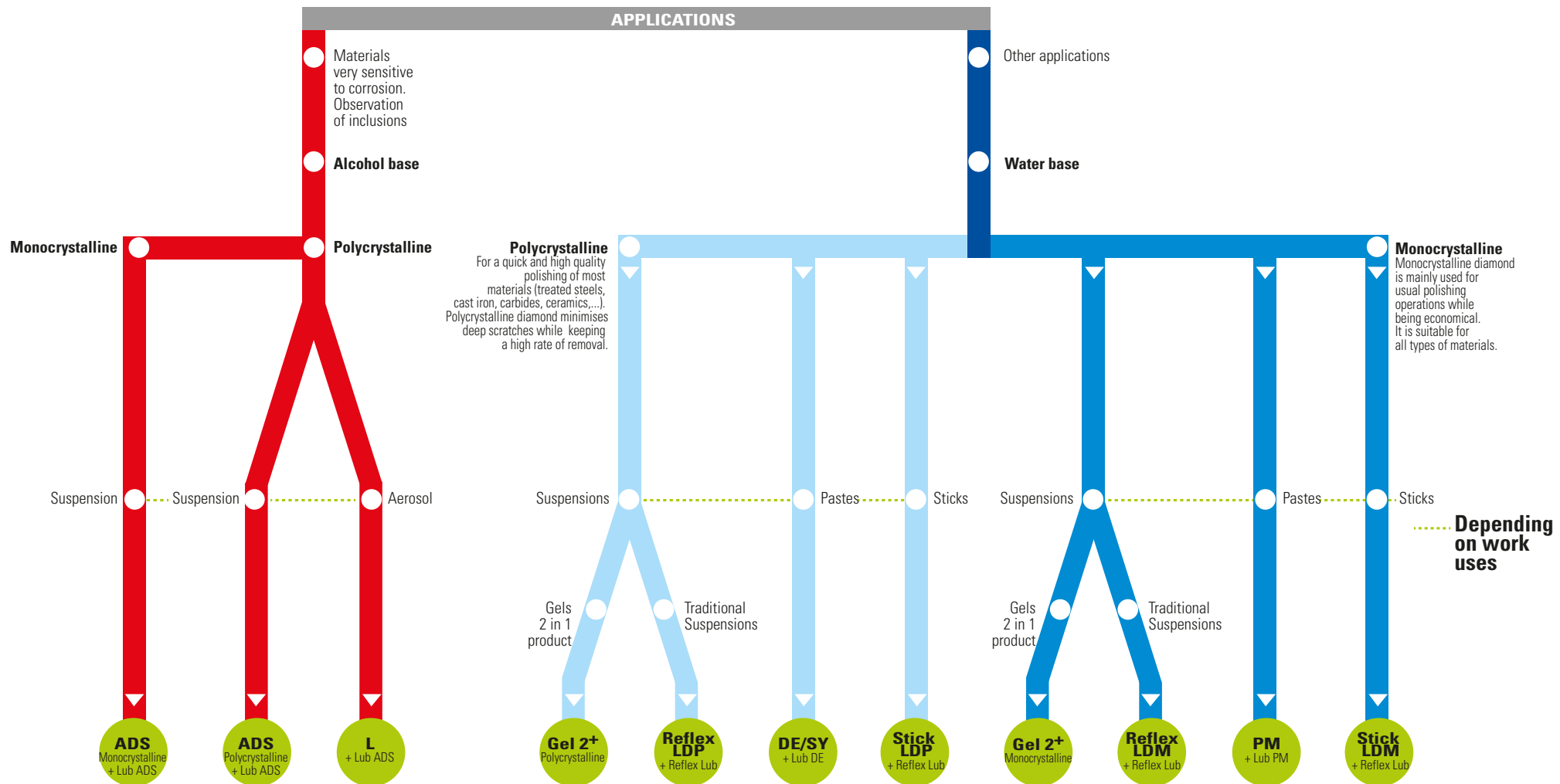
POLISSAGE

CONSUMABLES



Suspensions	Characteristics		Recommended lubricant
Alcohol base			
Diamond suspensions		New alcohol based anhydrous diamond suspensions for the polishing of soft materials sensitive to water corrosion. Also ideal for the preparation of steel ready for inclusion rating. To be used with lubricant Lub ADS.	Lub ADS
		New alcohol based anhydrous diamond suspensions for the polishing of hard materials sensitive to water corrosion. Also ideal for the preparation of steel ready for inclusion rating. To be used with lubricant Lub ADS.	Lub ADS
Diamond solutions		Aerosol with polycrystalline diamond base. High concentraton and perfect dispersion in water and alcohol. Alcohol base without water.	Lub ADS
Water base			
Diamond Gel		Coloured water base diamond gel, monocrystalline. For the polishing of soft materials. Ready for use, no need to add lubricant.	
		Water base diamond gel, polycrystalline. For the polishing of hard materials. Ready for use, no need to add lubricant.	
Diamond suspensions		Water base coloured diamond suspensions, monocrystalline, high concentration. For the polishing of soft materials. To be used with lubricant Reflex Lub.	Reflex Lub
		Water base diamond suspensions, polycrystalline, high concentration. For the polishing of hard materials. To be used with lubricant Reflex Lub.	Reflex Lub
Diamond pastes		Monocrystalline diamond paste, high concentration, Perfectly soluble in water and alcohol. For the polishing of special and stainless steels, cast iron... To be used with lubricant PM.	Lub PM
		Especially recommended for the pre-polishing of steels and the polishing of very hard materials such as: tungsten carbide, refractories, ceramics...	Lub DE
		Coloured water base diamond suspension, monocrystalline, Packed in stick. For the polishing of soft materials. To be used with lubricant Reflex Lub.	Reflex Lub
		Water base diamond paste, polycrystalline, Not coloured, packed in stick. For the polishing of hard material. To be used with lubricant Reflex Lub.	Reflex Lub

PRESI GUIDE DIAMOND



POLIEREN

POLISHING

POLISSAGE

CONSUMABLES

DIAMOND POLISHING



Diamond suspensions Reflex LDM

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



Ref.	Designation	Grit
24330	250cc Bottle	1/4 µ
24250	500cc Bottle	1/4 µ
24283	1 l Bottle	1/4 µ
24290	2.5 l Drum	1/4 µ

24331	250cc Bottle	1 µ
24251	500cc Bottle	1 µ
24284	1 l Bottle	1 µ
24291	2.5 l Drum	1 µ

24332	250cc Bottle	3 µ
24252	500cc Bottle	3 µ
24285	1 l Bottle	3 µ
24292	2.5 l Drum	3 µ

24333	250cc Bottle	6 µ
24253	500cc Bottle	6 µ
24286	1 l Bottle	6 µ
24293	2.5 l Drum	6 µ

24334	250cc Bottle	9 µ
24254	500cc Bottle	9 µ
24287	1 l Bottle	9 µ
24294	2.5 l Drum	9 µ

24335	250cc Bottle	15 µ
24255	500cc Bottle	15 µ
24288	1 l Bottle	15 µ
24295	2.5 l Drum	15 µ



Diamond suspensions Reflex LDP

Water base diamond suspensions, **polycrystalline**, high concentration. For the polishing of very hard and ductile materials. To be used with lubricant Reflex Lub.



Ref.	Designation	Grit
24340	250cc Bottle	1/4 µ
24260	500cc Bottle	1/4 µ
24439	1 l Bottle	1/4 µ
24446	2.5 l Drum	1/4 µ

24341	250cc Bottle	1 µ
24261	500cc Bottle	1 µ
24440	1 l Bottle	1 µ
24447	2.5 l Drum	1 µ

24342	250cc Bottle	3 µ
24262	500cc Bottle	3 µ
24441	1 l Bottle	3 µ
24448	2.5 l Drum	3 µ

24343	250cc Bottle	6 µ
24263	500cc Bottle	6 µ
24442	1 l Bottle	6 µ
24449	2.5 l Drum	6 µ

24344	250cc Bottle	9 µ
24264	500cc Bottle	9 µ
24443	1 l Bottle	9 µ
24450	2.5 l Drum	9 µ

24345	250cc Bottle	15 µ
24265	500cc Bottle	15 µ
24444	1 l Bottle	15 µ
24451	2.5 l Drum	15 µ

Sprays

Ref.	Designation
10008	5 bottles of 500cc
10015	10 bottles of 250cc
10016	50 bottles of 50cc

Gel²⁺ monocrystalline

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

Ref.	Designation	Grit
24301	1 l Bottle	1/4 µ
24315	Bottle de 2.5 l	1/4 µ
24302	1 l Bottle	1 µ
24316	2.5 l Drum	1 µ
24303	1 l Bottle	3 µ
24317	2.5 l Drum	3 µ
24304	Bottle 1 l	6 µ
24318	2.5 l Drum	6 µ
24305	1 l Bottle	9 µ
24319	2.5 l Drum	9 µ
24306	1 l Bottle	15 µ
24320	2.5 l Drum	15 µ

Gel²⁺ polycrystalline

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

Ref.	Designation	Grit
24309	Bottle 1 l	1/4 µ
24321	2.5 l Drum	1/4 µ
24310	1 l Bottle	1 µ
24322	2.5 l Drum	1 µ
24311	1 l Bottle	3 µ
24323	2.5 l Drum	3 µ
24312	1 l Bottle	6 µ
24324	2.5 l Drum	6 µ
24313	1 l Bottle	9 µ
24325	2.5 l Drum	9 µ
24314	1 l Bottle	15 µ
24326	2.5 l Drum	15 µ



Diamond suspensions ADS polycrystalline

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

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

Diamond suspensions ADS monocrystalline

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

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

Diamond aerosols-L

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

Ref.	Designation	Grit
07001	150cc Bottle	1/4 µ
07002	150cc Bottle	1 µ
07003	150cc Bottle	3 µ
07004	150cc Bottle	6 µ
07005	150cc Bottle	9 µ
07006	150cc Bottle	15 µ

Diamond sticks-LDM

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

Ref.	Designation	Grit
18010	20 g	1/4 µ
18011	20 g	1 µ
18012	20 g	3 µ
18013	20 g	6 µ
18014	20 g	9 µ
18015	20 g	15 µ
18016	20 g	25 µ

Diamond sticks-LDP

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

Ref.	Designation	Grit
18020	20 g	1/4 µ
18021	20 g	1 µ
18022	20 g	3 µ
18023	20 g	6 µ
18024	20 g	9 µ
18025	20 g	15 µ
18026	20 g	25 µ



DIAMOND POLISHING

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

Diamond pastes-DE/SY

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

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

Lubricants

Lubricant DE: water and alcohol base.

To be used with paste DE/SY.

Lubricant PM: water and alcohol base.

To be used with paste PM.

Lubricant ADS: alcohol base.

To be used with suspension ADS.

Lubricant LUB: water base.

To be used with suspensions and sticks LDM and LDP.

Ref.	Designation	Type
10005*	1 l Bottle	DE
10020	10 l Drum	DE
10006*	1 l Bottle	PM
10021	10 l Drum	PM
10013*	1 l Bottle	ADS
10025	10 l Drum	ADS
24270*	1 l Bottle	Reflex Lub
24271	10 l Drum	Reflex Lub

* Comes in a spray bottle.



SUPER-FINISHING POLISHING



● PRESI alumina powders

Ref.	Designation
Box of 1 kg	
11001	Gamma 0.04 μ
11002	Alpha 0.3 μ
11003	Alpha 1 μ

● PRESI alumina suspensions

PRESI N° 1-Grit: 0.04 μ .

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

PRESI N° 2-Grit: 0.3 μ .

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

PRESI N° 3-Grit: 0.8 μ .

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

PRESI N° 4-Grit: 1 μ .

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

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

● Dujardin alumina suspensions

DUJARDIN N° 1-Grit: 0-1 μ . Blue.

Use: suitable for polishing of steel and hard steels.

DUJARDIN N° 2-Grit: 0-0.7 μ . White.

Use: produces a flawless surface with all hard and semi-hard metals.

Suitable for brass, bronze... and more generally, for all copper and nickel alloys.

DUJARDIN N° 3-Grit: 0-0.3 μ . Pink.

Use: for finishing of metallographic specimens and in particular for soft metals: copper, lead...

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

Ref.	Designation	Grit
Bottle of 1 l		
11012	N° 3	(0-0,3 μ)
11011	N° 2	(0-0,7 μ)
11010	N° 1	(0-1 μ)

● Cerium oxide

Suitable for the polishing of optics and ceramics.

Ref.	Designation	Grit
36207	1 kg Pack	2.5 μ

● SPM (colloidal silica)

SPM suspension is intended for super-finishing of aluminium, copper, titanium specimens and more generally any specimen with thin layers.

This suspension can be diluted up to 7 times in water.

To avoid crystallisation, the specimens and the cloth must be thoroughly rinsed with water after polishing.

Ref.	Designation	Grit
12006	1 l Bottle	0.03 μ
12007	10 l Drum	0.03 μ
24280*	1 l trigger Spray bottle (Reflex)	0.03 μ

* Comes in a spray bottle.

● SPM (colloidal silica) non crystallising

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

Ref.	Designation	Grit
12045	1 l Bottle	0.03 μ
12046	10 l Drum	0.03 μ
24281*	1 l trigger Spray bottle (Reflex)	0.03 μ

* Comes in a spray bottle.



POLIEREN

POLISHING

POLISSAGE

CONSUMABLES



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.

Ref. 100ml	Ref. 1L	Name	Formula	Etchant	Use
17251	17252	NITAL 3%	3ml HNO ₃ + 100ml Ethanol	Micro	Steels - Revealing ferrite grains / phases Magnesium and most magnesium alloys Tin and tin rich alloys with cadmium, copper, iron and antimony Gadolinium Rare earth Cobalt alloys
17220	17221	NITAL 4%	4ml HNO ₃ + 100ml Ethanol		
17253	17254	NITAL 5%	5ml HNO ₃ + 100ml Ethanol		
17255	17256	NITAL 7%	7ml HNO ₃ + 100ml Ethanol	Macro	Steels - after approach work.
17257	17258	NITAL 15%	15ml HNO ₃ + 100ml Ethanol		
17259	17260	Oberhoffer etchant	500ml H ₂ O + 500ml Ethanol + 50ml HCl + 30 g FeCl ₃ + 1g CuCl ₂ + 0,5g SnCl ₂	Macro	Non-alloys or low-alloyed steels.
17222	17223	Picral -1 etchant	10g Picric acid + 100ml Ethanol	Micro	Iron Carbon steels Low-alloyed steels Cast iron & cast steels coated with iron / tin General etchant for steels, in particular revealing carbide, good phase resolution.
17261	17262	Picral -2 etchant	4g Picric acid + 100ml Ethanol		
17263	17264	Béchet - Beaujard etchant	4g Picric acid + 99ml H ₂ O + 1ml Teepol	Micro	Steels - Revealing grain joints in and low-alloys quenched and tempered carbon steels (1 to 3 hours attack).
17265	17266	Iron chloride III acidified solution	48ml H ₂ O + 12ml HCl + 5g FeCl ₃	Macro	Steels - Macroscopic examination in general use. For chromium steels, nickel and stainless steels.
17267	17268	Iron chloride III neutral solution	Aqueous solution - 41% de FeCl ₃	Macro	Steels - Steels weld.
17228	17229	Fry A etchant	40ml HCl + 5g CuCl ₂ + 30ml H ₂ O + 25ml Ethanol	Macro	Steels - Steels attack.
17283	17284	Fry B etchant	100ml H ₂ O + 150ml HCl + 67 g CuCl ₂	Macro	Carbon steels - Flux lines.
17269	17270	Le Chatelier N°2 etchant	100ml Ethanol + 10ml H ₂ O + 1g de CuCl ₂ + 0.5g Picric acid + 2ml HCl	Micro	Iron - Eutectic cells of a grey cast iron.
17244	17245	Curran etchant	10ml FeCl ₃ + 30ml HCl + 100ml H ₂ O	Micro	Stainless steels.
17232	17233	Marble etchant	10g CuSO ₄ + 50ml HCl + 50ml H ₂ O	Macro	
17224	17225	Aqua regia	20ml HNO ₃ + 60ml HCl	Micro	Austenitic stainless steels.
17230	17231	Murakami etchant	10g K ₃ Fe(CN) ₆ + 10g KOH + 100ml H ₂ O	Micro	Austenitic and ferritic stainless steels, tungsten carbide.
17226	17227	Kalling etchant	2g CuCl ₂ + 40ml HCl + 60ml Ethanol	Micro	Austenitic and ferritic stainless steels.
17234	17235	Vilella etchant	5ml HCl + 1g Picric acid + 100ml Ethanol	Micro	Austenitic stainless steels - Revealing of grain, tool steels, martensitic stainless steels.
17285	17286	V2A etchant	100ml H ₂ O + 100ml HCl + 10ml HNO ₃	Micro	Stainless steels - Size of grain (Attack between 50 and 60°C).

Dangerous products: specific transport costs and prices upon request.



Ref. 100ml	Ref. 1L	Name	Formula	Etchant	Use
17236	17237	Barker etchant	5g HBF ₄ + 200ml H ₂ O	Micro	Aluminium - Revealing of structure/grains.
17238	17239	Keller etchant	2ml HF + 3ml HCl + 5ml HNO ₃ + 190ml H ₂ O	Micro	Aluminium - Revealing of structure.
17271	17272	5% HF solution in distilled water	Aqueous solution - 5% de HF	Micro	Aluminium - Microstructures of brazed aluminium seals (Observation of dissolution phenomena).
17273	17274	5% sodium solution	Aqueous solution - 5% NaOH	Micro	Aluminium alloys.
17275	17276	10% sodium solution	Aqueous solution - 10% NaOH	Macro	Aluminium alloys, weld.
17240	17241	Potassium dichromate	1g K ₂ Cr ₂ O ₇ + 4 ml H ₂ SO ₄ + 50 ml H ₂ O	Micro	Copper - Revealing of grain.
17277	17278	Alcohol solution of iron chloride III acid	5g de FeCl ₃ + 5ml d'HCl + 95ml Ethanol	Micro	Copper compounds - Copper compound attack.
17246	17247	INVAR / KOVAR	400ml HCl + 8g CuCl ₂ + 400ml H ₂ O + 800 ml Methanol + 28g FeCl ₃ + 20 ml HNO ₃	Micro	Invar - Kovar.
17242	17243	Kroll etchant	3ml HF + 6 ml HNO ₃ + 100ml H ₂ O	Micro	Titanium - Revealing of structure Titanium alloys primarily alloys Ti-Al-V-(Sn).
17279	17280	Adler etchant	25ml water + 3g [(NH ₄) ₂ CuCl ₄ · 2 H ₂ O] + 50ml HCl + 15 g FeCl ₃	Micro/Macro	Attack of Inconel Superalloys Corrosion resistant steels Cobalt and nickel alloys.
	17281	Denatured ethanol (5l)	-		Cleaning
	17282	Denatured ethanol (10l)	-		Cleaning

Specific reagents on demand.

Attack of a steel weld using NITAL 4%



Macro before attack



Macro after attack



Micro before attack



Micro after attack

Dangerous products: specific transport costs and prices upon request.





ELECTROLYTIC POLISHING

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

Solutions for electrolytic polishing for Polisecc C 25

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

Ref.	Name	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	

Dangerous products: specific transport costs and prices upon request.

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.	Name	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	Iron, steels, stainless steels, cast iron, cobalt, chromium
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





MICROSCOPY AND HARDNESS

The ultimate step. The final result of the process.

For the observation of your samples, the determination of the material characteristics, we design top of the range equipment. They guarantee you perfect reliable results.

Progressive solutions, software assisted or automated, we can cover the whole range up to the highly specialised needs.

Innovation, precision.

A complete **vision** without compromise.

**“THE PRECISION OF THE RESULT DEPENDS
ON GOOD PREPARATION FROM THE BEGINNING.
FOR THIS, WE HAVE THE SOLUTIONS.”**



MICROSCOPES

P. 100



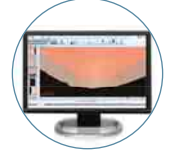
HARDNESS TESTERS

P. 100



ACCESSORIES

P. 100



SOFTWARE

P. 101



MICROSCOPY

PRESI offers a complete range in microscopy :
camera stand, stereomicroscopes, microscopes.

**THE COMPLETE
STUDY OF YOUR NEEDS**
Do not hesitate to contact us.

The microscopes



The stereomicroscopes



HARDNESS

PRESI offers a complete line of hardness testers for:
portable hardness testing, micro-hardness testing,
macro Vickers testing and Rockwell hardness testing.






**PRESI MULTI-BRAND
SPECIALIST
FOR OPTICS AND HARDNES**

Our automated solutions



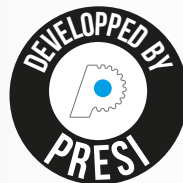
The hardness testers



				
71157 Self level vise for non mounted samples	71113 - 71141 Standard Vickers test block	71108 C mount for Microtech	71120 Digital micrometers for manual XY stage	71133 Precision vise jaw 50mm

PRESI VIEW

SOFTWARE FOR IMAGE ACQUISITION AND MEASUREMENT



PRESI offers its own imaging software developed specifically for the metallographic needs of image acquisition and measurement with an optional indentation hardness calculation module also available. PRESI VIEW can be added to any microscope or hardness tester with an available C-mount port or existing video signal output.

Pack Presi View Measure

Ref. 71101

- Image acquisition
- 5 camera inputs
- Simple and composed measurements
- Free comments
- Results saving under several formats
- Integration of pictures in your reports
- Easy copy of the pictures ("vignette" function)
- Result board.

Equipment

- Image acquisition and measurement software
- USB cable
- Protection Key
- Monochrome or color digital camera USB2, CMOS 1/2 with Rolling or Global Shutter depending on model selected. Very simple in operation, with fast refresh rate.

Hardness Module

- Vickers, Knoop hardness measures
- Automatic measure by analysis of image
- Result board.

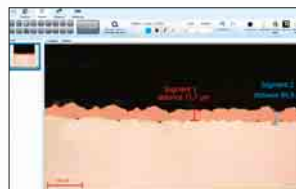
Pack Presi View Hardness

Ref. 71168

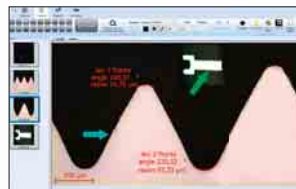
- Vickers, Knoop hardness measures
- Automatic measure by analysis of image
- Result board.



Coating measurement



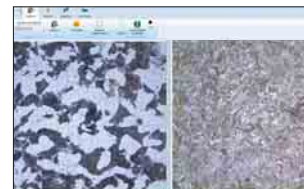
Measurement of axes, segments, polygons, angles...



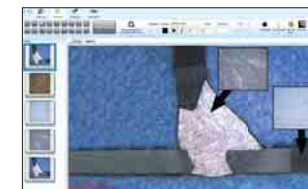
Thumbwall overview



Compare structures



Macro welding



Manual or automatic measurement of Vickers indentation



WELDINSPECTOR*

SOLID, RAPID WELD CONTROL SOFTWARE

Available in two versions: control or **nomad** kit, the optical material is developed without set-up, and without moving parts, which makes the system robust and very quick to use. Measurements are reliable and reproducible.

Camera resolution	5M Pixel 2560 x 1920 CMOS 1/2 10M Pixel 3880 x 2592 CMOS 1/2"
	LED
	Zoom 2x to 62.5x
	Visual range: 120mm x 90mm

* Contact us for more information

