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# 2013

# WELCOME



GLOBAL OFFER



CUTTING



MOUNTING



POLISHING



HARDNESS TESTING





CUTTING



MOUNTING



POLISHING



HARDNESS TESTING

## 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 distribution in more than 35 countries and subsidiary facilities in China, Switzerland, Germany and the United Kingdom. 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."**

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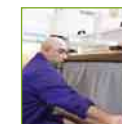
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**“PRESI CONTINUOUSLY OPTIMISES AND WIDENS ITS RANGE OF PRODUCTS. THE OBJECTIVE IS CLEAR: EXCEED EXPECTATIONS.”**





# 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."**





## **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."**



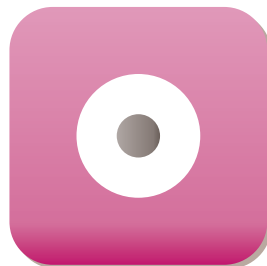
“LABORATORY IN EACH OF OUR SUBSIDIARIES, IS ESSENTIAL. THIS IS THE WAY WE CAPTURE THE EXPERIENCES OF OUR R&D, AS OUR CUSTOMER ONES.”



## 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

## Ref. 51700

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



## 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

# ACCESSORIES MECATOME T180

## Sample chucks

### 51715

V shaped sample chuck

### 51717

Vice chuck for longitudinal cuts

### 51713

Chuck for small samples (Vice Type)

### 51156

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

### 51714

Irregular shaped sample chuck

### 51716

Chuck for cylindrical sample (up to 32mm)

### 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 Ø 35mm 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

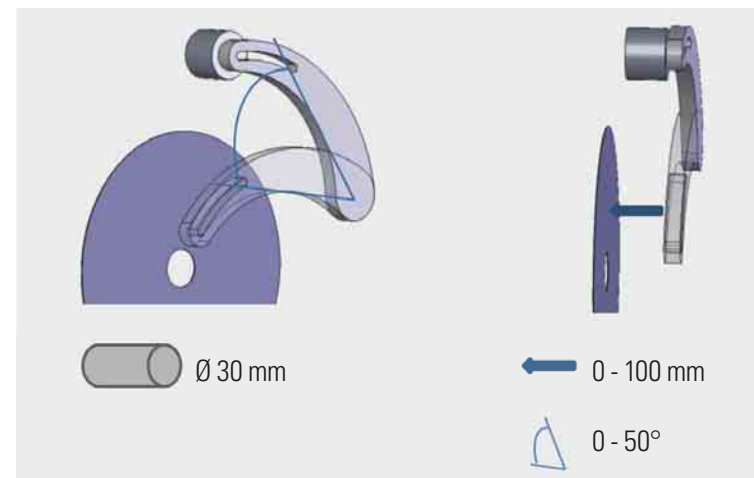
### 51720

Low speed kit 100 to 1 200 RPM T180/Flexicut

### 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.



51715



51717



51713



51156



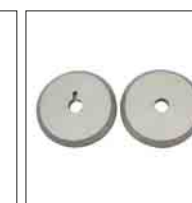
51714



51716



51162 - 51163



51710 - 51711 - 51712



51730

# FLEXICUT

## Ref. 51800

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



**NEW!**

## 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
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



51715



51717



51713



# ACCESSORIES FLEXICUT

## Sample chucks

**51715**  
V Shaped sample chuck

**51717**  
Vice chuck for longitudinal cuts

**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

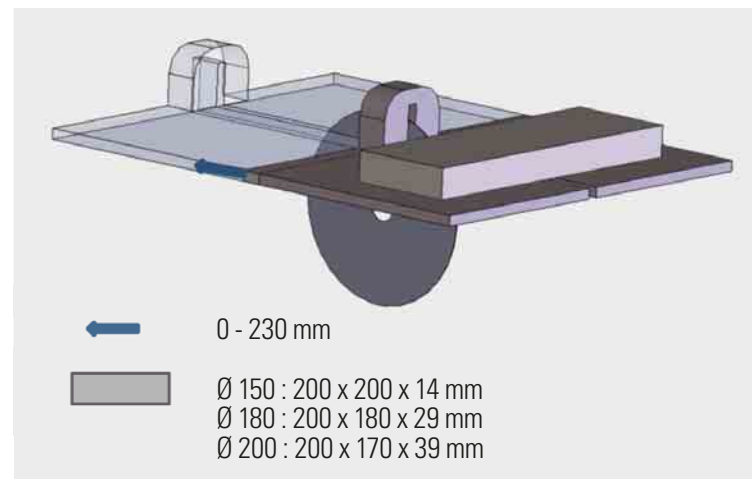
**51712**  
Set of 2 flanges Ø 75mm for wheel  
Ø 150 to 180mm

## Other accessories

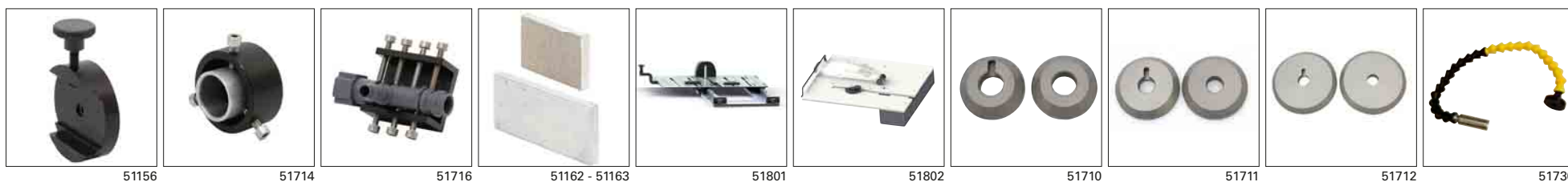
**51720**  
Low speed kit 100 to 1 200 RPM T180/Flexicut

**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 & UL



## 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

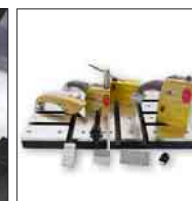
Hood	
Type	PETG enclosure with metal hinges
Safety	Interlock switch keeps hood locked during cutting
Motorization-Power supply	
Power	1 500 W
Power supply	220 V / Single phase / 50 Hz
Control of the motor	Frequency inverter
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off 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	Internal lighting by LED
Spray nozzle for cleaning	Integrated



51319 - 51321



51356



50613 - 50616



51715



51717

# ACCESSORIES MECATOME T210

## Vices and Holders

- 51319**  
Quick clamping vice right side
- 51321**  
Quick clamping vice left side
- 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

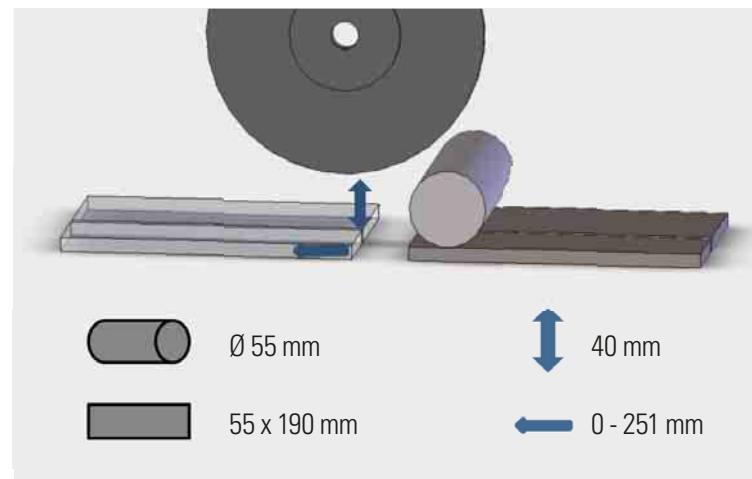
## Tables & positioning

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

## Sample chucks

- 51715**  
V Shaped sample chuck
- 51717**  
Vice chuck for longitudinal cuts
- 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)

## 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 & UL



## 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	Halogen
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

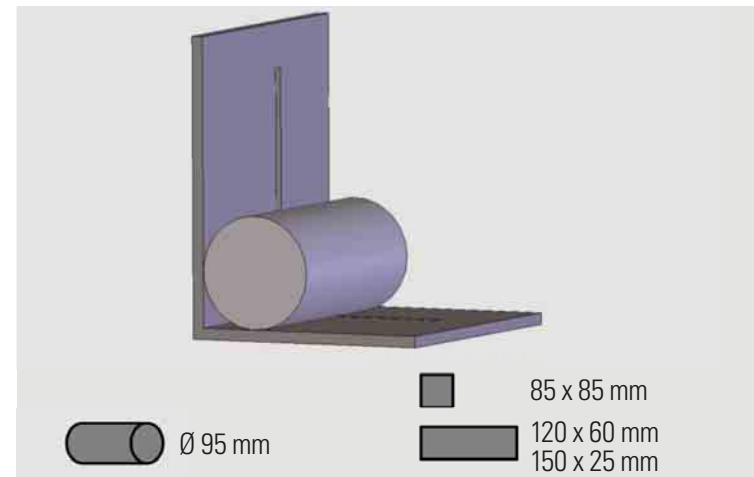
**51006**  
Base Cabinet

**51230**  
Cleaning Set

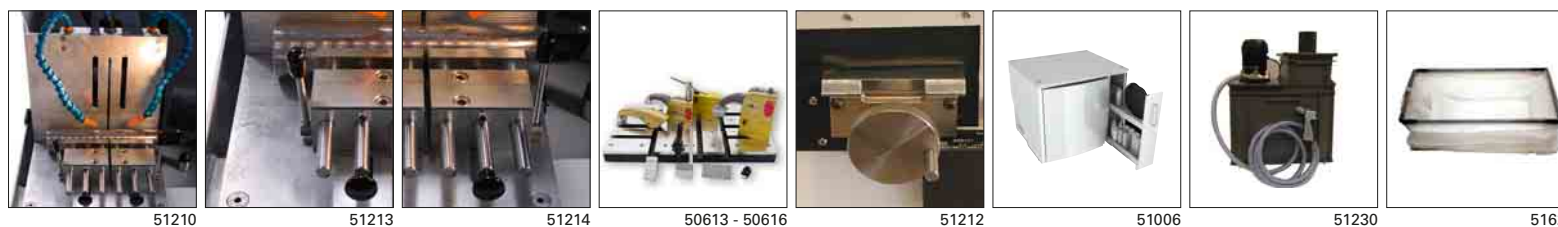
**51250**  
Variable speed option (1.500 RPM to 4.000 RPM)

**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

51621

# MECATOME ST310

## Ref. 50200

Width: 660mm (+ 120mm for the swinging arm)

Depth: 880mm

Height (closed lid): 660mm

Weight: 120 kg

Conformity: EC & UL



51319 - 51321

## 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
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	Halogen
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

**50903**

Right screw clamping vice  
Height 45mm

**50613**

Box of Kopal holders

**50616**

Kopal holding

## Tables & positioning

**51610**

Manual X-axis table

## Other accessories

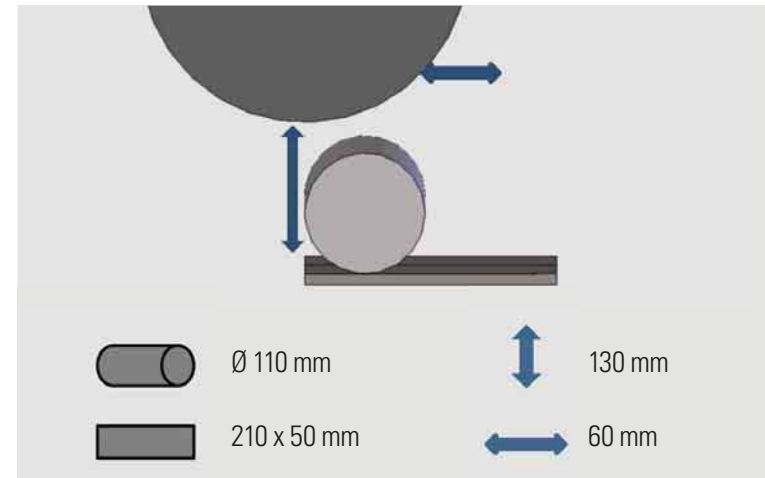
**51006**

Base Cabinet

**51620**

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

## 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.



50906



50905



50909



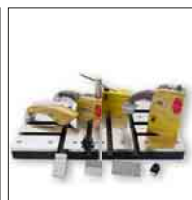
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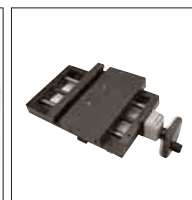
50901



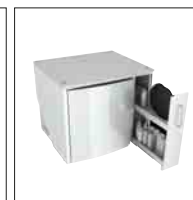
50903



50613 - 50616



51610



51006



51620

# MECATOME T300

Ref. 51600

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



**EVO  
LUTION**



51319 - 51321

## 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
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	Halogen
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

**50903**

Right screw clamping vice  
Height 45mm

**50613**

Box of Kopal holders

**50616**

Kopal holding

## Tables & positioning

**51610**

Manual X-axis table

## Other accessories

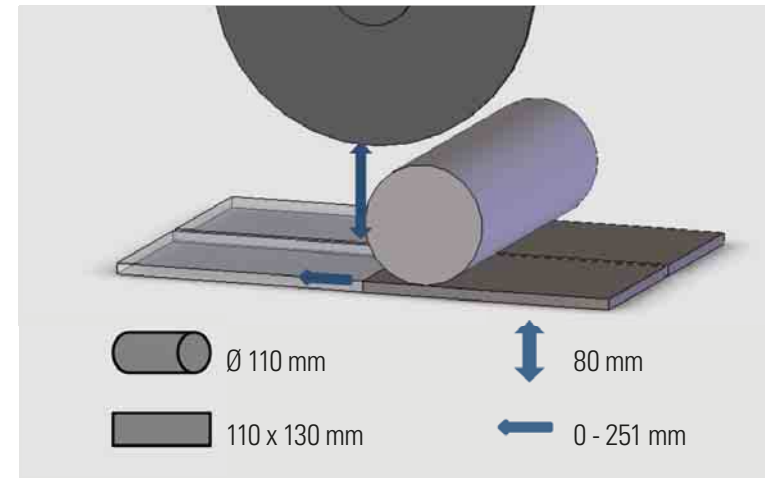
**51006**

Base Cabinet

**51620**

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

## 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.



50906



50905



50909



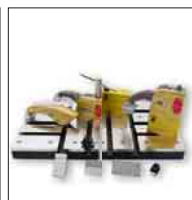
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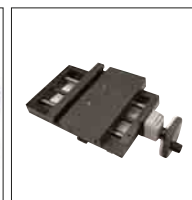
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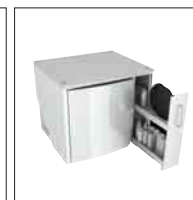
50903



50613 - 50616



51610



51006



51620

# MECATOME T330

Ref. 50300

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



51319 - 51321

## 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
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
Holders	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	Halogen
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
- 50903**  
Right screw clamping vice  
Height 45mm
- 50613**  
Box of Kopal holders
- 50616**  
Kopal holding

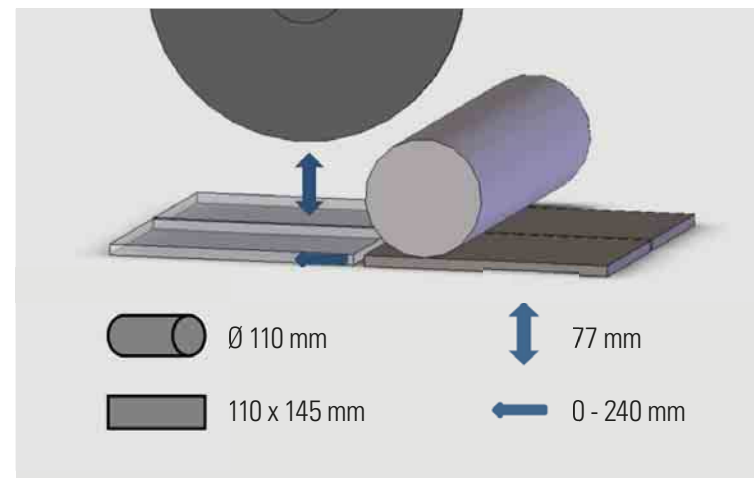
## Tables & positioning

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

## 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.



50906

50905

50909

50902

50901

50903

50613 - 50616

51010

51610

51620

# MECATOME T350M

Ref. 50502

Width: 780mm  
Depth: 1 016mm  
Height (closed lid): 1 700mm  
Weight: 325 kg  
Conformity: EC & UL



## MECATOME T350M, floor standing, large capacity manual abrasive cut-off machine

The MECATOME T350M provides a large, easy to use sample cutting capability and is simple to clean thanks to the design of the unobstructed cutting chamber that is separated from the cutting motor. The cutting wheel arm, motor assembly and the transmission ratio's have been optimised to provide excellent balance and "feel" for the operator while providing the optimal cut during the cutting operation. A large cutting table is provided with stainless steel "T" slot beds to accommodate a wide range of available fixturing systems.

The MECATOME T350M is equally at home in the lab or in the workshop.

## Characteristics

Hood	
Type	Gravity balanced PETG enclosure with metal hinges
Safety	Interlock switch keeps hood locked during cutting
Motorization-Power supply	
Power	4 000 W
Power supply	380 V / Three-phases / 50 Hz
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	Up to 355mm
Rotation speed	2.200 RPM
Arbor size	25.4mm
Control	
Control Interface	Illuminated push buttons
Cutting	
Cutting modes	Manual chop action
Optional X axis travel	Optional X axis travel: 167mm
Table dimensions	400 x 320mm
Distance between cut-off wheel and table	145mm (with Ø 350mm cutting disc)
Table type	Treated aluminium table with stainless steel "T" slot bed
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed
Lubrication-Cooling	
Pump & tank	Integrated-100 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	Halogen
Spray nozzle for cleaning	Integrated

# ACCESSORIES MECATOME T350M

## Vices and Holders

### 50906

Left and right quick clamping vices  
Height 45mm

### 50905

Left quick clamping vice  
Height 45mm

### 50909

Right quick clamping vice  
Height 45mm

### 50510

Left and right quick clamping vices  
Height 70mm

### 50902

Left and right screw clamping vices  
Height 45mm

### 50901

Left screw clamping vice  
Height 45mm

### 50903

Right screw clamping vice  
Height 45mm

### 50610

Transversal table

### 50617

Kopal chain clamp

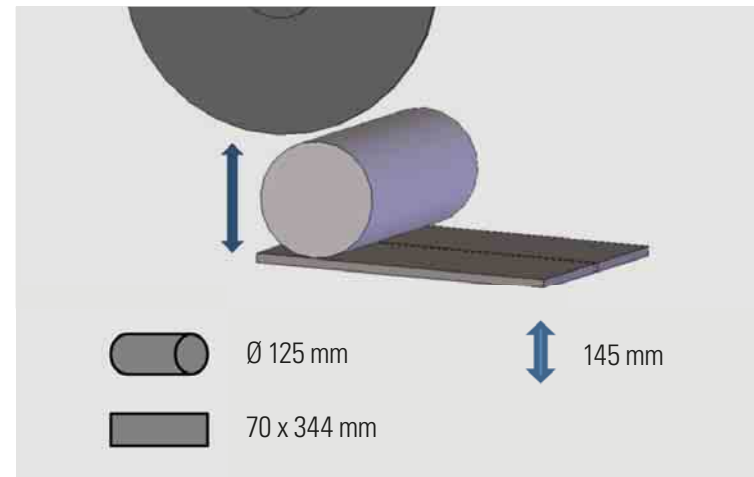
### 50613

Box of Kopal holders

### 50616

Kopal holding

## Cutting envelope\*



\* This illustration of the cutting envelope of the MECATOME T350M is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.



50906



50905



50909



50510



50902



50901



50903



50617



50613 - 50616





# EVO 450

**Ref. 50800**

Width: 1 660mm  
Depth: 1 815mm  
Height (closed hood): 1 955mm  
Weight: 1 100 kg  
Conformity: EC & UL

**NEW!**

## Cutting machine EVO 450 floor standing, large capacity automated abrasive cut-off machine

Equipped with the latest technologies EVO 450 can accept work pieces up to 200kg in weight and up to 250mm in height on its 600mm x 600mm cutting table. Perfect for cutting very large pieces, EVO 450 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	PETG enclosure with metal hinges and motorised opening and closing
Safety	Interlock switch keeps hood locked during cutting
Motor-Power	
Power	11000 W / 21000 W (via variator)
Electrical supply	380 V / 3 phases / 50 Hz
Motor control	Frequency inverter
Cut-off wheels	
Type of cut-off wheels	Resin bonded and metal bonded
Wheel diameter	Up to 450mm
Rotational speed	from 1.000 to 3.000 RPM
Arbor size	32mm
Control and setting of parameters	
Interface	LCD
Security Access	Can activate password protection
Programmability	100 programs protected by password
Cutting	
Cutting modes	Assisted, Automatic, Programmability, Pulsed
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
Cutting length Y Axis	200mm
Cutting length X Axis	150mm
Cutting length Z Axis	400mm
Serial cutting	2 modes: Y Axis cut and Z Axis cut
Cutting table dimensions	Left table: 295 x 600mm-Right table: 295 x 600mm
Laser to locate the cut	Yes
Table type	Treated aluminium table with interchangeable stainless steel "T" slot plates
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed
Lubrication- Cooling system	
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
User-friendliness	
Lighting in the cutting compartment	LED
Spray nozzle for inside cleaning	Integrated
Automatic cooling system	Yes

# ACCESSORIES EVO450

## 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

Kopal chain clamp

### 50613

Box of Kopal holders

### 50616

Kopal holding

### 50902

Left and right screw clamping vices  
Height 45mm

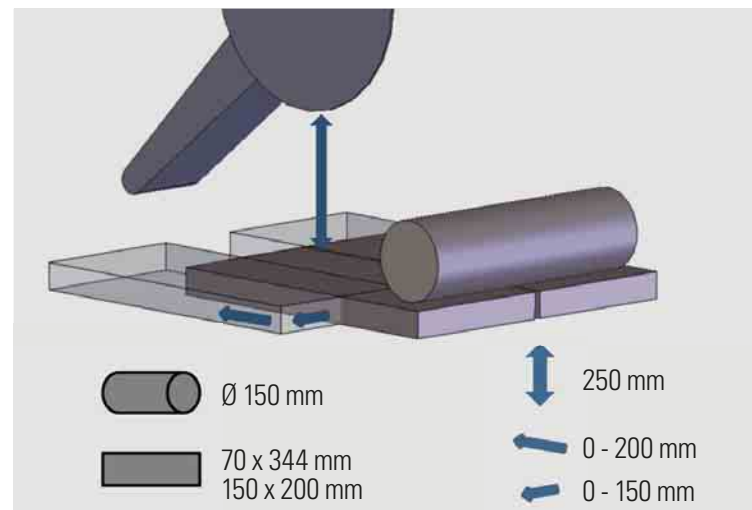
### 50901

Left screw clamping vice  
Height 45mm

### 50903

Right screw clamping vice  
Height 45mm

## Cutting envelope\*



\* This illustration of the cutting envelope of the EVO450 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



50903



## 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.



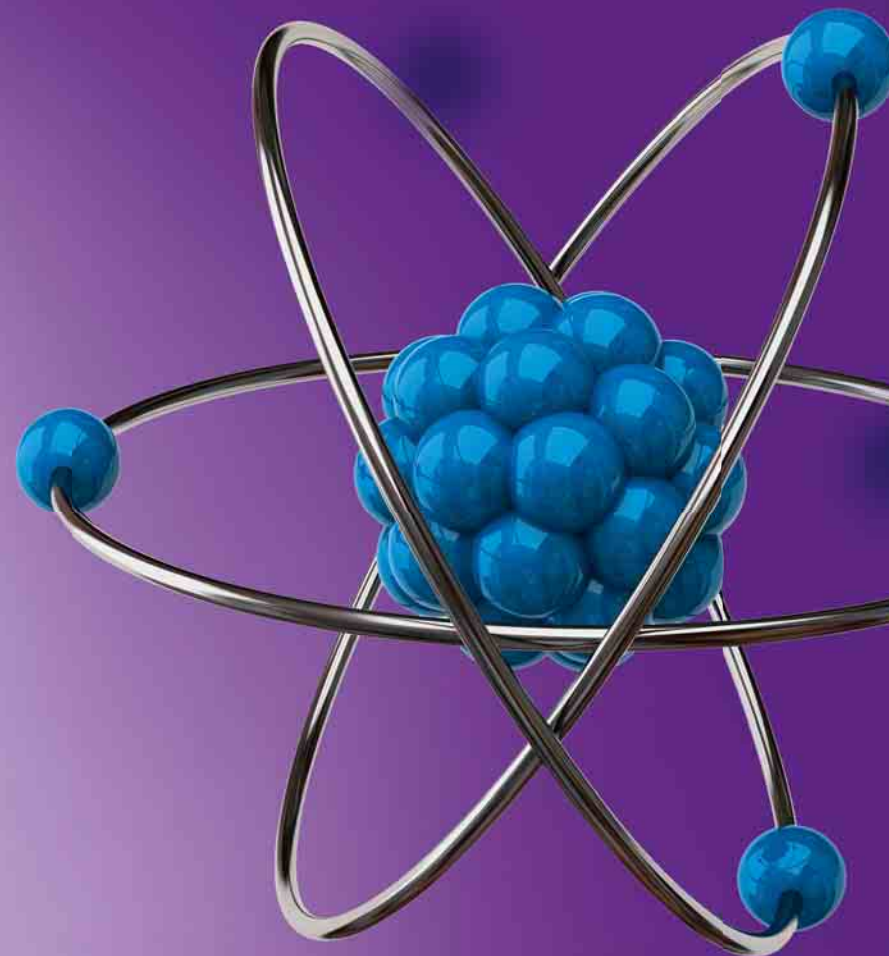
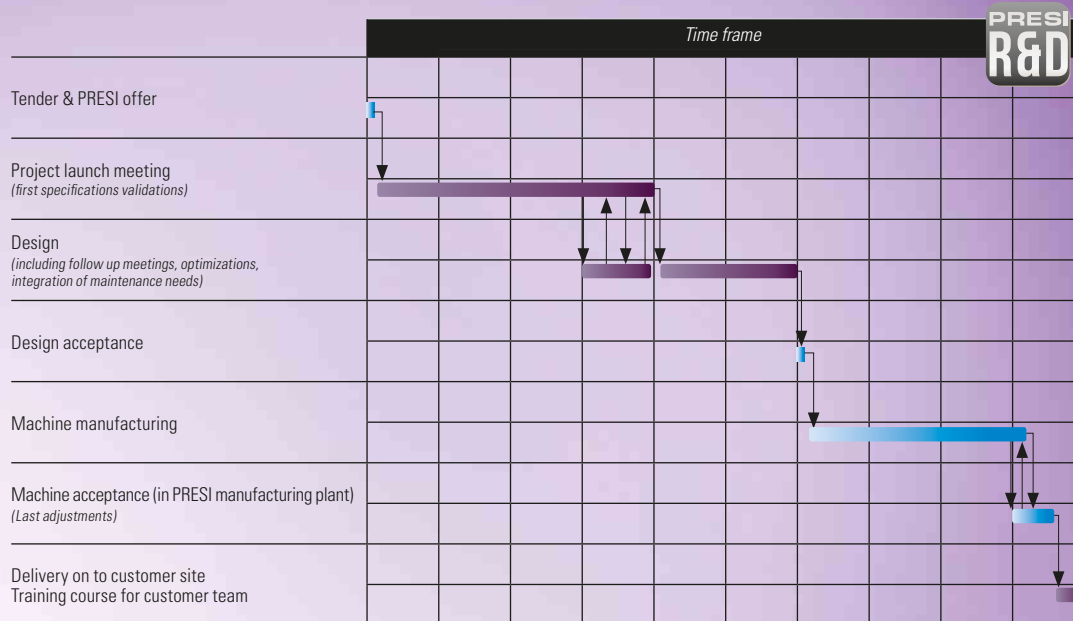
### **SPECIFIC PROJECT SPECIFIC MACHINE**

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



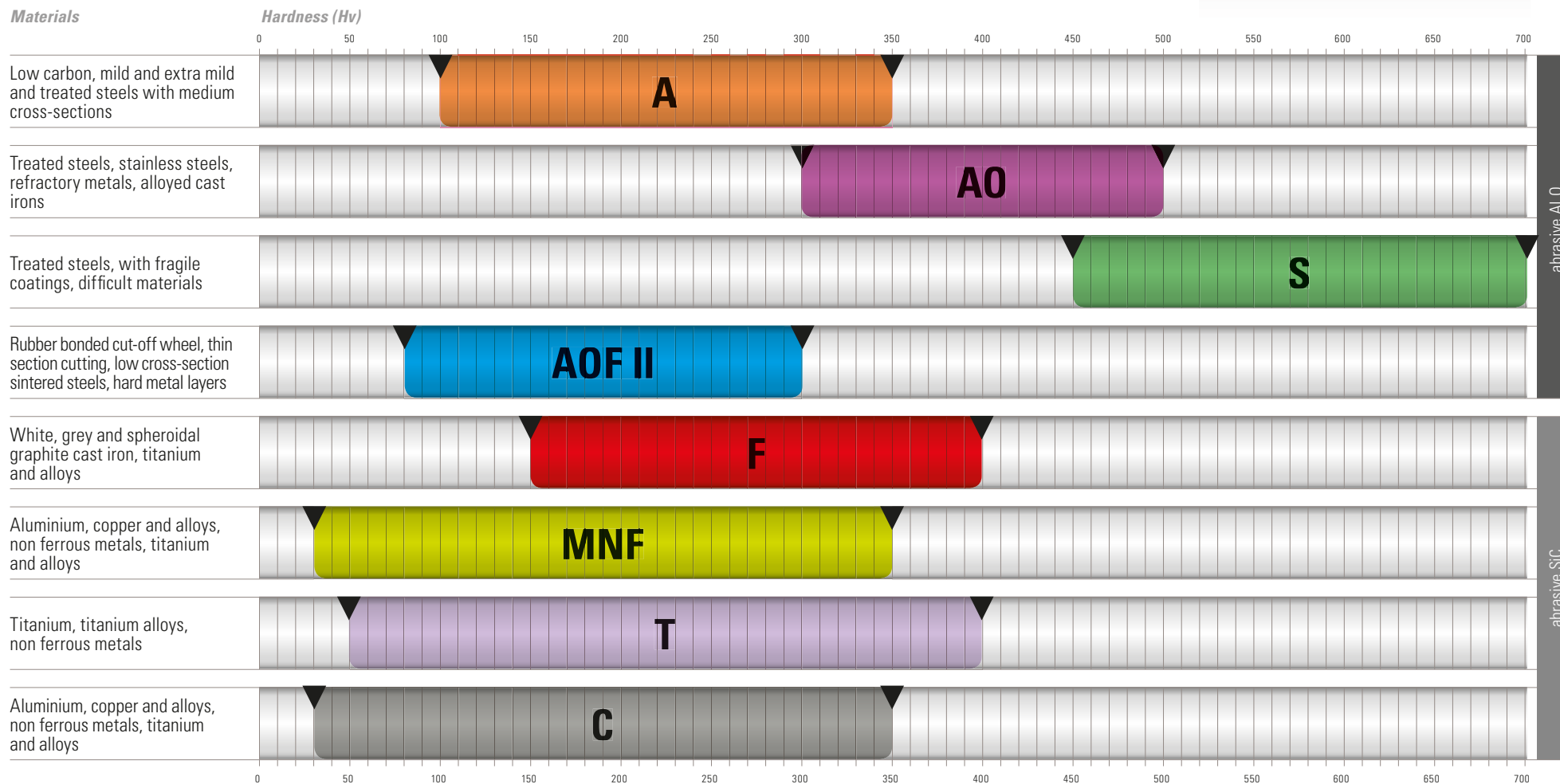
# CUTTING

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.

**PRESI  
GUIDE**





# CUTTING

## 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
AO	01046 Cut-off wheel type. AO	Ø 125 x 0.5 x 12.7mm
	01043 Cut-off wheel type. AO	Ø 150 x 0.5 x 12.7mm
	01002 Cut-off wheel type. AO	Ø 200 x 1.6 x 25.4mm
	01008 Cut-off wheel type. AO	Ø 230 x 1.6 x 22mm
	01014 Cut-off wheel type. AO	Ø 250 x 1.6 x 32mm
	01020 Cut-off wheel type. AO	Ø 300 x 2 x 32mm
	01030 Cut-off wheel type. AO	Ø 350 x 2.5 x 32mm
AOF II	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
	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
C	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
F	01041 Cut-off wheel type. C	Ø 100 x 0.3 x 12.7mm
	01018 Cut-off wheel type. F	Ø 250 x 1.6 x 32mm
MNF	01024 Cut-off wheel type. F	Ø 300 x 2 x 32mm
	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
S	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
	01060 Cut-off wheel type. S	Ø 180 x 0.5 x 25.4mm
	01016 Cut-off wheel type. S	Ø 250 x 1.6 x 32mm
T	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
	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

## Reduction rings

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

## Antirust

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

## Antiseptic liquid

Ref.	Designation
01093	500cc antibacteria bottle

## Cutting liquid

Ref.	Designation
02021	Cutting fluid 1 l bottle

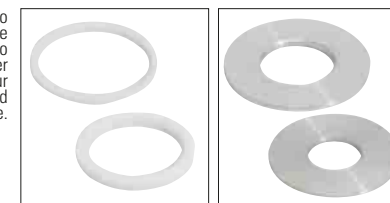
## Boron carbide cut-off wheels

Ref.	Designation	Ø
02059	Cut-off wheel type NB	Ø 75 x 0.5 x 12.7mm
02062	Cut-off wheel type NB	Ø 100 x 0.5 x 12.7mm
02050	Cut-off wheel type NB	Ø 125 x 0.5 x 12.7mm
02065	Cut-off wheel type NB	Ø 150 x 0.6 x 12.7mm
02056	Cut-off wheel type NB	Ø 175 x 0.7 x 12.7mm
02039	Cut-off wheel type NB	Ø 200 x 0.9 x 32mm
02043	Cut-off wheel type NB	Ø 250 x 1.2 x 32mm
02047	Cut-off wheel type NB	Ø 300 x 1.2 x 32mm

## Diamond cut-off wheels

Ref.	Designation	Ø
02030	Cut-off wheel LM	Ø 75 x 0.3 x 12.7mm
02031	Cut-off wheel LM	Ø 100 x 0.3 x 12.7mm
02034	Cut-off wheel LM	Ø 125 x 0.5 x 12.7mm
02036	Cut-off wheel LM	Ø 150 x 0.6 x 12.7mm
02055	Cut-off wheel LM	Ø 175 x 0.7 x 12.7mm
02038	Cut-off wheel LM	Ø 200 x 0.9 x 32mm
02042	Cut-off wheel LM	Ø 250 x 1.2 x 32mm
02046	Cut-off wheel LM	Ø 300 x 1.4 x 32mm
02057	Cut-off wheel LM+	Ø 75 x 0.3 x 12.7mm
02060	Cut-off wheel LM+	Ø 100 x 0.3 x 12.7mm
02063	Cut-off wheel LM+	Ø 125 x 0.5 x 12.7mm
02064	Cut-off wheel LM+	Ø 150 x 0.6 x 12.7mm
02066	Cut-off wheel LM+	Ø 175 x 0.7 x 12.7mm
02040	Cut-off wheel LM+	Ø 200 x 0.9 x 32mm
02044	Cut-off wheel LM+	Ø 250 x 1.2 x 32mm
02048	Cut-off wheel LM+	Ø 300 x 1.4 x 32mm
02058	Cut-off wheel LR	Ø 75 x 0.5 x 12.7mm
02033	Cut-off wheel LR	Ø 100 x 0.5 x 12.7mm
02035	Cut-off wheel LR	Ø 125 x 0.5 x 12.7mm
02037	Cut-off wheel LR	Ø 150 x 0.6 x 12.7mm
02067	Cut-off wheel LR	Ø 175 x 0.7 x 12.7mm
02041	Cut-off wheel LR	Ø 200 x 0.9 x 32mm
02045	Cut-off wheel LR	Ø 250 x 1.2 x 32mm
02049	Cut-off wheel LR	Ø 300 x 1.2 x 32mm
51164	Dressing stick for diamond wheel (13 x 13 x 150mm)	

Reduction rings are used to allow wheels with a large center hole to be adapted to machines that have smaller diameter arbors. The four most commonly requested size adaptations are available.



01091-01092

51324-51331



01025



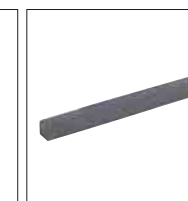
01026



01090



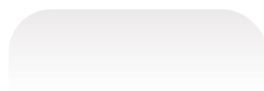
01093



51164



02021



## 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 PAGES 34-35



## MOUNTING PRESSES NUCLEAR PAGE 36



## PRESI GUIDE PAGE 37



## HOT MOUNTING



## CONSUMABLES PAGE 38



## COLD MOUNTING



## CONSUMABLES PAGES 40-41



## MOUNTING DEVICES PAGE 39



# MECAPRESS 3

## Ref. 53500

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



## 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

# ACCESSORIES **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**

### **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)



53505-53506-53507-53508-53509-53510



53416 -53420-53421-53422-53423-53424



53515



67750

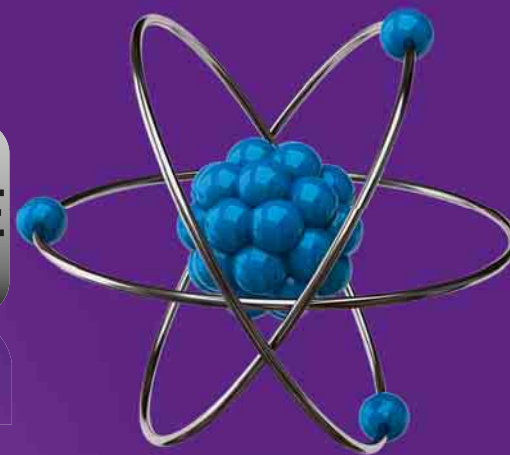




## HOT MOUNTING PRESSES **NUCLEAR** & HOSTILE ENVIRONMENTS

### **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.

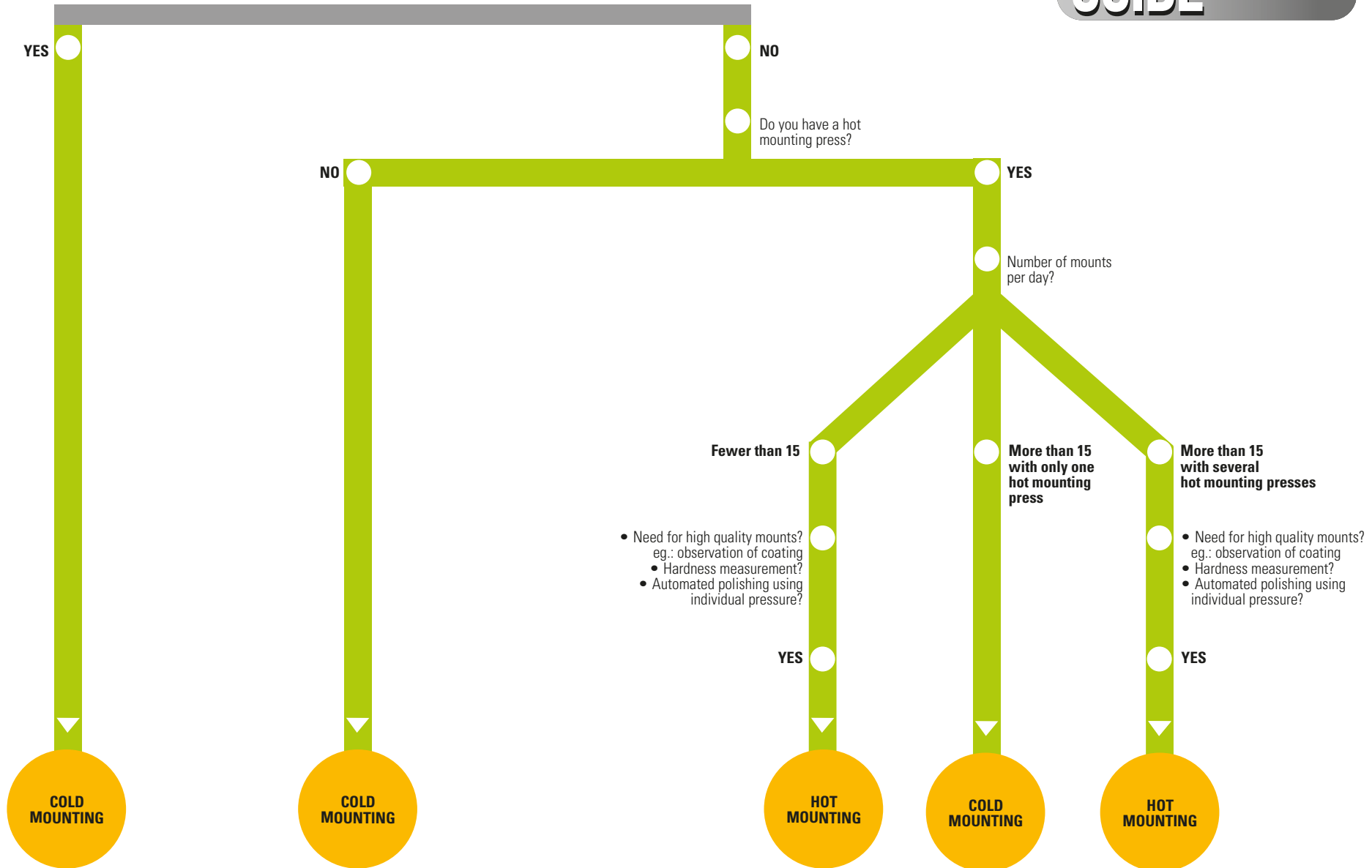
#### ● **Reliable solutions for hot cells and glove box use**

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.



- 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 with 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, carbon and fibre glass filler, conductive
03111	Pack 10 kg Black, with fibre glass filler
03012	Pack 2.5 kg Conductive Phenolic

## Allylic resin

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

## Mould removal aerosol

Ref.	Designation
03008	Mould release Silicone aerosol

# 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.

## 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 and for improved removal of trapped air bubbles in the resin mount. 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	Polymerisation temperature	Hardness	Impregnation ability	Conductivity	Colour	Proportion
Transparent resins	MA2+	Observation of edges, temperature sensitive materials, polymers, visual control of material removal	12 h	Very low	30° C	62 Shore D	-	-	10% catalyst
	IP	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	Very good	-	10% catalyst
	2S	General use for large quantity of mounts at one time	1 h 30	Medium	80° C	74 Shore D	-	-	5% catalyst
	KM-U under pressure	Control/ General use with fast polymerisation	15 min	Low	115° C	90 Shore D	-	-	2 volumes of powder for 1 volume of liquid

Opaque resins	KM-U	Control/ General use with fast polymerisation	15 min	Medium	115° C	90 Shore D	-	-	White	2 volumes of powder for 1 volume of liquid
	KM-V	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-EX	Hard materials, observation of sample edges, coatings and heat treated parts	15 min	Very low	115° C	96 Shore D	-	-	Blue	2 volumes of powder for 1 volume of liquid
	KM-EM	Casting replica's of sample surface	10 min	-	95° C	87 Shore D	-	-	Yellow	2 volumes of powder for 1 volume of liquid
	KM-CO	SEM control or electrolytic polishing	30 min	Medium	70° C	62 Shore D	-	Good	Black	8 volumes of powder for 5 volumes of liquid

## KM-U resins


Type: acrylic.  
Colour: transparent.

Shrinkage  Low  
Polymerisation at 20°C: 10 minutes.

Ref.	Designation
04141	Pack 1 kg powder
04142	Bottle 500 cc liquid
04143	Pack 10 kg powder
04144	Bottle 5 l liquid

## KM-EX resins


Type: acrylic.  
Colour: blue.

Shrinkage  Very low  
Polymerisation at 20°C: 8 minutes.

Ref.	Designation
04170	Pack 1 kg powder
04171	Bottle 500 cc liquid

## KM-V resins

Type: acrylic.  
Colour: blue.

Shrinkage  Very low  
Polymerisation at 20°C: 6 minutes.

Ref.	Designation
04032	Pack 1 kg powder
04033	Bottle 500 cc liquid
04034	Pack 10 kg powder
04035	Bottle 5 l liquid

## KM-EM resins

Type: acrylic.  
Colour: yellow.

Polymerisation at 20°C: 8 minutes.

Ref.	Designation
04151	Pack 1 kg powder
04152	Bottle 500 cc liquid

## KM-CO resins

Conductive phenolic resin for SEM applications, electrolytic polishing...

Shrinkage  Low  
Polymerisation: 30 minutes.

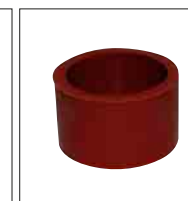
Ref.	Designation
04160	Pack of 1 kg resin + 1 l resin liquid



KM moulds



Teflon moulds




Rubber moulds



## IP resins


Type: epoxy.  
Colour: transparent.

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

Ref.	Designation
04200	Pack of 1kg resin + 100 cc catalyst
04201	Bottle of 100 cc catalyst

## MA2+ resins

Type: epoxy.  
Colour: transparent.

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

Ref.	Designation
04040	Pack of 1kg resin + 100cc catalyst
04009	100 cc catalyst

## 2S resins

Type: polyester.  
Colour: transparent.

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

Ref.	Designation
04010	Pack of 1 kg resin + 50 cc catalyst
04011	50 cc catalyst

## Dyes (liquid) for KM-U, MA2+ resins

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

## Dyes (Powder) for 2S, IP resins

Type: acrylic.  
Colour: blue.

Polymerisation at 20°C:  
6 minutes.

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



Polyethylene moulds



04024



04110

## KM mounting moulds Box of 30

Material: acrylic resin + aluminium base.  
Characteristics: detachable base. Non reusable. Dimensional control.

Ref.	Designation	Ø
04013	Acrylic, single use	Ø 25mm
04014	Acrylic, single use	Ø 30mm
04015	Acrylic, single use	Ø 40mm

## 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 22mm
04026	Rectangular 70 x 40 x 22mm
04027	Rectangular 100 x 50 x 22mm

## 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



04111



04112



04900

# EVERYTHING YOU NEED FOR YOUR **LAB**



## ● Classifying

Ref.	Designation
19005	Storage box (15 specimen)
19018	Engraver for specimen marking
19019	Pack of 3 pins in tungsten carbide for engraver Ref. 19020
19020	Diamond point for engraver Ref.19020
57155	Draining board for plates Ø 200 to 300mm
57157	Storage tower 9 platens Ø 200 to 300mm

## ● Replicating

Ref.	Designation
19035	Replica Kit
19036	Pack of 20 replica sheets
19040	Cartridge of 50ml RS7
19041	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 (100 g)

## ● Bonding

Ref.	Designation
19004	500 g 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	100 g Canada Balsam for mounting to glass slides

## Observing

Non destructive testing.

Ref.	Designation
55035	Precision rule 400mm
57236	Precision rule 300mm
07010	500ml dye penetrant 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)

## Weighing

Ref.	Designation
70051	Precision (Kern) weighing machine-from 0 to 400 g. Accuracy 0.1 g

## Accessories for optics (microscope)

Ref.	Designation
19021	100 glass slides 28 x 43 x 0.13mm
19030	100 glass slides 30 x 45 x 1.2mm
19072	Presi Mod-Plasticine to use with Press'l
71505	Press'l-Levelling press for microscopy

## Posters

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



57157



19005



19020



19060



71505



## 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.”

<b>LE CUBE</b> PAGE 46 		<b>MINITECH</b> 233-263-265 PAGES 48-49 	
<b>MINITECH</b> 333-363-365 PAGES 50-51 		<b>MECATECH</b> 234-264 PAGES 52-55 	
<b>MECATECH</b> 334 PAGES 56-59 	<b>DISTRITECH</b> PAGES 60-61 		<b>POLISEC</b> C25 PAGE 62 
	<b>ELECTER</b> <b>EVOLUTION</b> PAGE 63 		

<b>SPECIAL POLISHING MACHINE</b> <b>FOR NUCLEAR APPLICATIONS</b> PAGES 64-65 		
	<b>PRESI GUIDES</b> PAGES 66-67 PAGES 69-78-83 	
<b>CONSUMABLES</b> PAGES 70-87 		
		
		



# LE CUBE

## Ref. 66250

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



## 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 platten (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

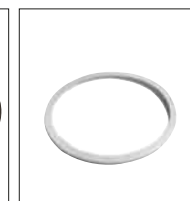
**67820** Almagtech platen Ø 250mm

**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: 29 kg  
Conformity: EC & UL

### Technical specifications

- 1 polishing station Ø 200 or Ø 250mm
- 1 touch screen
- 1 motor
- 1 multi jet water-spray system
- 1 removable bowl



## 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: 44 kg  
Conformity: EC & UL

### 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



## MINITECH 265

### Ref. 66303

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

### 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



## 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: 37 kg  
Conformity: EC & UL

### Technical specifications

- 1 polishing station Ø 250 or Ø 300mm
- 1 touch screen
- 1 motor
- 1 multi-jet water spray system
- 1 removable bowl



## 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: 54 kg  
Conformity: EC & UL

### Technical specifications

- Double polishing machine Ø 250 or Ø 300mm
- 1 touch screen
- 1 motor
- 2 multi-jet water spray systems
- 2 removable bowls



## MINITECH 365

### Ref. 66307

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

### 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



## ACCESSORIES 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



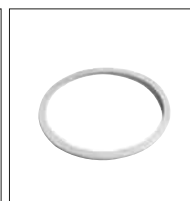
67821 - 67820



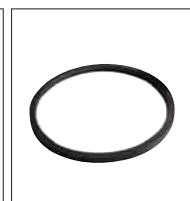
56062 - 57163



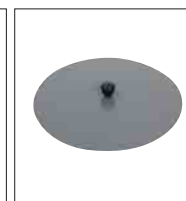
56063 - 56064



56055



56068 - 56069



66025

# MECATECH 234-264

Ø 200 to 250mm



## MECATECH 234

**Ref. 67100**  
 Width: 445mm  
 Depth: 664mm  
 Height: 640mm  
 Weight: 47 kg  
 Conformity: EC & UL



## 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 TC 10, 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: 64 kg  
 Conformity: EC & UL





# ACCESSORIES MECATECH 234-264

## Characteristics table

	MECATECH 234	MECATECH 264
Number of polishing platen	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)

**CHOOSE  
YOUR  
POLISHING HEAD**

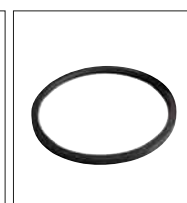
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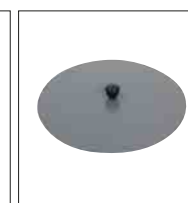
67822 - 67820



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.**

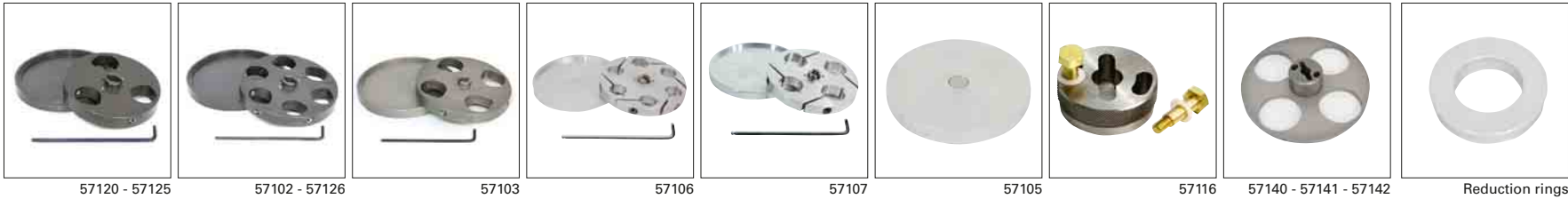
All polishing heads have powerful motor gearing with frequency inverter, proportional electronic valve and 50mm vertical travel improving ergonomics, automatic locking when the cycle starts, and lubricant tank with micro-peristaltic pump for a precise dosage.

## 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		✓		✓





# MECATECH 334

## Ø 250 to 300mm

Ref. 67805

Width: 520mm

Depth: 750mm

Height: 640mm

Weight: 75 kg

Conformity: EC & UL



### 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 TC 15, TI 15 and TCI 15 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



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)

**CHOOSE  
YOUR  
POLISHING HEAD**

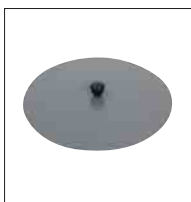
Next Page



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.  
Adapt a colour for your Minitech.



**THE ULTIMATE POLISHING CUSTOMISATION**

# 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.

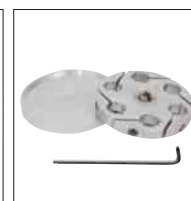
All polishing heads have powerful motor gearing with frequency inverter, proportional electronic valve and 50mm vertical travel improving ergonomics, automatic locking when the cycle starts, and lubricant tank with micro-peristaltic pump for a precise dosage.

## Characteristics table

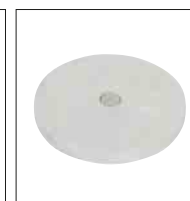
	TI15	TC15	TCI15	TCIMAX
Individual pressure	✓		✓	✓
Central pressure		✓	✓	✓
Mounted samples	✓	✓	✓	✓
Non mounted samples		✓	✓	✓
Rectangular samples	✓	✓	✓	✓
Rotation speed	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM
Direction of the rotation	Clockwise and counter-clockwise	Clockwise and counter-clockwise	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



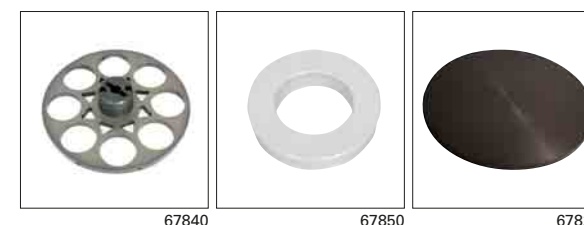
57116



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

67821



# 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

**NEW!**

**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.



### NEWS!

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

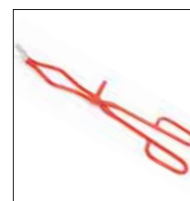
Cable for clamp and bowl

#### 59114

2 l glass beaker

#### 59115

Set of 5 covers



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 29000 rpm.
- Reducer 1/4 increasing the power by 4.
- Tool holder with 90° bevel gear.
- Voltage: 220 Volts.
- Built in accordance with EC standards.



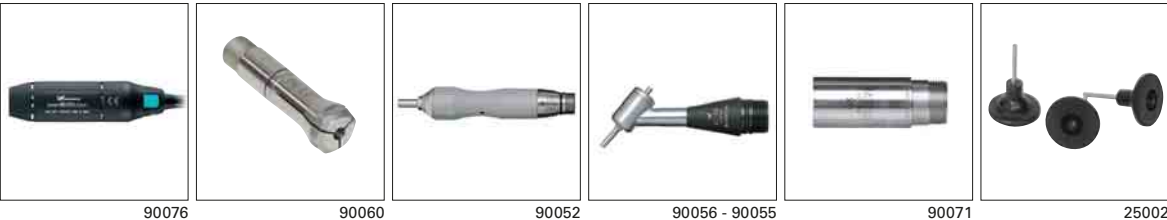
## Use

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



# 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.



## 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		



## 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.

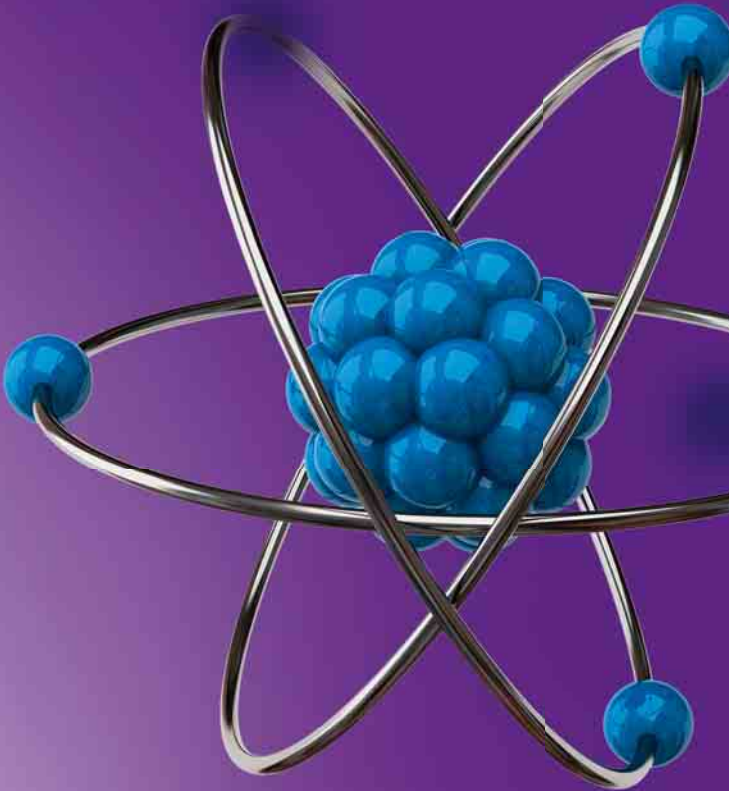
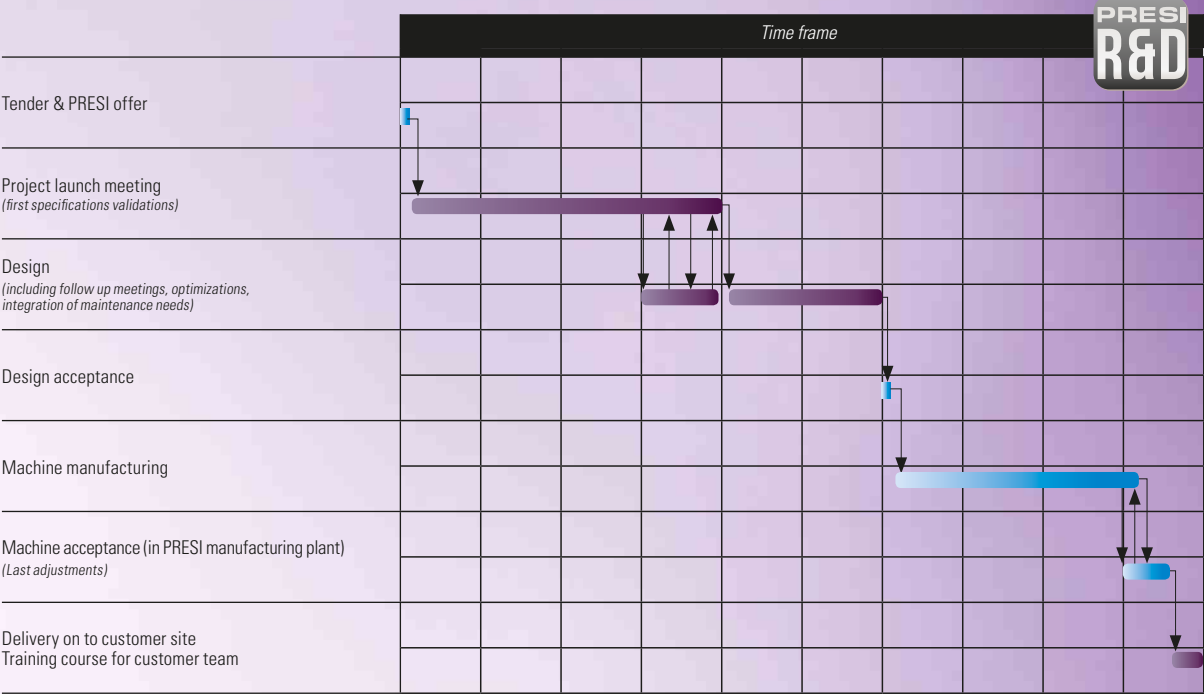
### SPECIFIC PROJECT SPECIFIC MACHINE

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



# PROJECT MANAGEMENT

Seven phases in PRESI R&D project management.



POLIEREN

POLISHING

POLISSAGE

MACHINES



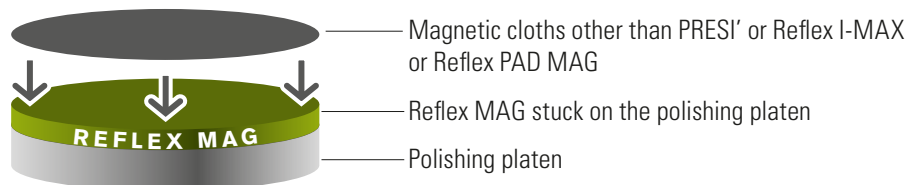


# ADAPTATION DEVICES

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

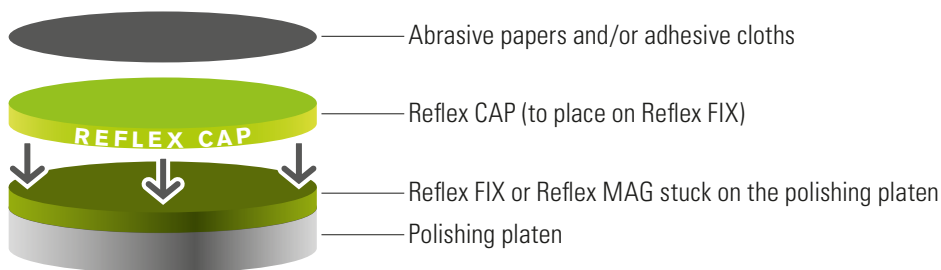
## Reflex MAG

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



## Reflex CAP

Ref.	Designation	Ø
<b>Box of 5</b>		
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.



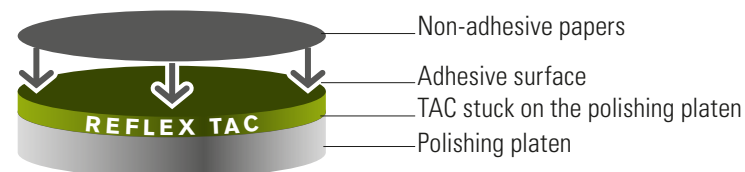
Lay your polishing cloth PAD MAG on Reflex FIX and put it on the platen, it is fixed!



To remove the paper: lift it and then just take it off.

## Reflex TAC

Ref.	Designation	Ø
<b>Box of 5</b>		
13801	TAC adhesive double face	200mm
13802	TAC adhesive double face	250mm
13803	TAC adhesive double face	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

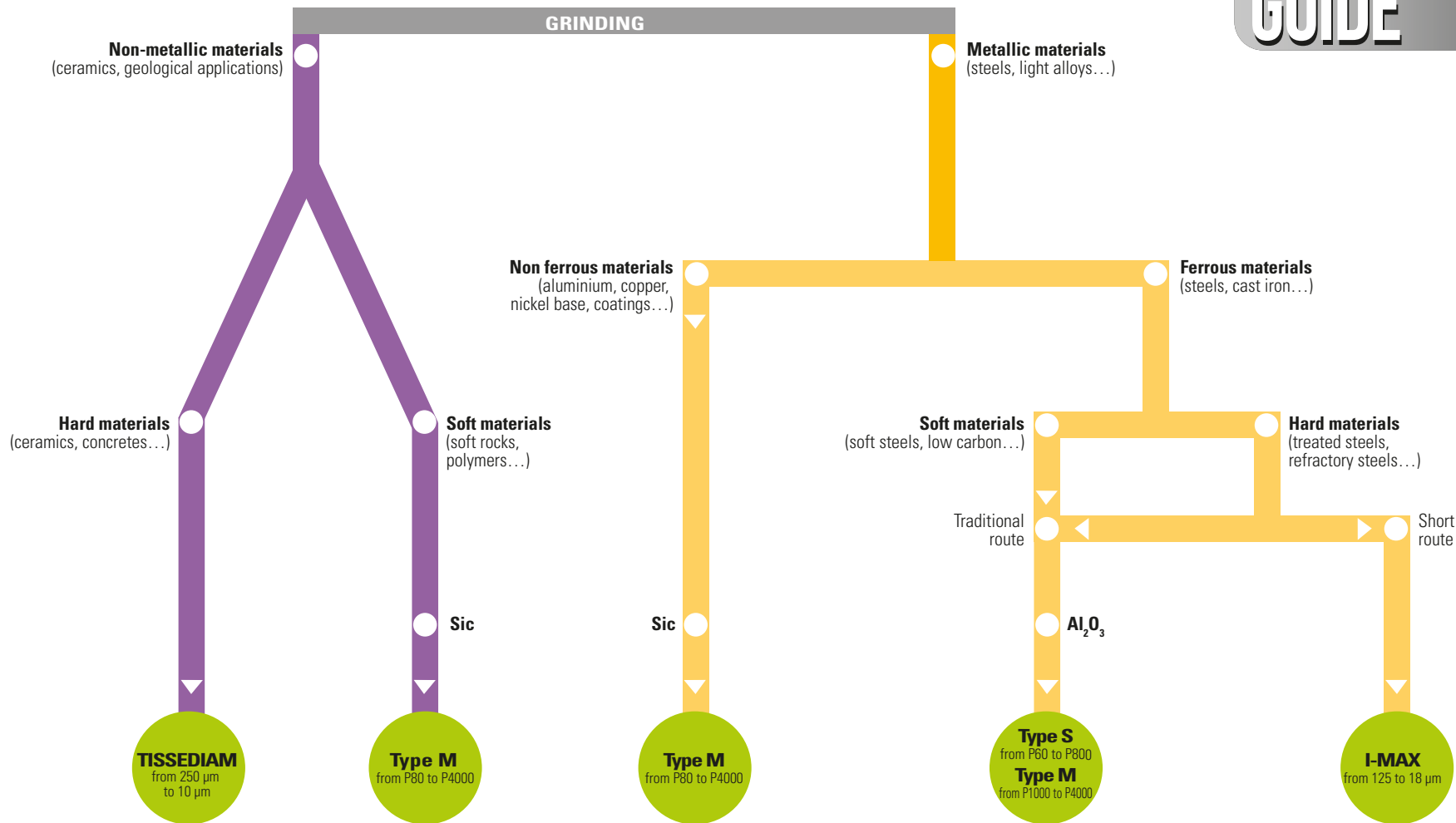
SiC abrasive.

**Type S**  
from P80  
to P800

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

**I-MAX**  
from 125  
to 18 µm

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



Standards and equivalents												
FEPA P	P100	P120	P180	P240	P320	P400	P600	P800	P1000	P1200	P2400	P4000
US	100	120	180	240	-	320	-	400	600	-	800	1200
µ average	150	120	76	60	46	35	26	22	18	15	10	5
I-Max	125		75		54			18				

Remind-Type M: Abrasive SIC - Type S: Abrasive Al<sub>2</sub>O<sub>3</sub> except P1000, P1200, P2400 and P4000.



POLIEREN

POLISHING

POLISSAGE

CONSUMABLES

# GRINDING

## I-Max

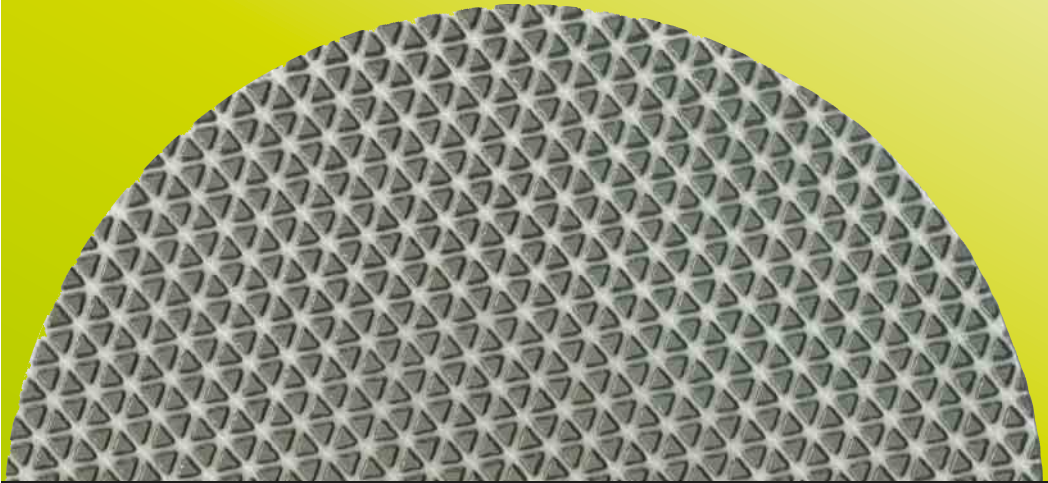
Resin bond diamond discs designed for hard materials adapted for fewer steps.

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



# FOCUS ON... I-MAX

- EXCEPTIONAL REMOVAL RATE OF MATERIAL
- PERFECT POLISHING HOMOGENEITY
- INCOMPARABLE FLATNESS



DIAMOND DISCS OPTIMISING THE PROCESSES



## Tissediam

Resin bond diamond discs designed for hard materials, adapted for fewer steps.

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

\*R = resin bond

## 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

## Special abrasive papers-Zirconium oxide

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

Ref.	Designation	Ø	Grit
<b>Box of 25</b>			
14221	Self Adhesive	200mm	P 80
14222	Self Adhesive	200mm	P 120
14223	Self Adhesive	200mm	P 180
14260	Self Adhesive	250mm	P 80
14261	Self Adhesive	250mm	P 120
14262	Self Adhesive	250mm	P 180
14310	Self Adhesive	300mm	P 80
14311	Self Adhesive	300mm	P 120
14312	Self Adhesive	300mm	P 180

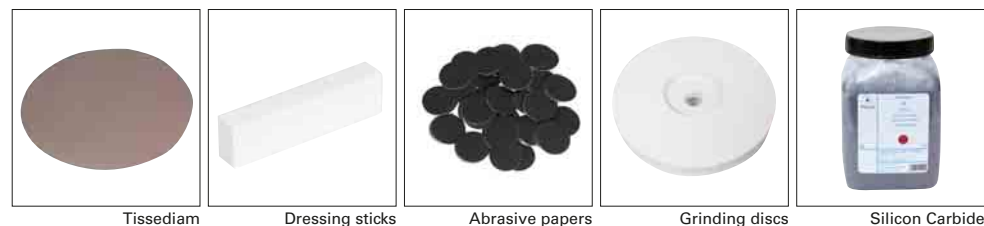
## Grinding discs for grinding machine

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

## Silicon Carbide powder

Abrasive for lapping.

Ref.	Designation	Grit
<b>1 kg per box</b>		
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



Tissediam

Dressing sticks

Abrasive papers

Grinding discs

Silicon Carbide

# GRINDING



## Micro abrasive-Aluminium oxide

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

Ref.	Designation	Ø	Grit
<b>Box of 25</b>			
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

## Micro abrasive-diamond lapping films

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

Ref.	Designation	Ø	Grit
<b>1 diamond disc</b>			
14500	Self Adhesive	200mm	0.1 µ
14501	Self Adhesive	200mm	0.5 µ
14502	Self Adhesive	200mm	1 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

## Boron carbide powder

Abrasive for lapping.

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

## Aluminium oxide powder

Abrasive for lapping.

Ref.	Designation	Grit
<b>1 kg per box</b>		
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

## 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

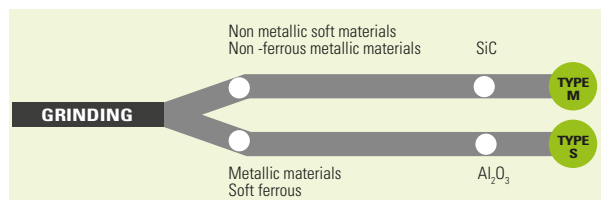


Aluminium oxide



Lubricant lapping

# ABRASIVE PAPERS



## ● Abrasive papers Ø 200 mm non-adhesive

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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
<b>Box of 25</b>		
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
<b>Box of 25</b>		
13207	M Type	P 1000
13208	M Type	P 1200
13222	M Type	P 2400
13223	M Type	P 4000

## ● Abrasive papers Ø 200 mm adhesive

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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
<b>Box of 25</b>		
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
<b>Box of 25</b>		
14207	M Type	P 1000
14208	M Type	P 1200
14244	M Type	P 2400
14245	M Type	P 4000

## ● Abrasive papers Ø 200 mm Reflex NAC



Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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



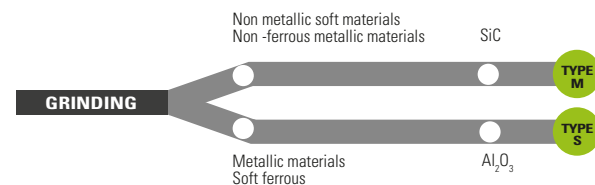
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# ABRASIVE PAPERS



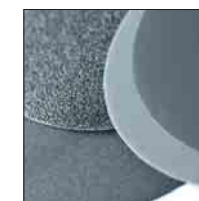
## ● Abrasive papers Ø 230 mm non-adhesive

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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
<b>Box of 25</b>		
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
<b>Box of 25</b>		
13237	M Type	P 1000
13238	M Type	P 1200
13240	M Type	P 2400
13241	M Type	P 4000

## ● Abrasive papers Ø 230 mm Reflex NAC



Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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 SType

● Abrasive papers Ø 250 mm  
non-adhesive

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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
<b>Box of 25</b>		
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
<b>Box of 25</b>		
13257	M Type	P 1000
13258	M Type	P 1200
13295	M Type	P 2400
13296	M Type	P 4000

● Abrasive papers Ø 250 mm  
adhesive

Ref.	Designation	Grit
<b>Box of 100</b>		
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
14124	S Type	P 400
14125	S Type	P 600
14126	S Type	P 800
14128	S Type	P 320
<b>Box of 100</b>		
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
<b>Box of 25</b>		
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
<b>Box of 25</b>		
14257	M Type	P 1000
14258	M Type	P 1200
14265	M Type	P 2400
14266	M Type	P 4000

● Abrasive papers Ø 250 mm  
Reflex NAC

**Reflex**  
CONCEPT

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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

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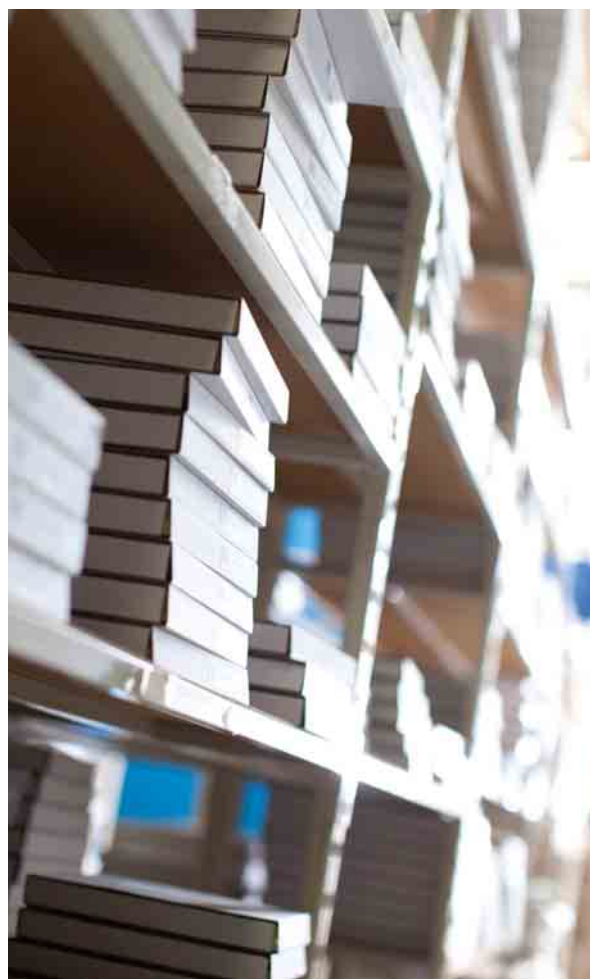
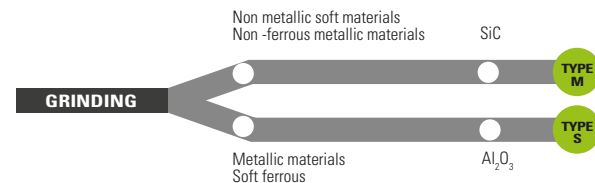
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CONSUMABLES

# ABRASIVE PAPERS



## Abrasive papers Ø 300 mm non-adhesive

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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
<b>Box of 25</b>		
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
<b>Box of 25</b>		
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 300 mm adhesive

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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
<b>Box of 25</b>		
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
<b>Box of 25</b>		
14307	M Type	P 1000
14308	M Type	P 1200
14315	M Type	P 2400
14316	M Type	P 4000

● Abrasive papers Ø 300 mm  
Reflex NAC

**Reflex**  
CONCEPT

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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 305 mm  
non-adhesive

Ref.	Designation	Grit
<b>Box of 100</b>		
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
<b>Box of 100</b>		
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 400 mm  
adhesive

Réf.	Designation	Grit
<b>Box of 25</b>		
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
<b>Box of 25</b>		
14407	M Type	P 1000
14408	M Type	P 1200
14411	M Type	P 2400
14412	M Type	P 4000

● Abrasive papers Ø 32 mm  
adhesive

Ref.	Designation	Grit
<b>Bag of 100</b>		
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
<b>Bag of 100</b>		
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 discs



Abrasive papers

# CLOTHS

Polishing cloths influence the properties of the cutting of abrasives (diamond, alumina, silica...) with which they are used. Thanks to abrasives such as diamond, alumina, mecano-chemical SPM solution a full range of adhesive and REFLEX PAD-MAG cloths allows PRESI to solve all the metallographic or geological polishing problems... 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







## FINE GRINDING

Reflex  
CONCEPT

NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	METALLIC BACK-SIDE VERSION PAD MAG
<b>TMP</b>		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
<b>TOP</b>		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
<b>RAM II</b>		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

Reflex  
CONCEPT

NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	METALLIC BACK-SIDE VERSION PAD MAG
<b>RAM</b>		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
<b>STA</b>		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
<b>ADR II</b>		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
<b>NWF +</b>		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 $\mu$ 0.03 $\mu$ (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 $\mu$	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 $\mu$	16230 Ø 200mm 16280 Ø 250mm 16330 Ø 300mm	On request
HS V		Very short rayon flock fixed to semi-rigid plastic.	Polishing and finishing of all materials.	Diamond products (or alumina in some cases)	3 $\mu$	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 $\mu$	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 $\mu$ 2.5 $\mu$ (Cerium) 0.3 $\mu$ (Alumina)	16215 Ø 200mm 16265 Ø 250mm 16309 Ø 300mm	24168 Ø 200mm 24198 Ø 250mm 24213 Ø 300mm

## SUPER-FINITION CLOTHS



NAME	TYPE	COMPOSITION	MAIN APPLICATIONS	RECOMMENDED PRODUCTS	ASSOCIATED SUSPENSIONS	ADHESIVE	METALLIC BACK-SIDE VERSION PAD MAG
DBM		Billiard cloth 100% wool.	Polishing and super-finishing for soft material (tin, lead).	Alumina Cerium oxide	6 to 0.3 $\mu$	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 $\mu$ (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 $\mu$ (Alumina) 2.5 $\mu$ (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 $\mu$	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

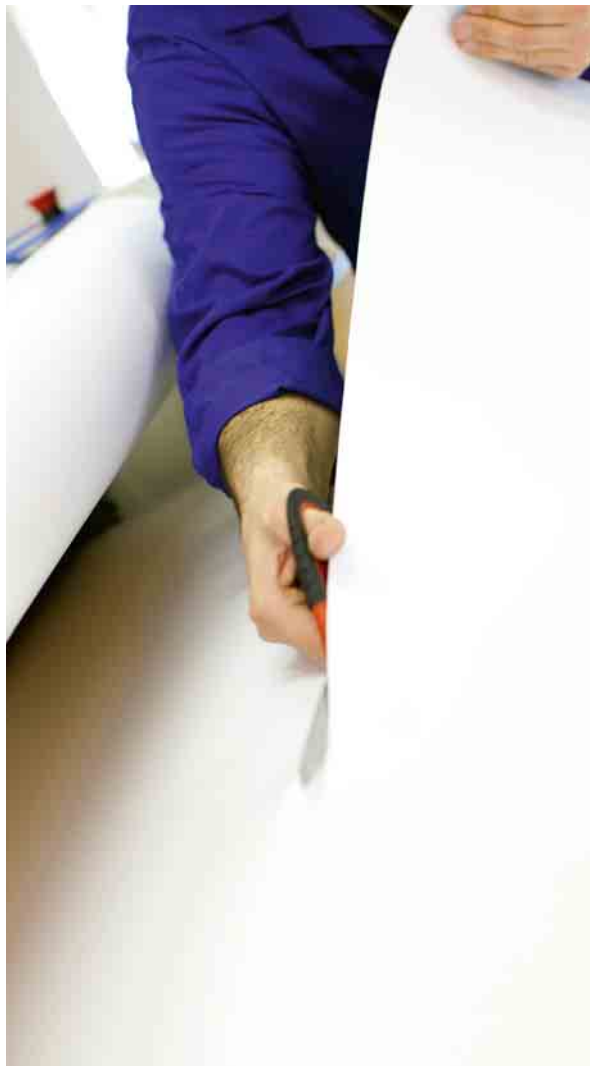
They are classified according to their type, length, density and grade of flock, as well as flock support and bonding. Only flocked cloths provide a super-polished finish. They must be used for the shortest possible time in order to avoid pull-out of inclusions.

### 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.



# CLOTHS



## Polishing cloths Ø 200mm adhesive

Ref.	Designation
<b>Box of 5</b>	
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
<b>Box of 5</b>	
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 250mm adhesive

Ref.	Designation
<b>Box of 5</b>	
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
<b>Box of 5</b>	
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
<b>Box of 5</b>	
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
<b>Box of 5</b>	
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 400mm  
adhesive

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

Polishing cloths Ø 32mm












Ref.	Designation
<b>Bags of 25</b>	
16004	Self Adhesive Disc HS-B
16001	Self Adhesive Disc HS-V
16002	Self Adhesive Disc RAM



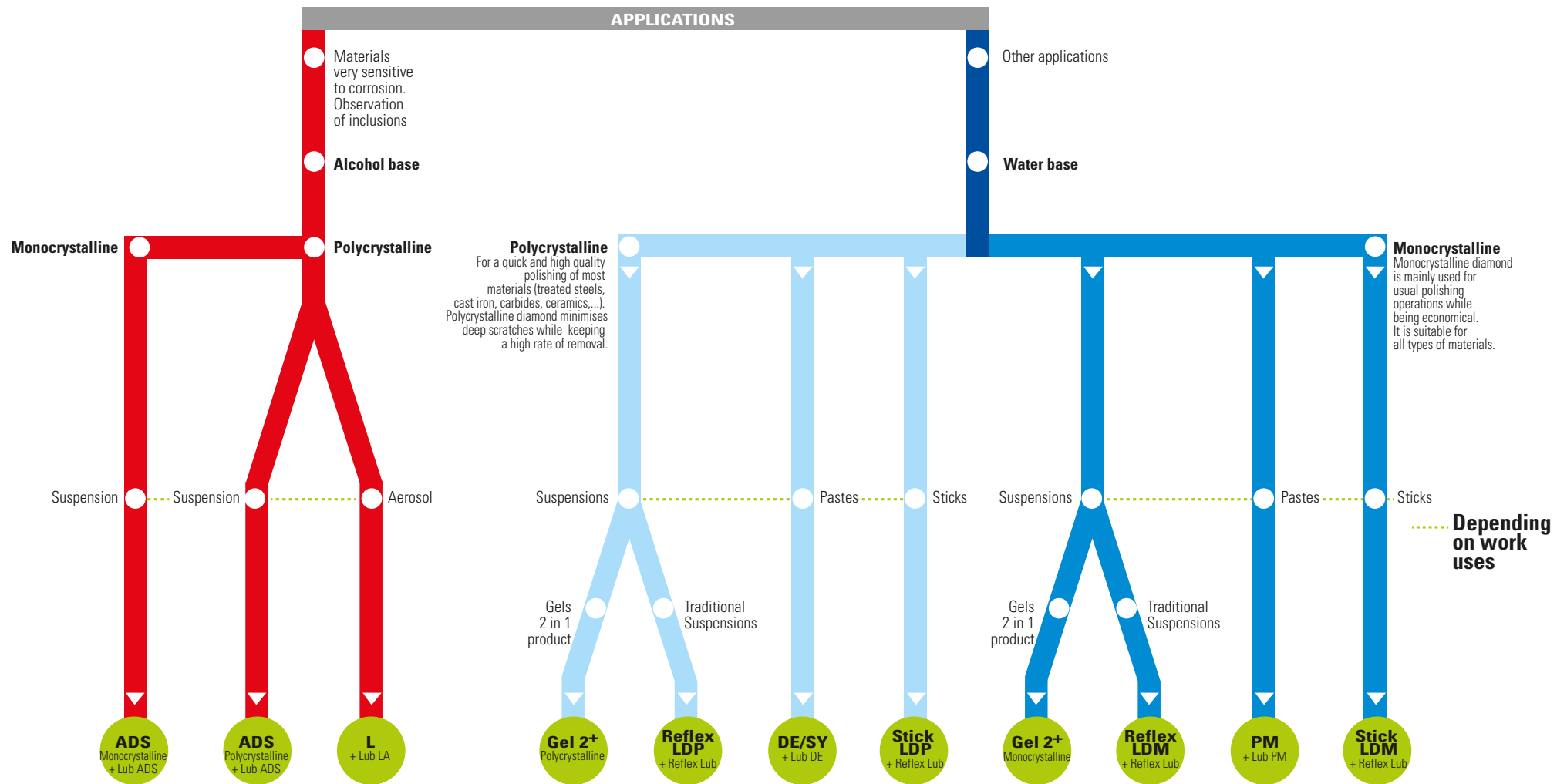


# DIAMOND POLISHING



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 LA
Water base			
Diamond Gel		Coloured water base diamond gel, monocrystalline. For the polishing of soft materials. Ready for use, no need to add lubricant.	
		Alcohol 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



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# DIAMOND POLISHING



## ● Diamond suspensions Reflex LDM

Water based coloured diamond suspensions, monocrystalline, high concentration. For the polishing of soft materials. To be used with lubricant Reflex Lub.

**Reflex**  
CONCEPT

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 hard materials. To be used with lubricant Reflex Lub.

**Reflex**  
CONCEPT

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	For 500cc lub
10015	For 250cc lub

### ● Gel<sup>2+</sup> monocrystalline

Coloured water base diamond gel, monocrystalline.  
For the polishing of soft 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

### ● Gel<sup>2+</sup> polycrystalline

Water base diamond Gel, polycrystalline.  
For the polishing of hard 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!**

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!**

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 hard 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 soft 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 hard 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
<b>Box of 1 kg</b>	
11001	Gamma 0.04 $\mu$
11002	Alpha 0.3 $\mu$
11003	Alpha 1 $\mu$

## ● PRESI alumina suspensions

**PRESI N° 1-Grit:** 0.04  $\mu$ .

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

**PRESI N° 2-Grit:** 0.3  $\mu$ .

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

**PRESI N° 3-Grit:** 0.8  $\mu$ .

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

**PRESI N° 4-Grit:** 1  $\mu$ .

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

Ref.	Designation	Grit
<b>Bottle of 1 l</b>		
11004	N° 1 (48 h)	0.04 $\mu$
11005	N° 2 (24 h)	0.3 $\mu$
11006	N° 3 (12 h)	0.8 $\mu$
11007	N° 4 (6 h)	1 $\mu$

## ● Dujardin alumina suspensions

**DUJARDIN N° 1-Grit:** 0-1  $\mu$ . Blue.

Use: suitable for polishing of steel and hard steels.

**DUJARDIN N° 2-Grit:** 0-0.7  $\mu$ . 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  $\mu$ . Pink.

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

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

Ref.	Designation	Grit
<b>Bottle of 1 l</b>		
11012	N° 3	(0-0.3 $\mu$ )
11011	N° 2	(0-0.7 $\mu$ )
11010	N° 1	(0-1 $\mu$ )

## ● Cerium oxide

Suitable for the polishing of optics and ceramics.

Ref.	Designation	Grit
36207	1 kg Pack	2.5 $\mu$

## ● SPM

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 $\mu$
12007	10 l Drum	0.03 $\mu$
24280*	1 l trigger Spray bottle (Reflex)	0.03 $\mu$

\* Comes in a spray bottle.



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

## MICROSCOPY

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## MICROSCOPES



## STEREOMICROSCOPES



## HARDNESS

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## HARDNESS TESTERS



## ACCESSORIES





# MICROSCOPY

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

## ● The microscopes



## THE COMPLETE STUDY OF YOUR NEEDS

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## ● 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.

## Our automated solutions



## The hardness testers



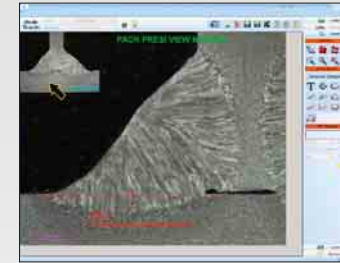
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# PRESI VIEW

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.



Presi view measure Ref. 71101



Presi view hardness Ref. 71118

## Measurements Module

- 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

## Hardness Module

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

## Equipment

- Colour digital camera USB2
- Image acquisition and measurement software
- USB cable
- Protection Key



## PRESI ALL AROUND THE WORLD

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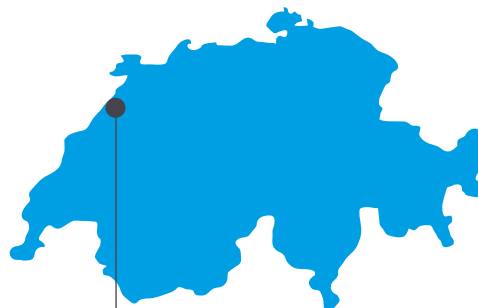


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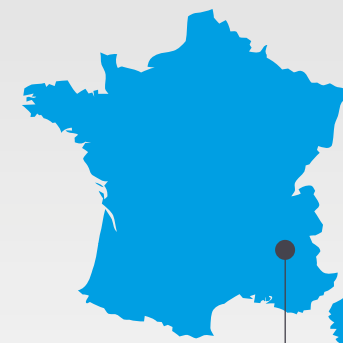


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