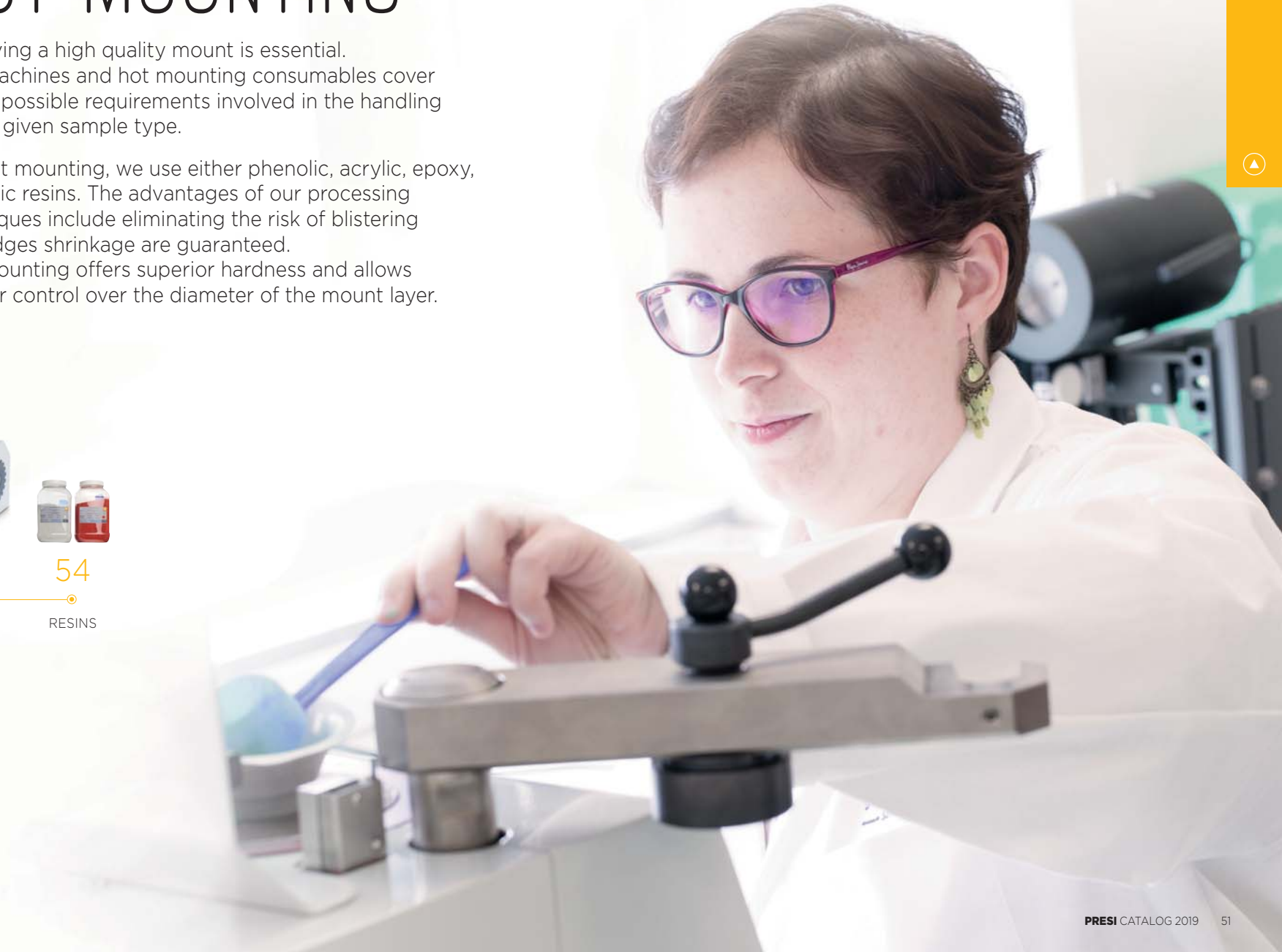


HOT MOUNTING

Achieving a high quality mount is essential. Our machines and hot mounting consumables cover all the possible requirements involved in the handling of any given sample type.

For hot mounting, we use either phenolic, acrylic, epoxy, or allylic resins. The advantages of our processing techniques include eliminating the risk of blistering and edges shrinkage are guaranteed. Hot mounting offers superior hardness and allows greater control over the diameter of the mount layer.

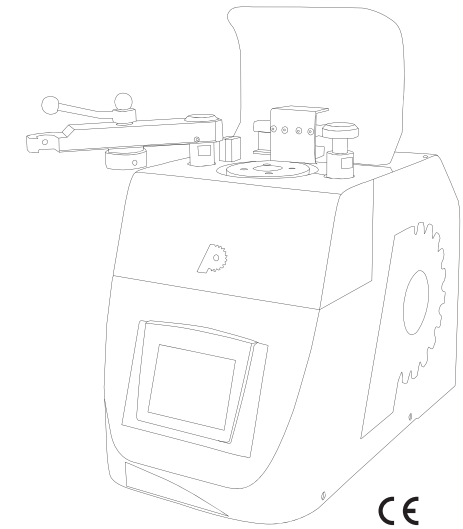
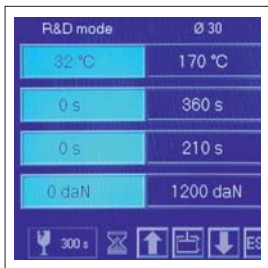


MECAPRESS 3

THE HOT MOUNTING PRESS

Ref. 53500

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



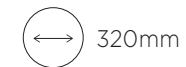
CE



530mm



560mm



320mm



65kg



CHARACTERISTICS

Automatic cycle	✓
Fast cycle	✓
Temperature adjustable	From 100 to 200°C, by step of 1°C
Heating time adjustable	From 0 to 1800 seconds, by step of 1 second
Cooling time adjustable	From 0 to 1800 seconds, by step of 1 second
Cooling mode adjustable	✓
Pressure adjustable	From 300 to 1.800 daN, by step of 1 daN (for a 6 bars compressed air network)
Fragile sample function	✓ only with acrylic resin
Mould diameter	25.4/30/31.7/38.1/40/50mm
Intermediate ram (to allow two molds be made at the same time)	✓
Easy interchangeable moulds	✓
Possibility to stop the piston at the required position	✓
Fast arm lock	✓
Secure mould closing	✓
Sensor for detecting if mould is closed	✓
Mounting parameters adjustable	✓
Mounting parameters readable on tactile screen	✓
Memorised mounting processes	More than 100 processes
Cooling by pulse	✓
Connectors to plug and control tank and re-circulating pump	✓
Easy cleaning	✓
Easy use and maintenance	✓
Power	> 2 KW
Electrical input	230 V/50-60 Hz/8 A
Air pressure (input)	6-10 bars
Air connector diameter (input and output)	Ø 10mm
Water connector diameter (input and output)	Ø 12mm
Anti chalk system (ref. 53520)	✓

ACCESSORIES

MOULD SETS FOR MECAPRESS 3



**Mould set
Ø 25.4mm**
Ref. 53505

**Mould set
Ø 30mm**
Ref. 53506

**Mould set
Ø 31.7mm**
Ref. 50907

**Mould set
Ø 38.1mm**
Ref. 53508

**Mould set
Ø 40mm**
Ref. 53509

**Mould set
Ø 50mm**
Ref. 53510

INTERMEDIATE RAMS

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



**Intermediate rams
Ø 25.4mm**
Ref. 53416

**Intermediate rams
Ø 30mm**
Ref. 53420

**Intermediate rams
Ø 31.7mm**
Ref. 53421

**Intermediate rams
Ø 38.1mm**
Ref. 53422

**Intermediate rams
Ø 40mm**
Ref. 53423

**Intermediate rams
Ø 50mm**
Ref. 53424

OTHER ACCESSORIES



55 l recirculating tank and pump system

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

A gesture for the environment!
 • No more problem of limestone
 • Water saving
 Ref. 53515



Low noise air compressor (for labs with no compressed air supply)
 Ref. 67750



Refill cartridge for anti chalk system Mecapress 3
 Ref. 53521

See MECAPRESS 3 video link



RESINS

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

TYPE OF RESINS	USE	SHRINKAGE	HARDNESS	CONDUCTIVITY	COLOUR
EPOXY	Hard materials, edge observation, surface deposits, coatings	Very low	96 Shore D	-	Black
PHENOLIC	Standard mounting media for soft to medium hard materials	Low	90 Shore D	-	White, green, red, black
CONDUCTIVE PHENOLIC (with carbon)	SEM applications or electrolytic polishing	Low	90 Shore D	Good	Black
GLASS FIBER PHENOLIC	Standard mounting media for soft to medium hard materials	Low	95 Shore D	-	Black
GLASS FIBER ALLYLIC	Observation of sample edges	Very low	93 Shore D	-	Blue
ACRYLIC	When a transparent mount is required	Low	88 Shore D	-	Transparent
ACRYLIC COPPER POWDER	For electro-polishing or electrolytic etching	Low	90 Shore D	Good	Copper

EPOXY RESIN

REF.	DESIGNATION	
03009	Pack 2.5kg Black Epoxy	
03109	Pack 10kg Black Epoxy	
03156	25kg Black Epoxy	

MOUNT RELEASE AGENT

Just spray into the mould of the mounting machine!

REF.	DESIGNATION	
03008	Mount release agent Silicone aerosol 500ml	
03208	Silfree-Jet* mould removal aerosol	

* Non-disruptive mold release spray.

PHENOLIC RESIN

REF.	DESIGNATION	
03001	Pack 2.5kg Black Phenolic	
03101	Pack 10kg Black Phenolic	
03150	20kg Black Phenolic	
03002	Pack 2.5kg Green Phenolic	
03102	Pack 10kg Green Phenolic	
03151	20kg Green Phenolic	
03003	Pack 2.5kg Red Phenolic	
03103	Pack 10kg Red Phenolic	
03152	20kg Red Phenolic	
03011	Pack 2.5kg White Phenolic	
03105	Pack 10kg White Phenolic	
03010	Pack 2.5kg Black fiber glass	
03111	Pack 10kg Black, with fiber glass filler	
03012	Pack 2.5kg Conductive Phenolic (black carbon)	

ALLYLIC RESIN

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

ACRYLIC RESIN

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

