

Hot mounting

Hot embedding resins are extremely hard, acid-resistant and low-shrinkage. They reduce sweating and guarantee clean edges when polishing. Hot embedding resins are available in powder form and are divided into two categories :

- thermoresistant (phenolic or allylic)
- thermoplastic (acrylic or epoxy)

Colour and content	Use
Phenolic	
Black, green, red, brown, white	Standard examination of all materials
Black, glass fibre	
Black, with carbon filler	Conductive for SEM and others applications
Allylic	
Blue, glass fibre	Examination of edges (coating, deposits, thermal treatment)
Allylic	
Copper	Examination of polished or electrolytically etched materials
Transparent	Standard examination of all materials
Epoxy	
Black	Examination of edges

Cold mounting

Our KM products are acrylic cold embedding resins. Each easy-to-use kit has 2 constituents : powder and liquid. KM resins polymerise at around 75°C, a temperature that does not alter most specimens. MA2, SS and IP resins comprise 2 liquid constituents: the resin itself and its hardener. These resins are totally transparent. MA2 and SS resins cure at ambient temperature, whereas IP resins require a vacuum oven.

	Type	Colour	Shrinkage	Polymerisation at 20 °C
KM-U	Acrylic	Translucent	Very low	10 minutes
KM-V	Acrylic	Blue	Very low	6 minutes
KM-EX expansive	Acrylic	Blue	Very low	8 minutes
KM-EM impression	Acrylic	Yellow		8 minutes
MA2	Epoxy	Transparent	Very low	12 hours
SS	Polyester	Transparent	Low	90 minutes
IP impregnation	Epoxy	Transparent	Very low	3 hours (at 50°C)



Mounting moulds

Mounting moulds can be used with all cold mounting resins. There are 3 different types :

KM	
Materials:	Acrylic resin + aluminium base
Characteristics:	Non-reusable detachable base
Teflon	
Materials:	Teflon
Characteristics:	Teflon Reusable detachable base
Rubber	
Materials:	rubber
Characteristics:	One-piece (reusable)

BESTPRESS Series

From I to II

INNOVATION IN MOUNTING



BESTPRESS offers super short mounting times and maximum user-friendliness. Speed is further improved by using the optional dosing system.

- Powerful hydraulic system
- Fast heating and cooling using new heating and cooling technology
- Available dual sample products with intermediate piston
- Two cylinder sample products available in different sizes
- Requests for up to 4 sample products at once are possible
- 18 preset functions according to resin and mold size
- Good sample product system with preheating
- Faster cycle with optimized cooling system.

BESTPRESS I

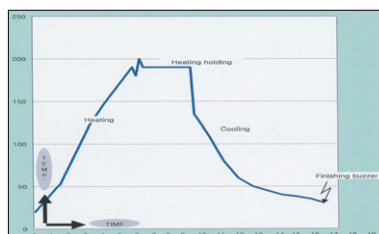
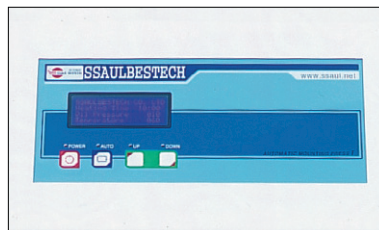
Specifications

- Mounting press
- Fully automatic cycle
- Water cooling system
- Temperature adjustable between 10 °C and 280 °C
- Adjustable settings on touch pad
- Settings readable on LCD
- 18 preset processes
- 80 °C preheating process for well molded product
- Pressure adjustable between 100 and 200bar
- Maximum diameter : ø 50mm
- Possible to stop the piston at the required height
- Screw on cap lock
- Intermediate piston can perform 2 mounting operations
- Hydraulic technology
- Heating power 2k W
- Optional connector to plug recirculating tank and pump
- 220V 1phase, 50/60Hz



- Width : 406mm
- Depth : 497mm
- Height : 440mm
- Weight : about 40kg

Operating



- The BESTPRESS 1 is an automatic cycle mounting press featuring an LCD screen and Touch pads to allow the user to adjust and check all functions and save new mounting settings.
- The LCD and touch pad control is easy and pleasant to use. The automatic cycle is activated by just one touch of the AUTO switch.
- The following settings may be adjusted and saved via the LCD and touch pads
 - Heating temperature
 - Heating time
 - Cooling time
 - Oil pressure
 - Mold diameter
 - Resin quality
 - Material to be mounted.
- The BESTPRESS 1 uses precise hydraulic technology allowing the piston to stop anywhere and seal off the specimen in the middle.
- Precise screw type cap locking shows the quality of Ssaul technology.

- Changing the mold is simple and quick. The height of the machine makes it possible to perform two mounting operations simultaneously by using the intermediary position.
- The new heating and cooling design makes it possible to change the heating element separate from the cooling system, thereby minimizing maintenance costs.
- To comply with the most recent environmental standards, there is an option to connect a pump and tray in order for operations to take place within a closed circuit.

Accessories

- 53505-1 Mould ø 25.4mm
- 53506-1 Mould ø 30mm
- 53507-1 Mould ø 31.7mm
- 53508-1 Mould ø 38.1mm
- 53509-1 Mould ø 40mm
- 53510-1 Mould ø 50mm
- 53416-1 Intermediate ram ø 25.4mm
- 53420-1 Intermediate ram ø 30mm
- 53421-1 Intermediate ram ø 31.7mm
- 53422-1 Intermediate ram ø 38.1mm
- 53423-1 Intermediate ram ø 40mm
- 53420-4 Intermediate ram ø 50mm
- 53515-1 Pump and 30-Litre tray

BESTPRESS II

Specifications

- Mounting press
- Fully automatic cycle
- Water cooling system
- Temperature adjustable between 10 °C and 280 °C
- Adjustable settings on touch pad
- Settings readable on LCD
- 18 preset processes
- 80 °C preheating process for well molded product
- Pressure adjustable between 100 and 200bar
- Maximum diameter : ø 50mm
- Possible to stop the piston at the required height
- Screw type cap lock
- Intermediate piston can perform 2 mounting operations
- 4 sample products with two cylinders and intermediate position
- Hydraulic technology
- Heating power 2kW
- Optional connector to plug recirculating



- Width : 406mm
- Depth : 497mm
- Height : 440mm
- Weight : about 50kg

Operating



- BESTPRESS II has dual cylinders and an intermediate piston and can produce 4 molds at the same time. Various sizes of molds for each cylinder can also be selected to get many different sample sizes.
- BESTPRESS series contain a hydraulic system where the pressure is controlled with very high precision, for the security of fragile specimens.
- BESTPRESS S can be special ordered with wide diameter and rectangular mold designs.

Software for good samples

- The BESTPRESS Series is equipped with a preheating function (80 °C) to ensure that even the first sample will come out with good results.
- Temperature and pressure can also be adjusted for resin type and mold size with 18 convenient preset functions.
- An overheating preventive function keeps the user safe and protects against fires.
- Regulate temperature and pressure settings when needed thanks to Ssaul Engineer and incredible software.

Accessories for BESTPRESS S

- 53205-1 Mold ø 60mm
- 53206-1 Mold ø 70mm
- 53207-1 Mold ø 80mm
- 53210-1 Mold 40 x 80mm
- 53211-1 Mold 50 x 90mm
- 53515-1 Pump and 30-Liter tray