

Opal 460 Automatic Mounting Press



The Opal 460 is a fully-hydraulic, water-cooled hot mounting press for mounting samples before polishing. The process sequence is executed automatically. The fully automatic sliding closure allows quick and easy opening/closing of the mould assembly. Mould assemblies can be exchanged quickly and without tools. The robust aluminium construction is powder-coated. With its solid construction and ATM Hydraulic system, the operating noise of the machine is minimised.



SLIDING CLOSURE

The new sliding closure is a unique innovation and allows quick and easy opening/closing of the mould assembly. By actuating the lever, the closure slides to the correct position. After initiating the cycle the mould closes automatically, and at completion the mould reopens automatically.

SIMPLE OPERATION

After pressing the start key, the fully-automatic program sequence is executed with the preselected parameters. The parameters can be changed and adjusted during the mounting process.

MOULD ASSEMBLIES

Our comprehensive selection of mould assemblies from \varnothing 25,2 - 50 mm enables optimum mounting of your sample. Two mounts can be produced simultaneously with the use of a spacer.

ELECTRONIC CONTROL

With its clear LCD operation panel you can easily control the hot mounting press. You can load and save eighteen different mounting processes.

HEATING

Our high-power heating system gives a very short warm-up time. For delicate samples the machine can infinitely adjust the heating curve

COOLING WITH WATER-SAVING - FUNCTION

Not only the cooling time, but also the resulting cooling curve can be infinitely adjusted according to the mounting requirements. Thereby, a considerably lower water consumption is achieved for longer cooling times.

PRESSURE CONTROL

Besides the standard operation, you can choose between three pressure methods.

- » Pressure increases parallel with the pre-heating phase (ideal for hollow specimens, e.g. rings).
- » Pressure increases after the preset temperature is reached to produce mounts as gap-free as possible (ideal for complex geometries).
- » When mounting highly fligrée and pressure-sensitive parts, the increase in pressure against the rising temperature is a big advantage.

INDUSTRIAL STANDARD

All components used by us, as well as the construction design correspond to the normal device requirements for industry in Germany and EC Safety Regulations. The units are finished in service-friendly modular construction.



Opal 460 Automatic Mounting Press

- » Automatic hot mounting press
- » Fully hydraulic operation with automatic water cooling (with water-saving function)
- » Completely new and easy automatic closure system
- » Computer controlled with automatic cycle system
- » Four different pressure modes
- » Double mount capability
- » Aluminium case, powder coated
- » Easy change of mould assemblies

POWER SUPPLY (select equipment)

Equipment 1
230 V / 50 Hz (1 Phase)

Equipment 2
110 V / 60 Hz (1 Phase)

ACCESSORIES

COOLING UNIT



- Recirculation unit
- » Extern
 - » Cooling 0,81 kW
 - » Motor 0,52 kW
 - » System pressure 2,6 bar
 - » Tank 6 Ltr.
 - » WxHxD 440x345x565mm

230 V / 50 Hz (1 Phase)

110 V / 60 Hz (1 Phase)



- System cooling unit
- » Integrated in drawer
 - » Cooling 0,81 kW
 - » Motor 0,52 kW
 - » System pressure 2,6 bar
 - » Tank 6 Ltr.

230 V / 50 Hz (1 Phase)

110 V / 60 Hz (1 Phase)



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ACCESSORIES

MOULD ASSEMBLIES

Ø 25,2 mm (1")
 Ø 30 mm
 Ø 32 mm
 Ø 1¼"
 Ø 38 mm (1½")
 Ø 40 mm
 Ø 50 mm



SPACERS FOR DOUBLE MOUNTS

Ø 25,2 mm (1")
 Ø 30 mm
 Ø 32 mm
 Ø 1¼"
 Ø 38 mm (1½")
 Ø 40 mm
 Ø 50 mm

CONNECTION SET

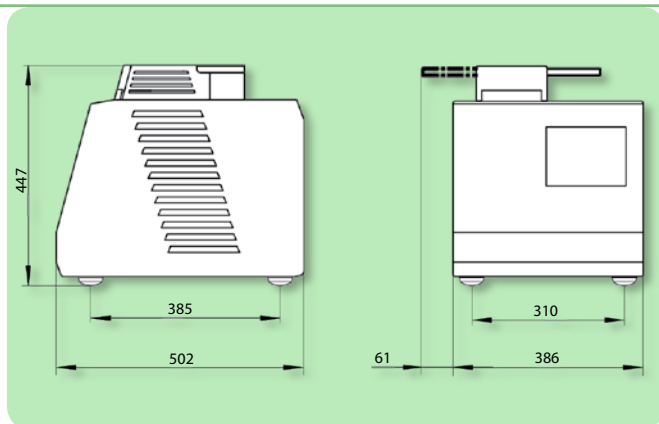
- » 2 pressure tube R ½"; 2 m
- » Adaption for ¾"
- » Connection set for 2 Opal presses



SYSTEM LAB CABINET

- » WxHxD 880x815x800 mm
- » System lab assembly

SPECIFICATIONS



Moulds	Ø 25,2 - 50 mm
Motor	2,5 kW
Power supply	1 220 V/50 Hz (1 Phase) 2 110 V/60 Hz (1 Phase)
Heating	4 x 500 Watt
Temperature range	0 - 200 °C
Heating timer	variable / 0 - 30 min
Cooling timer	variable / 0 - 30 min
Pressure	up to 300 bar depending on mould
WxHxD	390x450x500 mm
Weight	62 kg



MetPrep Ltd, Curriers Close, Charter Avenue, Coventry. CV4 8AW.
 Tel: 024 7642 1222 Fax: 024 7642 1192
 Email sales@metprep.co.uk Website www.metprep.co.uk