



The **Opal 480** 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. Also rectangular moulds can be produced. 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 and reopens automatically on completion.

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 50 - 70 mm resp. 30x60/40x60 mm (rectangular form) enables optimum mounting of your sample. Two mounts can be produced simultaneously with the use of 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 adjust the heating curve infinitely.

COOLING

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

PRESSURE MODE

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 filigree 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 the EC Safety Regulations. The units are finished in service friendly modular construction.





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OPAL 480

Order No.: M0790000

- » Automatic hot mounting press
- » Fully hydraulic operation with automatic water cooling (with water saving function)
- » Completely new and simple automatic closure system
- » Computer controlled with automatic cycle processing
- » Four different pressure modes
- » Aluminium case, powder coated
- » Easily interchangeable moulds
- » Rectangular moulds

POWER SUPPLY (select equipment)

Equipment 1

230 V/50 Hz (1/N/PE)

Order No.: A0790000

Equipment 2

110 V/60 Hz (1/N/PE)

Order No.: A0790001

ACCESSORIES**COOLING****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/N/PE)

Order No.: Z0730007

110 V /60 Hz (1/N/PE)

Order No.: Z0730008

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/N/PE)

Order No.: A5800118

110 V/60 Hz (1/N/PE)

Order No.: A5800141



Water cooling with water saving-function



ACCESSORIES

**MOULD ASSEMBLIES (CYLINDER,
LOWER AND UPPER RAM)**

	Order No.:
Ø 50 mm	Z0790000
Ø 60 mm	Z0790001
Ø 70 mm	Z0790002
□ 30x60 mm	Z0790003
□ 40x60 mm	Z0790004


SPACER FOR DOUBLE MOUNTS

	Order No.:
Ø 50 mm	00702118
Ø 60 mm	00702025
Ø 70 mm	00702026

CONNECTION SET

- Order No.: Z0730003
 » 2 pressure tube R 1/2"; 2 m
 » Adaption for 3/4"
 Order No.: Z0730004
 » Connection set for 2 Opal presses


SYSTEM LAB CABINET

- Order No.: M5800048
 » WxHxD 880x815x800 mm
 » System lab assembly

SPECIFICATIONS



Moulds	Ø 50 - 70 mm
Moulds (rectangular)	30x60/40x60 mm
Motor	3 kW
Power supply	1 230 V/50 Hz (1/N/PE)
	2 110 V/60 Hz (1/N/PE)
Heating	4 x 630 Watt
Temperature range	0 - 200 °C
Heating timer	variable / 0 - 30 min
Cooling time	variable / 0 - 30 min
Pressure	up to 300 bar depending on mould
WxHxD	390x450x500 mm
Weight	68 kg