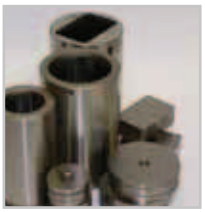


The **OPAL 480** s a fully hydraulic, water cooled hot mounting press for mounting samples before polishing.
The process sequence is executed automatically.
The fully automatic sliding closure allows quick and easy opening/closing of the mould assembly.
Mould assemblies can be exchanged quickly and without 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 minimized.









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 Ø 50 - 70 mm resp. 30x60/40x60 mm (rectangular form) enables optimum monting 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 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.

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.



BASIC MODULE

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

EQUIPMENT

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 UNIT



Recirculation unit
» Extern

» Cooling	0.81 kW
» Motor	0.6 kW
» Flow pressure	2.8 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	0.6 kW
» Flow pressure	2.8 bar
» Tank	6 Ltr.

230 V/50 Hz (1N/PE)
Order No.: A5800118
110 V/60 Hz (1/N/PE)
Order No.: A5800141

Water cooling with water saving-function

Mould assemblies are also available in inch sizes. Technical changes reserved.

ACCESSORIES

MOULD ASSEMBLIES (CYLINDER, UPPER- AND LOWER RAM)

	Order No.:
Ø 50 mm	Z0790000
Ø 60 mm	Z0790001
Ø 70 mm	Z0790002
☐ 30 x 60 mm	Z0790003
☐ 40 x 60 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 tubes R ½"; 2 m lang
» Adapter for ¾"

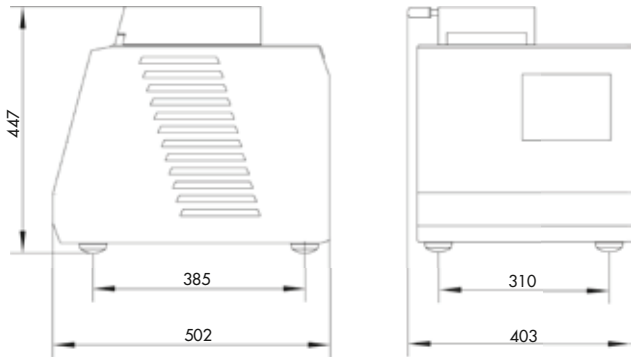
Order No.: Z0730004
» Connection set for two Opal presses



SYSTEM LAB CABINET

Order No.: M5800048
» WxHxD 880x800x800 mm
» System lab assembly

SPECIFICATIONS



Moulds	Ø 50 - 70 mm	
Moulds (rectangular)	30x60/40x60 mm	
Connected load	3.6 kVA	
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 time	variable / 0 - 30 min	
Cooling time	variable / 0 - 30 min	
Pressure	up to 300 bar depending on mould	
WxHxD	390 x 450 x 500 mm	
Weight	68 kg	

Mould assemblies are also available in inch sizes. Technical changes reserved.