



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 minimized.



OPAL 460



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 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 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.



BASIC MODULE



OPAL 460

Order No.: M0780005

- » 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

EQUIPMENT

POWER SUPPLY (select equipment)

Equipment 1

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

Order No.: A0780005

Equipment 2

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

Order No.: A0780006

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 (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, UPPER- AND LOWER RAM)

	Order No.:
Ø 25,2 mm (appr. 1")	Z0780101
Ø 30 mm	Z0780102
Ø 32 mm	Z0780103
Ø 31,75 mm (1¼")	Z0780104
Ø 38 mm (appr. 1½")	Z0780105
Ø 40 mm	Z0780106
Ø 50 mm	Z0780107



SPACERS FOR DOUBLE MOUNTS

	Order No.:
Ø 25,2 mm (appr. 1")	00702113
Ø 30 mm	00702114
Ø 32 mm	00702115
Ø 31,75 mm (1¼")	00702141
Ø 38 mm (appr. 1½")	00702116
Ø 40 mm	00702117
Ø 50 mm	00702118



CONNECTION SET

Order No.: Z0730003
 » 2 pressure tubes R ½"; 2 m
 » Adapter for ¾"

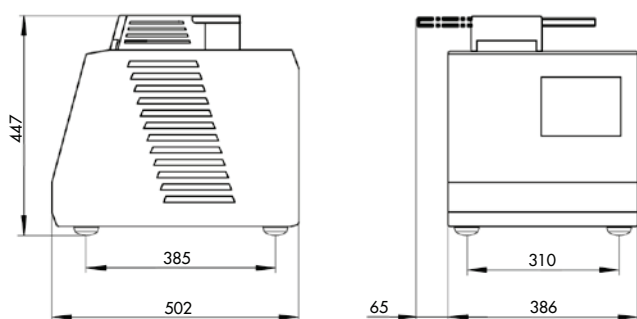
Order No.: Z0730004
 » Connection set for two Opal presses

SYSTEM LAB CABINET



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

SPECIFICATIONS



Moulds	Ø 25.2 - 50 mm
Connected load	3.1 kVA
Power supply	1 230 V/50 Hz (1/N/PE)
	2 110 V/60 Hz (1/N/PE)
Heating	4 x 500 Watt
Temperature range	0 – 200 °C
Heating time	variable / 0 - 30 min
Cooling time	variable / 0 - 30 min
Pressure	up to 250 bar depending on mould
WxHxD	390 x 450 x 500 mm
Weight	62 kg