

ECOPRESS Series Mounting Press for Metallography Sample Preparation

www.WorldofTest.com/metallography.htm

Introduction

After cutting the specimen, the next step is mounting. The aim of mounting is to handle small or odd shaped specimens and to protect fragile materials, thin layers or coating during preparation as well as to provide good edge retention. Mounting produces specimens with uniform size so that it is easier to handle in automatic holders for further preparation steps.

ECOPRESS 100 is an easy to use automatic mounting press. It has advanced software with programmable HMI touch screen controls. Robust bayonet closure allows for quick and safe operation. ECOPRESS offers a wide selection of mould assemblies from 25 to 50 mm in diameter. Two mounts can be produced simultaneously with the use of an intermediate ram.

ECOPRESS 200, available with dual cylinder can produce four mounts at a time offering a perfect solution for labs with high specimen throughput.

ECOPRESS has electro hydraulic operation which does not require air. The sample is ejected fast and very smoothly. All hydraulic components are housed in a GRP glass reinforced plastic cabinet which is ergonomically designed. ECOPRESS has preprogrammed molding sequences built-in (factory set) from which you can choose according to your own applications. You only need to place the sample in the mould, select the program number for your specific application and depress the "Start" button. ECOPRESS does the rest for you! After pressing the start key, the fully automatic program sequence is executed with the preselected parameters. The pressure, heating and cooling are automatically controlled and the total cycle time of a complete cool mount takes 8 to 10 minutes. The parameters can be changed and adjusted during the mounting process. ECOPRESS has additional capacity to store up to 25 operator-created programs. User-friendly program data and instructions are displayed on a large touch screen

ECOPRESS 100

Programmable Automatic Mounting Press with one cylinder, 5,7" HMI touch screen control, program based mounting sequences, electro hydraulic pressure (requires no air), pressure up to 300 bar, temperature up to 200 C, operation time up to 59:99 minutes, short cycle time, thermostatically controlled heating power of 1250W, automatic cooling cycle with two modes of cooling rates (fast cooling and slow cooling), programmable preheating and preloading, selectable mould sizes from 25 mm to 50 mm, audible warning signal, ready for operation.
230 V, 1-phase, 50 Hz.

Mould assemblies are to be ordered separately.

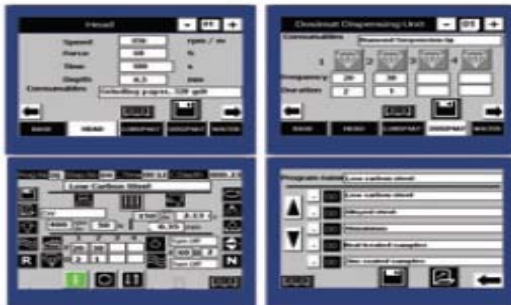


ECOPRESS Series Mounting Press for Metallography Sample Preparation

ECOPRESS 200

Programmable Automatic Mounting Press with two cylinders, 5,7" HMI touch screen control, program based mounting sequences, electro hydraulic pressure (requires no air), pressure up to 300 bar, temperature up to 200 C, operation time up to 59:99 minutes, short cycle time, thermostatically controlled heating power of 2X1250W, automatic cooling cycle with two modes of cooling rates (fast cooling and slow cooling), programmable preheating and preloading, selectable mould sizes from 25 mm to 50 mm, audible warning signal, ready for operation. 230 V, 1-phase, 50 Hz.

Mould assemblies are to be ordered separately



Programmable HMI touch screen controls

Heating and Cooling



The high efficiency combined heater/cooler is housed in the upper part of ECOPRESS. With 1250 W of thermostatically controlled heating power, molding times are kept to a minimum. At the end of the heating cycle the cooling water is automatically switched on and will turn off once the "Cooling Temperature" is reached. When the stand-by mode is switched on, pre-warming maintains a constant ready to use temperature, thus reducing the cycle time. Two cooling modes are available as "Standard" and "Low". Low cooling is for thermoplastic resins which require far longer cooling times for best mount clarity. A stainless steel "Re-circulating Coolant System" is optionally available.

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Mould Assemblies



ECOPRESS mounting presses can accept several mould sizes from 25 mm to 50 mm. All moulds can be exchanged simply and easily. An intermediate ram can be used to double the production capacity. Insulated mold closure protects the operator. Easy-to-use dovetail connection for the lower ram eliminates the need for mechanical fastening. Robust bayonet mold closure maximizes safety and eliminates the need to clean cylinder threads before closing. There will be no need to replace molds because of worn threads in the future.

	ECOPRESS 100	ECOPRESS 200
Max. Pressure, bar	300	300
Max. Temperature, C	200	200
Heating Power, W	1250	2x1250
Water Cooling	Yes	Yes
Operation	Programmable / Hydraulic	Programmable / Hydraulic
Display	5,7" HMI touch screen LCD	5,7" HMI touch screen LCD
Mould Assembly, mm.	25-50	25-50
Size W x D x H, (mm)	360 x 560 x 470	470 x 560 x 470
Weight, (kg)	38	54