

10T AUTOMATIC LAB PRESS WITH HEATING PLATES

TECHNICAL DATASHEET

The Lab Press equipped with heating plates is designed for the preparation of plastic or rubber sheets from which it is possible to obtain standardized specimens for both mechanical physical tests and quality controls of vulcanized compounds, printed samples, sintered powders, tests on expanded materials, laminating tests, etc.

A control operates the electrohydraulic pump (internal to the unit) connected with hydraulic hoses to the handling cylinder. A pneumatic system allows to move the plates and increase the speed, so as to decrease the closing time. The working pressure is read directly from the pressure gauge on the panel. The press can also be easily equipped with a range of accessories.

Maximum Exercise Pressure 10,000Kg,

Set of 2 heating plates 300 x 300 mm in special aluminum alloy, each equipped with n°4/ 0.8 kVA cartridge heater.

Control panel with digital electronic display, thermo regulators (temperature range 0 ÷ 300°C), for the independent thermoregulation of each plate.

Optional PLC with touch-screen display. It allows to set molding cycles defining:

- the temperatures
- the thermal cycle (temperature gradients)
- the closing force (option)
- memorization of the cycles

A cooling coil is inserted in each heating plate to connect to an air or water circuit supply.

Cooling is necessary up to the solidification temperature before opening the mold.

The heating plates are also equipped with a thermostat against overheating.

The lower plate is lifted with an hydraulic piston, while the upper plate is fixed.

The area of work is protected with a box and safety glass to avoid burns owing to the high temperatures; this safety system does not allow movement if it is left open.

Standard Mould



The water cooling indicated to be controlled with the help of a flow programmer.

Technical Specifications :

- Opening of the plates: 0 ÷ 150 mm
- Range of pressure: 10 ÷ 100 kN (10T)
- Advisable max working pressure: 680÷ 700 bar
- Working temperature: ambient ÷ 300°C
- Dimensions: 93 x 69 x 185 h
- Weight: approx. /250 Kg

Code	Description
10026120	10T Automatic Lab Press w/heating plates
10026150	Mould 270 x 270 x 4 mm
10026142	Mould Holder
10226145	Cooling programmer/ rate Thermal 15°C min
10226146	Cooling programmer/ rate Thermal and Pressure
10026148	Software Link Lab Press

