

25T 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 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.

The version with programming of the thermal and cooling cycles is available. With touch screen display. It allows you to set molding cycles by defining 50 programming cycles with max 30 steps


Technical features:

Maximum Exercise Pressure 24,000Kg, -

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.

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

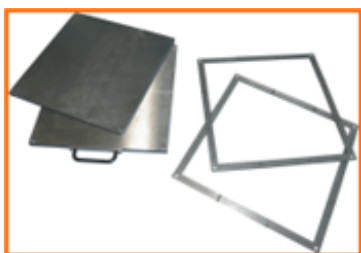
Cooling is necessary up to the solidification temperature of material before opening the mold

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.

Characteristics

- Opening of the plates: 0 ÷ 150 mm
- Range of pressure: 10 ÷ 234 kN (25T)
- Advisable max working pressure: 680÷ 700 bar
- Working temperature: ambient ÷ 300 °C
- Window mold 270 x 270
thickness 4 mm
(or size on request)


HEAT / COOL PROGRAMMING

- PLC with touch-screen display. It allows to set molding cycles defining:
 - - the temperatures
 - - the thermal cycle
- Same display it is possible to control the main parameters, such as the elapsed time, the current set point, the time remaining until the end of the current cycle, etc.

Cooling down:

- the speed is set in the test cycle and is modulated by the control PID independently in the two planes of the press. (max -40 °C / min)

Pressure Cycle

- the pressure cycle with precision 2% of the applied force (max 240 kN), regulation 10N oscillations during regulation < 1 kN.

Generals:

Dimensions: 930 x 690 x 1750 H mm

Weight : Kg 320

Power : 230V, 50Hz

Code	Description
10026100	25T Automatic Lab Press w/heating plates
10026145	Programmer Cycles A (Thermal- Cool)
10026146	Programmer Cycles A-B (Thermal Cool-Pressure)
10026142	Mold holder
10026150	Mold 270 x 270 Thickness 4 mm
10026148	Software Lab Press

