LABORATORY PRESS - DRIVE

PROGRAMMABLE LABORATORY PRESS FOR COMPRESSION MOULDING, WITH 270X270 MM PLATENS AND 25 T CLOSURE FORCE

STANDARDS: ASTM D3182; ISO 293; ISO 2393; ISO 6916-I; ISO 6916-2; UNI 5572;

gibitre INSTRUMENTS

Laboratory press in accordance with ISO 2393 for the preparation of plates and samples. The machine has been developed to ensure thermal uniformity of the heating surfaces and mechanical strength in order to guarantee the preparation of specimens with constant characteristics and thickness.

Key features

- Mechanical structure with 4 columns (with diameter 60 mm) and sliding plate guided by self-lubricating bushings
- PLC control with 10" touch-screen panel for complete control of the machine and for the preparation of 40 automatic molding cycles
- Flat heating elements specially designed to ensure uniform temperature distribution on the surface of the plate
- Pneumatically operated protective door for the molding area with safety interlock and glass surface
- Molding area closed for smoke extraction
- CE marking

Accessories

- Cooling system: controls the cooling speed of the plates for the moulding of thermoplastic products
- Closure force control: allows the continuously adjustment of the closing force for each step of the molding cycle
- Press_Control Software: allows you to store the molding cycles, prepare the list of products to be moulded, automatically adjust the press according to the product, store the molding curves into SQL database
- Molds for the production of plates and different types of samples according to international standards

Max useable platen surface: 270 mm x 270 mm
Max closure force: 25 Tons
Temperatures: Up to 250°C (300°C optional). ; 0.1°C resolution.; Mean Temperature difference within 200x200mm central area of the platens <0,5°C.
PLC with Touch Screen Display: The 10" color display permits to manually operate the machine, view the status of all the devices and sensors installed and prepare moulding cycles.
Setup of Moulding cycles: Storage of 40 molding cycles. Each cycle can include up to 30 operations which include: platen displacement, temperature set closure force set (option).
Cooling System: allows the temperature reduction of the platens at a controlled speed (up to -50 ° C / min). The cooling circuit can be connected to a demineralised water supply source or to a chiller.
Closure force Control (option): Press configuration for continuous control of the closing force between 10 and 250 kN (between 1000 and 25000 kg). Closure force can be set for each step of the molding cycle.