



### DESCRIPTION

Built in a compact and elegant structure of painted steel with epoxy paints cooked at 180 ° C, it operates entirely hydraulically and is **completely automatic except for the loading of the material to be pressed.**

It is a suitable tool for the production of samples in the laboratory.

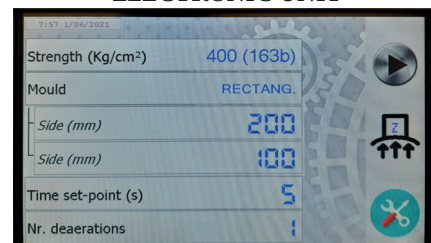
Through an oleodynamic cylinder placed on the upper part of the press and on which the appropriate punch is mounted, the pressing force is exerted.

The mold, placed on the work surface, is manually filled with the powder to be pressed and after pressing, the sample obtained is extracted by means of a piston placed in the lower part.

### TECHNICAL SPECIFICATIONS

- Pressing cylinder with hydraulic operation
- Extractor cylinder with hydraulic operation
- Hydraulic unit with automatic working pressure adjustment
- Electronic control unit that allows the press to work automatically
- Lexan front protection with safety micro switch

#### ELECTRONIC UNIT



#### Functions:

- Visualization of the pressure on the display
- Programming up to three thicknesses of soft<sup>1</sup>
- Manual programming of the working pressure
- Programming of the residence time at the maximum pressure set
- Programming of deaeration
- **Memorization of the mold dimensions**
- **Programming the Kg/cm<sup>2</sup> desired in the pressing<sup>2</sup>**
- **Display of the Kg/cm<sup>2</sup> of force and relative working pressure, according to the dimensions**
- Start of the automatic pressing cycle
- **Predisposition with Ethernet and Usb port for industry 4.0**

<sup>1</sup> that is, the possibility of being able to press three types of powder at the same time and therefore electronically adjust the thickness of the powders in the mold

<sup>2</sup> the control unit will automatically adjust the working pressure



**TECHNICAL CHARACTERISTICS**

Mod.	L	P	H	Motor	V	Hz	Power	Piston	Bar	Weight
	mm	mm	mm	kW	+ N		[ton]	[Ø]	[max]	[kg]
P 800 STP	750	930	1800	3,5	400	50/60	80	230	200	955
P 1000 STP	850	930	1860				110	250	200	1150
P 1200 STP	850	930	1860				125	260	220	1180

(all data are not binding, the manufacturer reserves the right to modify them)

**IMPORTANT**

For proper press operation, the pressure range of the circuit at which you can operate must be between 30 bars and 220 bars

**NOTE**

The moulds currently supplied are suitable for use with a maximum pressure on the shape of 1700 Kg/cm<sup>2</sup>

On these models of laboratory presses the molds are interchangeable and can be supplied in the following standard dimensions:

**100 x 100 mm. - 150 x 150 mm. - 100 x 200 mm**

**MOULDS IN STANDARD FORMAT**

Shape size	mould case thickness	P-800 [80ton]	MIN	MAX	P-1000 [110ton]	MIN	MAX	P-1200 [125ton]	MIN	MAX
			on the shape	on the shape		on the shape	on the shape		on the shape	on the shape
mm	mm		kg/cm <sup>2</sup>			kg/cm <sup>2</sup>			kg/cm <sup>2</sup>	
100x100	30	●	124	914	●	147	1079	●	159	1168
150x150	30	●	55	406	●	65	479	●	70	519
100x200	30	●	62	457	●	73	539	●	79	584

**Supplied with:**

- screed
- allen keys for mold assembly / disassembly

**Not included:**

- mold, supplied at the customer's choice among the various available dimensions