

DESCRIPTION

Built with a compact and elegant structure in steel painted with epoxy paints fired at 180°C.

It operates entirely hydraulically and is completely automatic with the exception of loading the material to be pressed.

It is an instrument, **designed for intermittent use**, suitable for the production of samples in the laboratory.

The pressing force is exerted through a hydraulic cylinder placed on the upper part of the press and on which the appropriate pad is mounted. 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.

With this version of the press, it is possible to load a soft maximum of approximately 50 mm, therefore suitable for obtaining thick samples having a final thickness, when fired, of 20/22 mm.

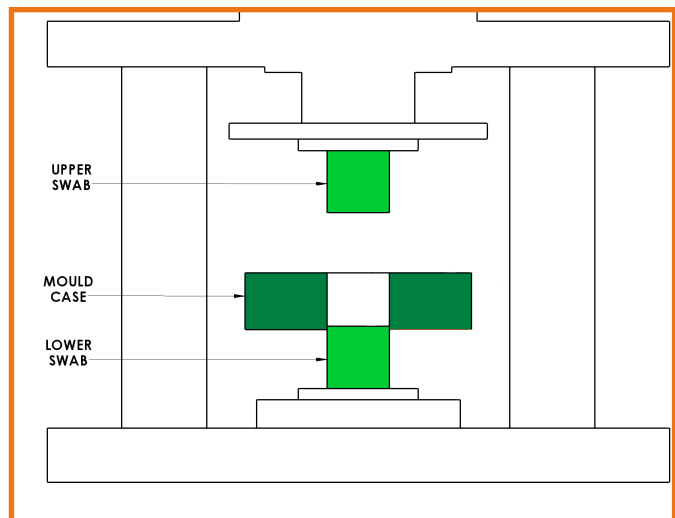
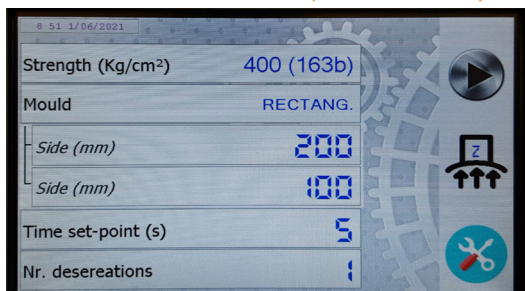
The thickness of the soft can be programmed with a progressive value of 1 mm at a time. This means that with a single laboratory press we can have a soft height varying between 1 and 50 mm.

Therefore, this instrument is suitable for making pressed samples ranging from a few millimeters thick up to a maximum of 22 mm thick.

TECHNICAL FEATURES

- Hydraulic operating pressing cylinder
- Hydraulic operating extractor cylinder
- Hydraulic control unit with regulation automatic working pressure
- Electronic control unit that allows the press to work automatically
- Lexan front protection with safety microswitch
- Double hydraulic circuit

CONTROL PANEL (touch screen)



- Display of pressure on display
- Programming up to three soft thicknesses¹
- Manual programming of working pressure
- Programming the residence time at the set maximum pressure
- Deaeration programming

- Mold size storage
- Programming of the Kg/cm² desired in the press¹
- Display of Kg/cm² of force and relative working pressure on the display, depending on the format
- Starting the automatic pressing cycle
- **preparation with Ethernet and USB port for industry 4.0 "ready"**

¹ 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 mould

¹ the control unit will automatically adjust the working pressure

TECHNICAL FEATURES

Mod.	Width	Depth	Height	Tension	Frequency	Force	Alexing preemptively cylinder	Max circuit pressure	Weight
	mm	mm	mm	V+N+T	Hz	[ton]	[Ø mm]	[bar]	[kg]
MIGNON MAX 68E PLUS	580	920	1070	400	50/60	68	180	270	450

(all data is not binding, the manufacturer reserves the right to modify it)

Included:

- screed
- allen keys for mold assembly/disassembly

Not included:

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

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



Mold available on request:

Special Ø 40 mm mould with sintered Zirconium Ox swab

NOTE

The molds currently supplied are suitable for use with a maximum shape pressure of 1700 kg/cm²

STANDARD FORMAT MOULDS

Shape size	Mould thickness	MIN on the shape	MAX on the shape
mm	mm	kg/cm ²	kg/cm ²
Ø 40	50 (*)	607	1700
Ø 50		388	1700
30x80		318	1700
40x60		318	1700
50x50		305	1700
50x100		152	1374
55x110		126	1135
100x100		76	687
150x100		50	458
on request according compatibility			

(*): the soft maximum loadable is 47 mm

IMPORTANT

For proper press operation, the pressure range of the circuit at which you can operate must be within between 30 bars and 270 bars

Calculation example:

Cylinder alexing = 180 mm
Cylinder area = 254,46 cm²
Shape area (es. 55x110) = 60,5 cm²
Desired pressure on the shape = 400 Kg/cm²

Circuit pressure: (400 x 60,5)/254,46 = 95,10 bar (pressure value to be set)