

M Series

4-cylindrical column hydraulic press

We have designed the M series hydraulic presses with six different power ranges, from 50 to 300 tonnes.

Designed with four cylindrical columns for increased accuracy and capacity, specifically recommended to perform work involving deep-drawing, stamping, die-cutting, forming, etc.

This series works with hydraulic pressure lower than 320 bar to ensure the greater durability of the whole hydraulic system.



MV-100 model

Model ML-300 E for mold adjustment.



Model MV-600 E for elastoconforming.



Model MV-800 E electronic synchronized.



Structure and tables

M series hydraulic presses consist of three electro welded frames made solely of S355JR steel. They are stabilized and mechanized at the end of the structural welding process to ensure perfect parallelism and precision. Calculated and designed by finite software. With all this, we always guarantee our high precision and quality standards.

These models feature a mechanized lower and upper C45E steel table with DIN-650 grooves. We ensure a minimal friction in the vertical displacement of the upper table by installing alloy bimetallic bushings and a perfect parallelism by four chromed and rectified cylindrical columns.

Adjustments to the position of the upper table and changes in speed are controlled from a three-way side panel.

Cylinder and hydraulic unit

The cylinder is double acting with a chrome plunger and maintenance-free anti wear guides.

A two-speed motorized hydraulic unit with automatic high-speed deactivation. It's equipped with a cylinder decompression valve. Silent hydraulic pump. A pressure switch placed at the lateral part comes as standard which allows the regulation of the most appropriate pressure signal for each kind of pressing.

Glycerin gauge with reading in tonnes.

Electric installation and safety

The control panel features a switch enabling the user to select the desired type of work in manual, semi-automatic or automatic position and a switch to select either the fast or slow speed.

Electrical and hydraulic manoeuvres are redundant and self-controlled. They incorporate an additional safety hydraulic block and self-control devices for manoeuvre and safety. It includes the verification and certification of the correct operation and the safety distance for the safety light curtains.

Operation is carried out by low voltage electric pedals.

Safety is guaranteed using level IV safety light curtains situated at the front of the press, two fixed lateral protections panels and one practicable protection panel with a magnetic detector disconnection switch placed at the rear.

They allow the installation of a hydraulic cushion or a hydraulic ejector.

It meets and satisfies all the essential health and safety requirements in accordance with the CE standard.

They are supplied with an instructions manual.

Optional accessories

- Proportional valves of pressure and flow.
- PLC SIEMENS mod. SIMATIC S7 1200 with 7" touch screen mod. KTP-700.
- Frontal sliding lower table.
- Adaptations to robotics.
- Hydraulic cushion.
- Hydraulic ejector placed at the upper or lower table or both.
- Cooling equipment for hydraulic group by an air-oil system.
- Fast speed by prefilling valves and side cylinders.
- Hydraulic connections for peripheral systems.
- Geometry adapted to your needs.

M Series		MV-50	MV-80	MV-100	MV-150	MV-220	MV-300
Power	Tn	50	80	100	150	220	300
Motor power	Kw	4	5,5	7,5	7,5	11	11
Approaching speed	mm/s	32	25	31	20	17	13
Working speed	mm/s	6,3	6	6,2	3,9	3,8	2,8
Return speed	mm/s	42	36	48	31	30	18
Guides diameter	mm	60	80	100	120	120	150
Maximum pressure	bar	320	320	320	320	320	320
Piston stroke	mm	450	450	450	450	450	450
Useful table	mm	750x620	900x850	1050x950	1050x950	1200x950	1300x1000
Between columns	mm	750x410	900x600	1050x650	1050x590	1200x590	1300x570
Vertical light	mm	600	600	650	700	750	800
Working height	mm	750	800	800	800	900	900
Total front	mm	1470	1680	1880	1940	2240	2650
Total lateral	mm	1020	1330	1430	1490	1450	1500
Total height	mm	2650	2680	2780	2885	3125	3250
Weight	Kg	3200	3400	4300	5580	8500	10800