

HIDROGARNE

Specialists in the manufacture of tailormade hydraulic presses

M SERIES



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We have **designed** the M-series hydraulic presses **with six different power ranges, from 50 to 500 tonnes.**

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

M-series hydraulic presses consist of three electro welded sections made solely of ST-52.3 steel. **They are stabilised and machined at the end of the structural welding process** to ensure perfect parallelism and precision. **Calculated and designed by finite software with level 5 structural resistance.** With all of this, we always **guarantee our high precision and quality standards.**

These models are **equipped with a mechanized lower and upper CK-45 steel table with two "T" DIN-650 grooves.** We ensure a minimal friction in the vertical displacement of the upper table by installing alloy bronze bushings with graphite filler and a perfect parallelism by four cylindrical columns chromed, rectified and made of CK-45 steel.

The upper table ensures perfect alignment by means of four cylindrical lateral rails with anti-friction bimetallic caps which require no maintenance.

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

The cylinder is double acting with a lapping liner, 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 regulator placed at**

OPTIONAL ACCESSORIES:

- Proportional valves of pressure and flow.
- Valve to prevent water hammer.
- CNC up to 12 axes.
- Removable lower table.
- Hydraulic cushion in different capacities.
- Hydraulic ejector placed at the upper or lower table or both.
- Adaptations to robotics.
- Cooling equipment for hydraulic group by an air-oil system.
- Fast approaching speed of 200 mm/s by prefilling valves and side cylinders.
- Hydraulic connections for peripheral systems.
- Geometry adapted to your needs.

the front part comes as standard which allows the regulation of the most appropriate pressure for each kind of pressing.

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

Operation is carried out by **low voltage electric pedals.**

Safety is guaranteed by the use of **level IV photoelectrical sensors** situated at the front of the equipment, two fixed lateral protections panels and one **practicable protection panel with a magnetic detector** disconnection switch **situated at the rear.**

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

They are supplied with a glycerin gauge with reading in tonnes, hydraulic oil and an instructions manual.

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

These hydraulic presses work with hydraulic pressure lower than 290 bar to ensure the greater durability of the hydraulic system as a whole.

Model	Power	Motor power	Working speed	Approaching speed	Return speed	Piston stroke	Guides diameter	Tables	Between columns	Vertical light	Working height	Total front	Total lateral	Total height	Weight
	t	kw	mm/s	mm/s	mm/s	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
MV-50	50	4	10	45	60	450	60	970x620	750x400	600	750	1.420	1.020	2.800	3.200
MV-80	80	5.5	8	39	56	450	80	1.150x770	900x500	600	900	1.600	1.170	2.875	3.750
MV-100	100	7.5	9	38	59	450	100	1.400x950	1.050x600	650	900	1.850	1.350	2.925	4.300
MV-150	150	11	8	29	45	450	120	1.440x990	1.050x600	700	900	1.990	1.490	3.050	5.100
MV-220	220	15	7	27	49	450	120	1.640x1.040	1.200x650	750	900	2.240	1.590	3.125	6.560
MV-300	300	22	6	21	31	450	150	2.050x1.100	1.550x650	800	900	2.650	1.650	3.250	7.150

ADVANCEMENT

HARDINESS STRENGTH CONTROL

VERSATILITY



ML-300 for mould adjustment



MV-800 E electronic synchronised



MV-300 hydraulic press for high production



MV-600 E removable lower table, prepared for vulcanized works

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WHO WE ARE

Active in the market since 1987. A corporate trajectory which began with the supply of machinery exclusively for the Spanish market, we gradually branched out into several different European countries and we are **now exporting** our hydraulic presses **to over 20 countries all over the world.**

We are backed by over **25 years of experience** in innovation, quality and commitment to our customers. Our continuous progress over all these years has led to us becoming **leaders in the manufacture of hydraulic presses.**

Convinced of the quality of our hydraulic presses, we have extended our manufacturing guarantee to a period of 2 years.

Our entire range of hydraulic presses is **totally manufactured by HIDROGARNE.**

We are specialized in making hydraulic presses with the capacities, measurements and technical characteristics adapted to your needs.

Made in Spain

www.hidrogarne.com

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