

HIDROGARNE

Specialists in the manufacture of tailormade hydraulic presses

RM/NC SERIES



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We have designed the motorized rigid frame hydraulic presses of the R series with a range of six different powers ranging from 80 to 500 tons. Specially designed for stamping, punching, and deep drawing tasks.

The latest generation R series hydraulic presses have evolved in versatility, including the possibility of incorporating these machines into automatic production lines.

They operate with a hydraulic pressure below 320 BAR to ensure greater durability of the entire hydraulic system.

STRUCTURE AND TABLES

The R series deep drawing and stamping presses consist of an electro-welded structure manufactured exclusively in S355JR steel. It is stabilized and machined at the end of the welding process to guarantee perfect parallelism and precision. Calculated and designed with finite element software. With all this, we always guarantee our high standards of precision and quality.

They are equipped with an upper and lower table made of C45E steel machined with DIN-650 grooves.

The upper table ensures perfect parallelism through four lateral cylindrical guides with maintenance-free bimetallic anti-friction bushings.

CYLINDER AND HYDRAULIC GROUP

Double-acting cylinder with seamless cold-drawn tube, chrome-plated piston, and maintenance-free wear-resistant guides.

Two-speed motorized hydraulic group with automatic disconnection of fast speed. They include a cylinder decompression valve.

OPTIONAL ACCESSORIES:

- Mechanical cylinder adjustment (only available in 80 and 100 T).
- PLC SIEMENS mod. SIMATIC S7 with 7" touch screen mod. MPT-700.
- Fast speed through prefilling valve and lateral cylinders.
- Hydraulic cushion.
- Hydraulic ejector located on the upper, lower, or both tables.
- Cooling equipment for the hydraulic group.
- Remote connection router
- Industry 4.0
- Geometry adapted to your needs.

ELECTRICAL INSTALLATION, CONTROL AND SAFETY

It incorporates a SIEMENS safety PLC model SIMATIC S7 1200 and a 4" touchscreen model MTP-400 located at the top of the electrical drive pedal as standard. It allows programming the operating mode in semi-automatic and automatic, the power, the stroke, and the dwell time of the upper cylinder. It has a storage capacity of 99 recipes, and all the aforementioned values can be programmed in each recipe.

The electrical panel includes a selector that allows choosing the type of work we want to perform in manual or automatic position and a key selector for maintenance work.

Electrical and hydraulic maneuvers are redundant and self-controlled. They incorporate an additional safety block and self-control devices for maneuvers and safety.

It includes the verification and certification of the correct operation and the safety distance for the photocells.

To guarantee safety, they incorporate type 4 PLe safety photoelectric barriers, located in the front working area, two fixed lateral protections, and a practicable protection with magnetic disconnection detector located at the rear with polycarbonate windows and interior LED lighting.

They allow the installation of a hydraulic cushion or ejector.

Complies with and meets all essential safety and health requirements according to CE regulations.

Supplied with an instruction manual.

Model	Power	Motor power	Working speed	Approaching speed	Return speed	Maximum pressure	Piston stroke	Guides diameter	Lower table	Upper table	Max. vertical light	Frontal light	Working height	Total front	Total lateral	Total height	Weight
	t	kw	mm/s	mm/s	mm/s	bar	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
RM80NC	80	7,5	8	34	48	320	250	50	700x500	600x450	450	800	900	1.500	1.025	2.550	2.180
RM100NC	100	13	9 - 3	40	60	320	250	50	700x500	600x450	500	800	900	1.525	1.075	2.675	2.540
RM150NC	150	13	7 - 3	28	40	320	250	50	750x550	650x500	550	850	950	1.750	1.095	2.870	3.350
RM220NC	220	11	3,8	17	30	320	300	60	800x600	700x550	550	900	1.000	1.875	1.110	3.095	5.000
RM300NC	300	11	2,8	13	19	320	300	60	850x650	750x600	600	950	1.000	2.025	1.225	3.230	7.000
RM500NC	500	15	2,4	10	17	320	500	80	1.000x850	900x800	700	1.150	1.000	2.585	1.470	3.610	12.150

HIDROGARNE reserves the right to introduce modifications and improvements without previous notice.

ADVANCEMENT

HARDINESS STRENGTH CONTROL

VERSATILITY



NC SIEMENS mod. MTP-400



RM-220 E
with hydraulic cushion



RM-1000 E.
Cold stamping hydraulic press



RM-500 E
With CNC and hydraulic ejector



Interior detail

HIDROGARNE

Ctra. N-II Km. 496. Pol. Ind. Hostal Nou, 2
25250 BELLPUIG- LLEIDA - SPAIN
Tel. +34 973 320 666 - info@hidrogarne.com

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 37 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