

HIDROGARNE

Specialists in the manufacture of tailormade hydraulic presses

F SERIES



F SERIES

We have **designed** the F-series hydraulic presses **with five different power ranges, from 80 to 300 tonnes**.

Specifically designed **to perform work involving fretwork, deep-drawing, punching, bending, straightening, etc.**

The latest generation F series hydraulic presses **now feature a wide range of uses including the incorporation of equipment for bending and punching** and the possibility of **installing hydraulic cushion or hydraulic ejector**.

F-series hydraulic presses consist of an electro welded structure made solely of ST-52.3 steel. **They are machined at the end of the structural welding process** to ensure perfect parallelism and precision. **Calculated and designed by finite software with level 4 structural resistance**. With all of this, we always **guarantee our high precision and quality standards**.

The equipment features a **fixed bed** to ensure greater robustness.

Three different models are available:

FDM models: equipped with a fixed head and several heads may be installed on the same machine.

FLM models: equipped with a removable treaded head, featuring a manual locking system.

FLV models: equipped with a removable head operated by a wheel and a rack transmission system, featuring a manual locking system.

The **cylinder is double acting** with a lapping liner, chrome plunger and maintenance-free anti wear guides, **it's fitted with a removable and interchangeable hold-down plate** to avoid the deterioration of the plunger **and machined at the end to adapt tools**. **Anti-turning of the cylinder and a squared front with stroke endings come as standard** which enable us to conveniently **regulate the cylinder stroke**.

OPTIONAL ACCESSORIES:

- Front pressure regulator.
- Punching tools set for diameters from 6 mm up to 40 mm with anti-deformation elastic hold-down.
- Punching tools set for diameters from 6 mm up to 100 mm with anti-deformation elastic hold-down.
- Punching tools set for diameters from 6 mm up to 160 mm.
- 415 mm long folding tools set.
- 1020 mm long folding tools set, it includes 2 lateral guides to ensure the folding parallelism.
- Machined lower table with DIN-650 T-grooves.
- Machined upper table with 2 or 4 guides and DIN-650 T-grooves.
- Hydraulic cushion.
- Hydraulic ejector.
- Additional heads.
- Mechanical regulation of the cylinder (only available of 80 and 100 tons).
- Operation by two hands push button with level IV security module.
- Geometry adapted to your needs.

They **allow the installation of multiple headstocks in one machine**.

A **two-speed motorized hydraulic unit** with automatic high speed deactivation. It's equipped with a **cylinder decompression valve**.

The control panel features a **switch** enabling the user to select the desired type of work in a manual **or semi-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**.

They are supplied with machined support flat blocks, 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**.

All our hydraulic presses work with hydraulic pressure lower than 320 bar to ensure the greater durability of the hydraulic system as a whole.

Model	Power	Motor power	Working speed	Approaching speed	Return speed	Maximum pressure	Piston stroke	Head displacement	Frontal light	Lateral light	Max. vertical light	Bed 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
FDM-80	80	4	4	10	17	320	250	--	1.050	180	500	320	800	1.530	750	2.240	1.120
FDM-100	100	4	3	10	15	320	250	--	1.050	190	500	340	800	1.600	800	2.280	1.750
FDM-150	150	4	2	10	16	320	250	--	1.050	240	500	400	800	1.670	800	2.405	2.050
FDM-220	220	5.5	2	10	18	320	300	--	1.500	270	600	470	900	2.140	1.000	2.835	3.680
FDM-300	300	7.5	2	10	16	320	300	--	1.500	330	600	530	900	2.180	1.000	2.925	4.350
FLM-100	100	4	3	10	15	320	250	1.050	1.500	180	500	340	800	2.050	800	2.375	2.170
FLM-150	150	4	2	10	16	320	250	1.000	1.500	240	500	400	800	2.120	800	2.470	2.680
FLV-220	220	5.5	2	10	18	320	300	950	1.500	280	600	480	900	2.140	1.000	2.835	3.720
FLV-300	300	7.5	2	10	16	320	300	900	1.500	330	600	530	900	2.180	1.000	2.925	4.390

ADVANCEMENT

HARDINESS STRENGTH CONTROL

VERSATILITY



Punching tools set for diameters from 6 mm up to 40 mm with anti-deformation elastic hold-down



Punching tools set for diameters from 6 mm up to 160 mm.



Mechanical regulation of the cylinder



415 mm long folding tools set



1020 mm long folding tools set



FDM80/3 E three independent headstocks



FDV-220/2 E two simultaneous work stations



FLM-100 sliding headstock to work with different dies

HIDROGARNE

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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