

# 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           | 3.8           | 9.8               | 14.2         | 320              | 250           | --                | 1.050         | 180           | 500                 | 320       | 800            | 1.530       | 750           | 2.240        | 1.120  |
| FDM-100 | 100   | 4           | 3.1           | 9.2               | 14.4         | 320              | 250           | --                | 1.050         | 190           | 500                 | 340       | 800            | 1.600       | 800           | 2.280        | 1.750  |
| FDM-150 | 150   | 4           | 2             | 9.9               | 15.4         | 320              | 250           | --                | 1.050         | 240           | 500                 | 400       | 800            | 1.670       | 800           | 2.405        | 2.050  |
| FDM-220 | 220   | 5.5         | 2.2           | 9                 | 16.2         | 320              | 300           | --                | 1.500         | 270           | 600                 | 470       | 900            | 2.140       | 1.000         | 2.835        | 3.680  |
| FDM-300 | 300   | 7.5         | 2             | 9.9               | 14.7         | 320              | 300           | --                | 1.500         | 330           | 600                 | 530       | 900            | 2.180       | 1.000         | 2.925        | 4.350  |
| FLM-100 | 100   | 4           | 3.1           | 9.2               | 14.4         | 320              | 250           | 1.050             | 1.500         | 180           | 500                 | 340       | 800            | 2.050       | 800           | 2.375        | 2.170  |
| FLM-150 | 150   | 4           | 2             | 9.9               | 15.4         | 320              | 250           | 1.000             | 1.500         | 240           | 500                 | 400       | 800            | 2.120       | 800           | 2.470        | 2.680  |
| FLV-220 | 220   | 5.5         | 2.2           | 9                 | 16.2         | 320              | 300           | 950               | 1.500         | 280           | 600                 | 480       | 900            | 2.140       | 1.000         | 2.835        | 3.720  |
| FLV-300 | 300   | 7.5         | 2             | 9.9               | 14.7         | 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

Ctra. N-II Km. 496. Pol. Ind. Hostal Nou, 2  
25250 BELLPUIG- LLEIDA - SPAIN  
Tel. +34 973 320 666 Fax +34 973 321 312  
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 **30 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](http://www.hidrogarne.com)

F SERIES F SERIES F SERI