

Power available depending on the force applied to the lever arm

Rack press	2HR	3HR	4HR	14HR	50HR
Load applied perpendicularly to the lever of the press in kg	Power restored by the press in the direction of the slider in kg				
10	75	135	202	485	1 725
20	150	270	405	970	3 450
25	186	340	525	1 210	4 310
30	225	412	625	1 480	5 120

2HR - 3HR - 4HR

Rack presses

The power is linear and constant over the whole travel according to the applied load on the lever.

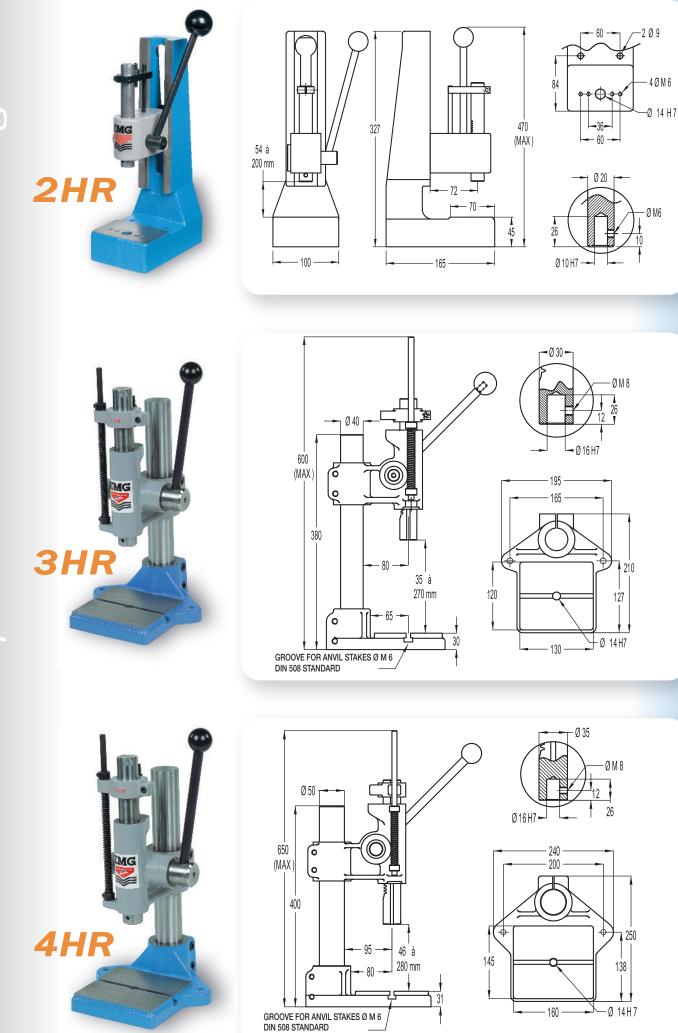
These presses are robust, accurate, flexible and ergonomic. These are frequently used for assembly, connections of rings or bearings, small forms, various crimping operations, etc...

- Slider adjusted and locked for rotation, ensuring longevity and precision.
- Automatic raising of the slider by spring (adjustable tension, except 2HR).
- Quick and reliable adjustment of the clear height.
- Accurate adjustment of bottom dead center by a mechanical stop ensuring the repetitiveness of the cycle.
- Adjustment of the starting position of the lever in order to optimize ergonomy of the press.
- Base support and press head made of FGL 250 cast iron, thus ensuring robustness and rigidity.
- Predisposition for fixation on a bench.
- No maintenance, no greasing.
- Paint: Frame in sky blue, RAL 5015 Tête Gris Platine RAL 7036.



Technical characteristics:

	2HR	3HR	4HR
Power (kg)	200	400	600
Travel (mm)	0 à 50	0 à 80	0 à 100
Adjustable clear height (mm)	54 à 200	35 à 270	46 à 280
Swan-neck depth (mm)	72	80	95
Angle of rotation per mm of travel	4°58	4°02	3°37
Slider bore (mm)	10H7 x 24	16H7 x 26	16H7 x 26
Table bore	14H7	14H7	14H7
Table (mm)	100 x 70	130 x 120	160 x 145
Weight (kg)	8	17	25



> Options

Counter

5 digit counter with reset function..



BDC micrometric adjustment

Bottom dead center adjustment system, graduated after every 0.02mm.



Quality control by force and/or displacement sensors

EMG proposes management solutions regarding force and/or displacement thanks to its force and displacement sensor solutions which can be adapted as per the requirement for a 100% control.



Anvil stakes

Set of 2 anvil stakes for securing the tools in T slots.

• Collet

Collet chuck with ER25 collet for \emptyset 1.5 to \emptyset 16 mm shank (\emptyset to be selected).



• Capstan: travel + 100 mm, clear height increased

For bigger parts, possibility to increase the 100 mm travel (on the 4HR model), change the column to increase the clear height and replace the level by a 3-arm capstan.

4HR press with 200mm travel, clear height +600 mm and 3-arm capstan.

Non return system

Non return system : does not release the lever until the end of travel (ensures complete and repeatable execution of the operation).



Zinc dichromate plated press

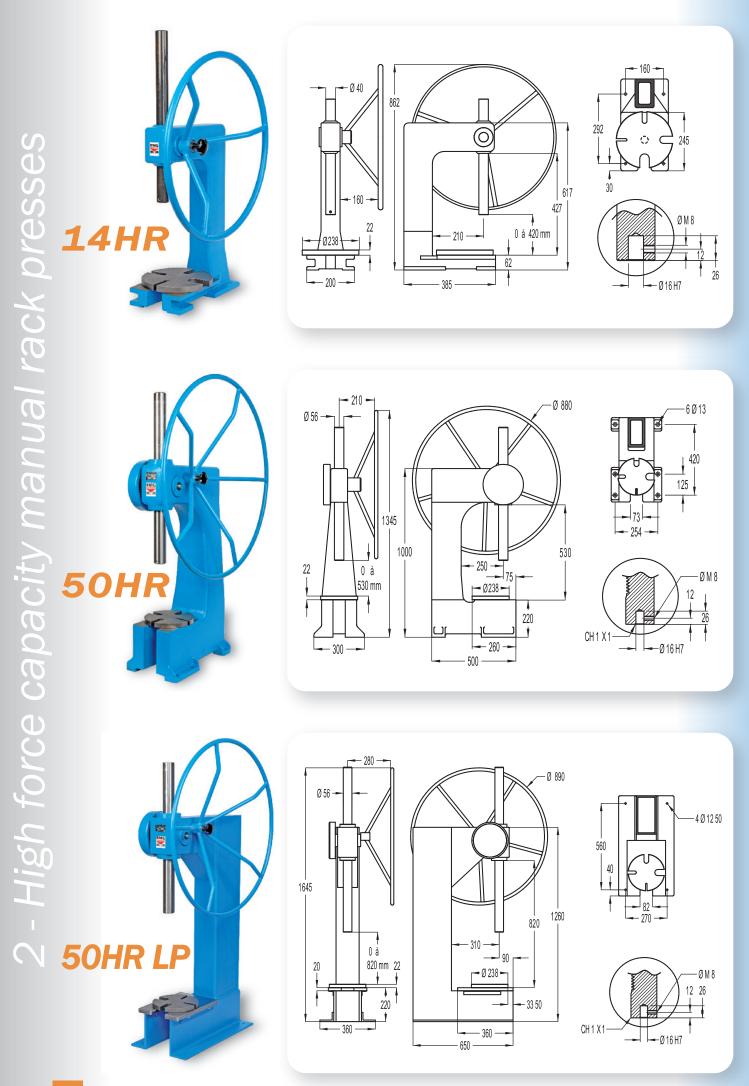
Laboratory press totally zinc dichromated. Zinc coating is possibly the most used coating in the world of anticorrosion. It involves benefitting from the exceptional properties of zinc for protecting a part against external attacks. The method of application is electroplating. Ideal when using in a "Saline mist" type environment or to avoid pollution in the laboratory caused by the paint and/or standard greasing of our machines.



Additional options

- On request: special bores, press head only.
- Special RAL paint.
- Locking of the press head on the column for rotation.
- Engage the press when in position and release by lever.
- Special services on request (press modifications, small tooling and fitting).





8 General Catalog - Presses EMG

2 - High force capacity manual rack presses

14HR - 50HR - 50HR LP

Rack presses

The power is linear and constant over the whole travel according to the applied load on the capstan.

These models complete the range of rack presses. These presses, strongly built, propose significant power throughout the travel thanks to the high quality tempered steel pinions.

These models are used for assembly, connections and deep fitting, especially for applications requiring a significant travel and/or a significant clear height.

- Control by 3-arm capstan or wheel.
- Slider adjusted and locked for rotation, ensuring longevity and precision.
- Tempered steel pinion.
- Cast iron or mechanically welded frame ensuring robustness and rigidity.
- Option for fixation on a bench.
- Removable circular table.
- Maintenance by grease nipple.
- Sky Blue paint RAL 5015.



of stroke of clear height of swan-neck

Technical characteristics:

	14HR	50HR	50HR LP
Power (kg)	1 400	5 000	5 000
Travel (mm)	0 à 420	0 à 530	0 à 530
Clear height (mm)	420	530	820
Swan-neck depth (mm)	210	250	300
Angle of rotation per mm of travel	2°86	12°74	12°74
Slider bore (mm)	16H7 x 26	16H7 x 26	16H7 x 26
Table (mm)	240 x 200	210 x 250	250 x 360
Table recess (mm)	55 x 90	70 x 120	82 x 115
Ø rotating table	238	238	238
Weight (kg)	45	145	145

Additional options

- On request: special bores.
- Special RAL paint.
- Travel end stop.

 Special services on request (press modifications, small tooling and fitting).





> Special services

In order to comply with the requirements of specific applications required by some professions, EMG proposes special tailor-made equipments, perfectly adapted to specifications and production constraints.

Thanks to its design department and a pool of more than 40 machines, EMG studies and carries out, on request, modifications or production of special presses as well as small fittings and press tooling.

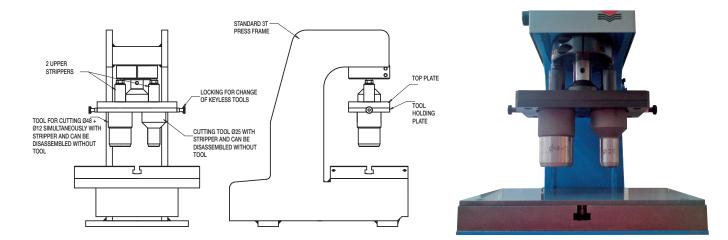


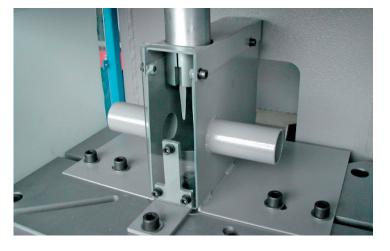
Offset 7HR press

Offset 7HR toggle press allowing increasing the swan-neck depth and work table.

Cutting tooling on 3T press

3T pneumatic press with a cutting tooling at 2 positions integrating an upper stripper for separating the parts.

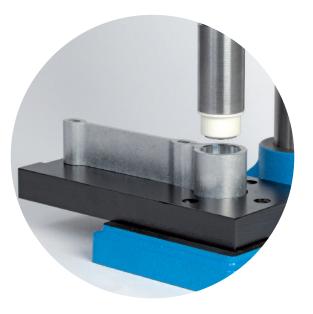




Embedded cutting tool

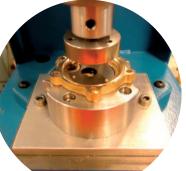
6T mechanical press with an embedded tool for cutting to the length of the steel cables. The access to dangerous zones being completely prohibited, the operator can work with the pedal while keeping the hands free to carry the cable forward.





Tooling of assembly of ring on 3HR

3HR rack presses with a tooling intended for assembly of plastic rings on an aluminium part, with a ring system on the tool before attachment.



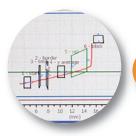
EMG

3 point crimping tool

6PHR pneumatic press with a crimping tooling of 3 rivets for retaining a steel part in a stainless steel support.

Tooling for fitting shaft in an aluminium profile on press 3t LP

- Modification of the frame for the passage of profile
- Study and realization of tooling



> Force management

The quality guaranteed by monitoring the industrial processes

- > Permanent quality control
- > Product process control
- > Total traceability
- > Monitoring the production

The quality assurance goes through a permanent process check. The EMG presses, equipped with the force and / or displacement sensor allowing production of compliant parts from the start of the production process.

The detection of anomalies is immediate if the requested parameters are not met, the monitoring unit delivers an "OK" or "NOK" message by means of an optical display, a sound signal, or by locking the press in position.

This signal allows the operator to immediately isolate the defected part.

The information is stored in the control unit and can be exported to a PC for analysis, statistics or archiving.

Delivered in a ready to use condition, these systems are available in many versions depending on the complexity of the operations to be controlled and its precision.



• 2 - System for measuring the force allowing the display of the power attained and the storage of the crest value. The signalling of OK or NOK parts is carried out by configuring the min. and max, force thresholds.



 3 - System for measuring force and displacement with analysis by envelope curve. The programming is carried out by a PC using the software provided by EMG.

Several results are available for processing of information regarding "OK parts" or "NOK parts".

The results are exportable to a PC for statistical analysis and data archiving.

This system can manage various different productions.



Pneumatic press equipped with a COMPLETE control system of measuring force and displacement, analysis of curves by passage windows or margin of tolerance.



- Ideal for riveting, crimping and attaching small and medium series
- 100% control
- Immediately operational system (except tooling)
- Facilitated implementation
- Training of users



Electric press equipped with a force and a displacement sensor, associated with the process controller and an 8" display terminal.

• 4 - System for measuring force and displacement with analysis by envelope curve. The programming is carried out by a PC panel integrated into the machine.

- Direct display of the force curve on the screen

TOTAL

QUALITY

- Red visual signalling on the screen if the part is NOK
- Several configurable results are availale for processing of information regarding "OK parts" or "NOK parts".
- Statistical analyses, archiving of curves (viewable and exportable)
- This system can manage various different productions.



Displacement sensor





Measurement amplifier

Irrespective of your requirement, EMG will propose you the solution adapted to your process and your budget.

Classical example of operation: It is necessary to configure the windows through which the curve carried out by a type part will pass (displacement in x, force in y with max. 9 windows).

As long as the curve made goes through the defined windows, the press operates normally and a green light validates each cycle. If during the operation, the curve does not go through the predefined windows, the press is locked during restart and emits a sound signal (buzzer). After having isolated the defected part, the operator will rearm the system by a support on a push button and can thus continue with the production.

A mark of excellence in productivity

EMG has earned its reputation of excellence thanks to its integrated design and production methods and a solid technological prowess. This is backed up by an efficient distribution network, in compliance with the expectations of manufacturers.

Benefitting from a strategy dedicated to quality and active search of performances, EMG equipments ensure competitivity, reliability and durability which are the core values for productivity of companies in numerous domains:

- Watchmaking, jewellery,
- Mechanical optics,
- Electrical equipments,
- Automotive industry,
- Electrical goods, toys,
- Locksmithing...



"Some important points" from standard to custom-made

The various operations are executed carefully thanks to the power reserve of each model and a precision of a very rigorous assembly.

The entire EMG range offers a wide range of options and adaptations to satisfy the requirements of each application: LONG thus undertakes to design and equip special machines required by the specific activities of each and every profession.

ISO-9001 certified since 2000, EMG presses are delivered along with a user manual, EC compliance certificate and drawings. They come with full one year warranty - parts, labour and replacement.

Drawing

Cutting-out

Riveting

Developing breakthrough technology for the last 50 years

Manufacturer with a well-recognized expertise, EMG has developed, for the last 3 generations, a wide range of products and services appreciated by the manufacturers all around the world.

Used successfully since 1966 in numerous industry sectors, EMG presses have been the most reliable partner of manufacturers, offering equipments synonymous to precision and durability.

Integrated production and skills

The production workshops facilitate integrated production from A to Z ensured by a multidisciplinary team proficient in all the production steps, from designing to complex mechanical operations and assembly with precision, going through various machining operations: milling, turning, surface or cylindrical grinding. EMG also integrates thermal or surface treatment, mechanised-welding with machining, or paint.





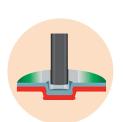




EMG test space for your samples

EMG proposes for its customers, at its headquarters, a showroom and a test laboratory related to the production workshops, allowing using and handling all our models.

It is this department where all the tests on presses are carried out from the samples submitted by our customers and potential customers.



Assembling



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> EMG presence in France and around the world

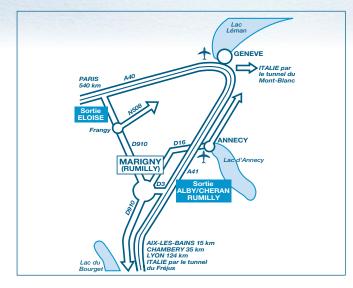
Presence across 5 continents with a strong and reliable chain of distributors, manufacturers or retailers selected by EMG which are locally recognized for their experience and quality-oriented service.

In France, our techno-commercials are also machine-tool experts, regularly trained on newer versions of the equipments and accessories.

Within its distribution and sales network, all our representatives are specialists, thus ensuring the best possible suggestions and the quality offered by EMG manufacturer







EMG is set up in Haute-Savoie, a department on the border with Switzerland and Italy, and benefits from double advantage of an exceptional environment among lakes and mountains and a privileged commercial activity at the heart of Rhône-Alpes, second best French region and one of the most significant in European union.

Each EMG customer and partner throughout the world benefits, thanks to the equipments and services proposed by the brand, from a standard and a technical know-how inherited from a long industrial tradition and a permanent culture of research and development.



