



Manual Rack Presses

from 200 to 5,000 kg



Power available depending on the force applied to the lever arm

MANUAL RACK PRESSES	2HR	3HR	4HR 4HRLP	4HR C-MAX	14HR	18HR	50HR 50HRLP	50HR LPTR
Static power exerted on the lever in kg	Power restored by the press in the direction of the slider in kg							
5	35	60	90	90	110	190	350	350
10	75	120	180	180	220	380	700	700
15	110	180	270	270	330	570	1050	1050
20	150	240	360	360	440	760	1400	1400
25	185	300	450	450	550	950	1750	1750
Maximum permitted power by the press	200	400	600	600	1400	1800	5000	5000

Manual Rack Presses

from 200 to 600 kg

Rack Presses

2HR - 3HR - 4HR - 4HRLP - 4HR C-MAX

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 ergonomics 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
Sky Blue paint RAL 7036.



TECHNICAL CHARACTERISTICS:

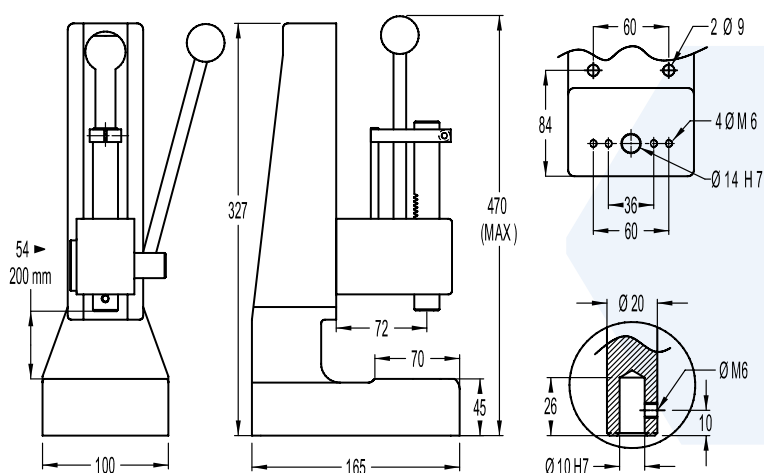
	2HR ↓	3HR ↓	4HR ↓	4HRLP ↓	4HR C-MAX ↓
Power (kg)	200	400	600	600	600
Travel (mm)	0 ▶ 50	0 ▶ 80	0 ▶ 100	0 ▶ 100	0 ▶ 100
Adjustable clear height (mm)	54 ▶ 200	35 ▶ 270	46 ▶ 280	30 ▶ 400	95 ▶ 305
Swan-neck depth (mm)	72	80	95	155	350
Angle of rotation per mm of travel	4°58	4°02	3°37	3°37	3°37
Slider bore (mm)	10H7 x 24	16H7 x 26	16H7 x 26	16H7 x 26	16H7 x 26
Table bore (mm)	14H7	14H7	14H7	14H7	14H7
Table (mm)	100 x 70	130 x 120	160 x 145	210 x 220	250 x 250
Weight (kg)	8	17	24	38	95

Manual Rack Presses

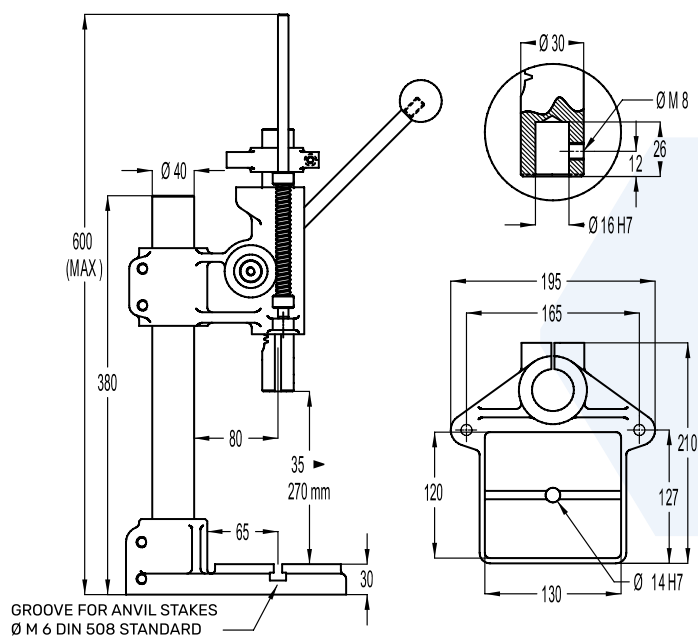
from 200 to 600 kg



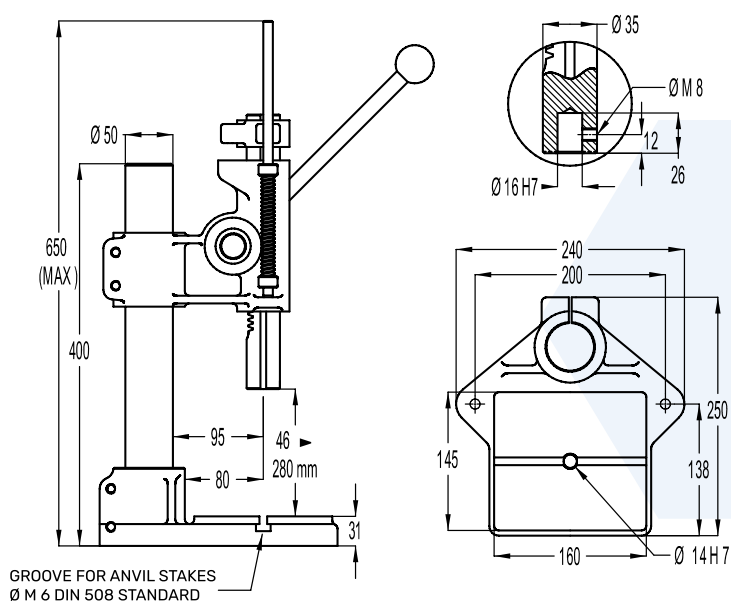
2HR



3HR



4HR

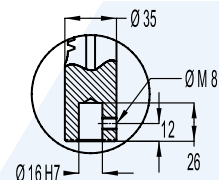
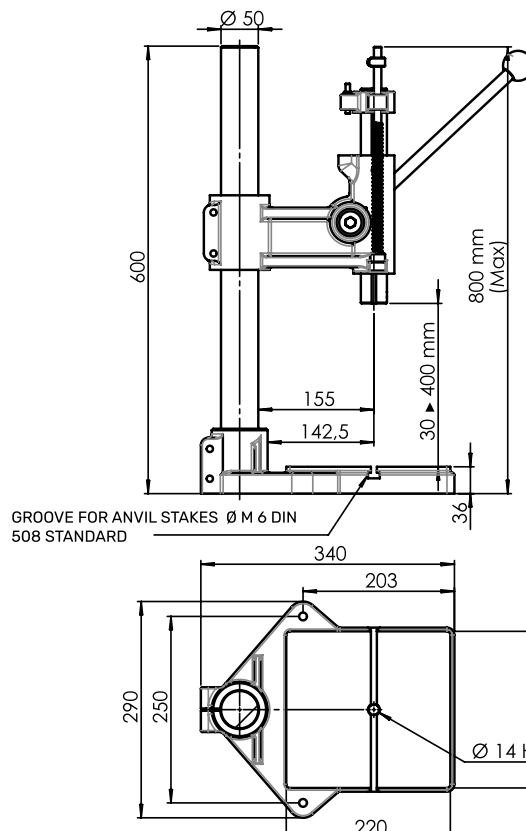


Manual Rack Presses

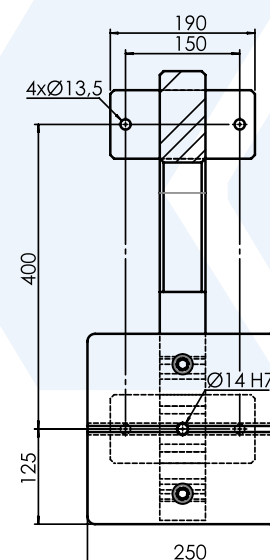
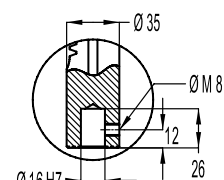
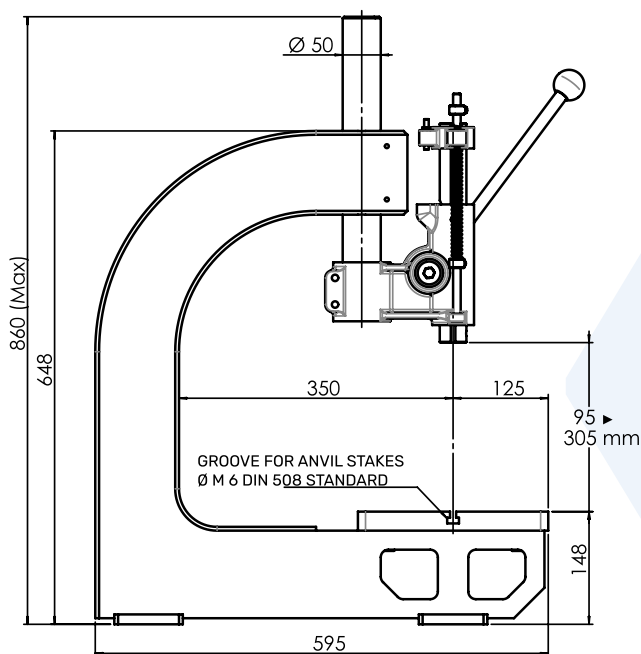
from 200 to 600 kg



4HRLP



4HR C-MAX



Manual Rack Presses

HYGIENIC VERSIONS

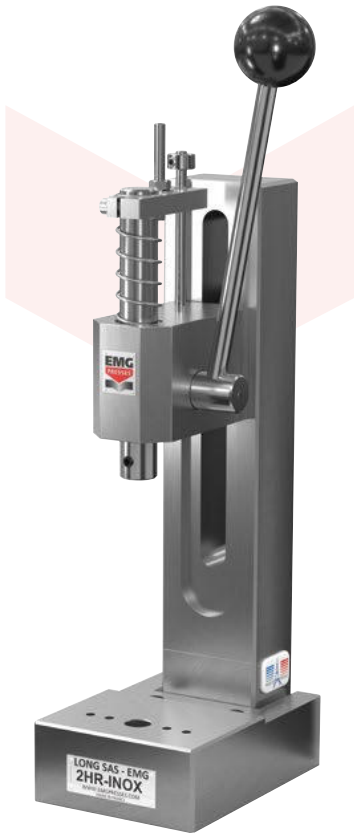
Press Version, Stainless Steel

2HR INOX - 3HR INOX - 4HR INOX

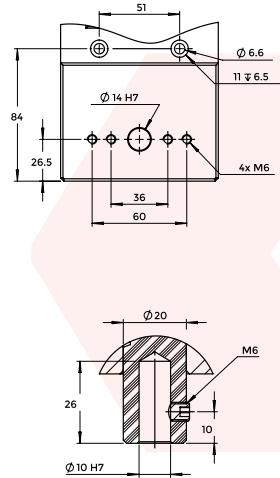
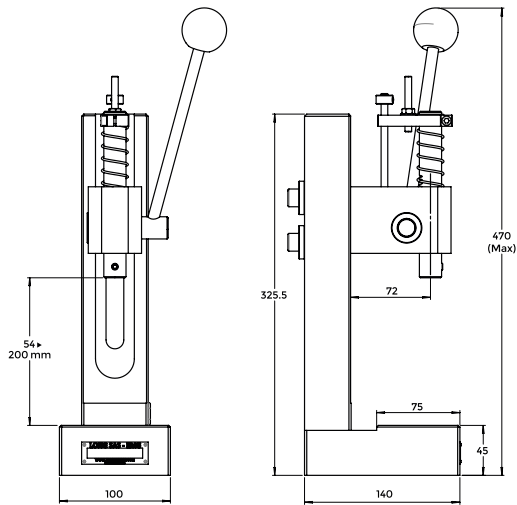
Stainless steel is required by the food, pharmaceutical, parachechemical and cosmetic industries for obvious hygiene reasons, as the production environment is subject to repeated and powerful cleaning to avoid contamination.

TECHNICAL CHARACTERISTICS:

	2HR INOX	3HR INOX	4HR INOX
Power (kg)	200	400	600
Travel (mm)	0 ▶ 50	0 ▶ 80	0 ▶ 100
Adjustable clear height (mm)	54 ▶ 200	35 ▶ 270	46 ▶ 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 (mm)	14H7	14H7	14H7
Table (mm)	100 x 75	140 x 130	170 x 160
Weight (kg)	12	20	29



Other models in the EMG range are available in a stainless steel version on request.

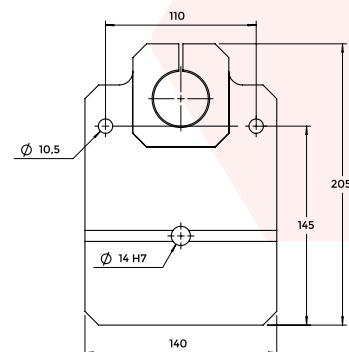
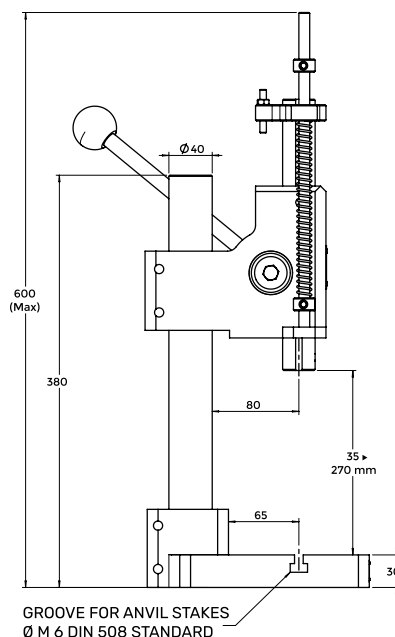


Manual Rack Presses

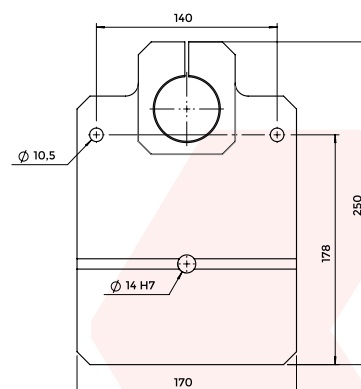
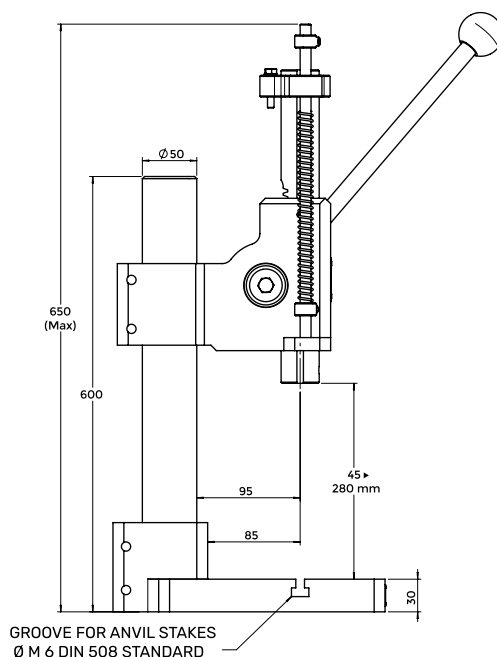
HYGIENIC VERSIONS



3HR INOX



4HR INOX

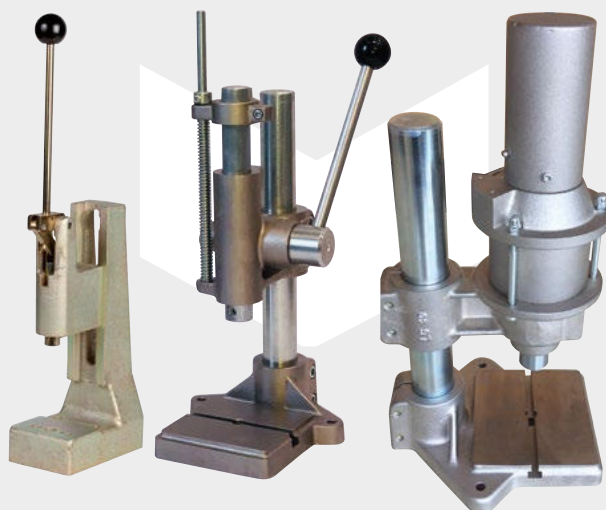


Zinc/Nickel Version Press

Fully zinc-plated and/or nickel-plated laboratory press.

These treatments are the most commonly used in the world of anticorrosion. It is a question of taking advantage of their exceptional properties to protect a part against external aggressions.

Ideal for use of the press in "Salt Spray" type atmospheres or to avoid pollution of a laboratory by the standard paint and/or lubrication of our machines.



Options

COUNTER

5 digit counter with reset function.



BDC MICROMETRIC ADJUSTMENT

Bottom dead center adjustment system, graduated every 0.02mm.



QUALITY CONTROL BY FORCE AND/OR DISPLACEMENT SENSORS

EMG offers 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.



See
pages 20-21

ANVIL STAKES

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



COLLET

Collet chuck with ER25 collet for Ø1.5 to Ø16 mm shank (Ø to be selected).



CAPSTAN: TRAVEL + 100 MM, CLEAR HEIGHT INCREASED

For larger 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).

Working stroke :
from 0 to 88 mm.



Additional options ///

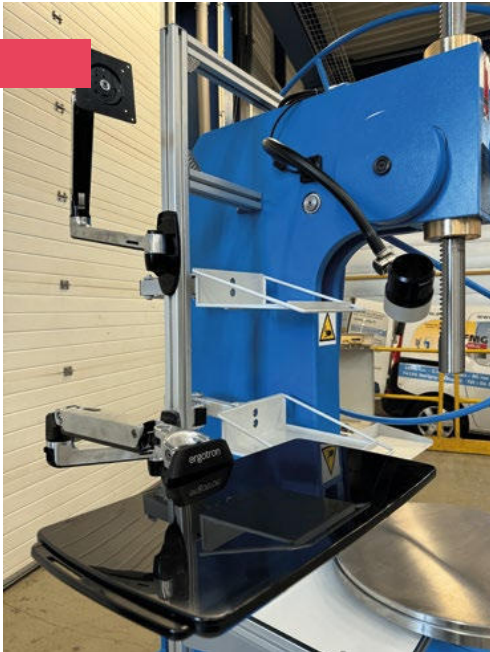
- On request: special bores, press head only.
- Special RAL paint.
- Locking of the press head on the column for rotation.
- Special services on request (press modifications, small tooling and fitting).

See pages 52 to 55

Made-to-measure products

Manual presses dedicated to aerospace markets

The need for power and precision: EMG Presses manufactures special presses tailored to the specific requirements of the aeronautical sector, in response to particularly high technical and ergonomic demands.



Tailor-made presses for the aerospace industry

Tailor-made solutions from EMG Presses

Working on large parts requires a high level of force with minimal effort on the handwheel to ensure a perfectly ergonomic workstation.

The frames are ideally designed to meet the requirements of free height and gooseneck depth, while offering the rigidity and geometry needed to carry out the operations correctly.

Here are just a few examples of the optional features available:

- Precision guides on perfectly fitting bronze bushes
- A height-adjustable table to suit different part sizes and operators, or completely customised tables
- A dedicated shelf for the computer keyboard and a support for the screen to optimise the workspace and ensure optimum ergonomics.
- A precision lamp, essential for operations requiring meticulous alignment and adjustment of components.
- Gear reduction systems to restore a high level of effort with less effort on the handwheel, or to increase the speed of movement of the ram.



High Force Capacity Manual Rack Presses

from 1,400 to 5,000 kg

High Force Capacity Manual Rack Presses

14HR - 18HR - 50HR - 50HRLP - 50HRLPTR

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, offer 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.



TECHNICAL CHARACTERISTICS:

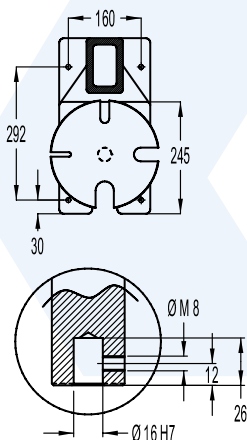
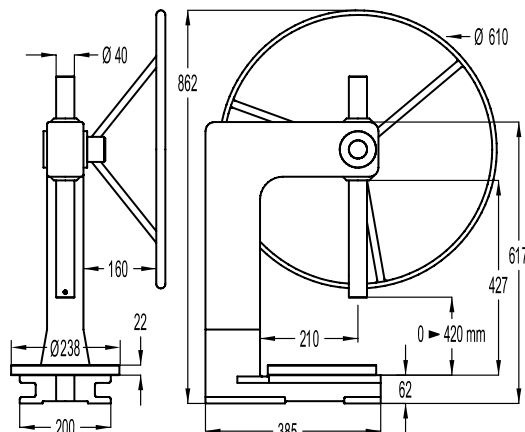
	14HR ▼	18HR ▼	50HR ▼	50HRLP ▼	50HRLPTR ▼
Power (kg)	1 400	1 800	5 000	5 000	5 000
Travel (mm)	0 ► 420	0 ► 420	0 ► 530	270 ► 800	530
Clear height (mm)	420	420	530	800	415 ► 1015
Swan-neck depth (mm)	210	210	250	310	300
Angle of rotation per mm of travel	3°	9°7	12°	12°	12°
Slider bore (mm)	16H7 x 26	16H7 x 26	16H7 x 26	16H7 x 26	16H7 x 26
Table (mm)	240 x 200	240 x 200	210 x 250	250 x 360	250 x 360
Table recess (mm)	55 x 90	55 x 90	70 x 120	82 x 115	82 x 115
Ø rotating table	238	238	238	238	238
Weight (kg)	45	50	145	145	210

High Force Capacity Manual Rack Presses

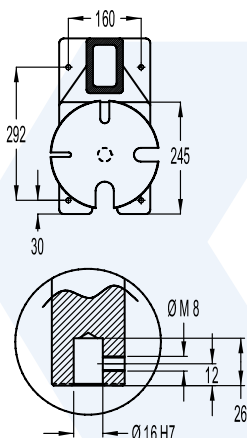
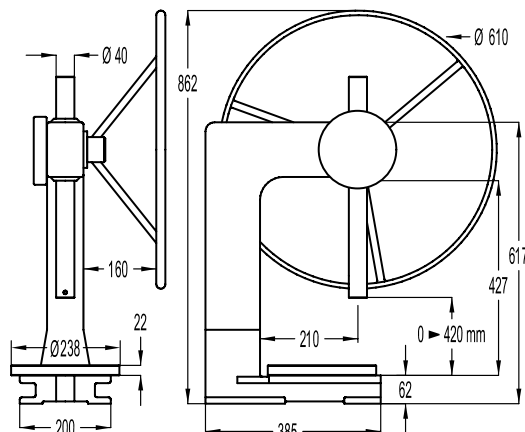
from 1,400 to 5,000 kg



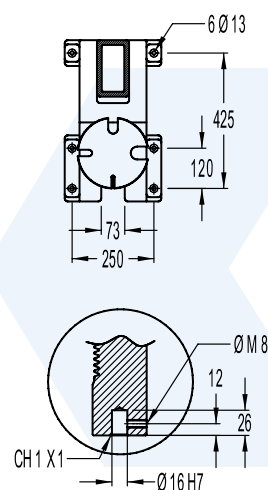
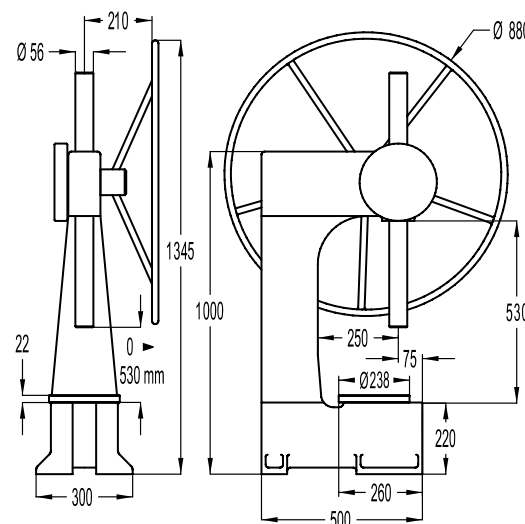
14HR



18HR



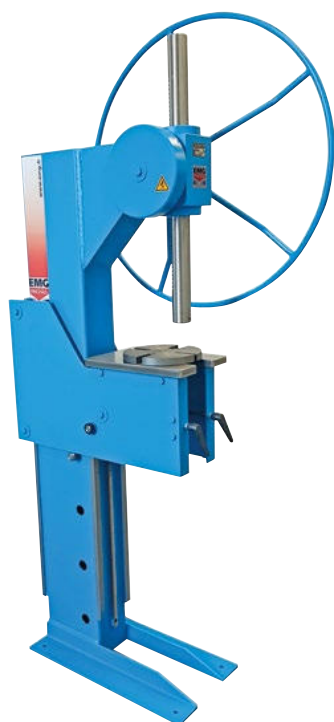
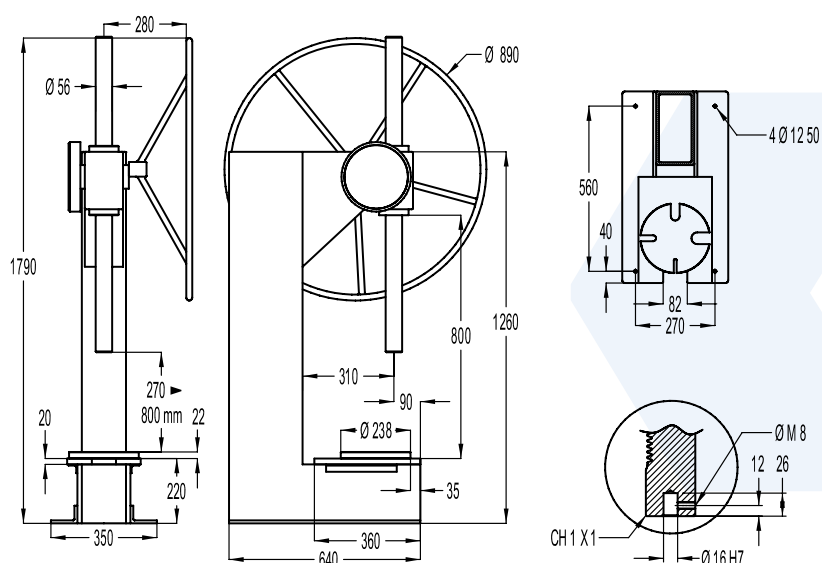
50HR



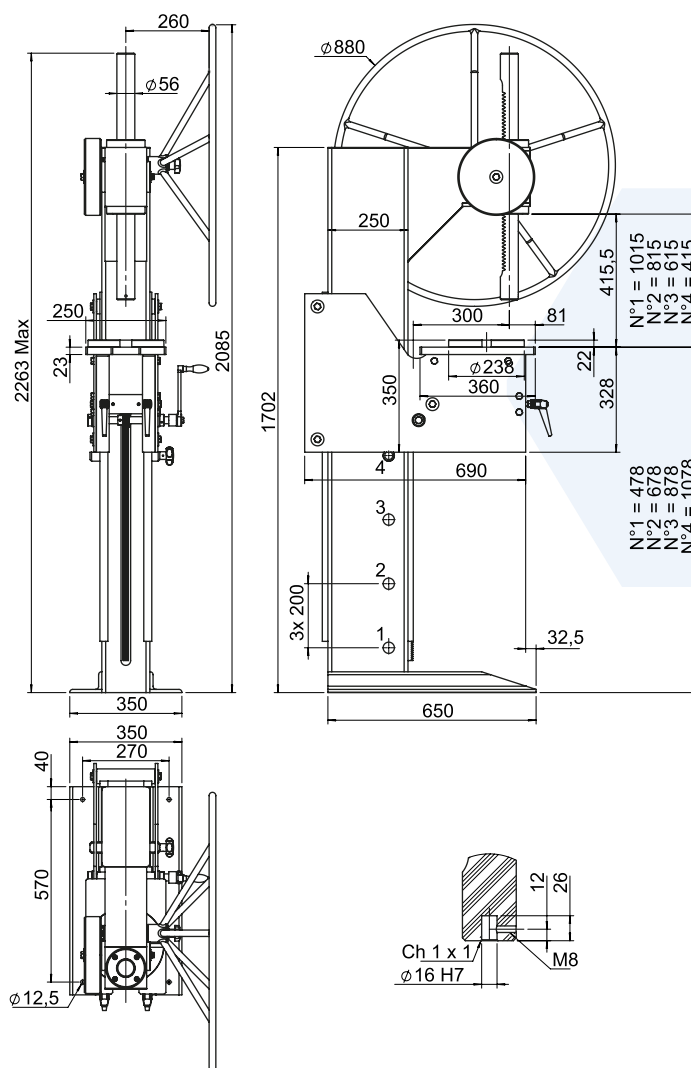
from 1,400 to 5,000 kg



50HRLP



50HRLPTR



Options

SUPPORT BASE FOR 14HR OR 18HR PRESSES



The press support base for the 14HR and 18HR models allows you to design an ergonomic workstation. Its height is 850 mm (table/floor) and its size is 550 x 400 mm.

50HR PRESS SUPPORT BASE



The press support base for the 50HR model allows you to design an ergonomic workstation. Its height is 690 mm (table/floor) and its size is 650 x 500 mm.

STROKE LIMITING COLLAR



The stroke limiting collar is a mechanical stop that limits the working stroke.

Special services

50HR LP PRESS, CLEAR HEIGHT 1600 MM AND EFFORT REDUCTION SYSTEM ON THE WHEEL



EMG, manufacturer of industrial machines, offers special equipment made to measure, and perfectly adapted to the specifications and constraints of production

