



## Pneumatic presses from 360 to 6,000 kg

### Pneumatic presses

**6PHR - 8PHR - 1T - 1T LP  
2T - 3T - 4,3 T  
2T LP - 3T LP - 4,3T LP - 6T LP**

The range of EMG pneumatic presses completes the range of manual presses and perfectly complies with the customer requirements when the stroke rates are more significant and/or the power to be restored is high.

Single or continuous stroke, the range of EMG pneumatic presses is integrated into the workstations or production line, ensuring Ergonomy - Operator safety - Process reliability.

2 pneumatic presses range:

- Direct push double effect presses from 360 kg to 1t
- Indirect push double effect presses from 2t to 6t

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 load of the cylinder when controls released
- Quick and reliable adjustment, with locking ensuring perfect repetitiveness.
- Accurate adjustment of bottom dead center by a mechanical stop ensuring the repetitiveness of the cycle.
- Cast iron FGL 250 or mechanically welded frame ensuring robustness and rigidity.
- No maintenance, no greasing.
- Paint: Sky blue RAL 5015 frame - Platinum grey RAL 7036 press head.

All cylinders are manufactured by EMG and have millions of users across the world which ensures their exceptionally good quality. The slider is made of chromated steel set on rings and locked for rotation by a key. The piston slides effortlessly in the chromated cylinder, seals ensuring perfect sealing of the cylinder.

The power of our presses is indicated with a pressure at 6 bars and is proportionally adjustable as a standard from 3 to 6 bars.

*E.g.: the 6PHR press delivers 360 kg at 6 bars, and thus 180 kg at 3 bars, 240 kg at 4 bars and 300 kg at 5 bars.*

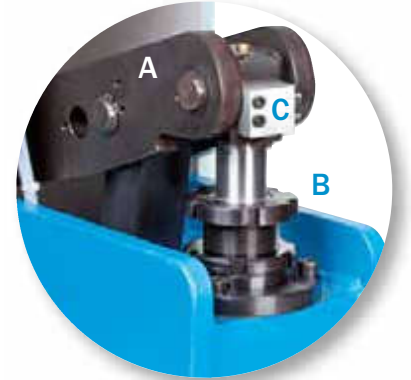




## 2 - Indirect push double effect presses from 2 to 6 t

In order to obtain significant power with a lesser air consumption, EMG proposes a range of pneumatic presses with force multiplication by the principle of lever arm. This range of press is divided into 2 types of frames: standard or large passage LP.

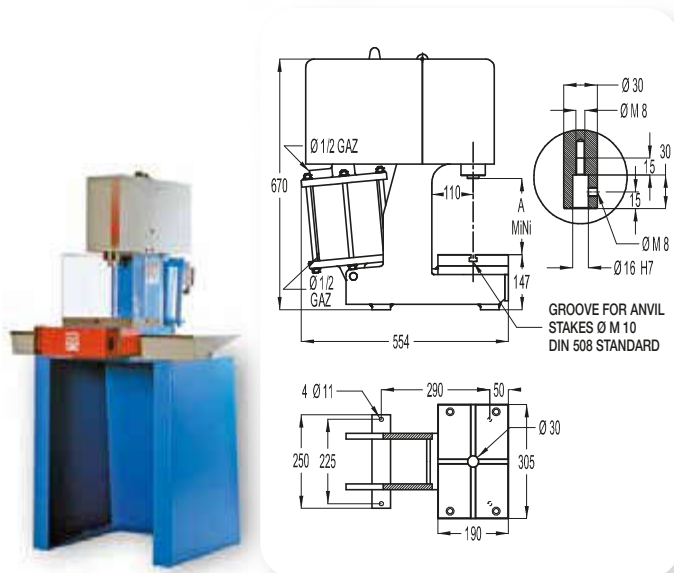
	2T	3T	4,3T
Power (kg)	2 000	3 000	4 300
Travel (mm)	0 to 69	0 to 54	0 to 40
Minimum clear height (A in mm)	200	180	175
Swan-neck depth (mm)	110	110	110
Slider bore (mm)	16H7 x 30	16H7 x 30	16H7 x 30
Table bore (mm)	30	30	30
Table (mm)	305 x 190	305 x 190	305 x 190
Press speed (mm/sec.)	75	48	26
Air consumption (l.)	5,2	5,2	5,2
Weight (kg)	150	150	150



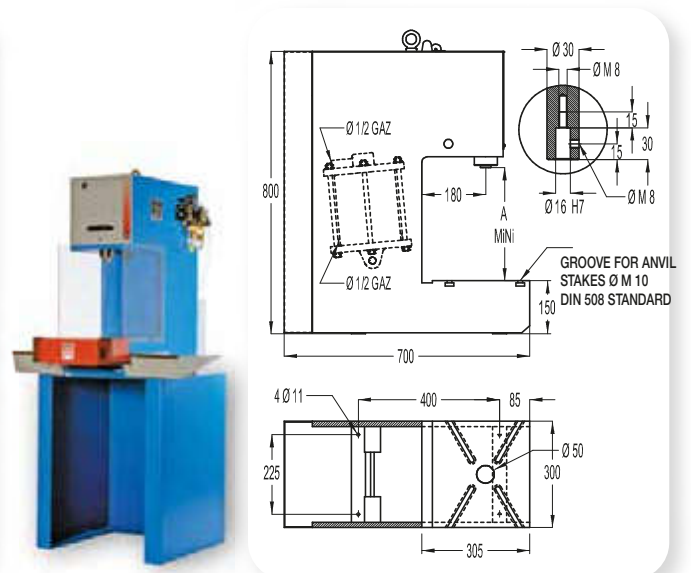
A : View of the lever arm.  
B : View of the mechanical stop.  
C : BDC timeout info sensor.

	2T LP	3T LP	4,3T LP	6T LP
Power (kg)	2 000	3 000	4 300	6 000
Travel (mm)	0 to 69	0 to 54	0 to 40	0 to 50
Minimum clear height (A in mm)	315	300	295	305
Swan-neck depth (mm)	180	180	180	180
Slider bore (mm)	16H7 x 30	16H7 x 30	16H7 x 30	16H7 x 30
Table bore (mm)	50	50	50	50
Table (mm)	300 x 295	300 x 295	300 x 295	300 x 295
Press speed (mm/sec.)	75	48	36	20
Air consumption (l.)	5,2	5,2	5,2	9,8
Weight (kg)	200	200	200	230

### 2T - 3T - 4,3T



### 2T LP - 3T LP - 4,3T LP - 6T LP



## > Versions of control for pneumatic presses



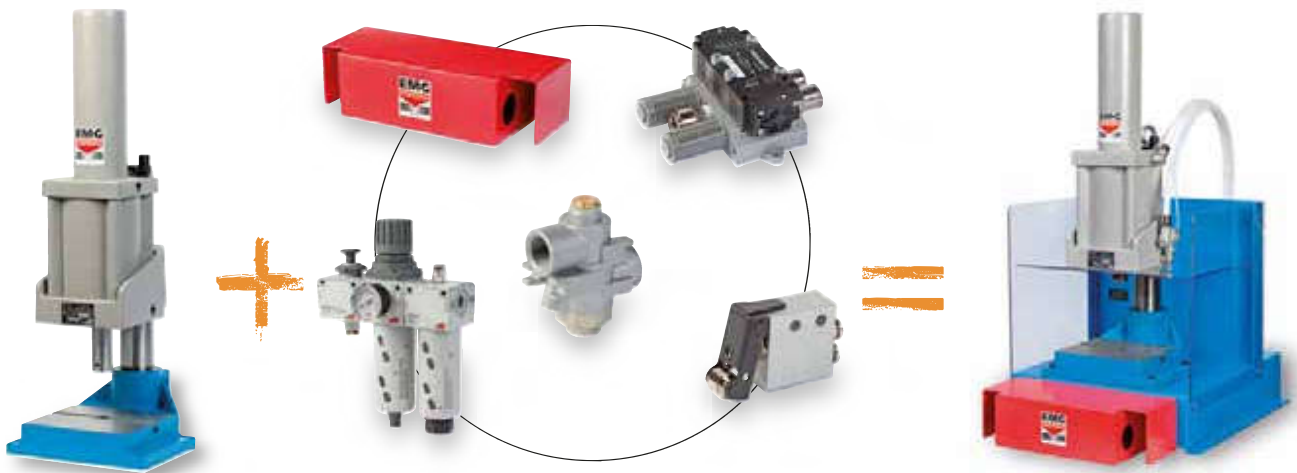
- **Version 1:** intended for integration by the customer

Only machine delivered, no controls, no equipment.

- **Version 2:** running condition with two hand controls

Version 1 + :

- Two hand controls with push buttons.
- Protection of side and top tables.
- Distributor, check valve, control valve of protection cover and pneumatic fittings.
- Regulation and lubrication filter (lockable).

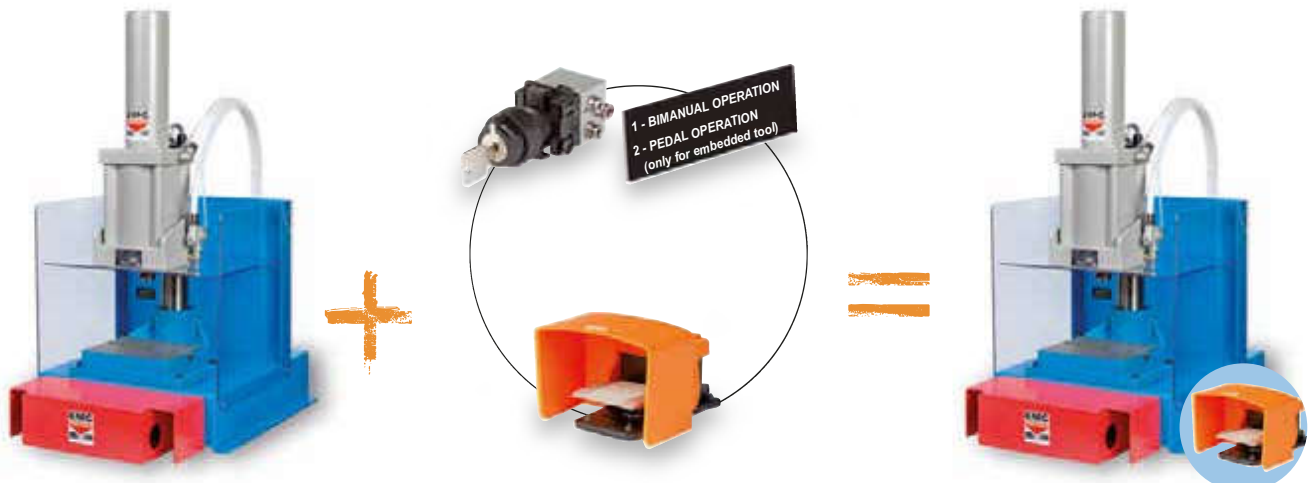


- **Version 3:** running condition with two hand or pedal controls

Version 2 + :

- Pedal control for embedded **tool work\***
- 2-position key selector.

*\*Definition: The embedded tools must be intrinsically safe. Their corresponding openings and safety distances must be in compliance with the standards in force or must not exceed 6 mm. Any risk of additional deformation outside the embedded tools must be avoided.*



## > Options

### • Additional regulator

Additional regulator allowing working with a pressure from 0.5 to 6 bars.



### • 3% regulator

Power regulator, adjustable from 0.5 to 6 bars with dial pressure gauge ensuring a repetitiveness of the cycle and precision up to 3%.



### • 1% regulator

Power regulator, adjustable from 0.5 to 6 bars with digital pressure gauge ensuring a repetitiveness of the cycle and precision up to 1%.



### • 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.



### • Counter

5 digit counter with reset function



### • Exhaust filter

Complete exhaust filter system for reduction in pollution and noise levels (75dB instead of 85).



### • Exhaust restrictor

Press speed regulation by exhaust restrictor.



- **BDC micrometric adjustment**

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



- **Anvil stakes**

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



- **Collet**

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



- **Base support and lateral panels**

Press base support and set of 2 350x250 mm side panels.

These accessories allow designing a very ergonomic workstation:

- Legs passage 450 mm.
- Height of base support 730 mm (755 mm with anti-vibration supports).
- Lateral panels inclined for the 350 x 250 mm parts.



**Additional options**

- *Bottom Dead center timeout, allowing:*
  - Stalling the press from 0 to 15s at bottom dead center.
  - Ensuring attainment of bottom dead center thanks to a detection in the last mm.
- *Press locking at bottom dead center by a support on the two hand controls and engaged by an impulse on the two hand control.*
- *Special RAL paint.*
- *Special services on request (press modifications, small tooling and fitting).*

