

> 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.

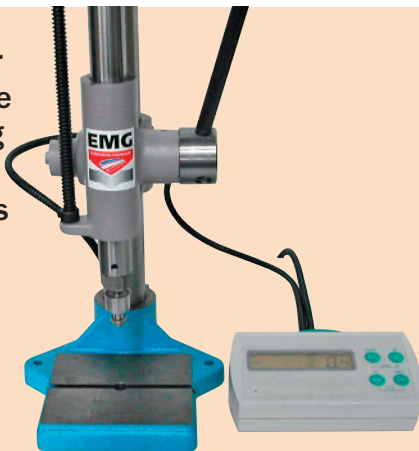
The detection of anomalies is immediate if the requested parameters are not met, the monitoring unit delivers an "OK" or "NOK" message by means of an optical display, a sound signal, or by locking the press in position.

This signal allows the operator to immediately isolate the detected 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.

- 1 - System for measuring the force allowing only the instantaneous display of the power.



- 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.

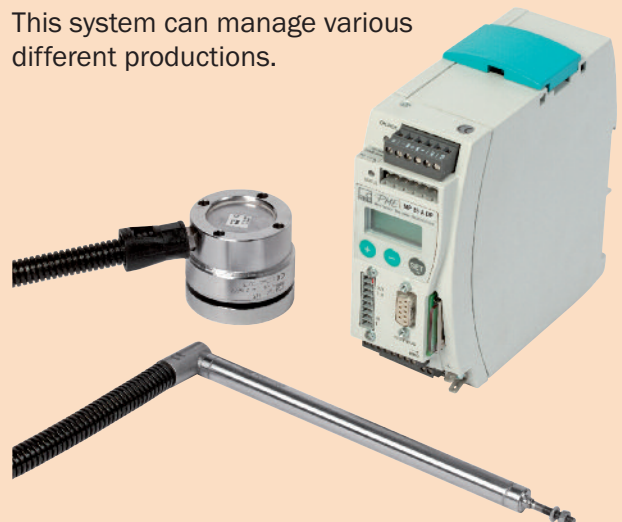


- 3 - System for measuring force and displacement with analysis by envelope curve. The programming is carried out by a PC using the software provided by EMG.

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



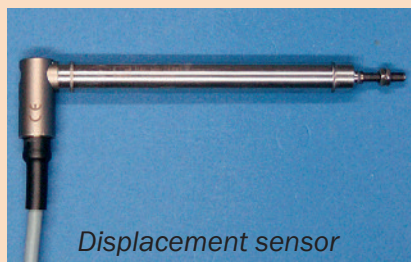
Electric press equipped with a force and a displacement sensor, associated with the process controller and an 8" display terminal.

• 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
- Red visual signalling on the screen if the part is NOK
- Several configurable results are available 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.



Force sensor



Displacement sensor



Measurement amplifier

TOTAL QUALITY



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.