

SERVOPRESSES



BALCONI Pressecentriche S.p.A.
Via Circonvallazione, 195
20814 Varedo (MB) - Italia
Tel. +39 0362 5361
sales@balconi.it
www.balconi.it

SERVOPRESSES

Highly-precise Balconi servopresses deliver absolute long-term reliability. The main sectors are the automotive industry and the household appliances divisions.

In any field that requires a high-level of precision, reliability, productivity and flexibility with low management costs, Balconi is able to design, propose and build, not only suitable and efficient machines, but also innovative technological solutions and integrated production lines, to respond to the highest production standards.

The entire manufacturing process is designed and managed in our Varedo plant where, thanks to the use of modern machinery and highly qualified personnel, all the production phases, from the designing, to the machining, precision assemblies, commissioning and customer support service, are controlled and supervised thus guaranteeing that the high-quality levels of the machines produced are maintained and continuously improved.



FLEXIBILITY

PERFORMANCES

KINETIC ENERGY RECOVERY

BALCONI PLUNGER SYSTEM

STAMPING PROFILES

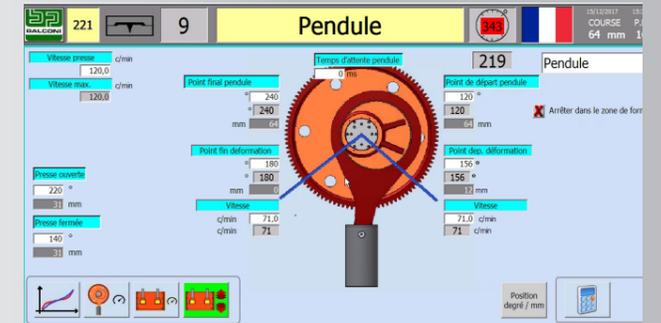
- The selection of the stamping profile (curve) is simple and immediate.
- Creating new stamping profile is intuitive and can be made by the customer in complete autonomy, so that our client can generate the most efficient stamping profile for each piece to produce, reaching a higher production rate whilst maintaining the same speed, or even lower, in the stamping phase.
- Selection of the parameters to program the Servopress working cycle: working area start-end angle, band feeding start-end angle/transfer, forming speed, press production rate, ram dwell at BDC and/or TDC.

OPERATING CYCLES

- Profile curves based on the type of die used.
- Infinitely programmable variable ram stroke to match specific production requirements.
- Slowdown curve profile generation with a deceleration in the working area selected by the operator.
- Pendulum function for curve profile generation without rising to the mechanical TDC of the press, thus obtaining a lower ram stroke with a higher production speed. The inversion points of the movement in upstroke are selected by the operator.
- Multipoint function for curve profile generation which can be divided up to 10 segments.
- Pendulum - Multipoint function combines the two previous functions, allowing the operator to select a ram stroke which includes deceleration phases.

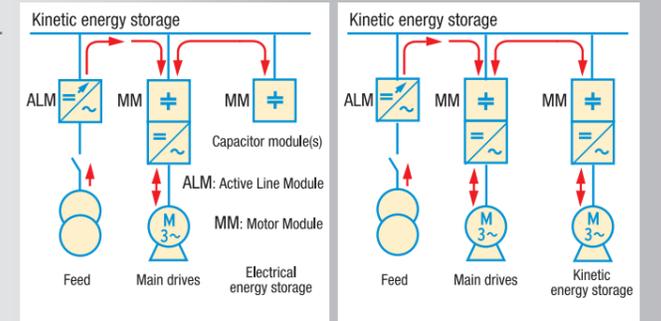
FLEXIBILITY AND PERFORMANCES

- Maximum flexibility and productivity in all operating cycles.
- Multipoint function for special profiles.
- Unlimited number of programmable strokes.
- Easy and simple to use: function modules ready to be used for the selection of the best working curve.
- Reduction of die setup times, higher production speeds and increased productivity.
- Improved quality of produced pieces.
- Longer die life.
- Reduction of production costs.



KINETIC ENERGY RECOVERY

- Maximum energy always available at the minimum and maximum speed.
- Energy recovery managed with condensers and/or regenerating motors which act as electric flywheel to store the energy and make it available when the stamping process requires it, without increasing power consumption (Siemens Sinamic ALM). This system also ensures that the energy consumption on the power supply line does not oscillate continuously during servopress working.
- Lower power consumption compared to a conventional press.



BALCONI PLUNGER SYSTEM

- Balconi Plunger system ensures slide precision guiding.
- The Plunger absorbs the lateral thrusts of the crank mechanism, ensuring a more precise and constant vertical sliding movement of the ram, minimum wear of the gibs and better parallelism parameters between table and ram, compared to those achievable by traditional slide guiding systems.
- This system guarantees a constant and greater parts accuracy, a larger number of pieces produced before each die regrinding and therefore a reduction in the production costs.

