



LOCATELLI
MECCANICA



Precision Hydraulic & Servo-Hybrid Presses

The best quality Presses – Made in Italy



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Passionate about innovations



Established in 1924 in the beautiful region of Tuscany in Italy, Locatelli Meccanica S.r.l. is an expert Company in manufacturing Servo-Hybrid and Hydraulic high precision, latest technology presses for the High-End Industry.

We combine decades of experience and ongoing advances in all areas of stamping technology and have steered development in new directions.

Locatelli Meccanica develops individual stamping solutions for different applications. We accompany our customers as they undergo global expansion, providing support via our products services.

Thanks to our production, distribution and

strong development network stretching from Italy to Worldwide, we can react swiftly and flexibly to customers' needs.

Our Mission

Locatelli Meccanica is a product leader in pressing technology. As an active development partner to our customers, we are heavily geared to progress and innovation, and particularly welcome complex challenges.

Customers come to rely on our innovative solutions and extensive product range.

Core Competencies

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Locatelli Meccanica S.r.l. develops standard and customized pressing solutions.

Our core technologies are Oil-Hydraulic presses and Servo-Hybrid coining and blanking presses. Our hard-working, talented, customer-oriented team tailors each press to the application in question. By working as part of an extensive network of internal and external partners, we steadily build our know-how base and push ahead with development of new pressing solutions.

Advanced activation processes guarantee perfect stamping, and fully automated systems

ensure quality is reproducible.

Safety Awareness

At Locatelli Meccanica, safety factors are incorporated into our product and process design from the outset. Maximum durability, functionality and emphasis on production mean for us state-of-the-art safety protections without compromises. Our products are also eco-friendly thanks to our environment-oriented approach to cleaning and internal movement of materials.

Oil-Hydraulic Presses



Down stroking press.

Rigid four columns press frame with upper and lower table in forged steel C45.

Very compact unit, with electric cabinet and hydraulic pack mounted on the press basement.

Lower ejector with adjustable ejection power and Speed.

Magnetic encoder for ram height control measuring system, contactless;

Very low noise equipment, < 70 dB.

Ergonomic design with a seating working position and wide legroom.

Manual / automatic feeding.

Quick Tool Change, high precision coining tool.

Great variety of work programs: Multiple pressing and Dwell Time, Lifting Function, Ramps of Pressure, Safety for mould, Fast blanking, Hologram Function, Micron Program, Fast program, Auto-Brake program.

Ramps of pressure: the operator can set the time to reach the set pressure.

Easy accessibility to all the parts of the machine, even with automation feeding machine installed.

Available 35 to 1000 Tons

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Precision Oil-Hydraulic Presses

Servo-Hybrid Presses



Down stroking presses.

Rigid four columns press frame with upper and lower table in forged steel C45.

Very compact unit, with separate electric cabinet and Hydraulic pack mounted on the press base-ment. Lower ejector with adjustable ejection power and speed.

Low noise equipment, < 70 dB.

Reduced cycle times; optimized forming speed leads to better tool life and reduced tool wear; unimagined possibilities in the design of metal forming processes. Reduced maintenance costs by reducing the hydraulic components. No oil heating.

Full Pressure / Position control, for a perfect relief on the coin design. **Variable pressing speed** for a better coining experience.

Magnetic encoder for ram height control measuring system, contactless;

Compact Design: Ergonomic working position; large legroom for operator; all hydraulic components in the same press footprint.

Seven guiding points on the ram plate for a perfect parallelism of the table: main piston + two side pistons + four guiding points, one on each column;

Safety First: Front light curtain photocells level 4; Pneumatic transparent safety shield; Side windows with safety switches; Warning light tower; Passwords for different levels of safety.

Great variety of work programs: Multiple pressing and Dwell Time, Lifting Function, Ramps of Pressure, Safety for mould, Fast blanking, Hologram Function.

Servo Direct drive system: Energy Saving System: energy used only when requested.

Available 75 to 400 Tons

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Precision Servo-Hybrid Presses

Big Table Presses



Down stroking press.

Rigid four columns press frame with upper and lower table in forged steel C45.

Compact single unit, with electric cabinet and hydraulic pack mounted on the press basement.

Lower blank holder with adjustable power and speed + cushion mode.

Very low noise equipment, < 70 dB.

The Big Table series provides the **same features** of the standard hydraulic presses, by means of hydraulic and electric components, as well as software design, with the advantage of a larger space up to 1200x1200 mm and the possibility to install a lower blank holder for deep drawing operations.

Blanking, drawing, hot and cold sheet-metal press-work; our oil-hydraulic presses are used for deep drawing, progressive and step-by-step press-work. Our acknowledged technical versatility is shown not only by the supply of structurally valid and reliable products, but also and above all by the provision of solutions capable of ensuring the highest performance requested by users.

Available 35 to 500 Tons

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Big Table Presses



Industrial benefit from Precision Machining

A business that needs a durable part formed to an exact size and guaranteed finished after pressing will need CNC press to get the job done.

For this reason is very important that every part of a machinery is perfectly synchronized with the others.

In the stamping industry precision in striking is basilar to work: especially for high quality, precision of the press components means high productivity, repeatability in quality, low production costs.

- Frame rigidity guaranteed by solid C45 forged frame: proved extremely low stretching, $>2 \mu\text{m}$ Per Ton, 10 times below the required EU standards.
- Press piston is guided on the four columns to guarantee a perfect position ($\pm 0.01 \text{ mm.}$, in repeatability).
- 7 sliding / guiding points to the ram, guarantee of a perfect parallelism between tables.
- Hydraulic pack has pressure precision 1% guaranteed (difference form the set and real pressure, in repeatability).



Every user needs the perfect software

- **Specific software** designed for blanking and stamping high quality parts;
- **Tailored solutions** for every customer;
- In all the different models we have installed the same basic software, in order to make easy the use of different models in the same Company;
- Teleservice included (Ethernet, 4G, Wi-Fi).



Robot, Transfer, Feeders etc.

Our automation is the **smart, compact and innovative solution** designed for every customer, optimizing the working cycle.

It allows to:

- Delete the man work;
- Have the stand-alone work;
- Get the advantage of the coining operation avoiding the empty time;
- Allow an industrial repeatability operation to assure a constant quality.

The automation is adjustable to the needs and requests of the customer, depending on:

- Products size;
- Spaces availability.

In case of transfer system, handling is made of a compact double-axis unit, which moves blanks from stock to the tool and then to collecting area.

First axis is moved by a robot that active a double gripping system which takes and lift parts of few millimetres and move it upper the die. At the same time it moves the pressed parts to the collecting area.

Experience & Innovation

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Tools & Quick Die-Set

State-of-the-art pressing tools, designed and manufactured by our partners, help to solve the main mechanical and technological issues coming from tools.

The quick die set, designed for producing a wide range of parts, allows a quick change of moulds with the max setting precision, avoiding assembling mistakes.

The position control is routinely used for measuring the thickness of the piece.

Press Experience and Targets

Over ninety years of experience into machines design and manufacture has resulted in the new Servo-Hybrid Presses range of new, innovative, flexible presses.

Many different sizes are available including custom built presses. The machine can be designed to be compatible with different power sources.

In addition to Servo-Hybrid presses, a wide range of target machines can be supplied. These can be either automated or manually fed. The targets can be manufactured to fit most sizes of customer's requirements.

Points of Interest



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- **7 guiding points** on upper table (ram), for a perfect parallelism of the table. Automatic lubrication system maintenance free;
- **Perfect control of the parts thickness**, with an exact control of pressure, timing and position. No burr on edge guaranteed for a perfect super quality;
- **Multiple pressing** in closed mould, for a full control of the metal flow inside the mould;
- **Ramps of pressure**: possibility to set the time to reach the set pressure (the operator decide this time, not the machine according to the metal's resistance).
- **Safety for the mould**: alarms on double charging, wrong charging (by standard software), no charging (by option);
- **Memory of thousand of programs**, with alphanumeric name for an easy recall;
- **World wide access** to the CNC for analytical diagnostics and subsequent modification / update / tailoring / fine-tuning of our software;
- **Special designed software** to monitor the production costs and the total production management, fully integrated analysis with internal network. This creates what has been called a "smart factory".



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