



**LOCATELLI**  
MECCANICA

## Locatelli Meccanica Oil-Hydraulic Presses



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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 oil-hydraulic presses manufacturing, specialist in high precision, latest technology presses for the minting industry.

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

Locatelli Meccanica develops individual minting solutions for coins, bars and medals. We accompany our customers as they undergo global expansion, providing support via our products services. Thanks to our production,

distribution and 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.

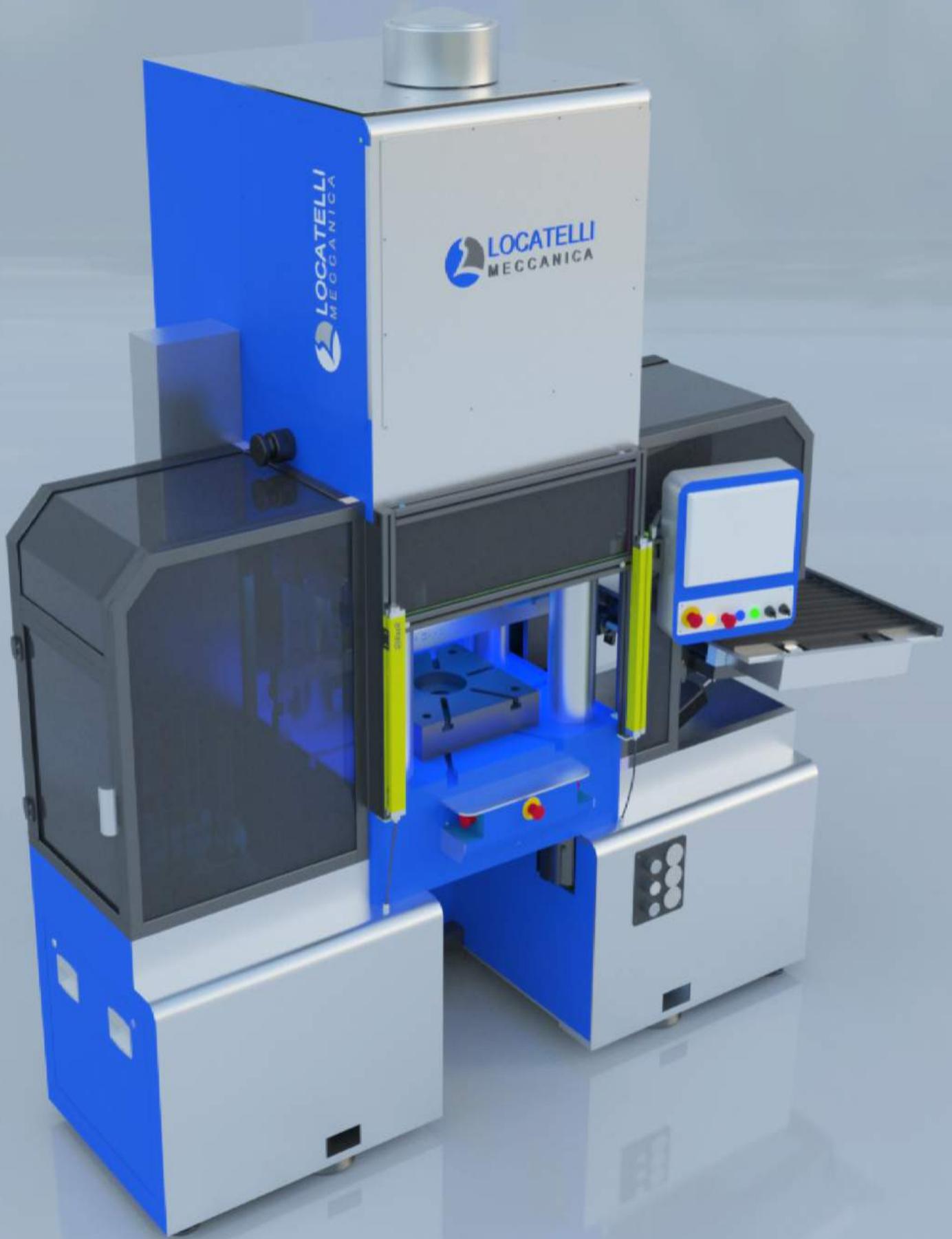
Our core technologies are oil-hydraulic presses for blanking and minting in bullion and proof-quality. Our hard-working, talented, customer-oriented team tailors each press to the application in question. By working as part of an extensive network of internal and external partners, we steadily build 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.

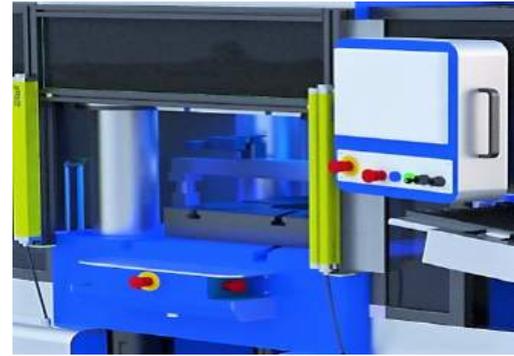
### **Safety Awareness**

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 Medal Presses

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- 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 + cushion mode to improve relief quality.
- Coining of coins / bars with high reliefs in Proof-Quality.
- Very low noise equipment, < 70 dB.
- Multiple pressings with adjustable dwell time.
- Hologram Program; Lifting program.
- Ergonomic design with a seating working position and wide legroom.
- Manual / automatic feeding in Proof-Quality.
- High precision coining tool.
- 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.



## Industrial benefit from precision machining

Any 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 Minting industry, precision in striking is basilar to work: especially for proof quality, precision of the press components means high productivity, repeteability in quality, low production costs.

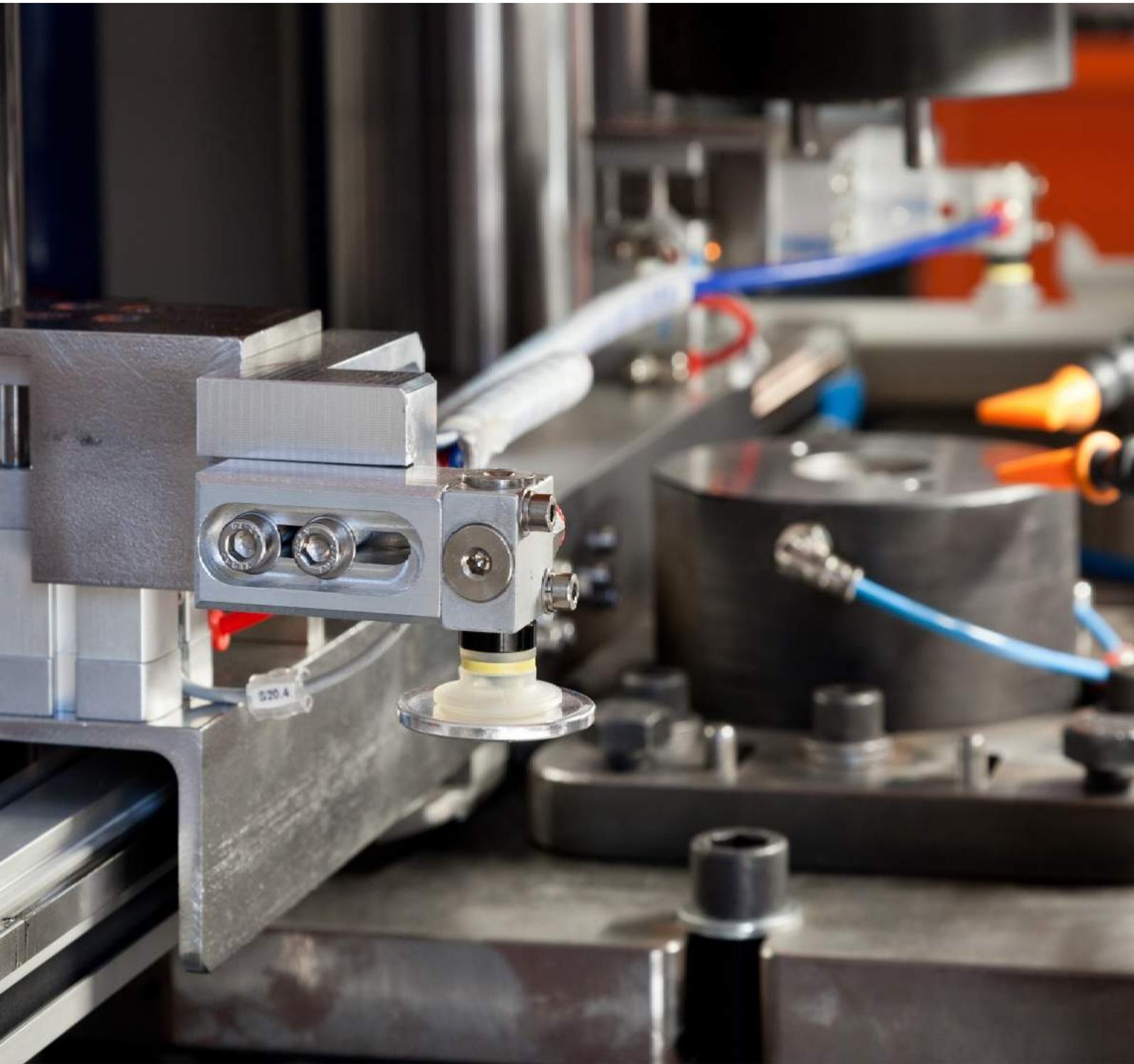
- Frame rigidity guaranteed by solid C45 forged frame: proved extremely low alongment,  $>2 \mu\text{m}$  (10 times below the required EU standards).
- Press piston is guided by the four columns to guarantee a perfect position ( $\pm 0.01 \text{ mm.}$ , in repeatability).
- 7 sliding / guiding points 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).

## Software

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- Specific software designed for blanking and minting high quality medals, coins and bars.
- High speed cycle up to 18 coins/min. in automatic feeding.
- Proof Quality in Manual/Automatic mode.
- Hologram Fonction.
- Lifting Fonction.
- Safety program.
- Teleservice included (Ethernet, 4G, WiFi).
- Custom made software.
- Ramps of pressure.



## Feeding & Handling

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Standard feeding system from the 6-fold blanks magazine located at the side of the press, the blanks are taken by vacuum cups and placed to the coining tool.

On this operation the blanks are blown by a fine adjustable air stream of dried and cleaned air by using a special designed Dry Air blow unit.

Handling system 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 pneumatic piston that active a double gripping system which lift the blank of few millimeters and move it upper the die. At the same time it moves the minted coin to the collecting area.

## Air Cleaning & Deposit Tray



Both sides of coins / bars are cleaned with dried cleaned air in different moment of the handling. Air stream is adjustable.

It is available a blower for manual operation.

The finished coins are taken by vacuum cups after being ejected from the coining tool; the coins can be placed precisely in the correct position on a horizontal deposit tray on the opposite side of the

press with continuously production. The deposit tray can be easily changed manually.

The press will be always accessible for manual feeding with this solution.

The feeding can be manual, semi-automatic or fully automatic. Coins and bars will be lifted by vacuum cups without a mechanical contact in a very innovative way.



### Coining Tools & Quick Die-Set

State-of-the-art coining 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 coins, 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 coin.

Innovative vision device allows the user to work in automatic mode with human-like control on the coins.

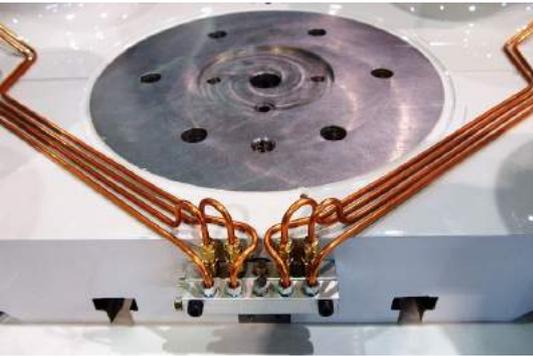
### Press Experience and Targets

Over 90 years experience of pressing 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 presse, 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



- **7 guiding points** on upper table (ram), for a perfect parallelism of the table. Automatic lubrication system maintenance free.
- **Perfect control of the medal thickness**, with an exact control of pressure, timing and position. No burr on edge guaranteed for a perfect Proof 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 specialvision device).
- **Memory of thousand of programs**, with alphanumeric name for an easy recall.
- **World wide access** to the PLC for analytical diagnostics and subsequent modification / update / tailoring / fine-tuning of our software.
- **"Jarvis"** 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".



## Reference List

- Agosi Allgemeine Gold - Germany
- Argor Heraeus Sa - Switzerland
- Cooksongold Co. - United Kingdom
- Global Gold - South Africa
- Heimerle + Meule GmbH - Germany
- Italpreziosi Srl - Italy
- Malta Mint - Malta
- Mint of Egypt - Egypt
- Mississagua Mint Ltd - Usa
- MMTC Pamp Pvt. Ltd - India
- Pagliari Group - South Africa
- Pamp Sa - Switzerland
- Picchiani & Barlacchi - Italy
- Pressburg Mint s.r.o - Slovakia
- Rand Refinery (Pty) Ltd - South Africa
- Scottsdale Mint - Usa
- Silver Towne Mint - Usa
- St. Petersburg Mint - Russia
- The Cape Mint (Pty) Ltd - South Africa
- The Tashkent Mint - Uzbekistan
- Thomas fattorini Ltd - United Kingdom
- Unoaerre Spa - Italy
- Valcambi Sa - Switzerland



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