



Since 1938 between tradition and innovation

The history of PREO started in **1938**, when **Mr Antonio Preo** founded "**Officine Meccaniche PREO**" as a producer of precision and measuring instruments.

During **1960s**, the Company became a European leader in **high precision** components for the medical, optical, aerospace and military industry.

Towards the end of the **1980s**, PREO, thanks to its **qualified experience** and **know-how**, directed its activities towards the design, production and sale of hot-melt adhesive application systems with the aim of becoming **one of the world's leading manufacturers**.

Today, Preo boasts a customer package with prestigious names and its products are successfully used by leading international companies.



COMMERCIAL NETWORK AND TECHNICAL ASSISTANCE

The company, located on the outskirts of Milan, conducts its business on an area of about **4,000 square meters** divided into **two large buildings**; it has further increased its presence in recent years by expanding into the world market through acquisitions and partnerships with foreign companies.

PREO is the typical Italian medium-sized, **highly specialized, ISO 9001-certified** company that makes use of a staff of qualified technicians and a fleet of the most modern machines.

Thanks to an extensive distribution network both nationwide and in more than 60 countries, a winning sales policy and a quick and efficient after-sales service, **PREO has developed an important all-Italian technical-commercial and production structure in the field of hot melt adhesive application machines**, further strengthening the image of Made in Italy in the world.



VELA P MELTERS



- Hot-melt adhesives
- Viscosity up to 30,000 cps
- Tank capacity: 5, 12 and 18 kg
- Up to 8 hose/gun connections
- Double acting pneumatic piston pump ratio 14:1
- New high-speed reverse system



VELA W MELTERS



- Hot-melt adhesives
- Viscosity up to 70,000 cps
- Tank capacity: 5, 12 and 18 kg
- Up to 4 hose/gun connections
- Gear pump rate 0.8 – 3.0 – 7.0 – 10.0 – 20.0 cc/rev
- Variable speed controlled by inverter



- Full compatibility with previous series and existing technologies
 - New innovative energy-efficient design
 - Reduction of the external surface temperature by 30%
 - Energy savings of over 2% compared to previous series
 - High-visibility multicolor LED status bar
- New “full touch” user interface with integrated button panel
- Advanced interconnection options (Industry 4.0 - 5.0 and IoT)
- High safety standards through various protection systems
- Modularity, flexibility and availability of a wide range of options
- Possibility of customized executions and configurations

VELA MICROPROCESSORS

- 7” Touch Screen IPS TFT LCD LED color display
- Remote touch screen on request
- Intuitive multi-language user interface
- User management with password protection
- Up to 8 independent channels
- Programming and integrated glue pattern control on each channel



- Economy function, Clock and Weekly Series Programming
 - Scheduled programmed maintenance
 - Event log and real time diagnostics
 - Firmware upgrade via USB port
 - Upload/download machine parameters
- Integration with OEM systems via built-in PLC Interface and Modbus TCP-IP protocol

JV MELTERS



- Hot-melt adhesives
- Viscosity up to 70,000 cps
- Tank capacity: 5 kg
- Up to 4 hose/gun connections
- Double acting pneumatic piston pump
- Gear pump rate 7.0 cc/rev
- "Full touch" user interface

PUR MELTERS



- Reactive polyurethane adhesives (PUR)
- Viscosity up to 70,000 cps
- Tank capacity: 5 kg
- Up to 4 hose/gun connections
- Gear pump rate 3 and 7 cc/rev
- Variable speed controlled by inverter
- "Full touch" user interface

TWISTER AUTOMATIC FILLING SYSTEM



- Suitable for adhesives in granules (max. \varnothing 12 mm) and/or tablets (max 12 x 12 mm)
- Installable on any existing gluing systems
- Capacity: 200 kg/h
- Tank made of stainless steel
- Airtight, slow-closing lid
- Window for filling level control
- Suction unit with integrated vibration system to prevent clump formation
- Safe filling without risk of burns
- Increased operator safety
- High line efficiency
- Adhesive carbonisation reduction
- Minimized maintenance time and costs
- Timed automatic filling system

MILLENNIUM MELTERS



- EVA, polyamide, polyester and pressure sensitive adhesives
- Tank capacity: 30 and 50 kg
- Up to 6 hose/gun connections
- 1 or 2 gear pumps rate 0.8 - 40 cc/rev

BM AND UBM PUR MELTERS



- EVA, polyamide, polyurethane reactive (PUR) adhesives in cartridges and drums
- Viscosity up to 100,000 cps
- Cartridge/drum capacity: 2, 20 and 200 kg
- Up to 4 hose/gun connections
- Gear pump rate 2 - 40 cc/rev

H-EVO HOSES



- Hot-melt and PUR adhesives
- Length from 0.4 to 12 mt
- Internal hose diameter from 6 to 25 mm
- Temperature up to 230°C
- Special executions on request
- Compatibility with systems of all brands

AMX-45 MODULES



- Single (AOSC) or double effect (AOAC)
- Innovative double interchangeable gasket cartridge system
- Standard self cleaning Zero-Cavity nozzle
- Wide range of available special nozzles

DOUBLE E GUNS

- Viscosity up to 5,000 cps
- Speed up to 8,000 cycles/min
- Service life of more than 50 million cycles
- AMX-45 (AOAC) double effect module
- Standard self cleaning Zero-Cavity nozzle
- Compact design and integrated glue filter
- Insulation plastic cover



NEW LIFE GUNS

- Viscosity up to 100,000 cps
- Speed up to 6,000 cycles/min
- AMX-45 (AOSC) single effect module
- Wide range of standard and special nozzles
- Integrated glue filter
- Gun body coated with non-stick treatment



REVOLUTION GUNS

- Viscosity up to 100,000 cps
- Speed up to 6,000 cycles/min
- AMX-45 (AOSC) module with variable centre distance
- Wide range of standard and special nozzles
- Integrated glue filter
- Gun body coated with non-stick treatment



SPRAY-SPYRO-SWIRL GUNS



- Viscosity up to 100,000 cps
- Speed up to 4,000 cycles/min
- AMX-45 (AOSC) module
- Wide range of standard and special nozzles
- Integrated glue filter
- Air heating block
- Gun body coated with non-stick treatment

K100 SLOT GUNS

- Viscosity up to 100,000 cps
- Double effect module with "snuff-back" system
- Perfect and sharp cut off
- Coating width up to 2,500 mm for continuous or interrupted applications
- Fast format change
- Integrated glue filter



SHARK HANDGUNS

- Viscosity up to 100,000 cps
- 360° swivelling rotation
- Progressive activation trigger
- Bead and spray version
- Timed automatic version
- Module with interchangeable gasket cartridge system
- Compatibility with all existing gluing systems



STRAIN GUNS

- Viscosity up to 5,000 cps
- Speed less than 1 ms
- Service life of more than 200 million cycles
- Self cleaning Reduced-Cavity nozzle
- Electromagnetic operation
- No seals and noise free
- Integrated glue filter



PATENTS AND SPECIAL EXECUTIONS

Thanks to their expertise obtained from long-time experience in the aerospace industry and to constant **research and development**, PREO is known in the international market for the reliability and innovation of their **patented and highly technological products**. The company successfully maintains a primary position in both standard production and the **development of bespoke solutions**.





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FIELDS OF APPLICATION

PREO is able to offer the best possible solution to all gluing needs in multiple industries, such as **packing and packaging, converting, bookbinding and graphic, building supplies, filters, hygienic and non-wovens, textiles, woodworking, automotive, cosmetics, electronics and bottling.**

