Your
gluing
solutions
partner

MELER

DISCOVER
MICRON+ SERIES

EFFICIENT | SAFE | CONNECTED

Meler's most awarded series reinvents itself by adding advanced usability to energy efficiency and adhesive quality.

MICRON
by meler

PISTON PUMP SERIES

MICRON+ SERIES

MICRON+, the melter for Industry 4.0

USABILITY AND DEVICE CONTROL

MICRON+ ENABLES QUICK CONTROL OF THE EQUIPMENT WITH ALL INFORMATION TO HAND

Touch screen 7”

- Easy to use and simplified menu.
- Functions: 9 languages, alarms, personalization of each area, calendars, schedules, passwords (levels), etc.
- Fast programming.

ICONS Interface option*

An icons-based interface that reduces language dependency, minimizes operational errors, and shortens learning time:

- Cross-cultural usability.
- Language independence.
- Quick learning curve; icons simplify navigation.



FLEXIBILITY

MICRON+ ADAPTS TO ANY INSTALLATION REQUIREMENT

- Fully integrated in the main machine thanks to its compact design.
- Easy-clean design for easy maintenance.
- Configuration adapted to each user (I/O, level detector, etc...).



Hose electrical connections

CONNECTIVITY

REMOTE CONTROL AND MULTIPLE CONNECTIVITY OPTIONS

Bluetooth / Wifi

- Controlled from a single interface.
- Communication protocols: Modbus RTU, PROFIBUS, PROFINET, EtherCAT, EtherNet/IP.

ENERGY EFFICIENCY

LOWER CONSUMPTION

All the units in the **MICRON+** SERIES are based on **“MICRON TECHNOLOGY”** aimed at reducing **electricity consumption to a minimum**.

CAREFUL TREATMENT OF THE ADHESIVE

Sequential heating.

Greater improvement to the unit’s efficiency of use:

- Quality of the adhesive.
- Durability of the materials.
- Efficiency of the process.
- Energy and air savings.

The temperature is distributed uniformly over the entire contact surface of the tank, with no hotspots where the adhesive can degrade, for **careful and efficient melting.**

USE AND MAINTENANCE

- Same functioning for all Meler units.
- In very few steps, we get full access to the interior of the unit.
- Cool Touch exterior housing ensures maximum operator safety.
- The large tank lid opens fully, making it easier to fill and clean.

*Optional ICONS interface for any equipment in the **MICRON+** SERIES range.

CE & UL / CERTIFIED DESIGN & SAFETY

c UL us LISTED

CE

EMPOWERING YOUR HOT MELT SYSTEMS

MELER’S OPTIONAL SYSTEMS ONE SPECIFIC SOLUTION FOR EACH HOT MELT NEED

PROCESS AUTOMATION

1. SPLITTER by meler

A pattern generator for adhesive savings:

- Increases savings by converting a continuous bead into a dotted pattern.
- User flexibility and autonomy.
- Easy integration into the customer’s production line.

2. STARBI INTEGRATED

An **internal programmer** for accurate adhesive applications with **variable speed and timing**.

3. AUTOMATIC ADHESIVE FEEDER

It avoids manual filling and guarantees a continuous level of adhesive.



USABILITY AND SAFETY

EXTERNAL PRESSURE REGULATION

Allows quick and precise pressure adjustment from the outside of the unit, improving operator safety and simplifying daily operation.



Manual



Automatic

REMOVABLE HMI / BLUETOOTH

Remote control / Total Safety



External HMI



Bluetooth

LIMITLESS CONTROL

IOT PLATFORM

- Periodic data recording.
- Remote control from anywhere.
- Traceability.
- On-line and real-time assistance.

MONITORING

MICRON+ FLOWMETER

A high-quality solution for monitoring immediate hot melt consumption to perform a cost analysis reduction.



MICRON+ ADVANTAGES

- The best energy efficiency on the market
- Low maintenance cost and long useful life
- Easy to use
- Quick and easy to clean
- Units equipped for Industry 4.0
- Cool Touch exterior housing
- Compact design makes it easy to integrate into any installation

Check out our available configurations.

MODELS AND DIMENSIONS









"Close equipment" "Open equipment"

TECHNICAL SPECIFICATIONS

Melting rate*	MICRON+ 5 MICRON+ 10 MICRON+ 20 MICRON+ 35	9 kg/h (20 lb/h) 13.5 kg/h (30 lb/h) 19 kg/h (42 lb/h) 30 kg/h (66 lb/h)
Pumping capacity*		29.3 kg/h (65 lb/h) - 7cc/pump, 66 kg/h (145 lb/h) - 19cc/pump
Number of outputs		2, 4 or 6 electrical outputs, 6 hydraulic outputs (threads of 9/16)
Range of temperatures	 Optional	40 to 200 °C (104 to 392 °F) 40 to 230 °C (104 to 446 °F)
Temperature control		RTD ± 0.5 °C (±1 °F) Ni120, Pt100 or NTC-R
Maximum hydraulic working pressure		81.6 bar (1,183 psi) / Pneumatic pressure up to 6 bar
Maximum connection power (The maximum permissible current connection is 27 A per phase)		Maximum connection power for each hose/applicator pair: 1,800 W Consult power tables available in MICRON+ piston pump manual according to each case or installation
External features	Inputs	Unit On/Off, Standby, Activity control (input signal for auto Standby/Off), Pump On/Off, Coms On/Off, Inhibition of electrical outlets
	Outputs	Low adhesive level, Pump On, Standby, Temperature OK, Temperatures at set points, Error, Level error (warning light), Feeding fault, Running and Alarms
Electrical requirements	 Optional Optional	L/N/PE ~ 230V 50/60Hz 3L/N/PE ~ 400V 50/60Hz 3L/PE ~ 230V 50/60Hz 3L/PE ~ 400V 50/60Hz with transformer unit 3L/PE ~ 480V 50/60Hz with transformer unit (UL)
Ambient temperature		0 to 40 °C (32 to 104 °F)
Weight (Unloaded)		37.5 kg (5 L) / 45.7 kg (10 L) / 60.2 kg (20 L) / 90.1 kg (35 L) 83 lb (1.3 gal) / 101 lb (2.6 gal) / 133 lb (5.3 gal) / 199 lb (9.3 gal)

**Depending on the type of adhesive.*

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