

READY TO RUN

MICRON+ TECHNOLOGY TO MEET THE GOALS OF
TOBACCO INDUSTRY

MICRON+ TPD

CONNECTIVITY

Total remote control

EFFICIENCY

Minimum consumption

INDUSTRY 4.0

Pre-configured
for automatization

SAFETY

Highest
security standards



MICRON+ TPD

Micron + series is a range of hot melt melter units designed for Industry 4.0. The Micron + TPD version is equipped to accomplish all tobacco market requirements.

CONNECTIVITY

7" TOUCHSCREEN



ADVANCED USABILITY THANKS TO AN UPDATED CONTROL PANEL:

7" touchscreen

- Durable screen
- Easy and intuitive
- Fast

Interface

- Simplified menu
- Fast programming
- Identical user controls on all units

NEW FUNCTIONS

Micron + offers users new enhanced features.

- 9 languages
- Alarms
- Schedule
- Passwords

UNIT CONTROL

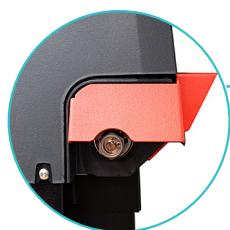
Micron + enables quick control of the unit with full information in one glance.

- Real-time data monitoring
- Allows users to personalise
- Controlled by main machine
- Online interconnection
- USB for updates, back-up and datalogger
- Multiple operating modes



SPECIFIC ADVANTAGES OF MICRON+ TPD

HIGHEST SAFETY



Burn protection

Its design, based on user experience, guarantees optimum safety.

- Incorporation of **protective parts** (hoses output and drain valve)
- **Cool-Touch** casing



Total control

An added pressure sensor in the manifold gets the **real hydraulic working pressure in the system** and pressure value is shown in the front panel.

- Pressure value **linked** to the main machine (via 4-20 mA signal)
- **Self-diagnostic** test
- Pressure display **programming**



Teflon free

Special designed teflon free coating to adapt to tobacco market safety protocols.

- **Double safety contact** between the melter and the main machine
- **3 thermal control groups** (fusion unit, hoses and applicators)
- Equipped with a **low level capacitive sensor**

INDUSTRY 4.0

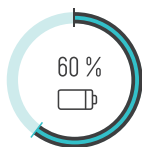


MICRON+ SERIES
Melters for 4.0 industry

cULus / CE / CERTIFIED DESIGN



0.
uirements with reinforced security features.



ENERGY EFFICIENCY

60% LESS CONSUMPTION

All units in the **Micron+** series are based on "**MICRON TECHNOLOGY**", aimed at **reducing electricity consumption to a minimum**.

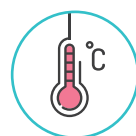
Consumes up to **60% LESS** than the competition.

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 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 charge and clean.



meler

GLUING SOLUTIONS

PLUG & PLAY SYSTEM



PLUG and PLAY

It is an equipment designed to be easily installed thanks to its "harting" connectors. **It is READY TO RUN!**

- **Electrical power connection:** "Harting" external connector for a simple installation (3-phases 400/230VAC with neutral).
- **External I/O connections:** The melter's input and output signals (I/O) allow it to communicate with the main machine simply and directly through the "harting" connector.
- **Automatic feeder** pre-configuration

OPTIONAL FEATURES



Remote connection
from any device
and location



**MODBUS RTU
PROFIBUS
PROFINET
ETHERNET IP**



AUTOMATIC FEEDER®

Installation of the vacuum feeder is absolutely automatic and only needs to switch on the program menu. It helps to automate the entire adhesive cycle improving product-line efficiency and runnability.

- Reliable and accurate level sensor
- Vibrating system to prevent adhesive issues
- Built-in filter to prevent external contamination
- Light/Acoustic loading fault warnings
- Folding unit with magnetic closing detection
- Reduces changeover times

KEY ASPECTS



HIGHEST SAFETY



CONNECTIVITY



ENERGY EFFICIENCY



INDUSTRY 4.0

DIMENSIONS



Item	Description	Micron + 5 TPD	Micron + 10 TPD
A	Equipment length	588 mm	671 mm
B	Equipment width	380 mm	380 mm
C	Equipment height	600 mm	600 mm
D	Equipment height with lid open	747 mm	747 mm
E	Equipment length with electrical cabinet open	838 mm	921 mm

TECHNICAL FEATURES

	Micron + TPD 5	Micron + TPD 10
Tank capacity	5.15 liters	9.7 liters
Pumping rate	29.3 kg/h 7cc/stroke pump (*)	
Melting rate	9.0 kg/h (*)	13.5 kg/h (*)
Number of hydraulic outputs	6 (thread 9/16)	
Temperature range	40 to 200°C (100 to 392°F)	
Temperature control	RTD ± 0,5°C (±1°F) - Ni-120/ Pt100	
Max. working pressure (at 6 bar)	81.6 bar (1183 psi)	
Max. installation power (at 230V)	5.900 W (2 electrical outputs)	5.900 W (2 electrical outputs)
	9.500 W (4 electrical outputs)	9.500 W (4 electrical outputs)
Electrical requirements	3N ~ 400/230V 50 Hz + PE	
Workplace temperature	0 to 40°C	
Weight	40 kg (empty)	48 kg (empty)

(*) According to adhesive type and working conditions.

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