

MELER 



Melter

MICRON
by meler

MICRON+
ECO



Great objectives forge greater bonds

Our history tells us that long-lasting unions are born from collaboration with the right partners in search of the highest of goals.

Well, today there is no higher purpose than safeguarding our planet's natural resources. And now, there is no melting equipment with a smaller environmental footprint. **MICRON+ ECO**

MICRON+ ECO
A better melter for a lower environmental footprint*.

(*). For 4.0 Industry automated applications.





Not only what the world needs...

- A More sustainability
- B Less consume
- C Better use of resources
- D Greater environmental responsibility
- E Robust design



...but what the market demands

- Lower energy consumption A
- More savings B
- Minimal environmental impact C
- Greater durability D
- Maximum reliability E

EFFICIENCY: HOW TO INCREASE PERFORMANCE WITH LOWER CONSUMPTION?



More sustainability

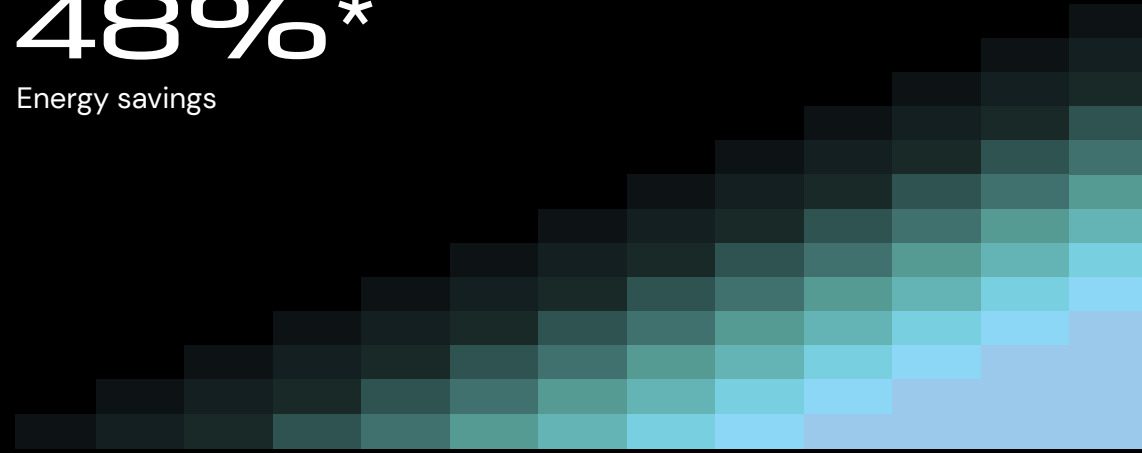


Lower energy consumption

The efficient solution that combines savings and sustainability

48%*

Energy savings



DESIGNED TO OPTIMIZE EFFICIENCY



Less consume



More savings

Each percentage point represents



Euros saved on your energy bill



Tons of CO2 not reaching the atmosphere



More profitability for your business

Comparative TEST

47%* improvement in heating

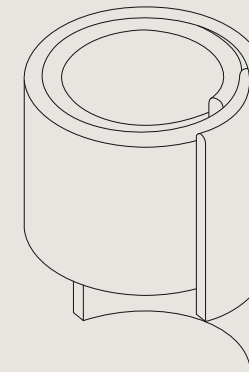
54%* improved temperature maintenance

47%* pumping improvement

(*compared with the most common melter on the market)

63%

Superior thermal insulation: minimum heat dissipation, maximum energy efficiency



MICRON+ ECO

54%

Less metallic material in the tank

Every watt in the right place

MICRON+ ECO revolutionises thermal management by converting every watt of energy into effective performance, not wasted heat:

↓ Conduction

↓ Convection

Each watt in the right place

Flexibility to create different application patterns and optimise adhesive consumption.

- Distance (mm)
- Time (ms)
- % Savings (pattern automatically calculated to give the indicated % adhesive savings)



THERMAL OPTIMIZATION: WHERE DO YOU WANT TO TAKE THE HEAT?



Better use of resources



Minimal environmental impact

Each kW is converted to heat

MICRON+ ECO guarantees controlled melting that cares for the adhesive and maintains its quality without unnecessary emissions.

With **MICRON+ ECO**, you maximize energy performance while you reduce your environmental footprint.

Thermal optimization of each kW invested



67% less energy losses



Controlled melting that cares for adhesive



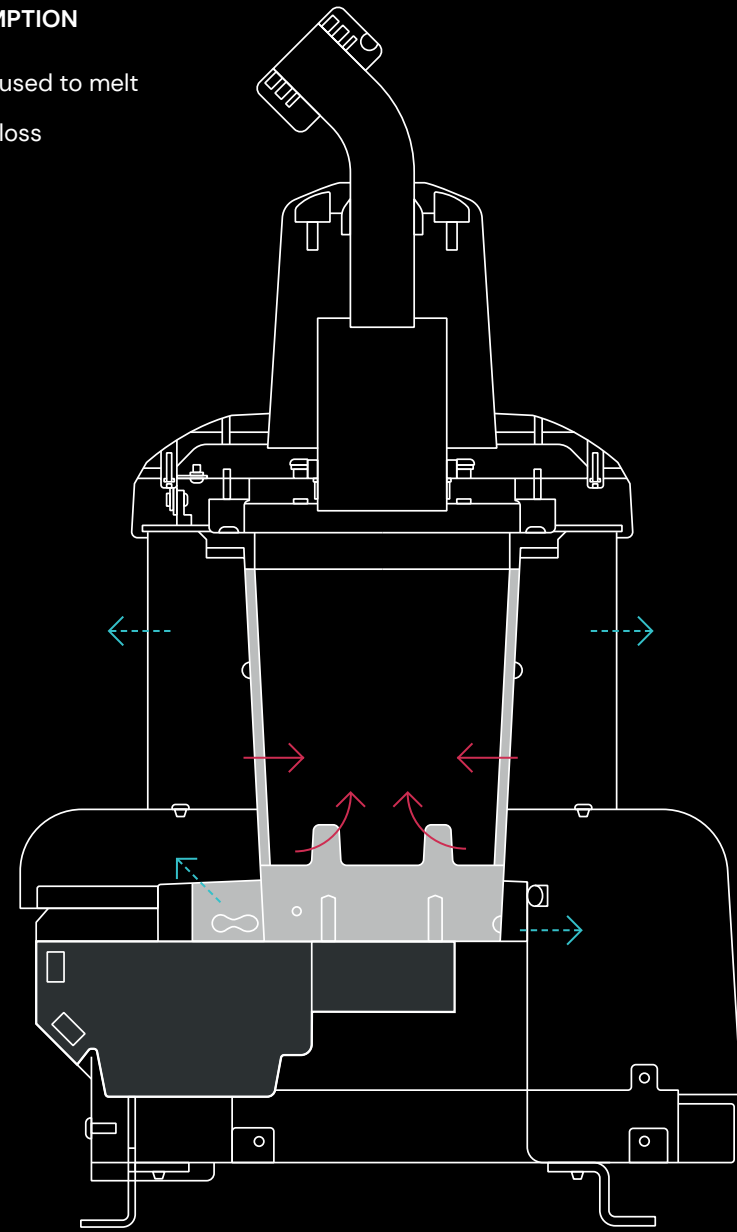
Zero unnecessary emissions

MICRON+ ECO

TOTAL CONSUMPTION

— Energy used to melt

--- Energy loss



Better use of resources



More sustainable production

10



DESIGN AT THE SERVICE OF SUSTAINABILITY



Greater environmental responsibility



Increased durability

MICRON+ ECO has been developed according to ECO-DESIGN principles to combine functionality, reliability and environmental responsibility.

1 INSULATION

The new insulation minimizes heat loss and increases equipment efficiency.

2 COMPACT CYLINDRICAL TANK

- Designed to work with minimum amounts of adhesive in the tank.
- Prevents adhesive degradation
- Homogeneous temperature and no overheating points.

3 THERMAL TRANSFER

The design ensures maximum heat transfer efficiency.

MICRON+ ECO

11

BUILT TO LAST



Robust design



Maximum reliability

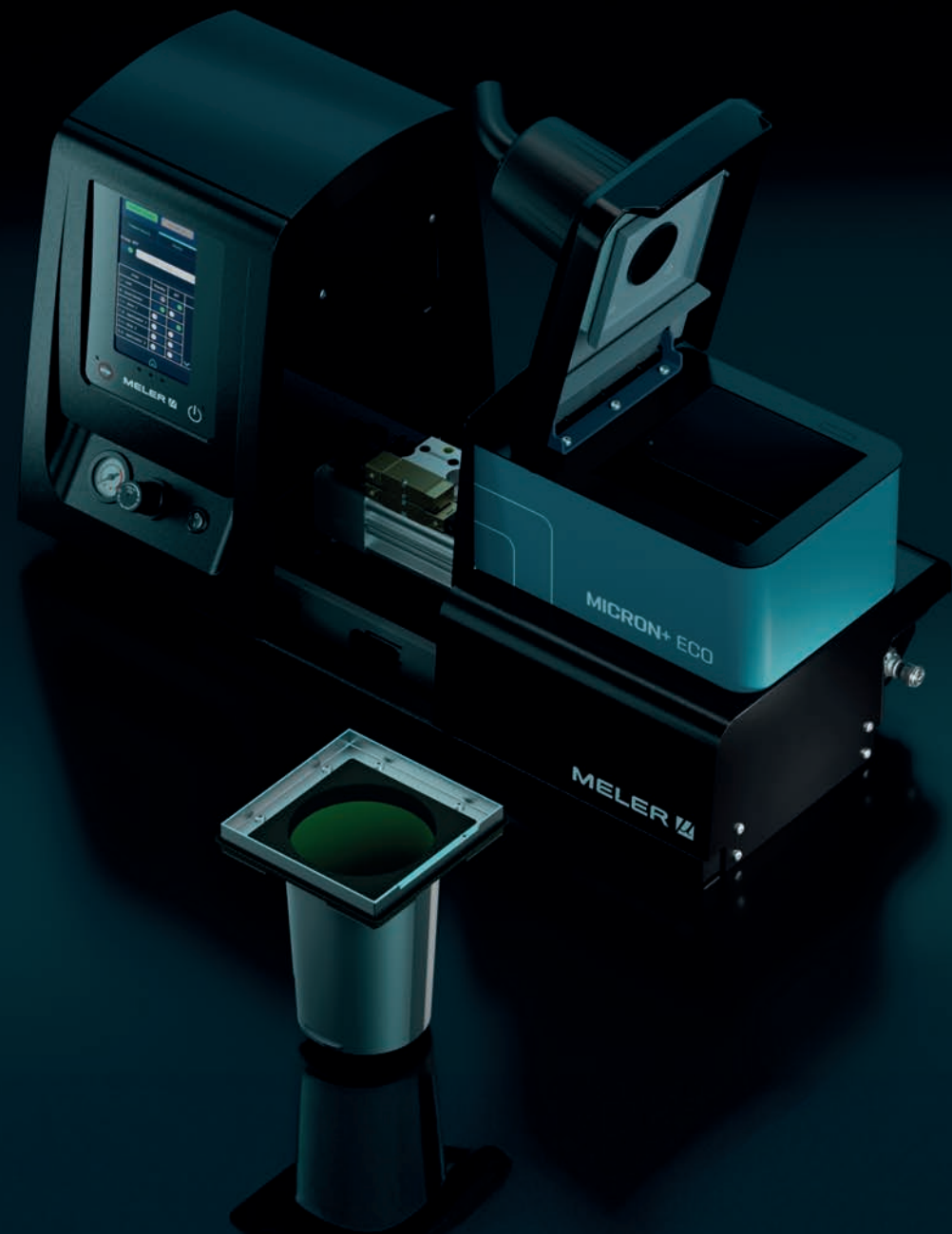
A simple and durable working tool

MICRON+ ECO maintains the MICRON+ platform as well as its ease of use. Its electrical cabinet slides and the melter lid is hinged allowing access to all parts of the equipment for fast and efficient maintenance.

Quick and easy cleaning (cylindrical tank)

Simplified maintenance

Industrial robustness guaranteed



HEIR TO THE MICRON+ LEGACY

MICRON+ ECO extends the highlighted MICRON+ range to meet the environmental challenges of today's industry.

Meler has created a more compact melter, designed for low adhesive consumption, that maintains the characteristics of MICRON+ technology but also reduces emissions to a minimum, offering cost-effectiveness and environmental responsibility for any 4.0 Industry production.

ENERGY EFFICIENCY AND ADHESIVE CARE

- Minimum energy consumption thanks to MICRON+ technology.
- Sequential heating.
- Homogeneous temperature distribution.

USABILITY AND MAINTENANCE

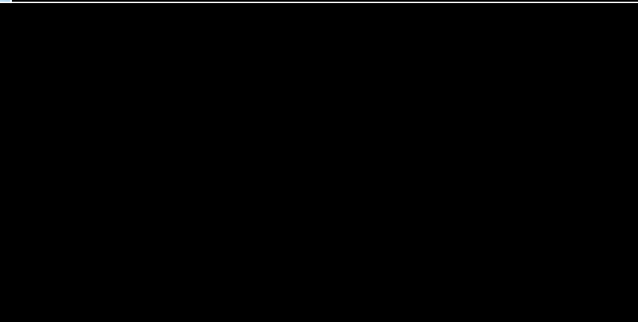
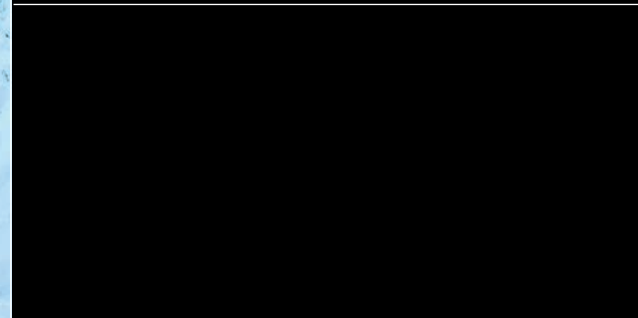
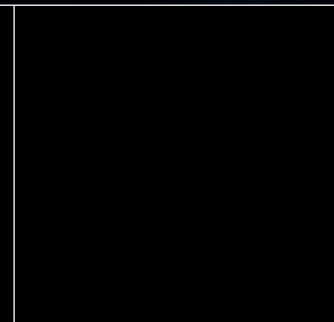
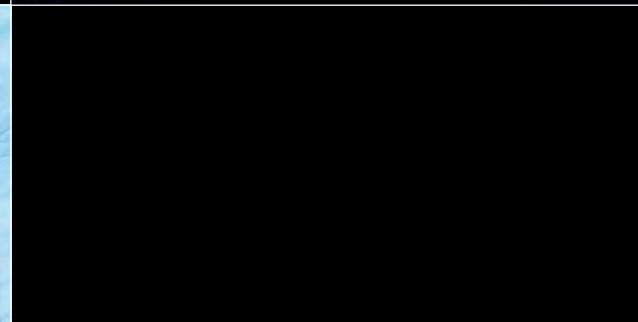
- Same operation for all Meler equipment. Reduced learning curve.
 - Control from a single interface
 - 7" resistive touch screen.
 - User configuration.
 - Quick programming.
 - Total accessibility inside the equipment
 - Easy-clean design. Cool Touch casings.

CONNECTIVITY

- Remote control and multiple connectivity options: Bluetooth / Wifi.
- Communication protocols: (MODBUS RTU, PROFIBUS, PROFINET, ETHERNET-IP, ETHERCAT)
- Easy integration.



MICRON+ ECO automatic feeder



MANUFACTURE WITHOUT PAUSE

MICRON+ ECO AUTOMATIC FEEDER

Automate adhesive feeding to maximize the efficiency of your industrial process.

It reduces operating costs, avoids careless failures and ensures a stable, repeatable and controlled process.



No splashing



Compatible with adhesive pellets



Reliable level sensor

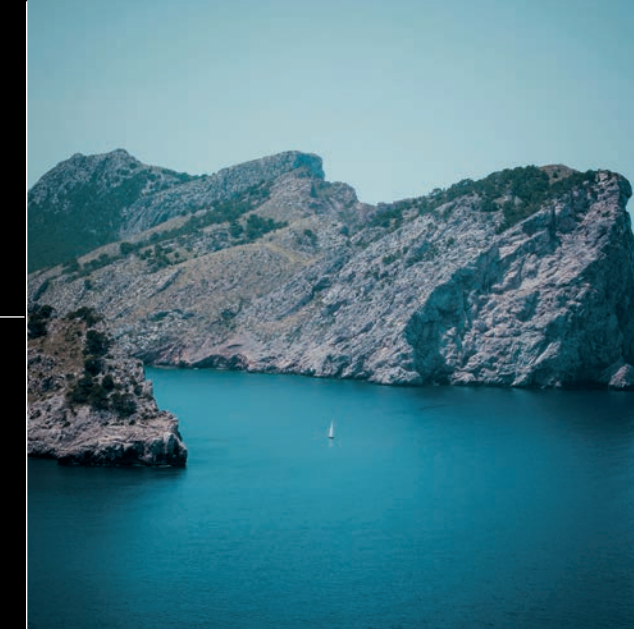


MICRON+ ECO with automatic feeder

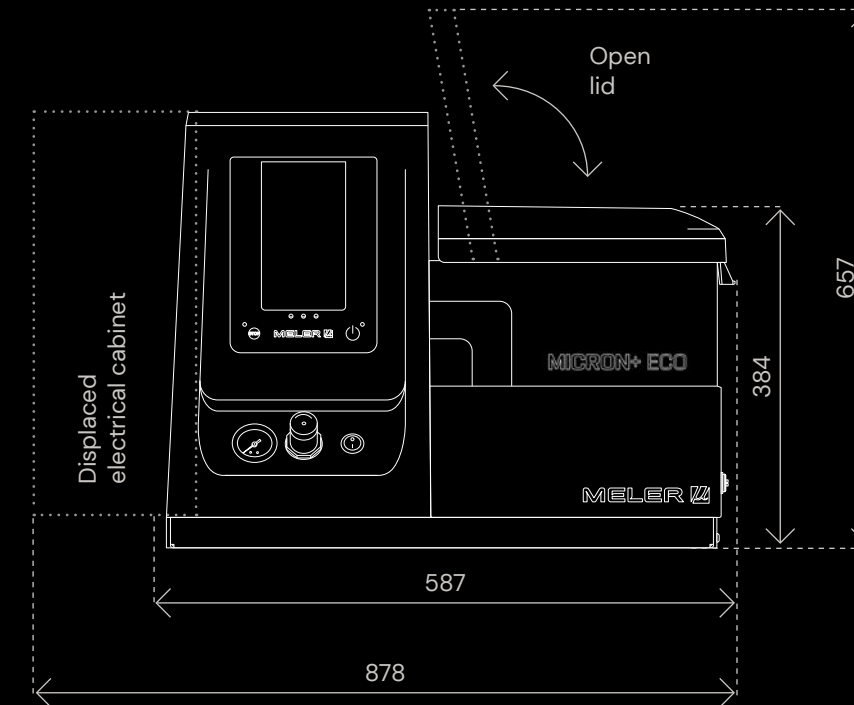


MICRON+ ECO without automatic feeder

Technical Characteristics



MICRON+ ECO



A	Tank volume	1,25 L
B	Pumping capacity (*)	29,3 kg/h per pump
C	Melting capacity (*)	3,6 kg/h (*)
D	Number of electrical outlets	2 • 4 • 6
E	Number of hydraulic outlets	6 (thread of 9/16)
F	Temperature range	40 to 200 °C (104 to 392 °F)
G	Temperature control	RTD ± 0.5 °C (±1 °F) Pt-100 • Ni-120 • NTC-R
H	Maximum working pressure (at 6 bar)	81.6 bar (1183 psi)
I	Maximum power to be installed(**)	2 electric outputs 2300W-1800W-1800W 4 electric outputs 2300W-3600W-3600W 6 electric outputs 2300W-5400W-5400W
J	External functions	<p>Inlets On-Off Equipment - On-Off Standby - Activity control - On-Off pumping - On-Off Communications* Inhibition of electrical outputs* Reset of alarms</p> <p>Outlets Standby - Zones Temperature OK * Equipment Ready - Running - Alarm - Level OK - Level not OK</p>
K	Electrical requirements	3L + N ~ 400V 50/60Hz + PE (optional) 3L - 230V 50/60Hz+ PE (optional) 3L ~ 400V 50Hz + PE with transformer base
L	Ambient temperature	0 to 40 °C
M	Dimensions (L × W × H)	587 × 341 × 481 mm 587 × 341 × 657 mm (open lid)
N	Weight	37,5 kg (unloaded)

(*) Under standard conditions (**) By phase 3L + N ~ 400V 50/60Hz + PE





MICRON
by meler

meler.eu