

# USER-DRIVEN PRODUCT INNOVATION AND ENGINEERING

NON STOP+ DRUM MELTER

PS 20<sup>+</sup>  
Non Stop FOAM

CONNECTIVITY  
EFFICIENCY  
MODULAR DESIGN  
SAFETY



PS20<sup>+</sup>  
Non Stop FOAM

## NON STOP<sup>+</sup> FOAM DRUM MELTER

For 20 kg **PUR adhesive blocks**. Melter designed for the most demanding production environments, such as the **automotive sector, wood or other special applications**.

The foaming process consists on mixing the hot melt adhesive with inert gas under certain conditions of pressure and temperature. Once the mixture is applied, the gas expands creating a close-cells structure (foam).

A direct application system without recirculation is used for applying foam. This system offers a stable mixture of gas and adhesive both in percentage and in equal distribution.

MAIN

### CONNECTIVITY AND HIGH PERFORMANCE

The new Meler electronic platform offers total integration of the melter into automated production lines. As a result, it increases the overall traceability of the production process and improves the quality of the end product.

- Integration on main interface by **remote control**
- **REAL-TIME data monitoring**: melter and pump parameters, temperature control, gas pressure, etc.
- Intuitive **touch screen** control panel
- **Several profiles** according to user
- Multiple **communication protocols** (MODBUS RTU, PROFIBUS, PROFINET, ETHERNET IP)



### EFFICIENCY AND TECHNICAL RELIABILITY

The new PS20 NS+ FOAM offers optimised melting capacity, reducing energy consumption to a minimum.

- **Continuous** block production of **PUR, reactive polyolefin and non-reactive** adhesives
- **MELT-ON-DEMAND** feature: smart melting for adhesive care
- **NON-STOP** system to avoid unwanted machine stops
- **Leak tight design** of melter assembly and cover
- **Minimum** energy consumption



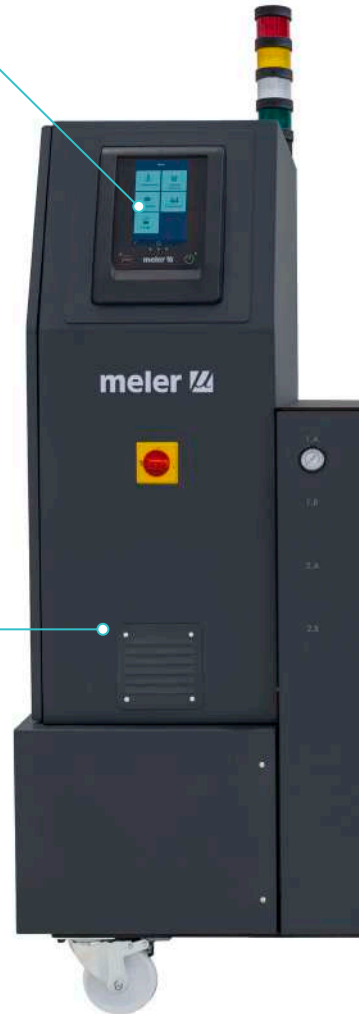
### SAFETY GUARANTEE

The new design, based on user experience, guarantees optimum safety.

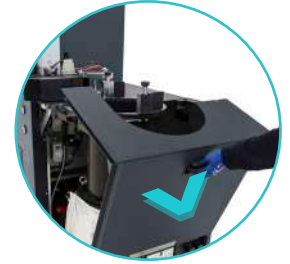
- Incorporation of **protective parts**
- User **autonomy**
- **Casing design** that simplifies assembly
- **Real-time display** of the overall status of equipment

### FLEXIBLE SETTINGS

- Improved compatibility
- Up to 6 electrical channels
- Wide range of pumps (foam pumps & standard gear pumps)
- Customisable application modes via inhibition groups



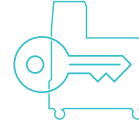
Its new features are centred on connectivity, modularity, safety and user experience improvements.



## MODULAR DESIGN

The modular design is synonymous with technical efficiency. The components, assembly and materials are especially designed with **EASY-CLEAN technology** to guarantee the **user efficient cleaning** and **optimum maintenance**. It allows simultaneous maintenance and continuous production. **It reduces equipment assembly times and maintenance costs.**

**EASY-CLEAN**  
Technology



**TOTAL ACCESSIBILITY**  
to the interior equipment



### INCREASE OPEN TIME

More adhesives range can be used



### VOLUMETRIC INCREASE

After being applied, its volume increases, providing a hermetic seal in the cavities.



### UNIFORMITY

Thanks to the direct system, constant gasification values are obtained allowing high application speeds.



### REDUCE ADHESIVE CONSUMPTION

Up to 65%, depending on the adhesive



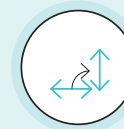
### FOAM HIGHEST QUALITY

The foam generated is applied directly without recirculation, obtaining great uniformity.



### FAST ADJUSTMENT

Only 3 parameters are adjusted for the operation of the equipment: Temperature, mixing pressure and gas pressure.



### VERTICAL APPLICATION

More consistency on vertical surfaces



**meler**   
GLUING SOLUTIONS

## OPTIONS

- Integration with the **STARBI pattern controller system**
- Communications
- Other functions on request

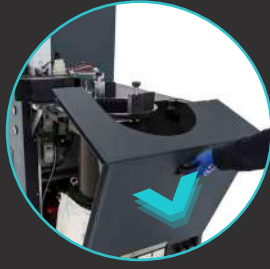
## NEW FEATURES

- **Maximum aperture** of melter assembly (120°)
- Non-stick surfaces
- **Removable elements:** distributor and grill (Plug&Play)
- **Versatility of casing** with hinged, removable doors permitting the clean-in-place process
- Excelent **user experience**

## KEY ASPECTS



CONNECTIVITY



MODULAR DESIGN



EFFICIENCY



SAFETY

## DIMENSIONS



## TECHNICAL FEATURES

<b>Main tank volume</b>	Ø286 x 395 mm (20 kg blocks)	
<b>Melting reservoir tank volume</b>	3.5l (used) • 6.5l (max.)	
<b>Foam Pumping capacity (*) (1 or 2 pumps)</b>	1,6 • 3,3 • 6,6 • 9,9 cc/rev 1,6 • 3,3 • 6,6 • 9,9 cc/rev high ratio	
<b>Standar Gear Pumping capacity (*) (only 2nd pump)</b>	1 • 2.5 • 4 • 8 • 15 cc/rev single pump 2x0.93 • 2x1.86 • 2x3.71 • 2x4.8 cc/rev double pump	
<b>Melting rate (*)</b>	Up to 18 kg/h	
<b>Number of pumps</b>	1 foam pump • 2 foam pumps • 1 foam pum + 1 standard gear pump	
<b>Number of hydraulic outputs</b>	2 per pump	
<b>Number of electrical outputs</b>	2 • 4 • 6 outputs (standard version)	
<b>Speed</b>	10-80 rpm (range 0-100 rpm)	
<b>Temperature range</b>	From 0°C to 200°C	
<b>Temperature control</b>	RTD ±0,5°C (Pt100 • Ni120 • NTC)	
<b>Maximum power pressure</b>	80 bar	
<b>By- pass valve</b>	Pneumatic or mechanical	
<b>Maximum power supply</b>	1 foam pump / 2 outputs > 4.7kW/ per phase 2 foam pumps / 6 outputs > 8.7kW/ per phase	
<b>External functions</b>	<b>Input</b>	External ON/OFF • Standby • Activity control • Pumping OFF • Inhibition of Zones • VP Control • ON/OFF communications • External speed control • External Pumping control • Proportional Valve control • Pumping mode operation (rpm or pressure control)
	<b>Outputs</b>	Low level • Machine Ready • Alarm • ON/OFF • Adhesive block nearly empty • Adhesive block empty • Drive error • Gas pressure • Foam pressure.
<b>Electrical requirements</b>	3N ~ 400V 50/60 Hz + PE (please consult on other voltages)	
<b>Options</b>	Pneumatic by-pass valve pressure control system, communication protocols (Modbus RTU, Profinet, Ethernet IP, Profibus), StarBi pattern controler.	

(\*) According to adhesive type and working conditions.

Patent pending