

# MC21 MOD Adhesive Slug Melter

Highly-versatile adhesive melters process moisture curing polyurethane (PUR) hot melts from foil-encased slugs.



Based on years of worldwide experience, Nordson designed the MC21 MOD (Melt-On-Demand) slug melters to process PUR hot melts from environmentally-friendly, 20-liter foil-encased slugs. A pneumatic piston lowers a stamp with adjustable force onto the foil bag for optimal contact between adhesive and melting grid. The force presses the adhesive out of the bag leaving virtually no residue. The empty bag can be disposed of easily.

The MC21 MOD melters offer a newly implemented melt-on-demand (MOD) software functionality to improve adhesive processing by optimizing the temperature handling inside the melter. To process the PUR hot melt, the open bag is pressed directly onto the melt grid. Depending on the level of molten adhesive in the melter reservoir, the pneumatic piston as well as grid heating will be switched ON and OFF. This new MOD function reduces thermal stress on temperature-sensitive materials and protects bonding characteristics.

Additionally many new standard, configurable features simplify daily operation and maintenance to meet increased productivity requirements. A number of configurable options offer flexibility to customize MC21 MOD slug melters for specific production and application requirements.

## Features and Benefits

- Non-stick release coating and tiltable tank provide easy access and ease clean-up and maintenance.
- Platen design minimizes the amount of adhesive remaining in the foil bag.
- Industrial PC (IPC) provides intuitive melter control of all relevant functions – pump speed, temperatures, etc. – for reproducible adhesive bonding quality.
- Level sensor with two (2) measuring points installed in the reservoir provides level information to operator to minimize machine downtime.
- Swiveling tank lid allows easy change of foil bags.
- Refilling without machine stop as reservoir holds sufficient molten adhesive to compensate for changing a foil-encased slug.
- Exhaust hood allows for emission-free change of foil bag.

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## Technical Specifications

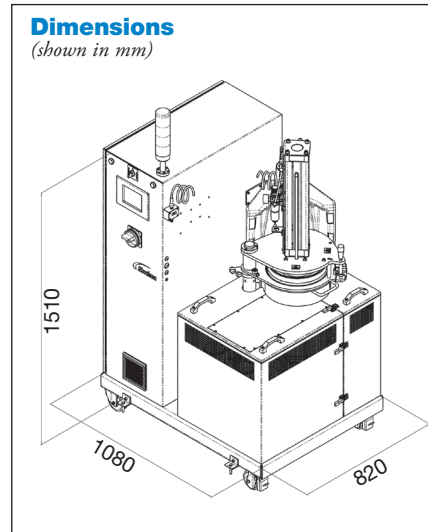
<b>Drive</b>	Frequency-controlled AC drive
<b>Voltage</b>	400V 3-phase WYE – 50/60 Hz 230V 3-phase Delta – 50/60 Hz
<b>Melt Rate<sup>1</sup></b>	20 ltr./hr (44.09 lbs/hr)
<b>Slug Diameter</b>	280 mm (11 in.) 286 mm (11.26 in.)
<b>Temperature Sensor</b>	Ni120
<b>Pump Type</b>	Positive displacement gear
<b>Ambient Temperature</b>	10 to 40° C (50 to 104° F)
<b>Operating Temperature</b>	40 to 230° C (104 to 446° F)
<b>Weight</b>	approx. 470 kg (1.036 lbs)
<b>Degree of Protection</b>	IP32

Performance depending on viscosity, operating pressure and adhesive rheology

<sup>1</sup>Exact values depending on specific adhesive type

## Options/Configurations

	<b>pump #1</b>	<b>pump #2</b>
<b>Pump Sizes</b>	SN0093	SN0093
	SN0186	SN0186
	SN0371	SN0371
	SN0773	SN0773
	SN1710	none
<b>Hose/Gun Pairs</b>	2, 4 or 6 hose/gun pair (4, 8 or 12 external channels)	
<b>Thermostats</b>	150° C (300° F), 180° C (350° F), or 230° C (450° F)	
<b>Flow Control</b>	Manual Pneum. Pressure Control Flow Control Bypass IPI w/Output Pressure Control per Drive Standard Manual Pressure Control Valve	
<b>Light Tower</b>	yes	
<b>Profibus DP</b>	yes	
<b>Key-to-Line Per Pump</b>	yes	



For more information, speak with your Nordson representative or contact your Nordson regional office.

### United States

Duluth, Georgia  
(800) 683-2314 **Phone**  
(866) 667-3329 **Fax**

### Canada

Markham, Ontario  
(800) 463-3200 **Phone**  
(905) 475-8821 **Fax**

### Europe

Erkrath, Germany  
(49) 211-9205-0 **Phone**  
(49) 211-254658 **Fax**

### Japan

Tokyo, Japan  
(81) 3-5762-2700 **Phone**  
(81) 3-5762-2701 **Fax**

### Asia/Australia/

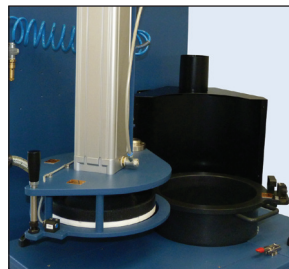
### Latin America

Amherst, Ohio  
(440) 985-4797 **Phone**  
(440) 985-1096 **Fax**

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Swiveling tank lid



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