

MC 21 Series Foil Bag Adhesive Application System



Highly versatile line of adhesive melters process moisture curing polyurethane (PUR) hot melts from foil bags.

Increased demand for environmental protection calls for further innovation in hot melt adhesive processing. One such innovation is that polyurethane (PUR) adhesives are supplied in aluminum foil bags to avoid residue from these hot melts. Based on many years of worldwide experience, Nordson has designed the MC 21 series foil bag melters to process moisture-curing PUR hot melts from environmentally-friendly, 20-liter foil bags.

Additionally many new standard features simplify daily operation and maintenance - helping increase your productivity and giving you a competitive advantage. A number of options give you flexibility to customize MC 21 foil bag melters for specific production requirements.

To process the PUR hot melt, the open bag is pressed directly onto the grid in the melt zone. The MC 21 melters only melt the adhesive that is required for processing. This reduces thermal stress on temperature sensitive materials and protects the bonding characteristics.

A pneumatic piston lowers a stamp with adjustable force onto the foil bag, ensuring optimal contact between adhesive and melting grid. The force presses all the adhesive out of the bag leaving no residue. The empty bag can be disposed of easily. A broad selection of gear pumps allows MC foil bag melters to be customized to meet individual application needs and adhesive properties.



Features

- Non-stick release coating and tiltable tank provide easy access and ease clean-up and maintenance
- Microprocessor-based CS 20 control system with easy-to-use operator panel and 7-segment displays provides precise control of pump speed and temperatures for reproducible adhesive bonding quality. Features include sequential startup, programmable over and under-temperature alarms, temperature setback and automatic diagnostics.
- Platen design minimizes the amount of adhesive remaining in the foil bag
- Programmable "low" and "empty" signals
- Warning light tower for visible status of the unit (on/ ready/ low/ empty)
- Swiveling tank lid allows for easy change of foil bags
- Refilling without machine stop
- Programmable week day timer
- Exhaust hood allows for emission-free change of foil bag
- Automatic run-up capability adjusts adhesive output to changes in line speeds.
- Parent machine interface

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Options

- Profibus interface allows seamless integration into the control system (PLC) of the production machine for statistical process control/data logging, remote control of all functions or viewing of process data.
- Additional temperature channels for extra hose/gun combinations
- Pneumatic bypass



Swiveling tank lid

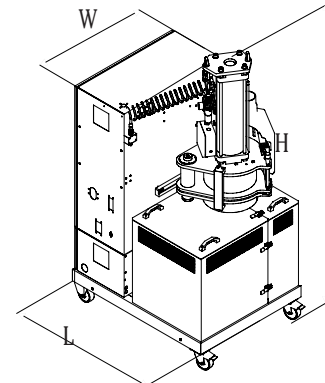


Tiltable tank for easy cleaning and maintenance



Foil bag before and after processing

Dimensions



L : 1080 mm
 W : 820 mm
 H : 1640 mm

Specifications

Drive	Frequency-controlled AC drive	Gear pumps	Hose connections	Wattage ²
Voltage ¹	400 or 480 VAC 3-phase, 50/60 Hz	MC 21 - 1x1 1	1	7,8 kW
Melt rate ³	20 l/h	MC 21 - 1x2 1	2	7,8 kW
Foil bag (pail) diameter	280 mm (11 in.)	MC 21 - 2x1 2	2	8,8 kW

Temperature sensor Ni 120
 Degree of protection IP32

¹ Configurable

² Base unit with gear pump for one hose/gun

³ Depending on adhesive type

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