

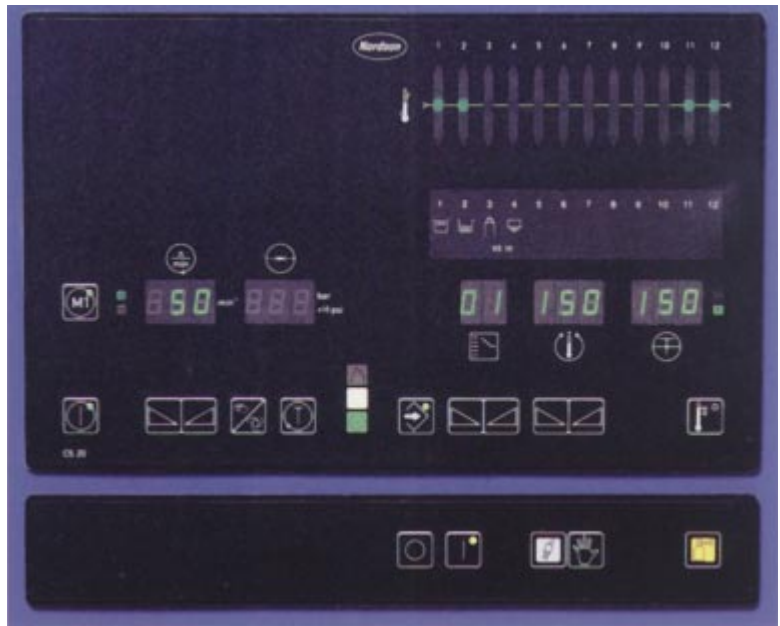
# MC SERIES APPLICATORS

The new standard in reactive hot melt adhesive application systems



# MC 12, MC 24 and MC 4420 Adhesive Systems offer the th

**Continuous-output MC Series dispensing systems efficiently process moisture-curing reactive (PUR) hot melts without production interruptions for adhesive refilling.**



*Standardized international symbols on the CS 20 operator panel and gas panel provide easy understanding and safe operation.*

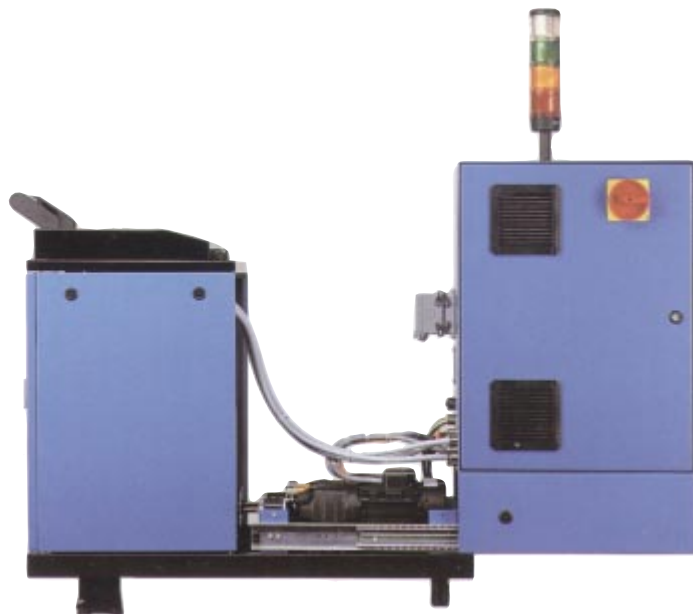
The advanced-technology MC Series Systems are designed to process PUR hot melts for continuous-output operation. All units have an automated gas monitoring system that maintains adhesive integrity during periods of inactivity and simplifies Startup and shutdown procedures.

A choice of gear pumps in different sizes, combined with dual-pump capacity and variable-speed AC drives, allows users to customize the Systems and optimize material output to match specific needs. Each pump supports up to two automatic hoses for added flexibility and increased production capacity.

All MC Systems can process PUR adhesive from peelable bags in different standard sizes. In addition, the MC 4420 system can process adhesive from 20-liter (5-gal) pails.

The sliding electrical cabinet allows easy access to pumps and other system components for maintenance. Standard features such as over/undertemperature settings with external alarm capability, temperature setback and the at-a-glance status display panel increase operational safety.

With options for the most diversified applications and production needs available, the MC Series helps increase productivity, improve product quality, reduce waste and simplify maintenance in many PUR assembly applications such as profile wrapping, edge-banding or postforming operations in the woodworking industry.



*Control Cabinet slides easily for quick pump access.*

# The latest technology in PUR adhesive processing.



*The MC systems can handle and process PUR adhesives in all major standard sizes and packaging.*



*The unique pressurized inert gas lid design protects adhesive from moisture to prevent premature curing.*



*The operator adds a 20-liter (5-gallon) metal pail to the hopper of an MC 4420. The unit continues to pump adhesive from the lower reservoir during pail changes.*

## Standard features and benefits.

### Adhesive-friendly features carefully handle PUR hot melts and reduce waste.

- New pressure lid design and pressurized inert gas blanket protect adhesive from moisture to prevent premature curing.
- Automated gas monitoring system prevents adhesive from curing during times of inactivity such as weekends, simplifying startup.
- Temperature setback for all heated zones minimizes char formation and protects adhesive characteristics during periods of inactivity.

### Increased operational safety and production efficiency.

- Controller includes digital temperature display in Celsius or Fahrenheit, over/undertemperature alarm settings with external alarm capability, overtemperature protection and parent-machine interlock.
- Microprocessor-based control provides PID temperature control to maintain temperature accuracy to within +/- 0.5°C (1°F) of setpoint.

- Key-to-line operation varies output proportional to line speed by varying motor/pump speed as line speed varies.
- Light tower alerts operator to system status: white for power on, green for system ready, amber for low adhesive level, red for under/overtemperature or low inert gas supply conditions.
- Digital RPM readout of each individual pump provides easy adjustment and monitoring.
- IP54-rated enclosure meets safety requirements for industrial environments.
- Level-control sensor monitors adhesive level and alerts operator to replenish adhesive before downtime occurs. (Standard feature for MC 4420 only.)
- The ChemCoat® release coating on internal surfaces allows quick and easy cleaning.

### Efficient design simplifies maintenance.

- Sliding electrical cabinet allows easy pump access.
- Quick-disconnect electrical plugs for all major heating zones speed installation and servicing.

### Options provide additional application control.

- Colored bar graph temperature display provides constant temperature-channel monitoring.
- Digital readout of individual pump pressure values provides quick visual status and control.
- Pump shutoff device permits pump removal without draining the tank.
- Seven-day timer automates startup and shutdown procedures, saving operator's time.

\* ChemCoat is a registered trademark of Impreglon GmbH.

## Specifications

Features	MC 12	MC 24	MC 4420
Type	Tank	Tank	Tank I grid reservoir
Adhesive size / form	2 kg / 4.4 lb blocks	2 kg / 4.4 lb blocks	20 kg / 44 lb blocks/pails
Tank dimensions	160 x 190 mm 6.3 x 8.2 in.	160 x 350 mm 6.3 x 13.7 in.	Dia. 300 mm 11.8 in.
Holding capacity	12 kg / 26 lb	24 kg / 53 lb	39kg / 86 lb
Melt rate*	6 kg/hr 13 lb/hr	11 kg/hr 24 lb/hr	20 kg/hr 44 lb/hr
Pump rate**		Up to 65 kg/hr, 143 lb/hr	
Electrical service		400 VAC Y, 230 VAC 3 ph	
Max. unit power consumption*** (400 VAC)	17.3 kW 25 A	22 kW 32 A	22 kW 32 A
Operating temperature		50 - 150°C / 122 - 300°F	
Viscosity range		1,000 - 50,000 cps	
Dimensions L x W x H	950 x 380 x 912 mm 37.4 x 15 x 35.9 in.	950 x 600 x 915 mm 37.4 x 24 x 36 in.	1155 x 600 x 1506 mm 45.4 x 24 x 59.3 in.
Number of pumps/hoses	1 x 1, 1 x 2, 2 x 1	1 x 1, 1 x 2, 2 x 1, 2 x 2	1 x 1, 1 x 2, 2 x 1, 2 x 2

\* Rates shown will vary depending on adhesive type and application parameters.

\*\* Depending on adhesive type and configuration.

\*\*\* Total system power consumption is dependent on individual unit configuration, hoses and guns.



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