

Series MX 3400 and MX 4400 provide unmatched flexibility to help keep you productive.

Series MX 3400

Versatile hot melt applicators offer expanded capacity; advanced multiple gear pump capability maximizes adhesive output control.

The modular design of Meltex MX 3400 Series hot melt applicators offers the configuration flexibility to meet the demands of sophisticated applications requiring a tank-type unit. The accuracy of individual metering gear pumps and matching motors provides uniform output and adhesive pattern control. Standard versions are available with up to four pumps, each capable of handling one hose/gun combination.

Additionally, single and dual pump units accommodate up to two hoses per pump. Applicators can be equipped with a choice of pump sizes and variable-speed AC drives. The series features a high-profile, tank-type hopper design with holding capacities up to 60 kg (132 lb) of adhesive, and melt rates up to 30 kg (66 lb) per hour. A wide standard operating temperature range of 50 to 200°C (122 to 392°F) provides versatility in meeting diverse application requirements (250°C/480°F optional).

Microprocessor-based PID temperature controllers and Ni 120 RTD, PT 100 or thermocouple sensors maintain temperatures to within ± 0.5°C (1°F) of setpoint for each heated zone. Temperature controllers feature a digital temperature display (°C or °F), over and undertemperature alarm settings with external alarm capability, overtemperature protection, self-testing and error message display.



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

Standard Features and Benefits

- Multiple pump configurations with selection of various pump sizes and matched drives meet individual requirements.
- Key-to-line capability (tach optional) provide consistent patterns.
- Protective antistick/antioxidation coated tank minimizes char buildup.
- Digital readout of individual drive RPM provides easy adjustment and monitoring.
- System-ready delay prevents coldstart damage to pump.
- Large-capacity filters for each pump remove contaminants that can cause nozzle clogging.
- IP 54 rate enclosure meets the safety requirements in the individual environment.
- Sliding electrical cabinet allows easy access to the pumps.
- Temperature setback (standby function) minimizes char formation and energy consumption during periods of inactivity.
- Forklift transport capability.
- Wide selection of hoses, guns and nozzles (Ni 120 RTD; PT 100; thermocouple) meets a variety of application demands.

A Selection of Options

- Pump shutoff device allows pump removal without first draining the tank.
- RS 485 data interface provides state-of-the-art PC/PLC-host communication.
- Colored temperature-band display allows easy monitoring of all temperature channels (see photo above).
- Heated and unheated extended hoppers increase holding capacity.
- Digital readout of individual pump pressure values provides easy access and control.



Flexible heat insulation of tank/grid reservoir section meets "CE" guidelines.

Series MX 4400

High-performance hot melt applicators feature grid/melter design with dual melt zones for precisely dispensing high-viscosity adhesives at high melt rates.

Meltex MX 4400 Series hot melt applicators deliver maximum performance in applying hard-to-handle, high-viscosity adhesives. Dual melt zones optimize melt rate and help prevent adhesive bridging. Melt rate is also enhanced through the grid/melter/reservoir design, which provides increased heated surface area contact. To keep up with the most demanding production requirements, the series provides high volume output with a holding capacity up to 160 kg (352 lb) and melt rate up to 120 kg (264 lb) per hour.

Individual metering gear pumps with separate drives provide precise material output and control. Systems can be matched to application requirements through a choice of pump sizes, multiple pumps (up to four) or variable-speed AC drives. Each pump supports a single hose/gun combination, with the exception of single and dual pump units which handle a maximum of two hoses per pump.

A wide standard operating temperature range of 50 to 200°C (122 to 392°F) provides versatility to meet diverse application requirements (250°C / 480°F optional).

Heated zones employ microprocessor-based PID temperature controllers and Ni 120 RTD, PT 100 or thermocouple sensors to maintain temperatures to within ± 0.5°C (1°F) of setpoint. Comprehensive temperature controllers feature digital temperature display (°C or °F) over and undertemperature alarm settings with external alarm capability, overtemperature protection for tank, self-testing and error-message display.

Standard Features and Benefits

- Warm hopper maintains adhesive at "low melt" zone temperatures for increased melt rate and minimized adhesive bridging.
- Grid and hopper melt zones are separate castings with an insulating barrier between castings to maintain temperature isolation.
- Multiple pump configuration with selection of various pump and drive sizes deliver application flexibility.
- Key-to-line capability (tach optional) provide consistent patterns.
- Protective antistick/antioxidation coated tank minimizes char buildup.
- Digital readout of individual drive RPM provides easy adjustment and monitoring.
- System-ready delay prevents coldstart damage to pump.
- Large-capacity filters for each pump remove contaminants to reduce nozzle clogging.
- IP 54 rate enclosure meets the safety requirements in the industrial environment.
- Sliding electrical cabinet allows easy access to the pumps.
- Temperature setback (standby function) minimizes char formation and energy consumption during periods of inactivity.
- Forklift transport capability.
- Wide selection of hoses, guns und nozzles



Pump shutoff device reduces downtime and maintenance costs.

A Selection of Options

- Pump shutoff device allows pump removal without first draining the tank.
- RS 485 data interface provides state-of-the-art PC/PLC-host communication.
- Colored temperature-band display allows easy monitoring of all temperature channels.
- Heated and unheated extended hoppers increase holding capacity.
- Digital readout of individual pump pressure values provides quick visual access and control.



Control cabinet slides easily for quick pump access.

Specifications

Applicator	MX 3412	MX 3424	MX 3460	MX 4412	MX 4424	MX4460	MX 44110	MX 44160
Type of System	Gear pump with tank-type unit			Gear pump with grid/reservoir-type unit				
Holding Capacity	12 kg 26 lb	24 kg 53 lb	60 kg 132 lb	12 kg 26 lb	24 kg 53 lb	60 kg 132 lb	110 kg 242 lb	160 kg 352 lb
Extended Hopper Capacity	12 kg 26 lb	22 kg 48 lb	40 kg 88 lb	12 kg 26 lb	22 kg 48 lb	40 kg 88 lb	80 kg 176 lb	115 kg 253 lb
System Melt Rate¹	5 kg/hr 11 lb/hr	15 kg/hr 33 lb/hr	30 kg/hr 66 lb/hr	10 kg/hr 22 lb/hr	20 kg/hr 44 lb/hr	40 kg/hr 88 lb/hr	80 kg/hr 176 lb/hr	120 kg/hr 264 lb/hr
Maximum Pumping Rate² One Pump Units	up to 140 g/min 18.5 lb/hr	up to 270 g/min 35.6 lb/hr	up to 550 g/min 72.6 lb/hr	up to 270 g/min 35.6 lb/hr	up to 550 g/min 72.6 lb/hr		up to 1150 g/min 151.8 lb/hr	up to 2100 g/min 277.2 lb/hr
Maximum Pumping Rate² Two and Three Pump Units	(two only) up to 66 g/min 8.7 lb/hr	up to 140 g/min 18.5 lb/hr	up to 270 g/min 35.6 lb/min	(two only) up to 140 g/min 18.5 lb/hr	up to 270 g/min 35.6 lb/hr		up to 550 g/min 72.6 lb/hr	up to 1150 g/min 158 lb/hr
Maximum Pumping Rate² Four Pump Units		up to 140 g/min 18.5 lb/hr			up to 140 g/min 18.5 lb/hr	up to 270 g/min 35.6 lb/hr		up to 550 g/min 72.6 lb/hr
Maximum Unit Power Consumption³	1800 W 7.5 A	3240 W 7.8 A	5400 W 13 A	2400 W 10. A	4700 W 11.3 A	6600 W 15.9 A	13,600 W 20.6 A	20,000 W 30.4 A
Temperature Range	50 - 200°C (122-392°F); optional high-temperature version up to 250°C (480°F)							
AC Motor	20 - 80 RPM recommended range							
Electrical Service	208/240 VAC 50/60 Hz, 1ø 400Y VAC, 3ø	240 VAC, 50/60 Hz, 3ø 400Y VAC, 3ø		208/240 VAC 50/60 Hz, 1ø 400Y VAC, 3ø	240 VAC, 50/60 Hz, 3ø 400Y VAC, 3ø			
Weight	105 kg 231 lb	215 kg 474 lb	280 kg 617 lb	110 kg 242 lb	220 kg 485 lb	285 kg 628 lb	440 kg 970 lb	600 kg 1323 lb
Dimensions: Length	950 mm 37.4 in.	950 mm 37.4 in.	1110 mm 44 in.	950 mm 37.4 in.	950 mm 37.4 in.	1110 mm 44 in.	1110 mm 44 in.	1110 mm 44 in.
Width	380 mm 15 in.	600 mm 24 in.	600 mm 24 in.	380 mm 15 in.	600 mm 24 in.	600 mm 24 in.	850 mm 33.4 in.	1200 mm 47 in.
Height	770 mm 30.3 in.	925 mm 36.4 in.	925 mm 36.4 in.	770 mm 30.3 in.	925 mm 36.4 in.	925 mm 36.4 in.	923 mm 37.3 in.	953 mm 37.5 in.

- Notes:
1. Melt rates are based on standard packaging grade adhesive with viscosity of 2,000 cps.
 2. Rate per pump based on standard pump size only; pumping rate varies depending on pump size specified; rates correspond to a 20 - 80 rpm operating range.
 3. Total system power consumption is dependent on individual unit configuration, hoses and guns.



All Series 3400 and 4400 units incorporate cast-in heaters guaranteed for 5 years. If your tank or grid malfunctions within this time due to a faulty heater, we'll replace it – free.



For more information, talk with your Nordson representative or contact your Nordson regional headquarters.

- United States**
Duluth, Georgia
Telephone: (800) 683-2314
Facsimile: (770) 497-3733
- Canada**
Markham, Ontario
Telephone: (905) 475-6730
Facsimile: (905) 475-8821
- Europe**
Lüneburg, Germany
Telephone: (49) 4131-894-0
Facsimile: (49) 4131-894-149
- Japan**
Tokyo, Japan
Telephone: (81) 3-5762-2700
Facsimile: (81) 3-5762-2701
- Asia/Australia/Latin America**
Duluth, Georgia
Telephone: (770) 497-340 0
Facsimile: (770) 497-3588



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