



Adhesives & Sealants Guide

2018-2019
12th Edition



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Address all correspondence to:

Nordson Corporation

Attn: Customer Service

11475 Lakefield Drive

Duluth, GA 30097

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Purpose

Using the Guide

The Adhesives and Sealants Equipment Guide is a quick-reference document that supports new equipment sales and purchasing decisions for mainstream packaging and product assembly and nonwovens applications.

This information provides basic equipment capabilities and complements Nordson product support materials such as user manuals, training manuals, sales aids and product literature.

Value-Added Customer Service

At Nordson the best solutions begin with service, and Nordson provides unparalleled service to its **customer before, during and after the sale.**

- Nordson maintains an extensive network of regional offices, direct operations, select distributors and joint ventures to provide local support, service and training.
- Factory-trained sales and service personnel provide solid technical support to help tailor a system that is right for your production needs.
- Strategically located product testing and demonstration labs throughout the world allow you to evaluate equipment and systems before a purchase.
- Major replacement parts and components are stocked locally, and a network of direct operations provides local-language technical support to help keep your operation up and running.

A full range of accessories, kits, and standard parts helps improve productivity and minimize downtime.

Sales and Service Locations

Contact a Nordson representative for more information on special and non-standard engineered products, service parts, engineering and technical illustrations, price and delivery:

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Order Entry: (888) NORDSON

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Information on equipment not contained in the current edition of this guide can be found in previous versions of the Adhesives and Sealants Equipment Guide, which are available on CD.

NOTE: *This document was bound using Nordson adhesive application systems.*

**This service is not available in all countries.*

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Web Content



Freedom[®] Hot Melt Adhesive Dispensing System

Description

The Freedom Hot Melt Packaging System integrates the tankless Freedom Series melter with an automatic fill unit, RediFlex hoses, MinBlue II SureBead applicators and an Optix touch-screen control panel.

The Freedom hot melt adhesive system is an adhesive melting, transfer, and dispensing system that offers users:

- Freedom from mounting limitations
- Freedom from manual adhesive filling
- Freedom from confusing controls and diagnostics
- Freedom from excessive adhesive use
- Freedom from downtime due to char and contamination

The important characteristics of the Freedom system are briefly described here. For more detailed information, refer to the melter manual.

Touch Screen Controls

The system is controlled through a user-friendly color touch screen control system, called Optix™, that all users can effectively operate. The Optix control system includes:

- a color-coded (green, red, or yellow) status indication that indicates system health
- easy setup of inputs/outputs
- text-based indications for system problems
- a system inventory and component identification function that shows what components are connected and provides their part numbers for easy reordering

Integrated Fill System

The Freedom system includes an integrated fill system. The melter reservoir stores only 1.1 kg (2.5 lb) of molten adhesive. Solid adhesive stored in an adhesive container is automatically transferred to the melter as needed.

Easy to Service

The melter's internal components can be accessed entirely from the front, without removing the melter from its mount.



Freedom Hot Melt Adhesive Dispensing System



Watch Video

Smart Melt Technology

When the Smart Melt technology is enabled, the melter's internal zones automatically switch off when the integrated fill system has not activated for a user-specified amount of time. The system continues to maintain ready status until a fill signal is generated.

EcoBead Technology

Systems that include the EcoBead technology can provide adhesives savings of up to 60% while still maintaining full adhesive bond integrity. The EcoBead technology is enabled by using the touchscreen to choose the desired adhesive savings and to select a pre-programmed adhesive pattern.

Freedom[®] Hot Melt Adhesive Dispensing System

Specifications

Freedom Series Melter

- Tankless, virtually eliminates char
- Saves energy
- Fast system start up
- Flexible mounting and integration



Item	Specification
Types of system	Tankless, automatically filled, non-circulating, 15:1 dual acting piston pump
Maximum pump rate	33 kg/hr (72 lb/hr) at 90 strokes/min
Filter type	Inside-out
Maximum working hydraulic pressure	10.3 MPa (1500 psi)
Temperature range	40 to 204 °C (100 to 400 °F)
Ambient temperature range	0 to 40 °C (32 to 104 °F)
Temperature control stability	± 0.5 °C (±1 °F)
Input/output capability	4 inputs and 3 outputs (standard)
Hose ports	Up to four
Electrical service	200 to 240 VAC, 1 or 3 phase, 50/60 Hz 400/230 VAC 1 phase N/PE 50/60 Hz
Melt rate (per hour)	9 to 12 kg/hr (20 to 27 lbs/hr)
Max. system power capacity	2 hoses/applicators, 2000 W* 4 hoses/applicators, 4000 W* <i>*2000 W per 2 hose/2 applicator pair: 1200 W per hose/ applicator pair and 1000 W per single channel</i>
Melter enclosure rating	IP 54
Melter weight (empty)	45.4 kg (100 lb)
Dimensions W x H x D	838 mm x 533 mm x 279 mm 33 in. x 21 in. x 11 in.
Service envelope W x H x D	889 mm x 787 mm x 406 mm 35 in. x 31 in. x 16 in.
Adhesive forms	Pellets, pastilles, and mini-slats
Maximum size	Spherical (pastilles): 25 mm maximum Mini-slats: 25 mm maximum
Adhesive transfer maximum rate	275 kg/hr (600 lbs/hr) (dependent on adhesive type)

Freedom[®] Hot Melt Adhesive Dispensing System

Integrated Adhesive Filling

- Level monitoring window
- Quick change exhaust filter
- Quick-disconnect pump
- Removable cyclone top



Item	Specification
Operating air (dynamic)	Minimum pressure 2.75 bar (0.275 mPa or 40 psi) Maximum pressure 5.5 bar (0.55 mPa or 80 psi)
Operating air (static)	Maximum pressure 6.9 bar (0.69 mPa or 100 psi)
Total air consumption	At 3.75 bar (55 psi) (dynamic pressure), 680 liters/min (24 SCFM) when feeding
Conditioning	Dry, non-lubricated air inlet connection 3/8 in. NPT transfer
Pump Type	Venturi filter mesh size 6 MERV
Storage container capacity (single-feed, 120L)	40 kg (88 lb) usable with grate 64 kg (141 lb) usable without grate
Enclosure rating	IP54

Freedom[®] Hot Melt Adhesive Dispensing System

Optix Controls

- Text-based fault and diagnostic messaging
- Component identification functionality
- Choice of languages
- Touch screen GUI



Item	Specification
Program storage	50 with customer-defined name
Service intervals	1 customer settable (with customer-defined name)
Password protection	3 levels, numerical
Touch screen	7-inch color, (800 x 480 WVGA)
EcoBead™ Intermittent Bead Capability	
Pre-programmed patterns	10 per glue savings selection (total of 40)
Adhesive savings	30, 40, 50, or 60%
Beads per product	1 to 8
System Inventory	
Automatically identified components	Hoses, applicators, melter
Displayed information	Part number, serial number, installation date
Electronic nameplate information	Watts, amps, voltage
Input/Output Interface	
Inputs	4, customer assignable functions
Input voltage	10 to 30 VDC, polarity insensitive
Outputs	3, customer assignable functions
Output type	N.O. potential-free contact; all open when melter is off
Contact rating	240 VAC @ 2 A and 30 VDC @ 2 A
Temperature Control	
Stability	± 0.5 °C (± 1 °F)
Temperature range	40 to 204 °C (100 to 400 °F)
PID control values	Optimized by component I.D.

Freedom[®] Hot Melt Adhesive Dispensing System

Freedom Series Hoses

- Energy saving
- Easy routing with mounts
- Component I.D. enabled

Item	Specification
Maximum operating temperature	204 °C (400 °F)
Maximum hydraulic pressure	10.34 MPa (1500 psi) diameter
Input voltage	240 VAC



Freedom Series Applicators

- Configurable MiniBlue II Applicators*
- MiniBlue II LP Applicators
- E400 Applicators
- Industry-best service life
- Self-cleaning modules



Item	Specification
Operating temperature	204 °C (400 °F) maximum
Operating air pressure ¹	3.4 to 5.5 bar (50 to 80 psi)
Working hydraulic pressure	103 bar (1500 psi) maximum
Nozzles	MiniBlue [®] II: Saturn [®] , standard MiniBlue II SureBead [®]
Saturn [®] solenoid valves	Single module: SP, 4-way, 24 VDC Multi module: SP multi-module, 4-way, 24 VDC
Electrical service	240 VAC, 50/60 Hz initial 200 VAC, 50/60 Hz optional
Maximum cycle rate	8000/min
Minimum bead deposition	2 ms (adhesive dependent)
Adhesive viscosity	500 to 1500 cps optimal 500 to >5000 cps capability
Hydraulic seal	Elastomer bellow (long service life)

*Contact your Nordson Sales Representative for configurable applicators.

Freedom[®] Hot Melt Adhesive Dispensing System

Freedom System Product Configuration Tree

Choose Melter	
Part Number	Description
1121223	Melter, 2 Hose/Applicator
1121225	Melter, 4 Hose/Applicator

Choose Adhesive Storage Bin or Pump Box (1)	
Part Number	Description
1121952	Adhesive Storage Container, Single-Feed
Part Number	Description
1123015	Kit, Pump Box, Single-Feed, G3
1123102	Kit, FulFill, Plexiglass, G3

Choose Adhesive Transfer Hose Assembly	
Part Number	Description
1123375	Pump, Fill Hose, Cable, QD, 4 m
1123373	Pump, Fill Hose, Cable, QD, 9 m
1123374	Pump, Fill Hose, Cable, QD, 18 m
1123372	Pump, Fill Hose, Cable, Economy, 4 m
1123047	Pump, Fill Hose, Cable, 4 m
1123048	Pump, Fill Hose, Cable, 9 m
1123049	Pump, Fill Hose, Cable, 18 m

Choose Hose	
Part Number	Description
1121305	Hose, Standard, 1.0 m
1121306	Hose, Standard, 1.5 m
1121307	Hose, Standard, 2.0 m
1121308	Hose, Standard, 2.5 m
1121309	Hose, Standard, 3.0 m
1121310	Hose, Standard, 4.0 m
1121311	Hose, Standard, 5.0 m
1121312	Hose, Standard, 6.0 m
1121313	Hose, Standard, 7.0 m
1121314	Hose, Standard, 8.0 m
Part Number	Description
1121909	Hose, WaterWash, 1.0 m
1121910	Hose, WaterWash, 1.5 m
1121911	Hose, WaterWash, 2.0 m
1121912	Hose, WaterWash, 2.5 m
1121913	Hose, WaterWash, 3.0 m
1121914	Hose, WaterWash, 4.0 m
1121915	Hose, WaterWash, 5.0 m
1121916	Hose, WaterWash, 6.0 m
1121917	Hose, WaterWash, 7.0 m
1121918	Hose, WaterWash, 8.0 m

Documentation	
Part Number	Description
1121631	Freedom Product Manual
1121963	Freedom System Installation Guide
1121655	Freedom Quick Reference Guide
1121628	Freedom Hose Manual
1096215	MiniBlue II Product Manual
1120707	MiniBlue II Low Profile Applicator Product Manual
1048256	E400 Applicator Product Manual

Freedom[®] Hot Melt Adhesive Dispensing System

Choose Applicator/s

***Please use the Miniblue II Sales Configurator
(and be sure to choose the Freedom Option,
or use one of the applicators listed below).***

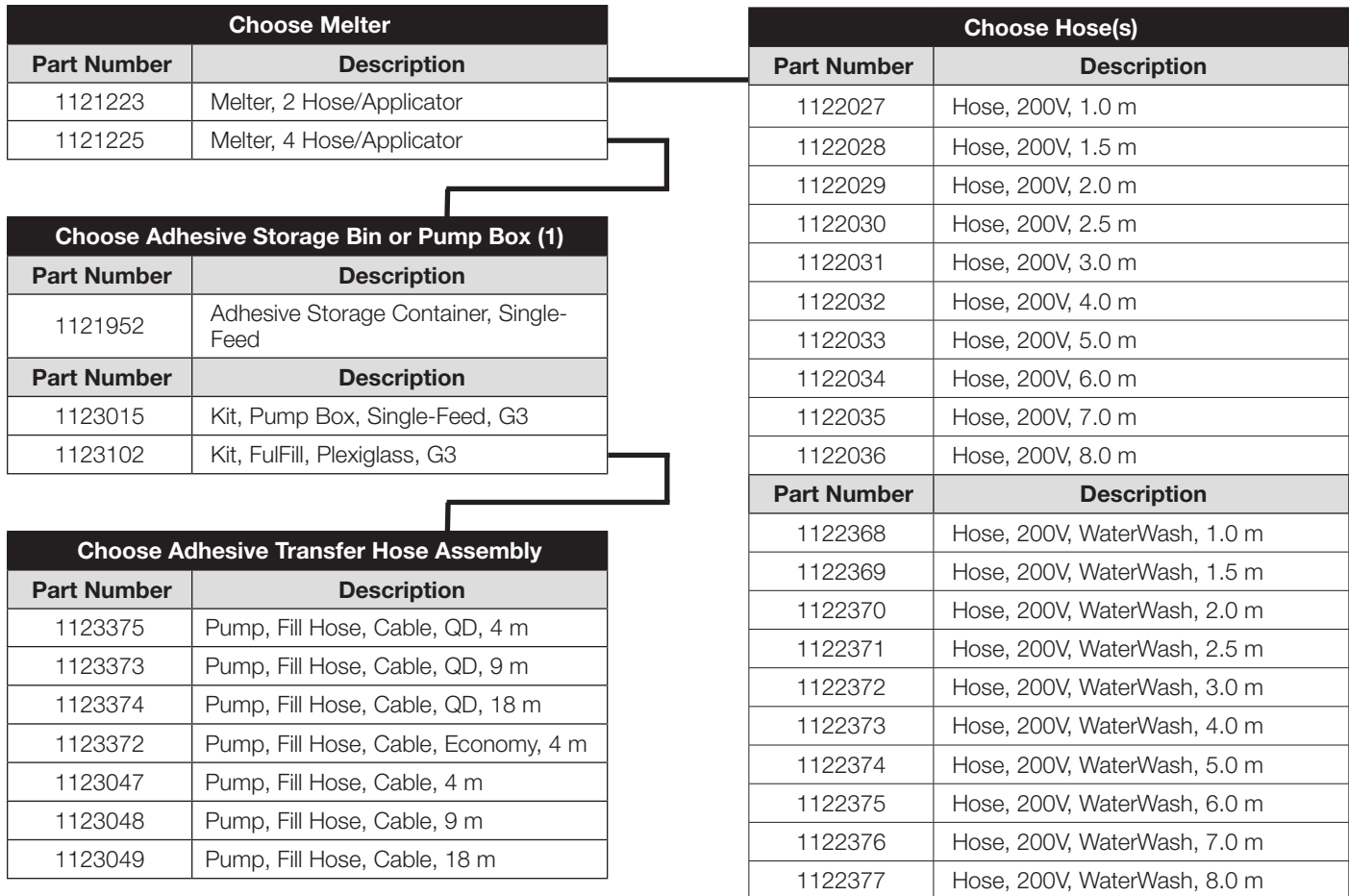
Part Number	Description
per UID	MiniBlue II Configurable Applicators
1121728	MB-II Low Profile 2 Mod 240V 0.88 in.
1121729	MB-II Low Profile 4 Mod 240V 0.88 in.
1122120	MB-II Low Profile 2 Mod 240V 0.88 in. WW
1122121	MB-II Low Profile 4 Mod 240V 0.88 in. WW

Accessories

Part Number	Description
1121239	Floor Stand with Flange
1121234	Caster Plate Kit for Floor Stand
1121243	Bench Top Stand
1123261	Transformer - 15 kVa
1122085	Kit, Grate, Adhesive Storage, 120L, Pellets, G3
1122769	Kit, Grate, Adhesive Storage, 120L, Slats, G3
1123346	Freedom Melter Fill Inlet Air Flush Kit
1122171	Solenoid Input Tubing Adapters (for 1/4 in. and 3/8 in. tubing)
1121990	Solenoid Splitter Cable (1 signal to two solenoids)

Freedom[®] Hot Melt Adhesive Dispensing System

Freedom System (200V) Product Configuration Tree



Freedom[®] Hot Melt Adhesive Dispensing System

Choose Applicator/s

Please use the Miniblue II Sales Configurator (and be sure to choose the Freedom Option, or use one of the applicators listed below).

Part Number	Description
per UID	MiniBlue II Configurable Applicators
1121730	MB-II Low Profile 2 Mod 200V 0.88 in.
1121731	MB-II Low Profile 4 Mod 200V 0.88 in.
1122122	MB-II Low Profile 2 Mod 200V 0.88 in. WW
1122123	MB-II Low Profile 4 Mod 200V 0.88 in. WW

Accessories

Part Number	Description
1121239	Floor Stand with Flange
1121234	Caster Plate Kit for Floor Stand
1121243	Bench Top Stand
1123261	Transformer - 15 kVa
1122085	Kit, Grate, Adhesive Storage, 120L, Pellets, G3
1122769	Kit, Grate, Adhesive Storage, 120L, Slats, G3
1123346	Freedom Melter Fill Inlet Air Flush Kit
1122171	Solenoid Input Tubing Adapters (for 1/4 in. and 3/8 in. tubing)
1121990	Solenoid Splitter Cable (1 signal to two solenoids)

Freedom[®] Hot Melt Adhesive Dispensing System

Freedom System – MultiFeed System (Feed System Components Only)

Choose Adhesive Storage Bin or Pump Box (1)	
Part Number	Description
1121953	Multi-Feed - 2 Feed
1121081	Multi-Feed - 4 Feed
Part Number	Description
1123149	Kit, Pump Box, Multi-Feed, G3
1123102	Kit, FulFill, Plexiglass, G3

Choose Sequencer Box (1)	
Part Number	Description
1122923	Kit, Sequencer, QD-2, G3
1122922	Kit, Sequencer, QD-4, G3
Part Number	Description
1122857	Kit, Sequencer-2, G3
1122858	Kit, Sequencer-4, G3

Freedom[®] Hot Melt Adhesive Dispensing System

Choose Adhesive Transfer Hose Assembly (1 per melter)

Part Number	Description
1123375	Pump, Fill Hose, Cable, QD, 4 m
1123373	Pump, Fill Hose, Cable, QD, 9 m
1123374	Pump, Fill Hose, Cable, QD, 18 m
Part Number	Description
1123372	Pump, Fill Hose, Cable, Economy, 4 m
1123047	Pump, Fill Hose, Cable, 4 m
1123048	Pump, Fill Hose, Cable, 9 m
1123049	Pump, Fill Hose, Cable, 18 m

Accessories

Part Number	Description
1122086	Kit, Grate, Adhesive Storage, 120L, Pellets, G3
1122770	Kit, Grate, Adhesive Storage, 120L, Slats, G3

Freedom® Hot Melt Adhesive Dispensing System

Parts and Accessories

Solenoid Valve-to-Melter Cables

Part	Description	Note
1100687	Cable Assy, Sol, M8, 3-wire, 5 m	
1100958	Cable Assy, Sol, M8, 3-wire, 10 m	
1100688	Cable Assy, Sol, 90-degree, M8, 3-wire, 5 m	
1100959	Cable Assy, Sol, 90-degree, M8, 3-wire, 10 m	
1121988	Kit, Cable, Extension, Sol, M8, 0.3 m Lg	A
1121989	Kit, Cable, Extension, Sol, M8, 90-degree, 0.3 m Lg	A
1121990	Kit, Cable, Splitter, Sol, M8, 1 m TO 2F, 0.3 m LG	A

NOTE A: These extension and splitter cables can be used for additional routing configurations.

Hose-to-Applicator Fittings

Hose Size	Applicator Body Thread Size	Hose-to-Applicator Fitting Part Number	Description
8 mm (5/16 in.), 9/16 in. x 18 threads, 37-degree JIC, size 6	9/16 in. x 18 threads, with O-ring	972628	Straight fitting
		972647	45-degree swivel fitting
		972646	90-degree swivel fitting

Optional Equipment

Part	Description	Note
1030537	Kit, Gauge, 1500 psi	—
1121239	Kit, Freedom, Mount, Floor, Fixed, DS1	
1121243	Kit, Freedom, Bench Support, DS1	A
1121234	Kit, Freedom, Caster Plate, DS1	B
1122108	Kit, Base Plate, Stand, Freedom	C

NOTE A: The melter bench stand is height-adjustable.
 B: Casters are for the melter floor stand only.
 C: This kit allows the melter to be free-standing, but not on casters.

Freedom[®] Hot Melt Adhesive Dispensing System

MiniBlue II LP Applicators—Freedom

Part	Description	No. Modules	Spacing Inches	Volts	Cord-set	Filter	Solenoid
1121728	MB2-BEL-LP-02ACA-022-F-F41	2	0.88	240	F	100 mesh	Saturn Platinum 24 VDC
1122120	MB2-BEL-LP-02ACA-022-D-F41 WW	2		240	D		
1121730	MB2-BEL-LP-02BCA-022-F-F41	2		200	F		
1122122	MB2-BEL-LP-02BCA-022-D-F41 WW	2		200	D		
1121729	MB2-BEL-LP-04ACA-022-F-F41	4	0.88	240	F	100 mesh	Saturn Platinum 24 VDC
1122121	MB2-BEL-LP-04ACA-022-D-F41 WW	4		240	D		
1121731	MB2-BEL-LP-04BCA-022-F-F41	4		200	F		
1122123	MB2-BEL-LP-04BCA-022-D-F41 WW	4		200	D		

Freedom[®] Hot Melt Adhesive Dispensing System

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Web Content



ProBlue Liberty™

Integrated Tankless Melter and Fill System

Description

ProBlue Liberty tankless system adds and melts only the adhesive you need, when you need it.

Integrated tankless melter and fill system maintains adhesive levels, increasing uptime while delivering energy and maintenance savings that result in increased operating efficiency and lower per-package costs.

A sensor monitors molten adhesive levels in the hopper and alerts the system when adhesive is needed. The closed system helps maintain adhesive bond strength by minimizing degradation that comes from prolonged thermal exposure, temperature variation and exposure to contaminants.

Features

- Hopper lid allows for easy access, yet keeps sealed design maintains adhesive purity by protecting from plant debris
- Disposable hydraulic filter is easy to reach and eliminates the need for routine filter flushing
- Automatic pressure discharge valve relieves pressure into melter in seconds
- Quick-disconnect power and I/O plugs combined with a patented, quick-release base design help simplify set up
- Service, maintenance and daily operation can be performed from one side of the melter
- Plug-in modules increase uptime by allowing quick addition and removal of hoses and applicators

Benefits

- Improves product quality and bond strength by maintaining consistent adhesive temperature, purity and bead volume
- Increases efficiency and safety
- Increases uptime with quick and easy maintenance provided by one-sided access to board fuses, quick-disconnect electrical replacement elements and front access to filter, pump and controls
- Increases plant operating efficiency by lengthening maintenance cycle and parts life while reducing machine jamming from pop-opens



ProBlue Liberty Adhesive Dispensing System



Watch Video

ProBlue Liberty™

Integrated Tankless Melter and Fill System

Specifications

ProBlue Liberty Series Melter

- Tankless, minimizes char
- Saves energy
- Fast system start up
- Flexible mounting and integration



Specifications	Description	
	Liberty 7	Liberty 14
Maximum melter set point	204 °C (400 °F)	
Adhesive forms	Pellets, pastilles, mini-slats Pastilles: 12 mm (0.472 in. diameter) Mini-slats: 12 mm x 12 mm (0.472 x 0.472 in.)	
Type of system	Non-circulating grid/hopper (15:1 SP-style piston pump)	
Maximum pump rate	32.7 kg/hr (72 lb/hr) Filter Type	
Filter type	Saturn basket-style filter	
Temperature range	40 °C to 204 °C (100 °F to 400 °F)	
Ambient temperature range	0 to 40 °C (32 °F to 100 °F)	
Temp. Control stability	±0.5 °C (1 °F)	
Input/output capability Standard	4 inputs and 3 outputs - come as standard 10 inputs and 7 outputs - with optional expansion board Ethernet IP & Fieldbus optional	
Hose ports	5	9
Electrical service standard	200 to 240 VAC 1 or 3 phase 50/60 Hz 400/230 VAC 1 or 3 phase N/PE 50/60 Hz	200 to 240 VAC 1 or 3 phase 50/60 Hz 400/230 VAC 1 or 3 phase N/PE 50/60 Hz
w/optional transformer	400 or 480 VAC 3 phase 50/60 Hz	400 or 480 VAC 3 phase 50/60 Hz
Holding capacity	1.7 kg (3.7 lb)	1.7 kg (3.7 lb)
Melt rate (per hour)	7 kg (15 lb)	14 kg (30 lb)
Throughput (per hour)	9 kg (20 lb)	14 kg (30 lb)
Max. Hose/Applicator power capacity 2 hoses/applicators 4 hoses/applicators 6 hoses/applicators <i>*2000 W per 2 hose & 2 applicator pair; 1200 W per hose & applicator pair and 1000 W per channel</i>	2000 watts 4000 watts N/A	2000 watts 4000 watts 6000 watts
Unit dimensions (WxHxD)	539.1 x 485.9 x 371.9 mm (21.22 x 19.13 x 14.64 in)	606.7 x 571.5 x 390.6 mm (23.89 x 22.50 x 15.38 in)

ProBlue Liberty™

Integrated Tankless Melter and Fill System

Integrated Adhesive Filling

- Multi-feed option can service up to four melters
- Large integrated agitator helps keeps adhesive flowing freely
- Window provides adhesive level-at-a-glance visibility
- Adhesive transfer hoses available in a variety of lengths
- Easy, snap-in hose connections
- Optional strainer baskets break up clumps of adhesive as it pours into container
- Optional, electrical, quick disconnect kits make it easy to move adhesive storage container
- Optional suction lance kit allows customers to use their adhesive supplier container
- Optional pump box kit allows end users to design their own enclosure and allows OEM's to integrate into the parent machine



Specifications	Description
Maximum recommended operating temperature	40 °C
Melter systems	Freedom Liberty ProBlue Fulfill Fulfill Retrofit
Adhesive forms	Pellets, pastilles, mini-slats Pastilles: 12 mm (0.472 in. diameter) Mini-slats: 12 mm x 12 mm (0.472 x 0.472 in.)
Adhesive transfer maximum rate	275 KG (600 lb)/hour (dependent on adhesive type)
Transfer hose length	4 m (13 ft.), 9 m (29.5 ft), or 18 m (59 ft)
Air conditioning	Dry, non-lubricated
Operating air - Static Minimum:	2.75 bar (0.275 MPa or 40 psi)
Maximum:	5.5 bar (0.55 MPa or 80 psi)
Operating air - Static Maximum:	6.9 bar (0.69 MPa or 100 psi)
Total air consumption	At 3.75 bar (55 psi) (dynamic pressure), 680 liters/min (24 SCFM) when feeding
Inlet air connection	¼-in. NPT female ¼-in. BSPP female G ¼ female
Dimensions (W x D x H)	Single-feed Adhesive Container Clearance 480 x 554 x 917 mm (19 x 22 x 36 in.) Multi-feed Adhesive Container Clearance 688 x 667 x 1656 mm (26 x 27 x 65 in.)
Adhesive container capacity (single-feed, 120L)	40 kg (88 lb) usable with grate 64 kg (141 lb) usable without grate
Enclosure rating	IP54
Noise emission	76 dBA

ProBlue Liberty™

Integrated Tankless Melter and Fill System

Parts & Accessories

Melters

Part	Description
1123327	Melter, PBL 7, 2HG
1123328	Melter, PBL 7, 4HG
1123329	Melter, PBL 7, 2H/G, 400/480V Delta
1123330	Melter, PBL 7, 4H/G, 400/480V Delta
1123331	Melter, PBL 14, 2H/G
1123332	Melter, PBL 14, 4H/G
1123333	Melter, PBL 14, 6H/G
1123334	Melter, PBL 14, 2H/G, 400/480V Delta
1123335	Melter, PBL 14, 4H/G, 400/480V Delta
1123336	Melter, PBL 14, 6H/G, 400/480V Delta

Optional Base

Part	Description
1039840	Base Assy, 1.5 KVA XFMR, ProBlue
1039841	Base Assy, 3.0 KVA XFMR, ProBlue
1061030	Base, Expansion, 8 H/G, P10

Adhesive Storage Container

Part	Description
1121952	Container, Adh Storage, SF, G3
1121953	Container, Adh Storage, MF, 2 Pump, G3
1122081	Container, Adh Storage, MF, 4 Pump, G3

Adhesive Transfer Hose Assembly

Part	Description
1121967	Kit, FF, Adh Trans Assy, 4 m, Std, G3
1121954	Kit, FF, Adh Trans Assy, 4 m, CL, G3
1121955	Kit, FF, Adh Trans Assy, 9 m, CL, G3
1121956	Kit, FF, Adh Trans Assy, 18 m, CL, G3
1124610	Kit, FF, Adh Trans Assy, 4 m, STD,QD, G3
1124611	Kit, FF, Adh Trans Assy, 4 m, CL,QD, G3
1124612	Kit, FF, Adh Trans Assy, 9 m, CL,QD, G3
1124613	Kit, FF, Adh Trans Assy, 18 m, CL,QD, G3

QD stands for Quick Disconnect

Sequencer

NOTE: Required if feeding multiple melters from a single source.

Part	Description
1122857	Kit, Sequencer-2, G3
1122923	Kit, Sequencer, QD-2, G3
1122858	Kit, Sequencer-4, G3
1122922	Kit, Sequencer, QD-4, G3

QD stands for Quick Disconnect

Accessories

Part	Description
1122085	Kit, Grate, Adh Str, 120L, Pellets, G3
1122086	Kit, Grate, Adh Str, 240L, Pellets, G3
1122769	Kit, Grate, Adh Str, 120L, Slats, G3
1122770	Kit, Grate, Adh Str, 240L, Slats, G3
1123346	Kit, Air Flush, G3
1123002	Kit, Pneum, 2 to 4 Feed Conv, MF, G3
1121992	Kit, Adh Str Container Latch, G3
1121806	Kit, Light Tower, FF G3
1124328	Kit, Air Flush, MF, G3
1124430	Kit, Air Flush, Wand, G3
1125306	Kit, Light Tower, ATS*
1125304	Kit, Conversion, PB/PBL, 4H, 230V, ATS
1125305	Kit, Conversion, PB/PBL, 6H, 230V, ATS
1125310	Kit, Conversion, PB/PBL, 4H, 480V, ATS
1125311	Kit, Conversion, PB/PBL, 6H, 480V, ATS
1125197	Kit, 24V & Serial Adapter Board, ATS (24V/Serial Adapter Board - purchase when installing 8 hose/ applicator expansion base)
1124858	Kit, USB to Serial Adapter

*For details on the Adhesive Tracking System (ATS), refer to the ATS section in this guide.



ProBlue Liberty™

Integrated Tankless Melter and Fill System

Parts & Accessories *(contd.)*

Suction Lance

Note: For use with large open tote.

Part	Description
1122132	Kit, FF, Suction Lance, 4 m, Gray, G3
1122763	Kit, FF, Suction Lance, 4 m, Clear, G3
1122764	Kit, FF, Suction Lance, 9 m, Clear, G3
1122765	Kit, FF, Suction Lance, 18 m, Clear, G3

Communication Devices

Part	Description
1053289	Kit, Ethernet Card
1053288	Kit, DeviceNet Card
1036607	Kit, I/O Expansion Card
1053300	Kit, PROFIBUS Card
1124963	Kit, PROFINET Card

DeviceNet is a registered trademark of ODVA, Inc.

Pump Box Kits

Part	Description
1123015	Kit, Pump Box, SF, G3
1123149	Kit, Pump Box, MF, G3
1123102	Kit, FF, Plexiglass, G3

ProBlue Liberty™

Integrated Tankless Melter and Fill System

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Web Content



ProBlue® Series Melters

Models 4, 7, and 10

Description

ProBlue 4, 7, and 10 melters set a new standard for hot melt adhesive application by providing performance and features to meet a wide range of packaging requirements. Building on the proven durability and reliability of Nordson Series 3000 melters, ProBlue melters are designed to maximize uptime and reduce operating costs. Nordson ProBlue melters are simple and compact. These rugged, flexible, non-handed melters feature a smaller size and have a smaller service envelope to fit virtually any packaging line.

Primary Features

- Approximately twenty percent smaller size
- Approximately fifty percent smaller service envelope
- Easy-to-use controls
- High-level noise immunity
- Saturn® basket-style disposable filter
- Rugged, non-handed design
- Proven Nordson SP dual-acting piston pump
- Cast-in heater
- PID temperature control
- Automatic pressure discharge valve (APD)
- Low-level adhesive indicator
- Communications options



ProBlue Series Melters 4, 7, and 10

ProBlue® Series Melters

Models 4, 7, and 10

Specifications

Parameter	ProBlue 4	ProBlue 7	ProBlue 10
Type of system	Non-circulating tank (14:1 SP-style piston pump)		
Holding capacity kg (lb)	3.9 (8.6)	6.8 (15)	9.7 (21.4)
Melt rate kg/hr (lb/hr)	4.3 (9.5)	8.2 (18)	11 (24)
Throughput kg/hr (lb/hr)	6.8 (15)	10.9 (24)	12.4 (27.3)
Pump rate kg/hr (lb/hr)	32.7 (72)		
Temperature range	40-230°C (100-450°F)		
Ambient temperature range	0-50°C (32-122°F)		
Temperature control stability	±0.5°C (1°F)		
Maximum hydraulic pressure	87 bar/8.7 MPa (1260 psi)		
Hose ports	5	5	9
Hose/Applicator Capacity (Maximum)	2 or 4	2 or 4	2, 4, or 6
Hose/Applicator Power	1000 W each Hose/Applicator pair (2000 W per Hose/Applicator module)		
Maximum melter power			
• 2 Hose/Applicator	4000 W	4200 W	4200 W
• 4 Hose/Applicator	6000 W	6200 W	6200 W
• 6 Hose/Applicator	N/A	N/A	8200 W
Input/Output Capability Standard	3 standard outputs - programmable for function 4 standard inputs - programmable for function		
Filter area cm ² (in. ²)	71 (11)		
Electrical service	200 to 240 VAC 1Ø or 3Ø 50/60 Hz 200 to 240 VAC (1Ø N/PE) 50/60 Hz 400/230 VAC (3Ø N/PE) 50/60 Hz		
With optional transformer	400 or 480 VAC 3Ø 50/60 Hz		
Weight kg (lb) (empty)	42 (93)	43 (95)	45 (99)
Dimensions W x H x D mm (in.)	547 x 469 x 318 (21.5 x 18.48 x 12.5)	609 x 469 x 322 (24 x 18.5 x 12.7)	613 x 505 x 344 (24.1 x 19.9 x 13.5)
Service envelope W x H x D mm (in.)	648 x 502 x 362 (25.5 x 19.75 x 14.25)	711 x 564 x 362 (28 x 22.2 x 14.25)	714 x 656 x 391 (28.1 x 25.8 x 15.4)
Mounting mm (in)	381 x 249 (15.9 x 9.8)		
Approvals and certifications	UL, CUL ⁽¹⁾ , CE, ISO 9001		

⁽¹⁾ CUL is a legal CSA-equivalent in Canada.

NOTES:

- Melter performance ratings are measured using a 1100 cps packaging grade adhesive with an application temperature of 177°C (350°F) and a specific gravity of 0.97.
- Pump rate is maximum pump output while maintaining 90% of static hydraulic pressure for a given inlet air pressure.



ProBlue® Series Melters

Models 4, 7, and 10

Part Numbers

ProBlue Melter 200-240 VAC and 400/230 VAC with Standard 14:1 Pump

Parameter	ProBlue 4	ProBlue 7	ProBlue 10
2 Hose/Applicator	1022230	1022232	1022234
4 Hose/Applicator	1022231	1022233	1022235
6 Hose/Applicator	—	—	1022236

ProBlue Melter 200-240 VAC and 400/230 VAC with 6:1 Pump

Parameter	ProBlue 4	ProBlue 7	ProBlue 10
2 Hose/Applicator	1080419	1089193	1089195
4 Hose/Applicator	1089192	1089194	1089196

ProBlue Melter 400 and 480 VAC with Standard 14:1 Pump

Parameter	ProBlue 4	ProBlue 7	ProBlue 10
2 Hose/Applicator	1022237	1022238	1022240
4 Hose/Applicator	1090495	1022239	1022241

ProBlue Melter 400 and 480 VAC with 6:1 Pump

Parameter	ProBlue 4	ProBlue 7	ProBlue 10
2 Hose/Applicator	1078280	1078258	1078281
4 Hose/Applicator	1090496	1078259	1080440

NOTE: 400 and 480 VAC melters must have a transformer base assembly. The assembly required is dependent on the total wattage used for the unit and hose/applicators in operation. Contact Nordson for assistance in selecting the correct transformer.

Part Number	Parameter
1039840	Transformer Base Assembly, 1.5 kVA
1039841	Transformer Base Assembly, 3.0 kVA

ProBlue® Series Melters

Models 4, 7, and 10

Optional Accessories

Description	Part Number
1036607	I/O expansion card kit
1053300	PROFIBUS communications kit
1124963	PROFINET communications kit
1053288	DeviceNet communications kit
1053289	Ethernet communications kit
1061030	8 Hose/Applicator expansion base (ProBlue 10 only)
1125306	Kit, Light Tower, ATS*
1125306	Kit, Light Tower, ATS*
1125304	Kit, Conversion, PB/PBL, 4H, 230V, ATS
1125305	Kit, Conversion, PB/PBL, 6H, 230V, ATS
1125310	Kit, Conversion, PB/PBL, 4H, 480V, ATS
1125311	Kit, Conversion, PB/PBL, 6H, 480V, ATS
1125197	Kit, 24V & Serial Adapter Board, ATS (24V/Serial Adapter Board - purchase when installing 8 hose/applicator expansion base)
1124858	Kit, USB to Serial Adapter

*For details on the Adhesive Tracking System (ATS), refer to the ATS section in this guide.

DeviceNet is a registered trademark of ODVA, Inc.

PROFIBUS and PROFINET are registered trademarks of PROFIBUS & PROFINET International.

Web Content



ProBlue® Series Melters

Models 15/30/50 Large Capacity

Description

Nordson ProBlue melters are designed to maximize uptime and reduce operating costs. These rugged, flexible, non-handed melters fit on virtually any packaging line.

Features:

- Melter sizes and service envelopes closely match legacy products for easy integration into existing applications.
- All sheet metal enclosures and large tank openings allow for easy operation and daily maintenance.
- Status-at-a-glance indicators highlight: ready, fault, service and temperature status for tank, hose and applicator.
- Simplified intuitive controls and service indicators require less user training and simplify maintenance scheduling.
- Disposable filter reduces daily maintenance by eliminating routine filter flushing.
- Standard tank low-level indicator and output protects against operator oversight and helps assure continuous production.
- Standard programmable I/O (3 output and 4 input) facilitate parent machine integration.
- Quick disconnect primary power and I/O plugs and pneumatic fittings provide easier installation.
- Sub-base allows easy, quick access to mounting bolts and electrical knockouts for easier installation.



ProBlue Series Melters 15, 30, 50

- Easy-to-remove exterior panels are constructed of rugged sheet molded FRP and include a heavy duty tank lid.
- Cast-in heating elements and PTFE-coated tanks provide fast warm-up time, improve heat transfer and reduce char buildup.
- Remote temperature setback, hose/applicator enable/disable, and automatic temperature setback are standard programmable features to enhance operation.
- Communications options and serial and network communications allow improved integration into parent machine control systems.
- All major components are easily accessible from the front of the melter, and all major subsystems are easily replaced.

ProBlue® Series Melters

Models 15/30/50 Large Capacity

Specifications

Parameter	ProBlue 15	ProBlue 30	ProBlue 50
Type of system	Non-circulating tank (SP-style piston pump)		
Holding capacity kg (lb)	14.5 (32)	29 (64)	48.5 (107)
Melt rate kg/hr (lb/hr)	18.1 (40)	27 (60)	28.6 (63)
Throughput kg/hr (lb/hr)	18.1 (40)	30.6 (67.5)	28.6 (63)
Pump rate kg/hr (lb/hr)			
Standard output (14:1)	32.7 (72)	—	—
High output (16:1)	60 (130)	60 (130)	60 (130)
Single acting (12:1)	108 (240)	—	—
Temperature range	40-230°C (100-450°F)		
Ambient temperature range	0-50°C (32-122°F)		
Temperature control stability	±0.5°C (1°F)		
Maximum hydraulic pressure	100 bar/10 MPa (1450 psi)		
Hose ports	9		
Hose/Applicator capacity (Maximum)	2, 4, or 6		
Hose/Applicator power	1000 W each H/G pair (2000 W per H/G module)		
Maximum melter power			
2 Hose/Applicator	5000 W	6000 W	6000 W
4 Hose/Applicator	7000 W	8000 W	8000 W
6 Hose/Applicator	9000 W	10,000 W	10,000 W
Input/Output capability standard	3 standard outputs - programmable for function 4 standard inputs - programmable for function		
Filter area cm ² (in. ²)	71 (11)		
Electrical service	200 to 240 VAC 1Ø or 3Ø 50/60 Hz 400/230 VAC (3Ø N/PE) 50/60 Hz		
With optional transformer	400 or 480 VAC 3Ø 50/60 Hz (ProBlue 15 only)		
Weight kg (lb) (empty)	66 (145)	81.6 (180)	87 (192)
Dimensions W x H x D mm (in.)	686 x 547 x 345 (27 x 21.5 x 13.6)	952 x 548 x 345 (37.6 x 21.6 x 13.6)	952 x 751 x 345 (24.1 x 19.9 x 13.5)
Service envelope W x H x D mm (in.)	787 x 859 x 392 (31 x 33.8 x 15.4)	1044 x 859 x 392 (41.1 x 33.8 x 15.4)	1044 x 1062 x 392 (41.1 x 41.8 x 15.4)
Mounting mm (in)	581 x 249 (22.9 x 9.8)	669 x 249 (26.3 x 9.8)	
Approvals and certifications	UL, CUL ⁽¹⁾ , CE, ISO 9001		

⁽¹⁾ CUL is a legal CSA-equivalent in Canada.

NOTES:

- Melter performance ratings are measured using a 1100 cps packaging grade adhesive with an application temperature of 177 °C (350 °F) and a specific gravity of 0.97.
- Pump rate is maximum pump output while maintaining 90% of static hydraulic pressure for a given inlet air pressure.



Part Numbers

Melters with a Standard Output Dual Acting 14:1 Pump

Parameter	ProBlue 15	ProBlue 30	ProBlue 50
2 Hose/Applicator	1049316	—	—
4 Hose/Applicator	1049317	—	—
6 Hose/Applicator	1049318	—	—

Melters with a High Output Dual Acting 16:1 Pump

Parameter	ProBlue 15	ProBlue 30	ProBlue 50
2 Hose/Applicator	1049319	1049326	1049330
4 Hose/Applicator	1049320	1049328	1049331
6 Hose/Applicator	1049322	1049329	1049332

Melters with a Single Acting 12:1 Pump

Parameter	ProBlue 15	ProBlue 30	ProBlue 50
2 Hose/Applicator	1049323	—	—
4 Hose/Applicator	1049324	—	—
6 Hose/Applicator	1049325	—	—

NOTE: *The ProBlue 15 melter will operate at 400 or 480 VAC when used with a transformer base assembly.*

ProBlue® Series Melters

Models 15/30/50 Large Capacity

Optional Accessories

Part Number	Description
1036607	I/O expansion card kit
1053300	PROFIBUS communications kit
1124963	PROFINET communications kit
1053288	DeviceNet communications kit
1053289	Ethernet communications kit
1061031	8 Hose/Applicator expansion base (ProBlue 15 only)
1125306	Kit, Light Tower, ATS*
1125304	Kit, Conversion, PB/PBL, 4H, 230V, ATS
1125305	Kit, Conversion, PB/PBL, 6H, 230V, ATS
1125310	Kit, Conversion, PB/PBL, 4H, 480V, ATS
1125311	Kit, Conversion, PB/PBL, 6H, 480V, ATS
1125197	Kit, 24V & Serial Adapter Board, ATS (24V/Serial Adapter Board - purchase when installing purchase 8 hose/applicator expansion base)
1124858	Kit, USB to Serial Adapter

*For details on the Adhesive Tracking System (ATS), refer to the ATS section in this guide.

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Web Content



ProBlue® and ProBlue Liberty™ ATS Melters

Melters and Melter/Fill Systems with Adhesive Process Control

ProBlue ATS Melters

Combine simple operation with an adhesive tracking system (ATS) to maximize uptime, optimize adhesive consumption and improve production efficiency.

Primary Features

- Installation is quick and easy. Compact size and a patented, centrally located manifold that allows hoses to run right or left means ProBlue melters fit on virtually any packaging line.
- Quick-disconnect power and I/O plugs and a patented, quick-release base design further simplify set up.
- Plug-in modules let you add or subtract hoses and applicators to meet changing production needs.
- A disposable filter eliminates the need for routine filter flushing while helping prevent debris and contaminants in adhesive from reaching your products.
- An integrated precision gear flow meter directly measures adhesive volume, and the system output signal can be used to stop the line, eject product or signal a light tower.
- Maintain the proper adhesive deposit on each and every package to increase production efficiency and quality.
- Track total adhesive consumption, per package add-on weight, total number of products and out-of-tolerance products.
- Operator safety is improved with a patented automatic pressure discharge (APD) valve that relieves pressure into the melter tank in seconds.
- Reduce costs by identifying adhesive and product waste.
- Monitor and control in real time via optional Ethernet IP & Fieldbus; download historical data via USB
- User adjustable adhesive volume upper and lower tolerance band limits to identify out-of-tolerance product



ProBlue® ATS Melters
4, 7 and 10 Liter Melters with Adhesive Process Control



ProBlue Liberty™ ATS
Integrated Tankless Melter and Fill System with Adhesive Process Control

ProBlue Liberty ATS Melters

A consolidated tankless melter and fill system maintains consistent adhesive levels, increasing uptime while delivering energy and maintenance savings that result in increased operating efficiency and lower per-package costs.

A sensor in the reservoir monitors molten adhesive levels in the hopper and alerts the system when adhesive is needed. The closed system helps maintain adhesive bond strength by minimizing degradation that comes from prolonged thermal exposure, temperature variation and exposure to contaminants.

An integrated precision gear flow meter directly measures adhesive volume and alerts the system when the amount of adhesive is out of a pre-determined band. The output signal can be used to stop the line, eject product or signal a light tower. By tracking the precise amount of adhesive dispensed onto a package, users can minimize adhesive waste and prevent pop-opens.

Primary Features

- Track total adhesive consumption, per package add-on weight and total number of products
- Download historical data via USB for process analysis
- Hopper lid allows for easy access and sealed design maintains adhesive purity by protecting from plant debris
- Automatic pressure discharge valve relieves pressure into melter in seconds
- Service, maintenance and daily operation can be performed from one side of the melter
- Real-time monitoring and control via optional Ethernet IP & Fieldbus
- User adjustable adhesive volume upper and lower tolerance band limits to identify out of tolerance product

ProBlue® Series Melters

Models 4, 7, and 10

ProBlue ATS Melter Specifications

Parameter	Specification		
Type of System	Non-circulating tank (15:1 SP-style piston pump)		
Maximum Pump Rate	32.7 kg/hr (72 lb/hr)		
Filter Type	Saturn® basket-style filter		
Maximum Working Hydraulic Pressure	10.3 MPa (1500 psi)		
Temperature Range	40 to 204 °C (100 to 400 °F)		
Ambient Temp. Range	0 to 50 °C (32 to 122 °F)		
Temp. Control Stability	±0.5 °C (1 °F)		
Input/Output Capability	4 inputs & 3 outputs - come as standard; 10 inputs and 7 outputs - Standard with optional expansion board; Ethernet IP & Fieldbus optional		
Flow Meter	Specification		
Flow Range	0.5 cc to 500 cc/min (0.03–29.9 kg/hr or 0.07–65.9 lb/hr) (assuming SG = 1.0)		
Displacement	1.0 cc/rev = 1 g/rev = 0.001 kg/rev = 0.0022 lb/rev (assuming SG = 1.0)		
Resolution	25mCC (25 mg or .055 lb, assuming sg = 1.0)		
Viscosity Range	600 to 10,000 cps		
Output Signals	2: enable and alarm, 24 VDC sourcing (PNP), 25 mA each		
Melter	ProBlue 4	ProBlue 7	ProBlue 10
Hose Ports	5	5	9
Electrical Service Standard	200 to 240 VAC 1 or 3 phase 50/60 Hz 200 to 240 VAC 1 phase N/PE 50/60 Hz 400/230 VAC 3 phase N/PE 50/60 Hz	200 to 240 VAC 1 or 3 phase 50/60 Hz 200 to 240 VAC 1 phase N/PE 50/60 Hz 400/230 VAC 3 phase N/PE 50/60 Hz	200 to 240 VAC 1 or 3 phase 50/60 Hz 200 to 240 VAC 1 phase N/PE 50/60 Hz 400/230 VAC 3 phase N/PE 50/60 Hz
w/ Opt. Transformer	400 or 480 VAC 3 phase 50/60 Hz	400 or 480 VAC 3 phase 50/60 Hz	400 or 480 VAC 3 phase 50/60 Hz
Holding Capacity	3.9 kg (8.6 lb)	6.8 kg (15 lb)	9.7 kg (21.4 lb)
Melt Rate (per hour)	4.3 kg (9.5 lb)	8.2 kg (18 lb)	11 kg (24 lb)
Throughput (per hour)	6.8 kg (15 lb)	10.9 kg (24 lb)	12.4 kg (27.3 lb)
Volume	4 liter (244 in3)	7 liter (427 in3)	10 liter (610 in3)
Max. System Power Capacity	ProBlue 4	ProBlue 7	ProBlue 10
2 hoses/applicators	4000 watts	4200 watts	4200 watts
4 hoses/applicators	6000 watts	6200 watts	6200 watts
6 hoses/applicators	N/A	N/A	8200 watts
Melter Weight (empty)	42 kg (93 lb)	43 kg (95 lb)	45 kg (99 lb)
Dimensions WxHxD	ProBlue 4	ProBlue 7	ProBlue 10
Unit mm(in)	547 x 469 x 318 (21.5 x 18.5 x 12.5)	609 x 469 x 322 (24 x 18.5 x 12.7)	613 x 505 x 344 (24.1 x 19.9 x 13.5)
Mounting mm(in)	381 x 249 (15 x 9.8)	381 x 249 (15 x 9.8)	381 x 249 (15 x 9.8)
Installation mm(in)	648 x 502 x 362 (25.5 x 19.75 x 14.25)	711 x 564 x 370 (28 x 22.2 x 14.5)	714 x 656 x 391 (28.1 x 25.8 x 15.4)

ProBlue® Series Melters

Models 4, 7, and 10

ProBlue Liberty ATS Melter Specifications

Parameter	Specification	
Maximum melter set point	204 °C (400 °F)	
Adhesive Forms	Pellets Pastilles: up to 12 mm (0.472 in. diameter) Mini-slats: up to 12 mm x 12 mm (0.472 x 0.472 in.)	
Adhesive Storage Container	Refer to the ProBlue Liberty melter section of this guide.	
Type of System	Non-circulating grid/hopper (15:1 SP-style piston pump)	
Maximum Pump Rate	32.7 kg/hr (72 lb/hr)	
Maximum Working Hydraulic Pressure	10.3 MPa (1500 psi)	
Temperature Range	40 °C to 204 °C (100 °F to 400 °F)	
Ambient Temperature Range	0 to 40 °C (32 °F to 100 °F)	
Temp. Control Stability	±0.5 °C (1 °F)	
Input/Output Capability	4 inputs & 3 outputs - come as standard; 10 inputs and 7 outputs - with optional expansion board; Ethernet IP & Fieldbus optional	
Flow Meter	Specification	
Flow Range	0.5 cc to 500 cc/min (0.03–29.9 kg/hr or 0.07–65.9 lb/hr) (assuming SG = 1.0)	
Displacement	1.0 cc/rev = 1 g/rev = 0.001 kg/rev = 0.0022 lb/rev (assuming SG = 1.0)	
Resolution	25mCC (25 mg or .055 lb, assuming sg = 1.0)	
Viscosity Range	600 to 10,000 cps	
Output Signals	2: enable and alarm, 24 VDC sourcing (PNP), 25 mA each	
Melter	Liberty 7	Liberty 14
Hose Ports	5	9
Electrical Service Standard	200 to 240 VAC 1 or 3 phase 50/60 Hz 400/230 VAC 1 or 3 phase N/PE 50/60 Hz	200 to 240 VAC 1 or 3 phase 50/60 Hz 400/230 VAC 3 phase N/PE 50/60 Hz
w/ Opt. Transformer	400 or 480 VAC Delta 3 phase 50/60 Hz	400 or 480 VAC Delta 3 phase 50/60 Hz
Holding Capacity	1.7 kg (3.7 lb)	1.7 kg (3.7 lb)
Melt Rate (per hour)	7 kg (15 lb)	14 kg (30 lb)
Throughput (per hour)	7 kg (15 lb)	14 kg (30 lb)
Max. Hose/Applicator Power Capacity*	Liberty 7	Liberty 14
2 hoses/applicators	2000 watts	2000 watts
4 hoses/applicators	4000 watts	4000 watts
6 hoses/applicators	N/A	6000 watts
Unit Dimensions (WxHxD)	539.1 x 485.9 x 371.9 mm (21.22 x 19.13 x 14.64 in)	606.7 x 571.5 x 390.6 mm (23.89 x 22.50 x 15.38 in)

*2000 W per 2 hose & 2 applicator pair: 1200 W per hose & applicator pair and 1000 W per channel.

ProBlue® Series Melters

Models 4, 7, and 10

ProBlue ATS Melter Part Numbers

Part Number	Description
1125122	Melter, ProBlue ATS 4, 2H/G
1125123	Melter, ProBlue ATS 4, 4H/G
1125124	Melter, ProBlue ATS 4, 2H/G, 400/480V Delta
1125125	Melter, ProBlue ATS 4, 4H/G, 400/480V Delta
1125126	Melter, ProBlue ATS 7, 2H/G
1125127	Melter, ProBlue ATS 7, 4H/G
1125128	Melter, ProBlue ATS 7, 2H/G, 400/480V Delta
1125129	Melter, ProBlue ATS 7, 4H/G, 400/480V Delta
1125130	Melter, ProBlue ATS 10, 2H/G
1125131	Melter, ProBlue ATS 10, 4H/G
1125132	Melter, ProBlue ATS 10, 6H/G
1125133	Melter, ProBlue ATS 10, 2H/G, 400/480V Delta
1125134	Melter, ProBlue ATS 10, 4H/G, 400/480V Delta
1125135	Melter, ProBlue ATS 10, 6H/G, 400/480V Delta

ProBlue Liberty ATS Melter Part Numbers

Part Number	Description
1125080	Melter, ProBlue Liberty ATS 7, 2H/G
1125081	Melter, ProBlue Liberty ATS 7, 4H/G
1125082	Melter, ProBlue Liberty ATS 7, 2H/G, 400/480V Delta
1125083	Melter, ProBlue Liberty ATS 7, 4H/G, 400/480V Delta
1125084	Melter, ProBlue Liberty ATS 14, 2H/G
1125085	Melter, ProBlue Liberty ATS 14, 4H/G
1125086	Melter, ProBlue Liberty ATS 14, 6H/G
1125087	Melter, ProBlue Liberty ATS 14, 2H/G, 400/480V Delta
1125088	Melter, ProBlue Liberty ATS 14, 4H/G, 400/480V Delta
1125089	Melter, ProBlue Liberty ATS 14, 6H/G, 400/480V Delta

Optional Accessories

Part Number	Description
1125306	Kit, Light Tower, ATS
1125304	Kit ,Conversion, PB/PBL, 4H, 230V, ATS
1125305	Kit ,Conversion, PB/PBL, 6H, 230V, ATS
1125310	Kit ,Conversion, PB/PBL, 4H, 480V, ATS
1125311	Kit ,Conversion, PB/PBL, 6H, 480V, ATS
1125197	Kit, 24V & Serial Adapter Board, ATS (24V/Serial Adapter Board - Purchase when installing 8 hose/applicator expansion base)
1124858	Kit, USB to Serial Adapter



Web Content



ATS Retrofit Kit

External Flow Measuring and Process Control Device

Description

An easy-to-use ATS retrofit kit contains all the pieces required to add adhesive tracking capabilities to any Nordson packaging melter. An external gear flow meter can be connected to the manifold, and a control box can be easily mounted on the melter or nearby on the parent machine.

The flow meter directly senses adhesive volume and alters the system when the amount of dispensed adhesive is out of a pre-determined band. The output signals from the control box can be used to stop the line, eject product, or signal a light tower. By tracking the precise amount of adhesive dispensed onto a package, users can minimize adhesive waste and prevent pop-opens.

Features

- Add adhesive tracking capabilities to existing ProBlue and non-ProBlue melters
- Track total adhesive consumption, per package add-on weight, and total number of products
- User-adjustable adhesive volume upper and lower tolerance band limits to identify out-of-tolerance product
- Download historical data via USB for process analysis
- Monitor and control ProBlue melters in real time via optional Ethernet IP and Fieldbus
- Flexible mounting allows the meter to attach directly to the melter, either horizontally or vertically, or a remote location close to the point of application



ATS Retrofit Kit

Benefits

- Improves product quality and bond strength by maintaining consistent adhesive temperature, purity, bead volume, and confirming adhesive add-on weight
- Increases plant operating efficiency by lengthening maintenance cycle and parts life while reducing machine jamming from pop-opens
- Reduces costs by identifying adhesive and product waste
- Minimize number of long hoses by mounting close to the point of application

ATS Retrofit Kit

External Flow Measuring and Process Control Device

ATS Retrofit Kit Specifications

Parameter	Specification
Maximum system operating pressure	10 Mpa (1,450 psi)
Instantaneous flow rate range	0.03–91 kg/hr (0.07–200.6 lb/hr) (assuming SG* = 1.0)
Displacement	1.0 cc/rev = 1 g/rev = 0.001 kg/rev = 0.0022 lb/rev (assuming SG* = 1.0)
Resolution	0.025 cc (25 mg) or (0.055 lb) (assuming SG* = 1.0)
Viscosity range	600–10,000 cps
Output signals	2 (Enabled Output and Alarm Output) 24 VDC sourcing (PNP) 25 mA each
ATS retrofit manifold electrical requirements	Number of hose/applicator channels required: 1 Heater power: 350 W
ATS control box power supply electrical requirements	200 mA (maximum) 24 VDC +/-10%
Manifold construction	Aluminum, type 6061-T6
Flow meter construction	Gears: 86L20 steel, case-hardened Gear shafts: Carbon steel, hardened and grounded (DIN 6325, M6) Body: 316 stainless steel
Flow meter sensors	Inductance: 1 mH (+/-10%) Resistance: 15 ohm (+/-10%) Frequency: 60 kHz (+/-10%)
Temperature rating	204 °C (400 °F) maximum
Working temperature range	-5–50 °C (23–122 °F)
ATS control box IP rating	IPX4

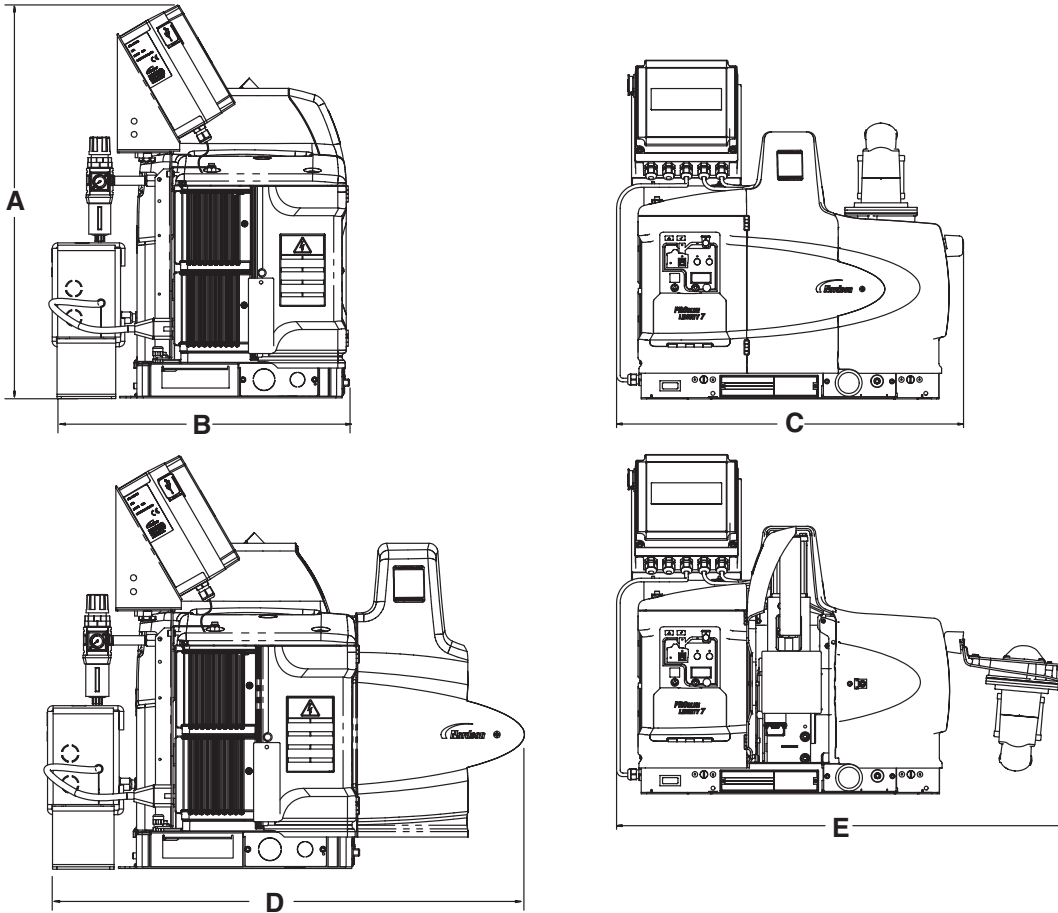
*SG = specific gravity

ATS Retrofit Kit

External Flow Measuring and Process Control Device

Dimensions

Melter with Melter-Mounted ATS Retrofit



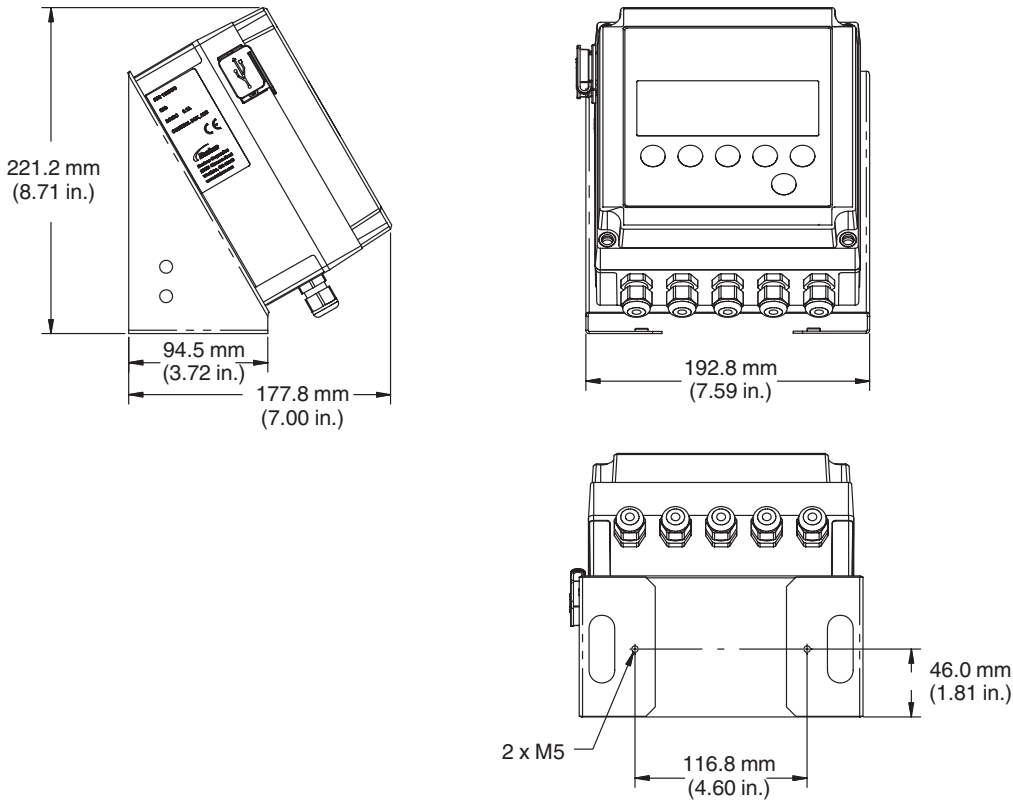
Melter	A	B	C	D	E
ProBlue 4	594.4 mm (23.4 in.)	447.8 mm (17.63 in.)	548.6 mm (21.6 in.)	688.3 mm (27.1 in.)	—
ProBlue 7	594.4 mm (23.4 in.)	447.8 mm (17.63 in.)	609.6 mm (24.0 in.)	688.3 mm (27.1 in.)	—
ProBlue 10	731.5 mm (28.8 in.)	469.9 mm (18.5 in.)	614.7 mm (24.2 in.)	736.6 mm (29.0 in.)	—
ProBlue Liberty 7	594.4 mm (23.4 in.)	447.0 mm (17.6 in.)	609.6 mm (24.0 in.)	688.3 mm (27.1 in.)	614.7 mm (24.2 in.)
ProBlue Liberty 14	731.5 mm (28.8 in.)	469.9 mm (18.5 in.)	652.8 mm (25.7 in.)	736.6 mm (29.0 in.)	660.4 mm (26.0 in.)
ProBlue 15	800.1 mm (31.5 in.)	473.2 mm (18.6 in.)	685.8 mm (27.0 in.)	612.9 mm (24.1 in.)	
ProBlue 30	800.1 mm (31.5 in.)	473.2 mm (18.6 in.)	952.5 mm (37.5 in.)	612.9 mm (24.1 in.)	
ProBlue 50	800.1 mm (31.5 in.)	473.2 mm (18.6 in.)	952.5 mm (37.5 in.)	612.9 mm (24.1 in.)	

ATS Retrofit Kit

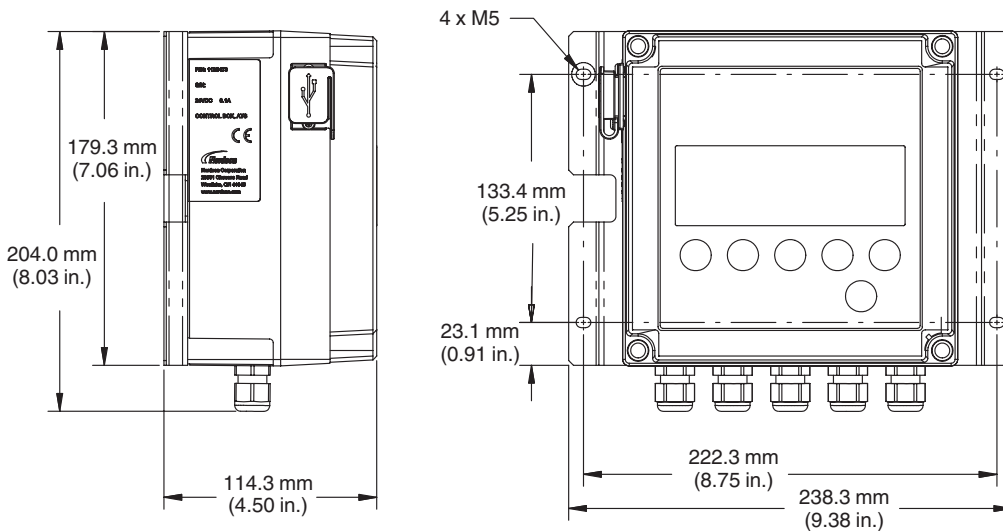
External Flow Measuring and Process Control Device

Dimensions *(contd.)*

ATS Control Box Melter or Bench Mounting Bracket Dimensions



ATS Control Box Wall Mounting Bracket Dimensions

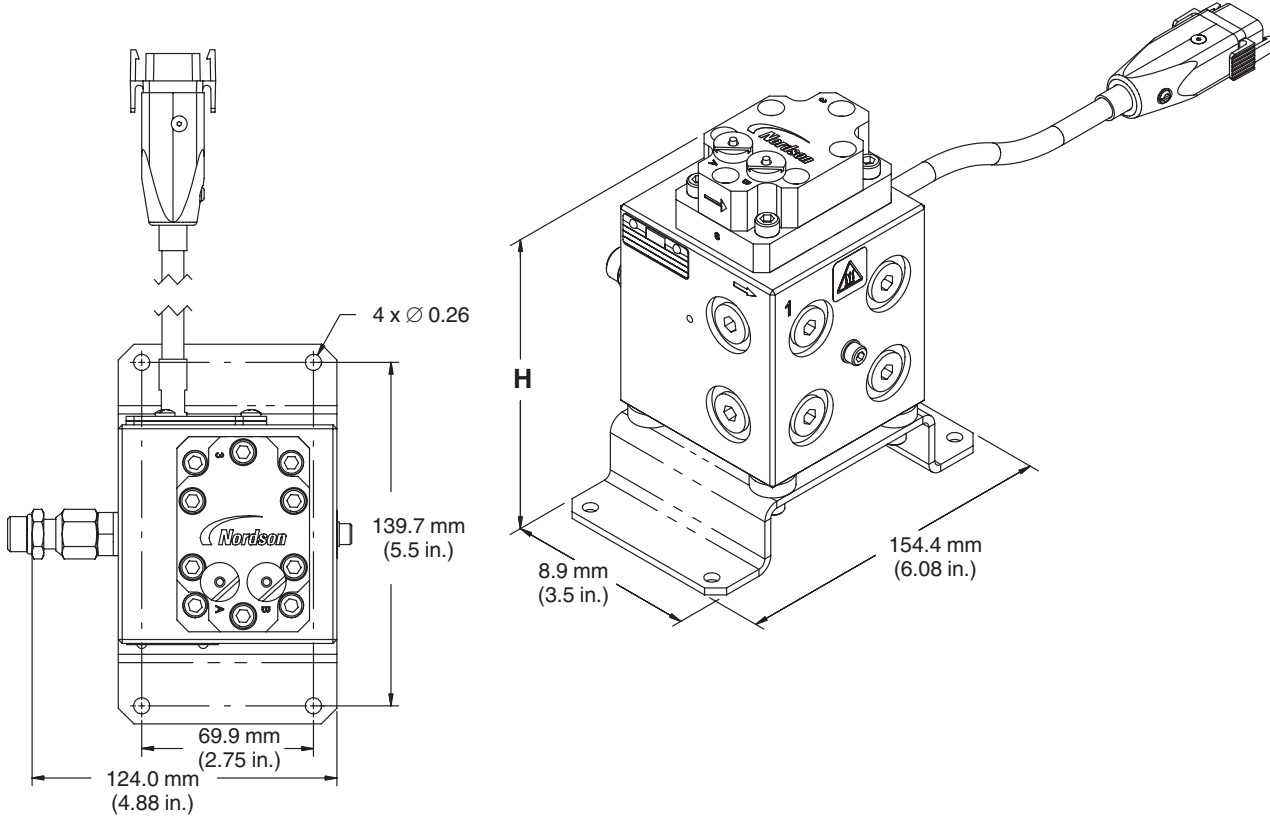


ATS Retrofit Kit

External Flow Measuring and Process Control Device

Dimensions *(contd.)*

ATS Retrofit Manifold



Manifold Mounting Bracket Part Number	Installation	H mm (in.)
1125498	Remote	175.5 (6.91)
1125498	P10, L14	175.5 (6.91)
1125504	P4/7, L7	234.4 (9.23)
1125506	P15/30/50	207.3 (8.16)

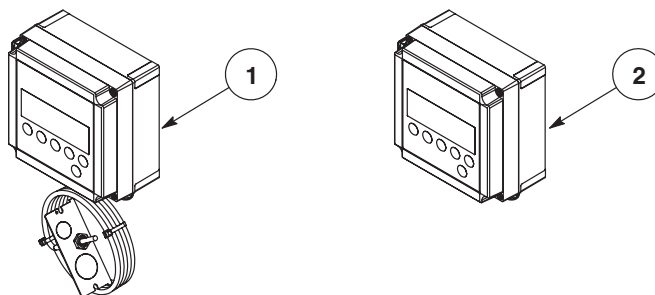
ATS Retrofit Kit

External Flow Measuring and Process Control Device

Part Numbers

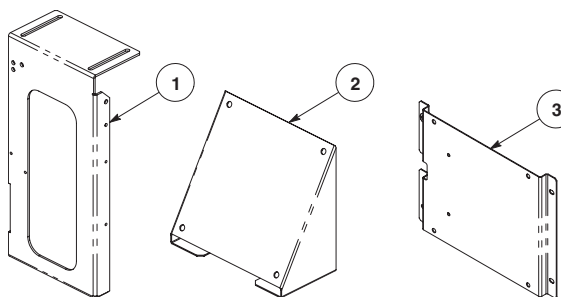
ATS Control Box

Item	Part Number	Description
1	1125299	Kit, Control Box, ATS, 1 m (3 ft) power harness
2	1125931	Kit, Control Box, ATS, 6 m (20 ft) power harness
2	1125932	Kit, Control Box, ATS, no power harness
NS	1009989	Power Supply, 24 VDC, 2.0 A, DIN mount (suitable for use with 1125932)



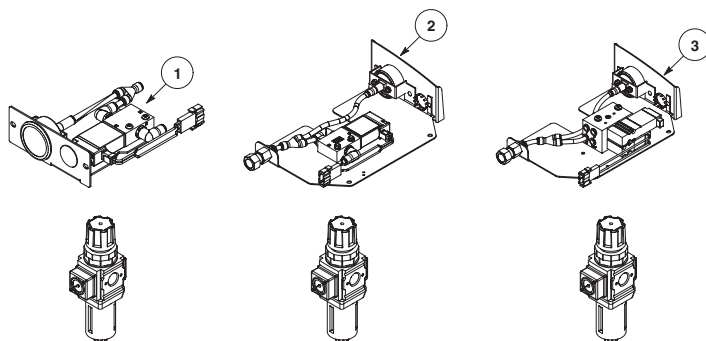
ATS Control Box Mounting Brackets

Item	Part Number	Description
1	1125647	Brackets, Control, Melter Mount, PB4, ATS
	1125648	Brackets, Control, Melter Mount, PB10, ATS
	1125649	Brackets, Control, Melter Mount, PB15, ATS
2	1125651	Brackets, Control, Bench Mount, ATS
3	1125650	Brackets, Control, Wall Mount, ATS



Air Filter/Regulator and Pneumatic Panel Assemblies

Item	Part Number	Description
1	1125471	Kit, Regulator/Solenoid, PB4/7/10, ATS (for all P4/7/10 melters)
2	1125605	Kit, Regulator/Solenoid, PB15, Dual-Acting, ATS (for P15 melters with a dual-acting pump)
3	1125608	Kit, Regulator/Solenoid, PB15, Single-Acting, ATS (for P15 melters with a single-acting pump)



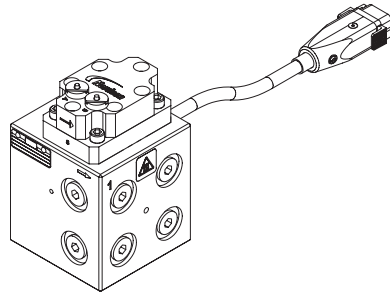
ATS Retrofit Kit

External Flow Measuring and Process Control Device

Part Numbers *(contd.)*

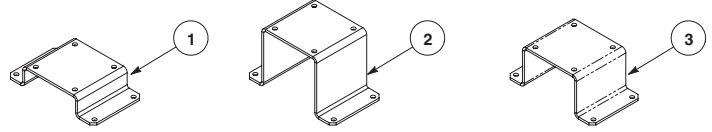
ATS Retrofit Manifold and Ship-With Kit

Part Number	Description
1125508	Manifold Assembly with Flow Meter, 12-Pin Cordset, ATS (for ATS retrofit direct-mount installations on a ProBlue melter)
1125500	Manifold Assembly with Flow Meter, 6-Pin Cordset, ATS (for ATS retrofit remote-mount installations using a Blue Series hose at the manifold inlet)
1125604	Manifold Assembly with Flow Meter, Water-Wash Cordset, ATS (for ATS retrofit remote-mount installations using a water-wash hose at the manifold inlet)



ATS Manifold Mounting Plates

Item	Part Number	Description
1	1125498	Plate, External Manifold, PB10 & Remote, ATS (for direct-mounting on P10 and L14 melters and for all remote-mount installations)
2	1125504	Plate, External Manifold, PB4, ATS (for direct-mounting on all P4, P7, and L7 melters)
3	1125506	Plate, External Manifold, PB15, ATS (for direct-mounting on all P15, P30, and P50 melters)



NOTE: Remote-mount installations require additional hot melt hoses, fittings, and extension cables.

ATS Retrofit Kit

External Flow Measuring and Process Control Device

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Web Content



Fulfill[®] Retrofit Adhesive Fill System

Description

Easy to install and operate, retrofit kits bring automatic filling to any Nordson tank melter.

A sensor monitors melter tank adhesive levels and signals the system to add small quantities of adhesive at needed intervals.

Features

- Robust and reliable industry standard capacitance sensor maximizes uptime
- Easy push-button sensor calibration
- Integrated audible siren
- Quick-change visible filter
- Automatic fill system shut-off in fault condition
- Flexible output can be configured to notify the PLC that the fill system is enabled, power is on and the fill system does not have a fault

Benefits

- Improves product quality and bond strength by maintaining consistent adhesive temperature, purity and bead volume
- Maximizes plant operating efficiency by increasing maintenance cycle and parts life while minimizing char and pop-opens
- Improves safety by preventing exposure to hot adhesives and surfaces
- Reduces installation time and parent machine integration complexity by eliminating need for power drop on ProBlue[®] melters
- Prevents manual overfilling and spilling, and reduces broken tank lids
- Fits Nordson melters in virtually any production space or environment
- Minimizes maintenance and downtime associated with adhesive char, degradation and contamination



Fulfill Retrofit on ProBlue Melter

Fulfill[®] Retrofit

Adhesive Fill System

Specifications

Parameter	Specification
Fits Nordson melters	ProBlue 4, 7, 10, 15, 30, 50 Mesa 4, 6, 9, & 14 DuraBlue & VersaBlue 25, 50 & 100 (VA & VT) DuraBlue & AltaBlue 10/16 AltaBlue 30/50 (TS) FM 200 Universal
Adhesive forms Maximum size	Pellets, pastilles, mini-slats, <ul style="list-style-type: none"> Pastilles: 12 mm (0.472 in) diameter Mini-slats: 12 mm x 12 mm (0.472 x 0.472 in) in length
Adhesive transfer maximum delivery rate	275 kg/hr (600 lb/hr) dependent on adhesive type and air pressure
Adhesive storage container	See Adhesive Store Container data sheet
Transfer hose length	4 m (13 ft), 9 m (29.5 ft), 18 m (59 ft)
Total air consumption	<ul style="list-style-type: none"> 17 CFM @ 3.4 bar to transfer 105.3 kg/hr (223.2 lb/hr) with 4m hose @ 4m rise 22 CFM @ 4.1 bar to transfer 112.5 kg (248 lb/hr) with 9m hose @ 4m rise 30 CFM @ 6.2 bar to transfer 90.7 kg/hr (200 lb/hr) with 18m hose @ 4m rise
Air conditioning	Dry, non-lubricated
Operating air pressure - dynamic <ul style="list-style-type: none"> Minimum Pressure Maximum Pressure 	2.75 bar, (0.275 MPa or 40 psi) 5.5 bar (0.55 MPa or 80 psi)
Operating air pressure - static <ul style="list-style-type: none"> Maximum Pressure 	6.9 bar (0.69 MPa or 100 psi)
Inlet air connection	¼-in. NPT female ¼-in. BSPP female G ¼ female
Electrical service	100-240 single phase
Power cord	Customer supplied, 14-18 AWG
Suction lance dimensions (optional)	(L) 615 mm x max (W) 105 mm (24.21 in. x max 4.14 in.)
Dimensions Single-feed adhesive bin clearance Multi-feed adhesive bin clearance	(W) 480 mm x (D) 554 mm x (H) 917 mm (19 x 22 x 36 in) (W) 688 mm x (D) 667 mm x (H) 1656 mm (26 x 27 x 65 in)
Storage container capacity (single-feed, 120L)	40 kg (88 lb) usable with grate 64 kg (141 lb) usable without grate
Enclosure rating	IP54
Noise emissions	76 dBA

Parts and Accessories

Lid and Control Box Assemblies

Part Number	Description
1122812	Kit, Fulfill Retro, Lid & Ctrl, ProBlue 4
1122813	Kit, Fulfill Retro, Lid & Ctrl, ProBlue 7
1122814	Kit, Fulfill Retro, Lid & Ctrl, ProBlue 10
1122877	Kit, Fulfill Retro, Lid & Ctrl, ProBlue 15
1122985	Kit, Fulfill Retro, Lid & Ctrl, ProBlue 30
1123083	Kit, Fulfill Retro, Lid & Ctrl, Mesa4, G3
1123084	Kit, Fulfill Retro, Lid & Ctrl, Mesa6, G3
1123085	Kit, Fulfill Retro, Lid & Ctrl, Mesa9, G3
1123086	Kit, Fulfill Retro, Lid & Ctrl, Mesa14, G3
1123041	Kit, Fulfill Retro, Lid & Ctrl, D10/16,Alta TT, G3
1122919	Kit, Fulfill Retro, Lid & Ctrl, Versa/Dura 25
1122964	Kit, Fulfill Retro, Lid & Ctrl, Dura/Versa 50
1122981	Kit, Fulfill Retro, Lid & Ctrl, Versa/Dura 100
1123341	Kit, Fulfill Retro, Lid & Ctrl, FM 200
1123289	Kit, Fulfill Retro, Lid & Ctrl, Alta 30 / 50
1123093	Kit, Fulfill Retro, Lid & Ctrl, XC 200
1122800	Kit, Fulfill Retro, Lid & Ctrl, Universal, G3
1506144	Kit, Fulfill Retro, Lid & Ctrl, Universal, Long, G3

Adhesive Storage Container

Part	Description
1121952	Container, Adh Storage, SF, G3
1121953	Container, Adh Storage, MF, 2 Pump, G3
1122081	Container, Adh Storage, MF, 4 Pump, G3

Suction Lance

NOTE: *For use with large open tote.*

Part	Description
1122132	Kit, FF, Suction Lance, 4M Gray, G3
1122763	Kit, FF, Suction Lance, 4M Clear, G3
1122764	Kit, FF, Suction Lance, 9M Clear, G3
1122765	Kit, FF, Suction Lance, 18M Clear, G3

Fulfill[®] Retrofit

Adhesive Fill System

Parts and Accessories *(contd.)*

Pump Box Kits

Part	Description
1123015	Kit, Pump Box, SF, G3
1123149	Kit, Pump Box, MF, G3
1123102	Kit, FF, Plexiglass, G3

Transfer Hose and Pump

Part Number	Description
1121967	Kit, FF, Hose & Pump W/ Harness, 4M Std
1121954	Kit, FF, Hose & Pump W/ Harness, 4M Clear
1121955	Kit, FF, Hose & Pump W/ Harness, 9M Clear
1121956	Kit, FF, Hose & HF Pump W/ Harness, 18M Clear
1124610	Kit, FF, Hose & Pump W/ Harness, 4M Std,QD,
1124611	Kit, FF, Hose & Pump W/ Harness,4M Clear,QD,
1124612	Kit, FF, Hose & Pump W/ Harness, 9M Clear,QD,
1124614	Kit, FF, Hose & HF Pump W/ Harness,18M Clear,QD

Sequencer (Multi-Feed)

Part Number	Description
1122857	Kit, Sequencer-2
1122923	Kit, Sequencer, QD-2
1122858	Kit, Sequencer-4
1122922	Kit, Sequencer, QD-4

Accessories

Part Number	Description
1122085	Kit, Grate, Adh Storage, 120L, Pellets
1122086	Kit, Grate, Adh Storage, 240L, Pellets
1122769	Kit, Grate, Adh Storage, 120L, Slats
1122770	Kit, Grate, Adh Storage, 240L, Slats
1122346	Kit, Air Flush, G3
1124328	Kit, Air Flush, Multi, FF2
1124430	Kit, Air Flush, Wand, Fulfill
1123002	Kit, Pneum, 2 To 4 Feed Conv, Multi-Feed
1121550	Kit, Adh Storage Container Lock
1121806	Kit, Light Tower, Fulfill

Web Content



AltaBlue™ TT Adhesive Melters

Models A4, A10, and A16

Description

Nordson AltaBlue TT melters feature variable speed AC motors with spur-gear pumps and key-to-line capability in a compact melter design. AltaBlue TT melters satisfy the need for an easy-to-operate, low-maintenance melter to precisely deliver a wide variety of hot melt adhesives. A tubular PTFE-coated tank eliminates dead corners and minimizes adhesive degradation. The versatile, full-feature control panel offers a choice of programming methods using either the keypad or arrow keys and intuitively displays system status.

Features

- Easy to install
- Provide easy day-to-day operation
- Service indicators simplify maintenance scheduling
- Variable speed pump control and RPM display provides key-to-line capability
- Easy-to-use controls eliminate complicated programming
- Status-at-a-glance indicators graphically display the status of the tank, hose and applicator
- Large accessible tank opening allows easier filling and cleaning



AltaBlue TT A4 & A10 Melters

AltaBlue TT Adhesive Melters

Models A4, A10, and A16

Specifications

Parameter	AltaBlue TT 4	AltaBlue TT 10	AltaBlue TT 16
Type of system	Tank with spur-gear pump		
Filter type	Saturn basket-style filter		
Holding capacity kg (lb)	3.9 (8.6)	9.7 (21.4)	15.5 (34.1)
Melt rate kg/hr (lb/hr)	4.7 (10.3)	7.7 (17)	11.2 (24.7)
Throughput kg/hr (lb/hr) ¹	6.3 (13.9)	12.5 (27.5)	20 (44)
Pump rate kg/hr (lb/hr) ¹	35 (77)	35 (77) or 50 (110)	35 (77)
Temperature range	40-230°C (100-450°F)		
Ambient temperature range	0-50°C (32-122°F)		
Temperature control stability	±0.5°C (1°F)		
Maximum hydraulic pressure	75 bar/7.5 MPa (1100 psi)		
Hose/Applicator capacity (maximum)	2	2 or 4	
Maximum system power capacity @ 240 VAC			
• 2 Hose/Applicator	3355W	3915 W	4415 W
• 4 Hose/Applicator	N/A	5915 W	6415 W
Input/Output capability standard ²	key-to-line	4 standard inputs - programmable for function 3 standard outputs - programmable for function key-to-line	
Electrical service ²	200 VAC single phase, 50/60 Hz 200 to 240 VAC single phase, 50/60 Hz	200 VAC 1 or 3 phase 50/60 Hz 200 to 240 VAC 1 or 3 phase 50/60 Hz 380/415 VAC-Y (3 phase N/PE) 50/60 Hz	
Weight (empty)	42 kg (92 lb)	76 kg (168 lb)	80 kg (175 lb)
Dimensions W x H x D mm (in.)	334 x 478 x 552 (13.1 x 18.8 x 21.7)	441 x 649 x 620 (17.4 x 25.5 x 24.4)	441 x 649 x 620 (17.4 x 25.5 x 24.4)
Service envelope W x H x D mm (in.)	537 x 623 x 908 (21.1 x 24.5 x 35.7)	644 x 861 x 1126 (25.4 x 33.9 x 44.3)	644 x 861 x 1126 (25.4 x 33.9 x 44.3)
Approvals and certifications	UL, CUL, CE, ISO 9001		

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

⁽²⁾ Permitted deviation from rated line voltage is ±10%.

AltaBlue TT Adhesive Melters

Models A4, A10, and A16

AltaBlue TT Melter Part Numbers

Model A4

Part Number	Melter Type	No. of Hose/Applicator	Voltage	Pump Size	Pump Rate
7401360	Standard	2	200	0.3	1.4 kg/hr
1080774				7.73	35 kg/hr
1080776	PA	2		7.73	35 kg/hr
7402329	W I/O	2	200	0.3	1.4kg/hr
7407362	Standard	2	240	0.15	0.7 kg/h4
7401359				0.3	1.4 kg/hr
1083408				0.62	2.8 kg/hr
1083409				1.86	8.5 kg/hr
1077981				7.73	35 kg/hr
1080775	PA	2	240	7.73	35 kg/hr
7402328	W I/O	2	240	0.3	1.4 kg/hr
7402326				0.62	2.8 kg/hr
7402327				1.86	8.5 kg/hr
7403639	Feinfruf Pump	2	240	0.16	0.8 kg/hr

Model A10

Part Number	Melter Type	No. of Hose/Applicator	Voltage	Pump Size	Pump Rate
7403640	Standard	2	200	3.71	17 kg/hr
1080779				7.73	35 kg/hr
1080791		7.73		35 kg/hr	
1080790		4		7.73	35 kg/hr
1080798	PA	2		7.73	35 kg/hr
1080800				7.73	50 kg/hr
1080799		4		7.73	35 kg/hr
1083420	Standard	2		240	0.62
1083421			1.86		8.5 kg/hr
1077982			7.73		35 kg/hr
1080778			7.73		50 kg/hr
7402029*			0.3 DS		1.4 kg/hr
7402021*			0.62 DS		2.8 kg/hr
7402022*			1.86 DS		8.5 kg/hr
1080777	PA	4	7.73	35 kg/hr	
1080795		2	7.73	35 kg/hr	
1080797		7.73	50 kg/hr		
1080796		4	7.73	35 kg/hr	

*Dual stream pumps

AltaBlue TT Adhesive Melters

Models A4, A10, and A16

Model A16

Part Number	Melter Type	No. of Hose/Applicator	Voltage	Pump Size	Pump Rate
1080793	Standard	2	200	7.73	35 kg/hr
1080794		4		7.73	35 kg/hr
1080803	PA	2		7.73	35 kg/hr
1080804		4		7.73	35 kg/hr
1077983	Standard	2	240	7.73	35 kg/hr
1080792		4		7.73	35 kg/hr
7402701		2		1.86	8.5 kg/hr
1080801	PA	2	240	7.73	35 kg/hr
1080802		4		7.73	35 kg/hr

Web Content



AltaBlue™ Touch Series Melters

Models 15, 30, and 50 Liter

Description

Nordson® AltaBlue touch series melters are designed for precise, demanding hot melt adhesive applications. A choice of metering spur-gear pumps with variable speed AC motors and key-to-line functionality satisfies a wide range of manufacturing requirements. A non-stick tank and reservoir design reduces adhesive degradation while maximizing adhesive throughput. The Optix™ user interface offers a color LCD touch screen for intuitive control. AltaBlue touch series melters enable pressure and flow monitoring and control through optional control boards. This integrated solution simplifies the system and reduces cost while providing a means for measuring and controlling material dispense rate in response to production rate changes. Through variation management, material consumption is reduced while product quality and production efficiency are enhanced.

Features

- Offer intuitive control via Optix user interface
- Enable pressure and flow monitoring and control through an integrated option
- Provide reliable day-to-day operation
- Simplify routine maintenance
- Maximize production up-time
- Serve a broad range of industries



AltaBlue Touch Melter

AltaBlue™ Touch Series Melters

Models 15, 30, and 50 Liter

Specifications

Parameter	AltaBlue 15	AltaBlue 30	AltaBlue 50
Type of system	Release-coated tank and reservoir Spur-gear pump with variable AC motor		
Holding capacity kg (lb)	14.5 (32)	29 (64)	47.5 (104.7)
Melt rate kg/hr (lb/hr)	15 (33)	30 (66)	50 (110)
Throughput kg/hr (lb/hr)	28 (62)	45 (99)	50 (110)
Number of pumps	Up to 2 dual or single stream	Up to 4 dual or 4 single stream	
Pump rate kg/hr (lb/hr) ^(1 & 2)	1.4 to 82.1 kg/hr (3 to 180.6 lb/hr)		
Filter type	Saturn basket-style filter		
Temperature range	40–230 °C (100–450 °F)		
Ambient temperature range	-5–40 °C (23–104 °F)		
Temperature control stability	±1 °C (2 °F)		
Maximum hydraulic pressure	85 bar/8.5 MPa (1233 psi)		
Hose/Applicator capacity (maximum)	One single-stream manifold: 7 connections Two single-stream manifolds: 3 connections per pump stream Dual-stream manifold: 2 connections per pump stream		
Input/Output capability standard	3 standard outputs - programmable for function 4 standard inputs - programmable for function		
Electrical service ⁽³⁾	230 VAC 3 phase without neutral (Delta) 50/60 Hz 400 VAC-Y (3 phase N/PE) with neutral (star-WYE) 50/60 Hz		
With optional transformer	400 VAC 3 phase without neutral (Delta) 50/60 Hz 480 VAC 3 phase without neutral (Delta) 50/60 Hz		
Maximum external power capacity - Maximum load per receptacle (2 channels) • 2/4/6/8 hose/applicator melters NOTE: Total external wattage must not exceed 12,000 W.	1000 W, any single hose or applicator 1200 W, any hose/applicator pair 2000 W, sum of hose/applicator pairs 1 and 2 2000 W, sum of hose applicator pairs 5 and 6 2000 W, any single hose or applicator 3 and 4 2000 W, any single hose or applicator 7 or 8 2000 W, hose/applicator pair 3 or 4 2000 W, hose/applicator pair 7 or 8 4000 W, sum of hose/applicator pairs 3 and 4 4000 W, sum of hose/applicator pairs 7 and 8		

AltaBlue™ Touch Series Melters

Models 15, 30, and 50 Liter

Parameter	AltaBlue 15	AltaBlue 30	AltaBlue 50
Maximum system power capacity: 400 VAC Delta 480 VAC Delta 400 VAC Star WYE			
• 1-2 pump, 2 hose/applicator	8,380 watts	9,482 watts	12,420 watts
• 1-2 pump, 4 hose/applicator	12,053 watts	13,155 watts	16,094 watts
• 1-2 pump, 6 hose/applicator	13,890 watts	14,992 watts	17,931 watts
• 2 pump, 8 hose/applicator	-	23,166 watts	25,232 watts
• 3-4 pump, 4 hose/applicator	-	18,684 watts	20,750 watts
• 3-4 pump, 6 hose/applicator	-	20,521 watts	22,587 watts
• 3-4 pump, 8 hose/applicator	-	24,194 watts	26,161 watts
Maximum system power capacity: 230 VAC Delta			
• 1-2 pump, 2 hose/applicator	9,124 watts	10,324 watts	13,524 watts
• 1-2 pump, 4 hose/applicator	13,124 watts	14,324 watts	17,524 watts
• 1-2 pump, 6 hose/applicator	15,124 watts	16,324 watts	19,524 watts
• 2 pump, 8 hose/applicator	-	25,224 watts	27,474 watts
• 3-4 pump, 4 hose/applicator	-	20,344 watts	22,594 watts
• 3-4 pump, 6 hose/applicator	-	22,344 watts	24,594 watts
• 3-4 pump, 8 hose/applicator	-	26,344 watts	28,594 watts
Weight (empty) ⁽⁴⁾			
• 2 pump	200 kg (440 lb)	225 kg (500 lb)	250 kg (550 lb)
• 4 pump	-	440 kg (970 lb)	472 kg (1041 lb)
Dimensions: W x H x D mm (in.)			
• 2 pump	525 x 1465 x 950 (20.7 x 57.7 x 37.4)		
• 4 pump	950 x 1465 x 950 (37.4 x 57.7 x 37.4)		
Service envelope WxHxD mm (in.)			
• 2 pump	2355 x 1465 x 2780 (92.7 x 57.7 x 109.5)		
• 4 pump	2780 x 1465 x 2780 (109.5 x 57.7 x 109.5)		
Approvals and certifications	CE, ISO 9001		
Protection	IP33		

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

⁽²⁾ Range given is for maximum pump rate of various pumps available.

⁽³⁾ Permitted deviation from rated line voltage is $\pm 10\%$.

⁽⁴⁾ Weight depends on melter configuration.

AltaBlue™ Touch Series Melters

Models 15, 30, and 50 Liter

AltaBlue Touch Configuration

BASE MELTER										OPTIONS												
		Tank Capacity	Voltage	Pump 1	Pump 2	Pump 3	Pump 4	Hose/ Applicator		Flow Control	Reserved	Low Level Indicator	I/O Indicator	LCD Cover	Host Communication	Return Port	Motion Switch	Sensor Type	Reserved			
AB	-	030	3	B	B	B	B	6	\	A	X	L	Y	X	E	X	X	N	X	X	X	
Boxes 1-2	Box 3	Boxes 4-6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Boxes 23-25			

Base Melter

Boxes 1-2	AltaBlue	
	Description	Code
	AltaBlue Touch Melter, 2 pump platform	AT
	AltaBlue Touch Melter, 4 pump platform	AF

Boxes 4-6	Tank Capacity	
	Description	Code
	15 liter	015
	30 liter	030
	50 liter	050

NOTE: Max. 2 pumps on 15L. Max 4 pumps on 30 and 50L. Dual stream pumps not allowed in any position on 30/50L, three and four pump melters.

Box 7	Voltage	
	Description	Code
	240 VAC 3P Delta without neutral	3
	380-415 VAC Wye	4
	400 VAC Delta* without neutral	5
	480 VAC Delta* without neutral	6

*With integrated transformer, use 240V hoses and applicators

Box 12	Hose/Applicator Pairs	
	Description	Code
	2 Hose/Applicator pairs	2
	4 Hose/Applicator pairs	4
	6 Hose/Applicator pairs	6
	8 Hose/Applicator pairs ⁽¹⁾	8

⁽¹⁾ Only available on 3 and 4-pump 30/50L configurations.

Boxes 8-11	Pumps	
	Description	Code
	SN0015 - 0.7 kg/hr (Single-stream)	I
	SN0030 - 1.4 kg/hr (Single-stream)	A
	SN0046 - 2.2 kg/hr (Single-stream)	B
	SN0062 - 2.9 kg/hr (Single-stream)	C
	SN0093 - 4.5 kg/h (Single-stream)	D
	SN0186 - 8.9 kg/h (Single-stream)	E
	SN0371 - 17.8 kg/hr (Single-stream)	F
	SN0773 - 37.1 kg/hr (Single-stream)	G
	SN1710 - 82.1 kg/hr (Single-stream)	H
	SH0371 - 17.8 kg/hr (stainless-steel pump)	9
	SH0773 - 37.1 kg/hr (stainless-steel pump)	Z
	DN0030 - 1.4 kg/hr/stream (Dual-stream)	2
	DN0046 - 2.2 kg/hr/stream (Dual-stream)	3
	DN0062 - 2.9 kg/hr/stream (Dual-stream)	4
	DN0093 - 4.5 kg/hr/stream (Dual-stream)	5
	DN0186 - 8.9 kg/hr/stream (Dual-stream)	6
	DN0279 - 13.4 kg/hr/stream (Dual-stream)	7
	SF0016 - 0.8 kg/hr (Feinpruf single-stream)	J
	SF0030 - 1.4 kg/hr (Feinpruf single-stream)	K
	SF0060 - 2.9 kg/hr (Feinpruf single-stream)	L
	SF0090 - 4.3 kg/hr (Feinpruf single-stream)	M
	SF0120 - 5.7 kg/hr (Feinpruf single-stream)	N
	SF0175 - 8.4 kg/hr (Feinpruf single-stream)	O
	SF0240 - 11.9 kg/hr (Feinpruf single-stream)	P
	SF0300 - 14.4 kg/hr (Feinpruf single-stream)	Q
	SF0450 - 21.6 kg/hr (Feinpruf single-stream)	R
	DF0016 - 0.8 kg/hr/stream (Feinpruf dual-stream)	S
	DF0030 - 1.4 kg/hr/stream (Feinpruf dual-stream)	T
	DF0060 - 2.9 kg/hr/stream (Feinpruf dual-stream)	U
	DF0120 - 5.7 kg/hr/stream (Feinpruf dual-stream)	V
	DF0175 - 8.4 kg/hr/stream (Feinpruf dual-stream)	W
	DF0240 - 11.5 kg/hr/stream (Feinpruf dual-stream)	Y
	None	



AltaBlue™ Touch Series Melters

Models 15, 30, and 50 Liter

Options

Box 14	Flow Control	
	Description	Code
	Pneumatic Pressure Control Valve ⁽¹⁾	A
	Circulation Control Valve	V
	Manual Pneumac Pressure Control	M
	Flow Control Bypass	F
	Pressure Build	N
	Manual PCV	X

⁽¹⁾ Max 2 SS pumps, DS pumps not allowed.

Box 16	Low Level Indicator	
	Description	Code
	Low Level Indicator	L
	None	X

Box 17	I/O Indicator	
	Description	Code
	Optional I/O installed	Y
	None	X

Box 18	LCD Cover	
	Description	Code
	LCD Cover	C
	None	X

Box 19	Host Communication	
	Description	Code
	Ethernet	E
	PROFIBUS	D
	DeviceNet	V
	None	X
	PROFINET	N

DeviceNet is a registered trademark of ODVA, Inc.

PROFIBUS is a registered trademark of PROFIBUS & PROFINET International.

Box 20	Return Port	
	Description	Code
	1 Hose Return Port	R
	None	X

Box 21	Motion Switch	
	Description	Code
	Motion Switch	M
	None	X

Box 22	Sensor Type	
	Description	Code
	Ni-120	N
	PT100	P

AltaBlue™ Touch Series Melters

Models 15, 30, and 50 Liter

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Web Content



DuraBlue® L Series Adhesive Melters

Description

Nordson DuraBlue melters feature fixed-speed AC motors with gerotor gear pumps for easy-to-operate, low-maintenance hot melt adhesive application. A PTFE coated tube tank eliminates dead corners and minimizes adhesive char. The versatile control panel offers a choice of programming methods using either a keypad or arrow keys.

Features

- Pump operation can be controlled by a hand-held applicator or a footswitch.
- Large accessible tank opening allows easier filling and cleaner operation.
- Status-at-a-glance indicators highlight: ready, fault, service and temperature status for tank, hose and applicator.
- Simplified intuitive controls and service indicators require less user training and simplify maintenance scheduling.
- Quick-disconnect style plugs and pneumatic hose/ applicator fittings provide quick and easy hook-up of components.
- Disposable filter eliminates routine filter flushing. All major components are easily accessible from the front of the melter, and all major subsystems are easily replaced.
- Easy-to-remove exterior panels provide quick and simple maintenance.
- PTFE-coated tanks reduce char buildup and minimize clean up.



DuraBlue 4 L System

DuraBlue® L Series Adhesive Melters

Specifications

Parameter	DuraBlue 4L	DuraBlue 10L	DuraBlue 16L
Reservoir type	Tank		
Pump type	Gerotor		
Maximum pump rate per hour kg (lb) ⁽¹⁾	22 (48)	22 (48) 50 (110)	35 (77) 50 (110)
Melt rate kg/hr ⁽²⁾	4.7 (10.3)	7.7 (17)	11.2 (24.7)
Throughput kg/hr ⁽²⁾	6.3 (13.9)	12.5 (27.5)	20 (44)
Maximum hydraulic pressure ⁽³⁾	75 bar/7.5 MPa (1100 psi)		
Filter Type ⁽⁴⁾	Saturn® basket-style filter		
Holding capacity L (in. ³) kg (lb)	4 (244) 3.9 (8.6)	10 (610) 9.7 (21.4)	16 (973) 15.5 (34.1)
Temperature range	40-230°C (100-450°F)		
Ambient temperature range	0-50°C (32-122°F)		
Temperature control stability	±0.5°C (1°F)		
Electrical service ⁽⁵⁾	120 VAC 1Ø 60 Hz 200 to 240 VAC 1Ø 50/60 Hz		
Hose/Applicator capacity (maximum)	2		
Hose/Applicator power 120V	500 W per channel 600 W per pair 1000 W per two pair (1 module)		
Hose/Applicator power 240V	1000 W per channel 1200 W per pair 2000 W per two pair (1 module)		
Maximum melter power • at 120 VAC • at 240 VAC	2400 W 3355 W	2400 W 3915 W	2400 W 4415 W
Weight (empty)	42 kg (92 lb)	76 kg (168 lb)	80 kg (175 lb)
Enclosure rating	IPX3		
Dimensions W x H x D mm (in.)	334 x 478 x 552 (13.1 x 18.8 x 21.7)	441 x 649 x 620 (17.4 x 25.5 x 24.4)	
Approvals and certifications ⁽⁶⁾	CE, CUL, ISO 9001		

⁽¹⁾ Values shown for melter at 60 Hz.

⁽²⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

⁽³⁾ Maximum pressure varies by unit.

⁽⁴⁾ Filter not available on all melters.

⁽⁵⁾ Permitted deviation from rated line voltage is ±10%.

⁽⁶⁾ Certifications are not universal to all melters. Contact Nordson for more information on specific units.



DuraBlue[®] L Series Adhesive Melters

Part Numbers

L Series Melter Model	Hose/ Applicator	Pump Rate kg/hr (lb/hr) ⁽¹⁾	Maximum Hydraulic Pressure bar/MPa (psi)	Viscosity (cps)	Filtered	120V 1Ø 60 Hz ⁽²⁾		240V 1Ø 50/60 Hz ⁽³⁾	
						PA ⁽⁴⁾	VITON	PA ⁽⁴⁾	VITON
4L (D4L)	2	22 (48)	75/7.5 (1100)	< 30,000	Filter	1069732	1031747	1069733	1031750
					No Filter	-	-	1069734	-
10L (D10L)	2	22 (48)	75/7.5 (1100)	< 30,000	Filter	-	1026752	1069735	1026754
10L (D10L)	2	50 (110)	41/4.1 (600)	< 10,000	No Filter	-	1026753	1069736	1026755
16L (D16L)	2	35 (77)	75/7.5 (1100)	< 30,000	Filter	-	-	1069737	1031898
16L (D16L)	2	50 (110)	41/4.1 (600)	< 10,000	No Filter	-	1026760	1069738	1026761

⁽¹⁾ All pump rates are shown at 60 Hz power supply. Pump rates at 50 Hz are lower and equal to 83% of their listed value.

⁽²⁾ All 120V DuraBlue "L" melters include a power cord and U.S., style 20 amp plug.

⁽³⁾ All 200-240V DuraBlue "L" melters include a power cord without a plug. Wiring color follow international standards.

⁽⁴⁾ Parts designated as "PA" are recommended for use in product assembly applications with operating temperatures greater than 191°C (375 °F). PA-type O-rings provide exceptionally high chemical and temperature resistance.

DuraBlue® L Series Adhesive Melters

DuraBlue 4L System Selection

DuraBlue 4L Systems have a pump rate of 22 kg/hr (48 lb/hr), operate at 600 psi hydraulic pressure, and process adhesive with viscosity up to 10,000 cps. Filters are not used with these units. The table below shows the system unit numbers according to available voltage and hose/applicator combination.

Description	120V 1Ø 60 Hz	200V 1Ø 50/60 Hz	240V 1Ø 50/60 Hz
L6 Hand-held Applicator, Extrusion			
L6 Hand-Held Applicator/Hose Assembly, 1.5 m (6 Ft)	—	—	1030231
L6 Hand-Held Applicator/Hose Assembly, 3 m (10 Ft)	1031137	—	1030230
AD-41 Hand-held Applicator, Extrusion (DuraBraid hose)			
Ad-41 Hand-held Applicator/HP Hose Assembly, 2.4 m (8 Ft), 1mm (0.04 In.)	1030162	1031165	1030210
Ad-41 Hand-held Applicator/HP Hose Assembly, 3.6 m (12 Ft), 1mm (0.04 In.)	1030163	1031166	1030211
Ad-41 Hand-held Applicator/HP Hose Assembly, 4.8 m (16 Ft), 1mm (0.04 In.)	1030164	1031167	1030212
AD-41 Hand-held Applicator, Swirl Adapter and Air Control Kit (DuraBraid hose)			
AD-41 Hand-held Applicator/HP Hose Assembly, 2.4 m (8 ft), 1mm (0.04 in.) wide pattern CF	1030165	1031168	1030213
AD-41 Hand-held Applicator/HP Hose Assembly, 3.6 m (12 Ft), 1mm (0.04 In.) Wide Pattern Cf	1030166	1031169	1030214
AD-41 Hand-held Applicator/HP Hose Assembly, 4.8 m (16 ft), 1mm (0.04 in.) wide pattern CF	1030167	1031170	1030215
AD-31 Hand-held Applicator, Extrusion (DuraBraid hose)			
AD-31 Hand-held Applicator/HP Hose Assembly, 2.4 m (8 ft), 1.5 mm (0.06 in.) extended	1040160	1044264	1044261
AD-31 Hand-held Applicator/HP Hose Assembly, 3.6 m (12 ft), 1.5 mm (0.06 in.) extended	1041161	1044265	1044262
AD-31 Hand-held Applicator/HP Hose Assembly, 4.8 m (16 ft), 1.5 mm (0.06 in.) extended	1040162	1044266	1044263
Non-Coated Tank, AD-31 Hand-held Applicator, Extrusion (DuraBraid hose)			
AD-31 Hand-held Applicator/Hose Assembly, 2.4 m (8 ft), 1.5 mm (0.06 in.) extended	1042781	—	—
AD-31 Hand-held Applicator/Hose Assembly, 3.6 m (12 ft), 1.5 mm (0.06 in.) extended	1042782	—	—
AD-31 Hand-held Applicator/Hose Assembly, 4.8 m (16 ft), 1.5 mm (0.06 in.) extended	1042783	—	—

NOTES:

All 120V DuraBlue 4 L Systems include a power cord.

All 200V and 240V systems include a power cord without a plug. Wire colors follow international standards.

Check total external wattage limitation before adding second hand-held applicator/hose assembly to DuraBlue 4L 120V units.

The pump rate listed is for 60 Hz power supply. The pump rate at 50 HZ is lower and equal to 83% of the value shown. Processing adhesives with viscosities higher than the stated limit may reduce melter performance.



DuraBlue[®] L Series Adhesive Melters

DuraBlue 4L System Applicator and Hose Part Numbers

Use the table below to order extra or spare Hose/Applicator combinations.

Hand-held Applicator/Hose Assemblies and Manifold Mount Applicators	120V	240V	200V
L6 Hand-held Applicator/Hose Assembly, 1.5 m (6 ft)	—	1027445	—
L6 Hand-held Applicator/Hose Assembly, 3 m (10 ft)	1027442	1027443	—
AD-41 Hand-held Applicator/Hp Hose Assembly, 2.4 m (8 ft), 1 mm (0.04 in.) orifice diameter	1030220	1030225	1031160
AD-41 Hand-held Applicator/Hp Hose Assembly, 3.6 m (12 ft), 1 mm (0.04 in.) orifice diameter	1030221	1030226	1031161
AD-41 Hand-held Applicator/Hp Hose Assembly, 4.8 M (16 Ft), 1 Mm (0.04 In.) orifice diameter	1030222	1030227	1031162
AD-31 Hand-held Applicator/Hp Hose Assembly, 2.4 m (8 ft), 1.5 mm (0.06 in.) orifice diameter	1040109	1044255	1044258
AD-31 Hand-held Applicator/Hp Hose Assembly, 3.6 m (12 ft), 1.5 mm (0.06 in.) orifice diameter	1040163	1044256	1044259
AD-31 Hand-held Applicator/Hp Hose Assembly, 4.8 m (16 ft), 1.5 mm (0.06 in.) orifice diameter	1040164	1044257	1044260

DuraBlue[®] L Series Adhesive Melters

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Web Content

DuraBlue® Large Capacity Adhesive Melters

Description

DuraBlue large capacity adhesive melters are designed for simple, low-maintenance hot melt adhesive applications. Production flexibility is provided by a high-output gerotor pump with a choice of preset speed for the AC motors.

The grid and reservoir tank design reduces adhesive degradation while maximizing adhesive throughput. An optional unheated hopper can double holding capacity to minimize refilling frequency. The simple, versatile control panel offers a choice of programming methods, using either the keypad or arrow keys.

Features

- Large, accessible tank opening allows for easier filling and cleaning.
- Pump shut-off valve and single tool removal provide quick, easy pump replacement.
- Quick plug-in hose/applicator pairs provide easy installation and replacement of equipment.
- Status-at-a-glance indicators graphically display the tank, hose and applicator status.
- Easy installation and day-to-day operation.
- Easy-open panels make access to melter components quick.



DuraBlue 50 Melter

DuraBlue[®] Large Capacity

Specifications

Parameter	D25	D25H	D50	D100
Reservoir type	Grid/Reservoir and Hopper	Grid/Reservoir and Extended Hopper	Grid/Reservoir and Hopper	
Pump type	High Output Gerotor			Spur Gear
Number of pumps	1		1 or 2	
Pump size cc/rev	11.7			17.10/pump
Maximum pump rate per hour kg (lb)	35, 45, or 90 (77, 99, or 198)			50, 65, or 130 (110, 143, or 286)
Melt rate kg/hr (lb/hr) ⁽¹⁾	25 (55)		50 (110)	100 (202)
Throughput kg/hr (lb/hr) ⁽¹⁾	37.5 (82.5)		75 (165)	135 (297)
Holding capacity L (in ³) kg (lb)	25 (1526) 24.3 (53.4)	50 (3051) 48.5 (107)		100 (6102) 97 (213)
Temperature range	40-230 °C (100-450 °F)			
Ambient temperature range	0-50 °C (32-122 °F)			
Temperature control stability	±0.5 °C (1 °F)			
Electrical service	200 VAC 3Ø 50/60 Hz ⁽²⁾ 200-240 VAC 3Ø 50/60 Hz 380-415 VAC-Y (3Ø NP/E) 50/60 Hz 400 VAC 3Ø 50/60 Hz ⁽²⁾ 480 VAC 3Ø 50/60 Hz ⁽²⁾			
Hose/applicator pairs	6			
Hose/applicator power	1000 W per channel 1200 W per pair 2000 W per two pair (1 module)			
Input/output capability Standard	3 STD Outputs - programmable for function 4 STD Inputs - programmable for function			
Hydraulic connections	6			
Maximum melter power	11,250		17,275	25,890
Weight kg (lb) (empty)	195 (429)	210 (462)	245 (548)	330 (725)
Enclosure rating	IP54			
Dimensions W x H x D mm (in.)	885 x 1050 x 400 (34.8 x 41.3 x 15.7)		1000 x 1382 x 782 (39.4 x 54.4 x 30.8)	1100 x 1382 x 1035 (43.3 x 54.4 x 40.8)
Approvals and certifications	CE, CUL, UL, ISO 9001			

⁽¹⁾ Rates depend on adhesive characteristics.

⁽²⁾ With integrated transformer, use 240V hoses and applicators.

DuraBlue[®] Large Capacity Adhesive Melters

Part Numbers

Model	Number of Pumps	Hose/Applicator Pairs	Pump Rate (per Pump)	200V Delta 3Ø 50/60Hz ⁽¹⁾	200-240V Delta 3Ø 50/60 Hz	380-415V Wye (3Ø N/PE) 50/60 Hz	400V 3Ø 50/60 Hz ⁽¹⁾	480V 3Ø 50/60 Hz ⁽¹⁾
D25	1	6	35, 45, or 90 kg/hr (77, 99, or 198 lb/hr)	8144911	8144912	8144913	8144914	8144915
D25H	1			8144916	8144917	8144918	8144919	8144920
D50	1			8144921	8144922	8144923	8144924	8144925
	2			8144926	8144927	8144928	8144929	8144930
D100	1		50, 65, or 130 kg/hr (110, 143, or 286 lb/hr)	8144931	8144932	8144933	8144934	8144935
	2			8144936	8144937	8144938	8144939	8144940
Open Wheel Pot Filling - 2 Hose/Applicator, 24VDC P/S, Relays for Reversing Outputs if Desired								
D25	1	2	35, 45, or 90 kg/hr (77, 99, or 198 lb/hr)	8144943	8144944	8144942	8144945	8144946
D50				8144947	8144948	8144949	8144950	8144951
D100			50, 65, or 130 kg/hr (110, 143, or 286 lb/hr)	8144952	8144953	8144954	8144955	8144956
Beverage - Ethernet Controlled Run-Up (Ethernet, Analog I/O, I/P Transducer, Pneumatic PCV)								
D25	1	6	35, 45, or 90 kg/hr (77, 99, or 198 lb/hr)	-	8144957	8144960	-	8144961
D25H				-	8144963	8144964	-	8144962
D50				-	8144965	8144966	-	8144959
Beverage - Run-Up (I/P Transducer, Pneumatic PCV)								
D25	1	6	35, 45, or 90 kg/hr (77, 99, or 198 lb/hr)	-	8069472	-	-	8144967
D25H				-	8144968	-	-	8144958
D50				-	8144971	-	-	8076853

⁽¹⁾ With integrated transformer, use 240V hoses and applicators.

DuraBlue[®] Large Capacity Adhesive Melters

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Web Content



VersaBlue® Plus Series Adhesive Melters

Models 25, 50, and 100 Liter

Description

Nordson VersaBlue Plus series melters are designed for precise, demanding hot melt adhesive applications. A choice of up to four single-stream or four dual-stream metering spur-gear pumps with variable-speed AC motors satisfies a wide range of manufacturing requirements. A grid and reservoir tank design reduces adhesive degradation while maximizing adhesive throughput. A powerful industrial PC provides full control of the adhesive system via a touch-screen interface.

The “Plus” of the VersaBlue Plus melters are the optional melter-integrated:

- flow monitoring and closed-loop control
- closed-loop pattern control
- module response monitoring

“Plus” Benefits with IPC Control

- Automatic adjustment of material flow and pattern to meet established customer requirements.
- Easy system integration using Nordson TruFlow™ products and/or OptiStroke™ needle stroke detection.
- Simplify set-up, operation and monitoring of pattern and flow control with intuitive, easy-to-use touch screen interface.
- Basic monitoring and reporting on melter display; more detailed information can be exported to a laptop or via field bus.
- Optimized hydraulic section for improved response and automated pressure relief at machine stop.
- Integrated control of external metering devices reduce system complexity.



Features

- Install quickly and easily
- Provide easy day-to-day operation
- Simplify routine maintenance
- Maximize uptime
- Graphical, touch-screen system control with status of melter, flow and/or pattern control
- Large, accessible tank opening allows easier filling and cleaning
- Entry panels make access to melter components quick and easy
- Pump shut-off valve and single-tool removal provide quick, easy pump replacement

VersaBlue[®] Plus Series Adhesive Melters

Models 25, 50, and 100 Liter

Specifications

Parameter	V25			
	VB/VW	VC/VX	VD/VY	VE/VZ
Configuration				
Reservoir type	Release-coated grid and reservoir			
Pump type	Spur gear pump with variable AC motor			
Tank volume L (in ³)	25 (1526)			
Holding capacity kg (lb)	23.8 (53.4)			
Pump rate kg/hr (lb/hr) ¹ & ²	1.4 to 82.1 (3 to 181)			
Filter type	Saturn [®] basket-style filter			
Melt rate kg/hr (lb/hr)	25 (55)			
Throughput kg/hr (lb/hr)	37 (81.4)			
Max. hydraulic pressure	85 bar/ 8.5 MPa (1230 psi)			
Max. number of pumps	Up to 4 single stream OR 4 dual stream			
Number of hose/applicator capacity	2, 4, 6, or 8			
Maximum system power capacity: 2 hoses/applicators 4 hoses/applicators 6 hoses/applicators 8 hoses/applicators	10280 watts 13880 watts 17480 watts 21080 watts			
Electrical service ⁴ 50/60 Hz (V)	3/PE AC 200 ⁵ 3/PE AC 200-240 3/N/PE AC 380-415 Y 3/PE AC 400 ⁵ 3/PE AC 480 ⁵			
Input/Output capability	9 outputs/13 inputs			
TruFlow control	Up to 4 channels			
Closed-loop pattern control	Up to 8 channels			
Module response monitoring	Up to 32 channels			
External metering devices	Up to 4 combined internal & external controllers			
Maximum pressure sensors ⁶	8 internal			
Melter dimensions W x H x D mm (in.)	1100 x 1382 x 1035 (43.3 x 54.4 x 40.8)			
Installation dimensions W x H x D mm (in.)	2699 x 1205 x 1281 106.3 x 61.6 x 50.4)			
Weight ³ , empty kg (lb)	265 (584)			
Ambient temperature range	0 to 40 °C (32 to 104 °F)			
Operating temperature range	40 to 230 °C (100 to 450 °F)			
Temperature control stability	± 1 °C (2 °F)			
Enclosure rating	IP 54			
Approvals	CE, UL			

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

⁽²⁾ Range given is for maximum pump rate of various pumps available.

⁽³⁾ Weight depends on melter configuration.

⁽⁴⁾ Permitted deviation from rated line voltage is ± 10%.

⁽⁵⁾ With integrated transformer, use 240V applicators and hoses.

⁽⁶⁾ Up to 8 external sensors optional.

Casters optional, PROFIBUS, PROFINET, ControlNet and Ethernet I/P optional.

PROFIBUS and PROFINET are registered trademarks of PROFIBUS & PROFINET International.

ControlNet and ControlLogix are registered trademarks of Rockwell Automation, Inc.



VersaBlue® Plus Series Adhesive Melters

Models 25, 50, and 100 Liter

Parameter	V50				V100	
	VB/VW	VC/VX	VD/VY	VE/VZ	VD/VY	VE/VZ
Configuration	VB/VW	VC/VX	VD/VY	VE/VZ	VD/VY	VE/VZ
Reservoir type	Release-coated grid and reservoir					
Pump type	Spur gear pump with variable AC motor					
Tank volume L (in ³)	50 (3051)				100 (6102)	
Holding capacity kg (lb)	48.5 (107)				97 (213)	
Pump rate kg/hr (lb/hr) ^{1 & 2}	1.4 to 82.1 (3 to 181)					
Filter type	Saturn® basket-style filter					
Melt rate kg/hr (lb/hr)	50 (110.2)				100 (220)	
Throughput kg/hr (lb/hr)	75 (165.4)				150 (330)	
Max. hydraulic pressure	85 bar/8.5 MPa (1230 psi)					
Max. number of pumps:	Up to 4 single stream OR 4 dual stream					
Number of hose/applicator capacity	2, 4, 6, or 8					
Maximum system power capacity:						
2 hoses/applicators	15605 watts				20740 watts	
4 hoses/applicators	19205 watts				27940 watts	
6 hoses/applicators	22805 watts				31540 watts	
8 hoses/applicators	26405 watts				35140 watts	
Electrical service ⁴ 50/60 Hz (V)	3/PE AC 200 ⁵ 3/PE AC 200-240 3/N/PE AC 380-415 Y 3/PE AC 400 ⁵ 3/PE AC 480 ⁵					
Input/Output capability	9 outputs/13 inputs					
TruFlow control	Up to 4 channels					
Closed-loop pattern control	Up to 8 channels					
Module response monitoring	Up to 32 channels					
External metering devices	Up to 4 combined internal & external controllers					
Maximum pressure sensors ⁶	8 internal					
Dimensions W x H x D mm (in.)	1100 x 1382 x 1035 (43.3 x 54.4 x 40.8)					
Installation dimensions W x H x D mm (in.)	2699 x 1788 x 1281 106.3 x 70.4 x 50.4)					
Weight ³ , empty kg (lb)	290 (639)				360 (794)	
Ambient temperature range	0 to 40 °C (32 to 104 °F)					
Operating temperature range	40 to 230 °C (100 to 450 °F)					
Temperature control stability	± 1 °C (2 °F)					
Enclosure rating	IP 54					
Approvals	CE, UL					

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

⁽²⁾ Range given is for maximum pump rate of various pumps available.

⁽³⁾ Weight depends on melter configuration.

⁽⁴⁾ Permitted deviation from rated line voltage is ± 10%.

⁽⁵⁾ With integrated transformer, use 240V applicators and hoses.

⁽⁶⁾ Up to 8 external sensors optional.

Casters optional, PROFIBUS, PROFINET, ControlNet and Ethernet I/P optional.

PROFIBUS and PROFINET are a registered trademarks of PROFIBUS & PROFINET International.

Allen-Bradley, ControlNet and ControlLogix are registered trademarks of Rockwell Automation., Inc.

VersaBlue® Plus Series Adhesive Melters

Models 25, 50, and 100 Liter

VersaBlue Plus Configuration

BASE MELTER									
Melter Type	Melter Capacity	Separator	Voltage	Pump 1	Pump 2	Pump 3	Pump 4	Hose/ Applicator	/
	100	-	L	A	B	C	D	4	/
Boxes 1-2	Boxes 3-5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 12

Base Melter

Boxes 1-2	Melter Type	
	Description	Code
	Ni-120, Max:4-SS, 6 Hose/Applicator, IPC	VB
	Ni-120, Max: 2-SS/DS, 6 Hose/Applicator, IPC	VC
	Ni-120, Max: 4-SS, 8 Hose/Applicator, IPC/PLC	VD
	Ni-120, Max: 3/4-SS/DS, 8 Hose/Applicator, IPC/PLC	VE
	Pt100, Max: 4-SS, 6 Hose/Applicator, IPC	VW
	Pt100, Max: 2-SS/DS, 6 Hose/Applicator, IPC	VX
	Pt100, Max: 4-SS, 8 Hose/Applicator, IPC/PLC	VY
	Pt100, Max: 3/4-SS/DS, 8 Hose/Applicator, IPC/PLC	VZ

Boxes 3-5	Melter Capacity	
	Description	Code
	12 liter (26 lb)	012
	25 liter (55 lb)	025
	25 liter (55 lb) + Hopper	25H
	50 liter (110 lb)	050
	50 liter (110 lb) + Hopper	50H
	100 liter (220 lb)	100
	100 liter (220 lb) + Hopper	10H

Box 6	Separator	
	Description	Code
	Standard configurable melter	-
	Engineered melter ***	E

*** For clarification purposes only

Box 7	Voltage	
	Description	Code
	230V 1 Phase	1
	200V 3 Phase Delta	2
	230V 3 Phase Delta	3
	400V 3 Phase WYE	4
	400V 3 Phase Delta	5
	480V 3 Phase Delta	6

Boxes 8-11	Pumps ⁽¹⁾	
	Description	Code
	SN0030 - 1.4 kg/hr	A
	SN0046 - 2.2 kg/hr	B
	SN0062 - 2.9 kg/hr	C
	SN0093 - 4.5 kg/hr	D
	SN0186 - 8.9 kg/h	E
	SN0371 - 17.8 kg/hr	F
	SN0773 - 37.1 kg/hr	G
	SN1710 - 82.1 kg/hr	H
	SH0371 - 17.8 kg/hr	9
	SH0773 - 37.1 kg/hr	Z
	DN0030 - 1.4 kg/hr/stream	2
	DN0046 - 2.2 kg/hr/stream	3
	DN0062 - 2.9 kg/hr/stream	4
	DN0093 - 4.5 kg/hr/stream	5
	DN0186 - 8.9 kg/hr/stream	6
	DN0279 - 13.4 kg/hr/stream	7
	SF0016 - 0.8 kg/hr	J
	SF0030 - 1.4 kg/hr	K
	SF0060 - 2.9 kg/hr	L
	SF0090 - 4.3 kg/hr	M
	SF0120 - 5.7 kg/hr	N
	SF0175 - 8.4 kg/hr	O
	SF0240 - 11.9 kg/hr	P
	SF0300 - 14.4 kg/hr	Q
	SF0450 - 21.6 kg/hr	R
	SF1000 - 48.0 kg/h	1
	DF0016 - 0.8 kg/hr/stream	S
	DF0030 - 1.4 kg/hr/stream	T
	DF0060 - 2.9 kg/hr/stream	U
	DF0120 - 5.7 kg/hr/stream	V
	DF0175 - 8.4 kg/hr/stream	W
	DF0240 - 11.5 kg/hr/stream	Y
	GN1160 - 11.5 kg/hr/stream	8
	External Motor	%
	None	X

⁽¹⁾ Nordson (SN/DN) pumps cannot be combined with Feinpruf (SF/DF) pumps.

Box 12	Hose/Applicator Pairs	
	Description	Code
	2 Hose/Applicator Pairs	2
	4 Hose/Applicator Pairs	4
	6 Hose/Applicator Pairs	6
	8 Hose/Applicator Pairs	8



VersaBlue® Plus Series Adhesive Melters

Models 25, 50, and 100 Liter

OPTIONS																							
Flow Control	Int. Pressure Indication	Level Control	Light Tower	Main Switch	Host Communications	Key-to-Line	Casters	Inert Gas	Filter Selection	Reserved	Reserved	Reserved	Drain Valve	Ext. Pressure Indicator	Heat Exchanger	Motion Switch	Applicator Solenoid Control	ACM	PLC	TruFlow	Safe Torque Off	Reserved	
										X	X	X											X
Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25	Box 26	Box 27	Box 28	Box 29	Box 30	Box 31	Box 32	Box 33	Box 34	Box 35	Box 36	

Options

Box 14	Flow Control	
	Description	Code
	Automatic Pneumatic Pressure Control	P
	Manual Pneumatic Pressure Control	M
	Flow Control Bypass	F
	IPI w/ Output Pressure Control per Drive	C
	Automatic Flow control w. Min.-Speed	T
	Automatic Flow control	B
	Pressure Build Up (Airless Pressure Control)	N
	Pressure Build Up With OPC	H
	Pressure Build Up with OPC & Pressure Relief	K
	Safety Valve With Indication Only (PCV plugged)	O
	None (Standard Manual Pressure Control)	X

Box 15	Internal Pressure Indication	
	Description	Code
	Internal Pressure Indication (IPI)	A
	None	X

Box 16	Level Control	
	Description	Code
	Level Monitoring	L
	Level Control w/ Bulk Feed Lid (Ni-120)	B
	Level Control w/ Bulk Feed Lid (Ni-120) + Overfill Protection	P
	Level Control w/ Bulk Feed Lid (PT100)	C
	Level Control w/ Bulk Feed Lid (PT100) + Overfill Protection	D
	Level Monitoring, fixed measuring points	F
	None	X

Box 17	Light Tower	
	Description	Code
	Light Tower	W
	None	X

Box 18	Main Switch	
	Description	Code
	Switch Red - 4 Pole	1
	Main Switch Black - 3 Pole	2
	Main Switch Black - 4 Pole	3
	None (Standard Main Switch Red - 3 Pole)	X

Box 19	Host Communications	
	Description	Code
	PROFIBUS-DP with PMI	D
	ControlNet with PMI	N
	*Ethernet /IP with PMI	E
	PROFINET IO with PMI	p
	None	X

*Contact NWSG Marketing for availability

Box 20	Key-to-Line	
	Description	Code
	Key-to-Line per Drive (separate connectors)	K
	None (Standard Key-to-Line)	X

Box 21	Casters	
	Description	Code
	Casters	C
	None	X

Box 22	Inert Gas	
	Description	Code
	Inert Gas	G
	None	X

Box 23	Filter Selection	
	Description	Code
	0.8mm Filter with 85 bar safety valve	C
	0.2mm Filter with 100 bar safety valve	D
	0.8mm Filter with 100 bar safety valve	G
	0.1mm Filter with 85 bar safety valve	H
	Standard (0.2mm Filter w. 85 bar safety valve)	X

Boxes 24-26	Reserved	
	Description	Code
	Reserved	X

Box 27*	Drain Valve	
	Description	Code
	Drain Valve	D
	None	X

Box 28*	External Pressure Indicator	
	Description	Code
	External Pressure Indicator Inputs	#
	None	X

Box 29*	Heat Exchanger	
	Description	Code
	Heat Exchanger	E
	None	X

Box 30*	Motion Switch	
	Description	Code
	Motion Switch	M
	None	X

Box 31*	Applicator Solenoid Control / Pattern Control	
	Description	Code
	Applicator Solenoid Control	G
	2 Pattern Control Channels	2
	4 Pattern Control Channels	4
	6 Pattern Control Channels	6
	8 Pattern Control Channels	8
	None	X

Box 32*	ACM	
	Description	Code
	ACM Connectivity	1
	None	X

Box 33*	PLC(1)	
	Description	Code
	A-B ControlLogix w/ ControlNet & PanelView 600+	B
	A-B ControlLogix w/ Ethernet and PanelView 600+	C
	None	X

Box 34*	TruFlow	
	Description	Code
	1 TruFlow Channel	1
	2 TruFlow Channels	2
	4 TruFlow Channels	4
	Reserved	X

Box 35	Safe Torque Off	
	Description	Code
	Terminal Block	T
	Ethernet I/P	E
	None	X

Box 36	Reserved	
	Description	Code
	Reserved	X

*Options 27 to 34 are available on NW configurations only.

VersaBlue® Plus Series Adhesive Melters

Models 25, 50, and 100 Liter

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Web Content

VersaBlue® Adhesive Melters

Models V12, V25, V50, and V100 Liter

Description

Nordson VersaBlue melters are designed for precise, demanding hot melt adhesive applications. A choice of metering spur-gear pumps with variable-speed AC motors satisfies a wide range of manufacturing requirements. A grid and reservoir tank design reduces adhesive degradation while maximizing adhesive throughput. A powerful industrial PC provides full control of the adhesive system via a touch-screen interface.

Features:

- Install quickly and easily
- Provide easy day-to-day operation
- Simplify routine maintenance
- Maximize uptime
- Serve a broad range of industries



VersaBlue V50 Melter

VersaBlue[®] Adhesive Melters

Models V12, V25, V50, and V100 Liter

Specifications: V12 and V25 Melters

Parameter	V50	V100
Type of System	Release-coated grid and reservoir Spur-gear pump with variable speed AC motor	
Number of Pumps	1 or 2	
Maximum Pump Rate ^{1 & 3}	1.4 to 82 kg/hr (3 to 181 lb/hr)	
Filter Type	Saturn [®] basket-style filter	
Maximum Working Hydraulic Pressure	85 bars/8.5 MPa (1230 psi)	
Operating Temperature Range ⁴	40 to 230 °C (100 to 450 °F)	
Ambient Temperature Range	0 to 40 °C (32 to 104 °F)	
Temperature Control Stability	±1 °C (2 °F)	
Electrical Service ⁵	240 VAC 1 phase 50/60 Hz ⁶ 200 VAC 3 phase 50/60 Hz ⁷ 200 to 240 VAC 3 phase 50/60 Hz 380 to 415 VAC-Y (3 phase N/PE) 50/60 Hz 400 VAC 3 phase 50/60 Hz ⁷ 480 VAC 3 phase 50/60 Hz ⁷	
Maximum System Power Capacity 2 hoses/applicators 4 hoses/applicators 6 hoses/applicators	6960 watts 10560 watts 14160 watts	9610 watts 13210 watts 16810 watts
Input/Output Capability (Standard)	7 outputs; 10 inputs	
Maximum Pressure Sensors	2	
Melter dimensions (W x H x D)	885 x 1382 x 582 mm (34.8 x 54.4 x 22.9 in)	
Installation Dimensions (W x H x D)	1445 x 1382 x 831 mm (56.9 x 54.4 x 32.7 in)	
Protection	IP54	
Holding Capacity	12 L (732 in ³) / 11.6 kg (25.6 lb)	25 L (1526 in ³) / 24.3 kg (53.4 lb)
Throughput (per hour)	1 18 kg (39.6 lb)	40 kg (88 lb)
Melt Rate (per hour)	1 14 kg (30.8 lb)	25 kg (55 lb)
Weight (empty) ²	190 kg (418 lb)	225 kg (495 lb)
Number of Applicators	2, 4 or 6	2, 4 or 6

¹ Actual rates will vary depending on adhesive type, application parameters and input voltage.

² Weight depends on melter configuration.

³ Range given is for maximum pump rate of various pumps available.

⁴ High temperature unit available with operating range of 40 to 250 °C (100 to 480 °F).

⁵ Permitted deviation from rated line voltage is ±10%.

⁶ 12-liter melter only; there are hose/gun pair capacity restrictions.

⁷ With integrated transformer.

Casters optional.

PROFIBUS and Ethernet I/P optional.

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VersaBlue® Adhesive Melters

Models V12, V25, V50, and V100 Liter

Specifications: V50 and V100 Melters

Parameter	V50	V100
Type of System	Release-coated grid and reservoir Spur-gear pump with variable speed AC motor	
Number of Pumps	1 or 2	
Maximum Pump Rate ^{1 & 2}	1.4 to 82 kg/hr (3 to 180 lb/hr)	
Filter Type	Saturn basket-style filter	
Maximum Working Hydraulic Pressure	85 bars/8.5 MPa (1230 psi)	
Operating Temperature Range ³	40 to 230 °C (100 to 450 °F)	
Ambient Temperature Range	0 to 40 °C (32 to 104 °F)	
Temperature Control Stability	±1 °C (2 °F)	
Electrical Service ⁴	200 VAC 3 phase 50/60 Hz ⁵ 200 to 240 VAC 3 phase 50/60 Hz 380 to 415 VAC-Y (3 phase N/PE) 50/60 Hz 400 VAC 3 phase 50/60 Hz ⁵ 480 VAC 3 phase 50/60 Hz ⁵	
Maximum System Power Capacity		
2 hoses/applicators	14875 watts	23490 watts
4 hoses/applicators	18475 watts	27090 watts
6 hoses/applicators	22075 watts	30690 watts
8 hoses/applicators	N/A	34290 watts
Input/Output Capability (Standard)	7 outputs; 10 inputs	
Maximum Pressure Sensors	2	
Melter dimensions (W x H x D)	1000 x 1382 x 782 mm (39.4 x 54.4 x 30.8 in)	1100 x 1382 x 1035 mm (43.3 x 54.4 x 40.8 in)
Installation Dimensions (W x H x D)	1760 x 1661 x 1125 mm (69.3 x 65.4 x 44.3 in)	2111 x 1565 x 1496 mm (83.1 x 61.6 x 58.9 in)
Protection	IP54	
Holding Capacity	50 L (3051 in ³) / 48.5 kg (106.7 lb)	100 L (6102 in ³) / 97.0 kg (213.4 lb)
Throughput (per hour) ¹	75 kg (165 lb)	150 kg (330 lb)
Melt Rate (per hour) ¹	50 kg (110 lb)	100 kg (220 lb)
Weight (empty) ⁶	275 kg (606 lbs)	360 kg (798 lb)
Number of Applicators	2, 4, or 6	2, 4, 6 or 8

¹ Actual rates will vary depending on adhesive type, application parameters and input voltage.

² Range given is for maximum pump rate of various pumps available.

³ High temperature unit available with operating range of 40 to 250°C (100 to 480°F).

⁴ Permitted deviation from rated line voltage is ±10%.

⁵ With integrated transformer.

⁶ Weight depends on melter configuration.

Casters optional.

PROFIBUS and Ethernet I/P optional.

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VersaBlue® Adhesive Melters

Models V12, V25, V50, and V100 Liter

VersaBlue Melter Configuration

BASE MELTER										OPTIONS									
Melter Type	Melter Capacity		Voltage	Pump 1	Pump 2	Reserved	Hose/Applicator Pairs		Flow Control	Inter. Pressure Indication	Level Control	Light Tower	Main Switch	Host Communication	Key-to-Linet	Casters	Inert Gas	Filter and Safety Valve	N/A
		-				X		\											X X X
Boxes 1-2	Boxes 3-5	Box 6	Box 7	Box 8	Box 9	Boxes 10-11	Box 12	Box 13	Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Boxes 24-26

Box 1-2	Melter Type
	Description
	Standard Ni-120, 40-230 °C (100-450 °F)
	High-Temp., PT100, 40-250 °C (100-480 °F)
	Code
	VA
	VT

Box 3-5	Melter Capacity
	Description
	12 L - 11.6 kg (25.3 lb)
	25 L - 24.3 kg (53.4 lb)
	50 L - 48.5 kg (107 lb)
	100 L - 97 kg (213 lb)
	Code
	012
	025
	050
	100

Box 7	Voltage
	Description
	200-240V 1Ø 50/60 Hz (V12 only)
	200V 3Ø 50/60 Hz (integrated transformer)
	200-240V 3Ø 50/60 Hz
	380-415V-Y 3Ø 50/60 Hz
	400V 3Ø 50/60 Hz (integrated transformer)
	480V 3Ø 50/60 Hz (integrated transformer)
	Code
	1
	2
	3
	4
	5
	6

Box 8-9	Pumps ⁽¹⁾
	Description
	SN0030 - 1.4 kg/hr (3.1 lb/hr)
	SN0046 - 2.2 kg/hr (4.9 lb/hr)
	SN0062 - 2.9 kg/hr (6.5 lb/hr)
	SN0093 - 4.5 kg/hr (9.8 lb/hr)
	SN0186 - 8.9 kg/hr (19.6 lb/hr)
	SN0371 - 17.8 kg/hr (39.2 lb/hr)
	SN0073 - 37.1 kg/hr (81.6 lb/hr)
	SN1710 - 82.1 kg/hr (180 lb/hr)(2)
	SH0371 - 17.8 kg/hr (39.2 lb/hr) (hardened)
	SH0773 - 37.1 kg/hr (81.6 lb/hr) (hardened)
	None
	Code
	A
	C
	D
	E
	F
	G
	H
	9
	Z
	X

Box 12	Hose/Applicator Pairs
	Description
	2 Hose/Applicator Pairs
	4 Hose/Applicator Pairs (3Ø only)
	6 Hose/Applicator Pairs (3Ø only)
	8 Hose/Applicator Pairs (100 L only)
	Code
	2
	4
	6
	8

Box 14	Flow Control ⁽³⁾
	Description
	Automatic Pneumatic Pressure Control, KBV flow control
	Manual Pneumatic Pressure Control, KBV flow control
	Flow Control Bypass
	Output Pressure Control, KBV flow control, requires IPI option, Box 15
	Pressure build-up (APC), requires IPI option, Box 15
	None
	Code
	P
	M
	F
	C
	E
	X

VersaBlue® Adhesive Melters

Models V12, V25, V50, and V100 Liter

Box 15 Internal Pressure Indication ⁽³⁾		
Description	Code	
Internal Pressure Indication (IPI)	A	
None	X	

⁽¹⁾ Refer to the following page for pump specifications.⁽²⁾ Not available with V12 units.⁽³⁾ Per pump.

Box 16 Level Control		
Description	Code	
Level Monitoring	L	
Level Control with Bulk Feed Lid	B	
Level Control with Bulk Feed Lid and Secondary Overfill Protection	P	
None	X	

Box 17 Light Tower		
Description	Code	
Light Tower	W	
None	X	

Box 18 Main Switch		
Description	Code	
Red - 4 Pole	1	
Black - 3 Pole	2	
Black - 4 Pole	3	
None (Standard Main Switch Red - 3 Pole)	X	

Box 19 Host Communications		
Description	Code	
PROFIBUS-DP with PMI	D	
Ethernet/IP with PMI	E	
PROFINET IO with PMI	P	
None	X	

Box 20 Key-to-Line		
Description	Code	
Key-to-Line per Drive (50 and 100 L only)	K	
None	X	

Box 21 Casters		
Description	Code	
Casters	C	
None	X	

Box 22 Inert Gas		
Description	Code	
Inert Gas	G	
None	X	

Box 23 Filter and Safety Valve		
Description	Code	
0.8 mm filter 85 bar (1235 psi)	C	
0.2 mm filter 100 bar (1450 psi)	D	
0.8 mm filter 100 bar (1450 psi)	G	
0.2 mm filter 85 bar (1235 psi)	X	

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Pump Selection

Description	SN0030	SN0062	SN0093	SN0186	SN0371	SN0773	SN1710 ⁽¹⁾
Pump Size cc/rev	0.3	0.62	0.93	1.86	3.71	7.73	17.1
Pump Rate kg/hr	1.4	2.9	4.5	8.9	17.8	37.1	82.1
(lb/hr)	(3.1)	(6.5)	(9.8)	(19.6)	(39.2)	(81.6)	(180)

⁽¹⁾ Not available in V12.

VersaBlue[®] Adhesive Melters

Models V12, V25, V50, and V100 Liter

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Web Content



VersaBlue® N Adhesive Melters

12, 25, and 50 Liter

Description

VersaBlue N Series melters are designed for precise, demanding hot melt adhesive applications. The VersaBlue N Series melters are available in a standard footprint as well as an expanded footprint that provides additional holding and pumping capabilities. A choice of up to four single-stream or dual-stream metering spur-gear pumps with variable-speed AC motors satisfies a wide range of manufacturing requirements. A grid and reservoir tank design reduces adhesive degradation while maximizing adhesive throughput. A powerful industrial PC provides full control of the adhesive system via a touch screen interface.

Features

- Graphical, touch-screen system control with status display of tank, hose(s) and applicator(s).
- Entry panels make access to melter components quick and easy.
- Large, accessible tank opening allows easier filling and cleaning.
- Pump shut-off valve and single-tool removal provide quick, easy pump replacement.
- Installs quickly and easily.
- Provides easy day-to-day operation and simplifies routine maintenance.
- Maximize uptime.
- Serve a broad range of industries.
- Quick plug-in hose/applicator pairs.
- Quick connect I/O & PROFIBUS® plugs.

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VersaBlue N 50 Melter

VersaBlue[®] N Adhesive Melters

12, 25, and 50 Liter

Specifications

Parameter	V12	V25			
		Standard Footprint			
Configuration	VC/VX	VB/VW	VC/VX	VD/VY	VE/VZ
Reservoir type	Release-coated grid and reservoir				
Pump Type	Spur gear with variable AC motor				
Tank Volume L (in ³)	12 (732)	25 (1526)			
Holding capacity kg (lb)	11.4 (25.6)	23.8 (52.4)			
Max. Pump rate kg/hr (lb/hr) ^{1 & 2}	1.4 to 48.0 kg/hr (3 to 105.6 lb/hr)				
Filter Type	Saturn [®] basket-style filter				
Melt rate kg/hr (lb/hr) ¹	14 (30.8)	25 (55)			
Throughput kg/hr (lb/hr) ¹	18 (39.6)	37 (81.4)			
Max. hydraulic pressure	85 bar/8.5 MPa (1230 psi)				
Max. number of pumps:	Up to 4 single stream or 2 dual stream				
Number of applicators	2, 4, or 6				
Max. hose/applicator power (W): 2 hoses/applicators 4 hoses/applicators 6 hoses/applicators	9650 watts 13250 watts 16850 watts	10280 watts 13880 watts 17480 watts			
Max. Pressure Sensors ⁶	4 internal				
Elec. Service 50/60 Hz (V)	3/PE AC 200 ⁵ 3/PE AC 200-240 3/N/PE AC 380-415 Y 3/PE AC 400 ⁵ 3/PE AC 480 ⁵				
Input/Output capability	9 outputs/13 inputs				
Melter Dimensions W x H x D mm (in.)	1000 x 1382 x 782 (39.4 x 54.4 x 30.8)				
Installation Dimensions W x H x D mm (in.)	2090 x 1661 x 1031 (82.3 x 65.4 x 40.6)				
Weight ³ , empty kg (lb)	225 (496)	250 (551)			
Ambient temperature range	0 to 40 °C (32 to 104 °F)				
Operating temperature range	40 to 230 °C (100 to 450 °F)				
Temperature Control Stability	± 1 °C (2 °F)				
Enclosure rating	IP 54				
Approvals	CE, UL				

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

⁽²⁾ Range given is for maximum pump rate of various pumps available.

⁽³⁾ Weight depends on melter configurator.

⁽⁴⁾ Permitted deviation from rated line voltage is ± 10%.

⁽⁵⁾ With integrated transformer, use 240V applicators and hoses.

⁽⁶⁾ Up to 8 external sensors optional.

Casters optional, PROFIBUS, PROFINET, ControlNet, and Ethernet I/P optional.

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ControlNet is registered trademarks of Rockwell Automation., Inc.



VersaBlue[®] N Adhesive Melters

12, 25, and 50 Liter

Parameter	V50			
	Standard Footprint			
	VB/WW	VC/VX	VD/VY	VE/VZ
Configuration				
Reservoir type	Release-coated grid and reservoir			
Pump Type	Spur gear with variable AC motor			
Tank Volume L (in ³)	50 (3051)			
Holding capacity kg (lb)	47.5 (1074.7)			
Max. Pump rate kg/hr (lb/hr) ⁽¹⁾	1.4 to 48.0 kg/hr (3 to 105.6 lb/hr)			
Filter Type	Saturn [®] basket-style filter			
Melt rate kg/hr (lb/hr)	50 (110)			
Throughput kg/hr (lb/hr)	75 (165)			
Max. hydraulic pressure	85 bar/8.5 MPa (1230 psi)			
Max. number of pumps:	Up to 4 single stream or 2 dual stream			
Number of applicators	2, 4, or 6			
Max. hose/applicator power (W): 2 hoses/applicators 4 hoses/applicators 6 hoses/applicators	15605 watts 19205 watts 22805 watts			
Max. Pressure Sensors ⁶	4 internal			
Electrical Service 50/60 Hz (V)	3/PE AC 200 ⁵ 3/PE AC 200-240 3/N/PE AC 380-415 Y 3/PE AC 400 ⁵ 3/PE AC 480 ⁵			
Input/Output capability	9 outputs/13 inputs			
Dimensions W x H x D mm (in.)	1000 x 1382 x 782 (39.4 x 54.4 x 30.8)			
Installation Dimensions W x H x D mm (in.)	2090 x 1661 x 1031 (82.3 x 65.4 x 40.6)			
Weight ³ , empty kg (lb)	275 (606)		290 (639)	
Ambient temperature range	0 to 40 °C (32 to 104 °F)			
Operating temperature range	40 to 230 °C (100 to 450 °F)			
Temperature Control Stability	± 1 °C (2 °F)			
Enclosure rating	IP 54			
Approvals	CE, UL			

(1) Actual rates will vary depending on adhesive type, application parameters and input voltage.

(2) Range given is for maximum pump rate of various pumps available.

(3) Weight depends on melter configuraton.

(4) Permitted deviation from rated line voltage is ± 10%.

(5) With integrated transformer, use 240V applicators and hoses.

(6) Up to 8 external sensors optional.

Casters optional, PROFIBUS, PROFINET, ControlNet, and Ethernet I/P optional.

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ControlNet is registered trademarks of Rockwell Automation., Inc.

VersaBlue® N Adhesive Melters

12, 25, and 50 Liter

VersaBlue N Configuration

BASE MELTER									
Melter Type	Melter Capacity	-	Voltage	Pump 1	Pump 2	Pump 3	Pump 4	Hose/ Applicator	/
	050	-	L	A	B	C	D	4	/
Boxes 1-2	Boxes 3-5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13

Base Melter

Boxes 1-2	Melter Type	
	Description	Code
	Ni-120, Max:4-SS, 6 Hose/Applicator, IPC	VB
	Ni-120, Max: 2-SS/DS, 6 Hose/Applicator, IPC	VC
	Ni-120, Max: 4-SS, 8 Hose/Applicator, IPC/PLC	VD
	Ni-120, Max:3/4-SS/DS, 8 Hose/Applicator, IPC/PLC	VE
	Pt100, Max: 4-SS, 6 Hose/Applicator, IPC	VW
	Pt100, Max: 2-SS/DS, 6 Hose/Applicator, IPC	VX
	Pt100, Max: 4-SS, 8 Hose/Applicator, IPC/PLC	VY
	Pt100, Max:3/4-SS/DS, 8 Hose/Applicator, IPC/PLC	VZ

Boxes 3-5	Melter Capacity	
	Description	Code
	12 liter (26 lb)	012
	25 liter (55 lb)	025
	25 liter (55 lb) + Hopper	25H
	50 liter (110 lb)	050
	50 liter (110 lb) + Hopper	50H

Box 7	Voltage	
	Description	Code
	200V 3 Phase Delta	2
	230V 3 Phase Delta	3
	400V 3 Phase WYE	4
	400V 3 Phase Delta	5
	480V 3 Phase Delta	6

Box 12	Hose/Applicator Pairs	
	Description	Code
	2 Hose/Applicator Pairs	2
	4 Hose/Applicator Pairs	4
	6 Hose/Applicator Pairs	6
	8 Hose/Applicator Pairs	8

Boxes 8-11	Pumps ⁽¹⁾	
	Description	Code
	SN0030 - 1.4 kg/hr	A
	SN0046 - 2.2 kg/hr	B
	SN0062 - 2.9 kg/hr	C
	SN0093 - 4.5 kg/hr	D
	SN0186 - 8.9 kg/h	E
	SN0371 - 17.8 kg/hr	F
	SN0773 - 37.1 kg/hr	G
	SN1710 - 82.1 kg/hr ⁽²⁾	H
	SH0371 - 17.8 kg/hr	9
	SH0773 - 37.1 kg/hr	Z
	DN0030 - 1.4 kg/hr/stream	2
	DN0046 - 2.2 kg/hr/stream	3
	DN0062 - 2.9 kg/hr/stream	4
	DN0093 - 4.5 kg/hr/stream	5
	DN0186 - 8.9 kg/hr/stream	6
	DN0279 - 13.4 kg/hr/stream	7
	SF0016 - 0.8 kg/hr	J
	SF0030 - 1.4 kg/hr	K
	SF0060 - 2.9 kg/hr	L
	SF0090 - 4.3 kg/hr	M
	SF0120 - 5.7 kg/hr	N
	SF0175 - 8.4 kg/hr	O
	SF0240 - 11.9 kg/hr	P
	SF0300 - 14.4 kg/hr	Q
	SF0450 - 21.6 kg/hr	R
	DF0016 - 0.8 kg/hr/stream	S
	DF0030 - 1.4 kg/hr/stream	T
	DF0060 - 2.9 kg/hr/stream	U
	DF0120 - 5.7 kg/hr/stream	V
	DF0175 - 8.4 kg/hr/stream	W
	DF0240 - 11.5 kg/hr/stream	Y
	None	X

⁽¹⁾ Nordson (SN/DN) pumps cannot be combined with Feinpruf (SF/DF) pumps.

⁽²⁾ Maximum quantity of 2 SN1710 pumps on 12, 25, and 50 L melters.



VersaBlue® N Adhesive Melters

12, 25, and 50 Liter

OPTIONS																						
Flow Control	Int. Pressure Indication	Level Control	Light Tower	Main Switch	Host Communications	Key-to-Line	Casters	Reserved	Filter Selection	Reserved	Reserved	Reserved	Drain Valve	Ext. Pressure Indicator	Heat Exchanger	Motion Switch	Applicator Solenoid Control	ACM	PLC	Reserved	Safe Torque Off	Reserved
								X	X	X	X									X		X
Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25	Box 26	Box 27	Box 28	Box 29	Box 30	Box 31	Box 32	Box 33	Box 34	Box 35	Box 36

Options

Box 14	Flow Control	
	Description	Code
	Automatic Pneumatic Pressure Control	P
	Manual Pneumatic Pressure Control	M
	Flow Control Bypass	F
	IPI w/ Output Pressure Control per Drive	C
	Automatic Flow control w. Min.-Speed	T
	Automatic Flow control	B
	Pressure build up (Airless pressure control)	N
	Safety valve with indication only (PCV plugged)	O
	None (Standard Manual Pressure Control)	X

Box 15	Internal Pressure Indication	
	Description	Code
	Internal Pressure Indication (IPI)	A
	None	X

Box 16	Level Control	
	Description	Code
	Level Monitoring	L
	Level Control w/ Bulk Feed Lid (NI-120)	B
	Level Control w/ Bulk Feed Lid (NI-120) + Overfill Protection	P
	Level Control w/ Bulk Feed Lid (PT100)	C
	Level Control w/ Bulk Feed Lid (PT100) + Overfill Protection	D
	None	X

Box 17	Light Tower	
	Description	Code
	Light Tower	W
	None	X

Box 18	Main Switch	
	Description	Code
	Main Switch Red - 4 Pole	1
	Main Switch Black - 3 Pole	2
	Main Switch Black - 4 Pole	3
	None (Standard Main Switch Red-3 Pole)	X

Box 19	Host Communications	
	Description	Code
	PROFIBUS-DP with PMI	D
	ControlNet with PMI	N
	Ethernet/IP with PMI	E
	PROFINET IO w PMI	P
	None	X

¹ Contact NWSG Marketing for availability.

Box 20	Key-to-Line	
	Description	Code
	Key-to-Line per Drive (separate connectors)	K
	None (Standard Key-to-Line)	X

Box 21	Casters	
	Description	Code
	Casters	C
	None	X

Box 22	Reserved	
	Description	Code
	Reserved	X

Box 23	Filter Selection	
	Description	Code
	01 mm filter w/85 bar safety valve	H
	0.8 mm filter w/85 bar safety valve	C
	0.2 mm filter w/100 bar safety valve	D
	0.8 mm filter w/100 bar safety valve	G
	Standard (0.2 mm filter w/85 bar safety valve)	X

Boxes 24-26	Reserved	
	Description	Code
	Reserved	X

Box 27	Drain Valve	
	Description	Code
	Drain Valve	D
	None	X

Box 28	External Pressure Indicator	
	Description	Code
	External Pressure Indicator Inputs	#
	None	X

Box 29	Heat Exchanger	
	Description	Code
	Heat Exchanger	E
	None	X

Box 30	Motion Switch	
	Description	Code
	Motion Switch	M
	None	X

Box 31	Applicator Solenoid Control	
	Description	Code
	Applicator Solenoid Control	G
	None	X

Box 32	ACM	
	Description	Code
	ACM Connectivity	1
	None	X

Box 33	PLC(1)	
	Description	Code
	A-B ControlLogix w/ ControlNet & PanelView 600+	B
	A-B ControlLogix w/ Ethernet and PanelView 600+	C
	None	X

Box 34	Reserved	
	Description	Code
	Reserved	X

Box 35	Safe Torque Off	
	Description	Code
	Terminal Block	T
	Ethernet/IP	E
	None	X

Box 36	Reserved	
	Description	Code
	Reserved	X

To place your order, NAD call 1-888-NORDSON (1-888-667-3766), fax 1-770-497-3733 or online at www.enordson.com. International Orders, call 1-440-985-4797, fax 1-440-985-1096, or email intcustomerservice@nordson.com



VersaBlue[®] N Adhesive Melters

12, 25, and 50 Liter

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Web Content



VersaBlue® XN and XC Series Adhesive Melters

Description

VersaBlue XN and XC Series adhesive melters provide high speed, high volume hot melt adhesive delivery in a flexible platform with a wide range of configuration choices. Melters are available in 50, 100 and 200 liter tank sizes with twin tank configurations available for multiple adhesives.

VersaBlue XN melters target nonwovens disposable applications by offering twin tanks for different adhesives, multiple metered pump streams, control of remote metering stations and applicators, PLC control, and many auxiliary temperature control channels.

VersaBlue XC melters target high-consumption web coating applications that require high-output pumps, optional high-precision temperature controls, remote PLC control for coating stands, and several control system choices for wide-web production and integration.



VersaBlue XN Melter Front

Features

- Multiple tank sizes
- Release-coated grid and reservoir
- Up to eight single-stream or eight dual-stream spur-gear metering pumps and variable-speed AC motors
- Choice of control systems
- Simplified and expanded configuration choices
- Open electrical and hydraulic layout with removable access panels
- Common parts with VersaBlue N Series melters
- External control capability for total adhesive system control

VersaBlue® XN and XC Series Adhesive Melters

Specifications - VersaBlue XN

Parameter	Single 50	Single 100	Single 200
Number of tanks	1	1	1
Tank volume L (in ³)	50 (3051)	100 (6102)	200 (12,205)
with extended hopper L (in ³)	75 (4577)	150 (9154)	300 (18,307)
Holding capacity kg (lb)	47.5 (105)	95 (209)	190 (419)
with extended hopper kg (lb)	71.3 (157)	142.5 (314)	285 (628)
Melt rate kg/hr (lb/hr)	50 (110)	100 (220)	200 (440)
Throughput kg/hr (lb/hr)	75 (165)	125 (364)	250 (551)
Pump speed (rev/min):			
Minimum speed		5	
Maximum speed		80	
Max. number of pumps:			
Single stream		4	8
Dual stream	3	4	8
Motor size (W)		250	
Maximum number of motors		4	8
Maximum hose/applicator capacity		18	26
Maximum hose/applicator power (W):			
each hose or applicator		2000	
each hose/applicator pair		4000	
total power available for H/G		46000	
Maximum external drive controls(1)		6	
Maximum external (analog) pressure inputs		8	16
Maximum external (digital) pressure inputs		12	
Maximum air run-up control channels		16	
Maximum melter power (W)	58100	68700	82900
Electrical service 50/60 Hz (V)		3/PE AC 200-240 3/N/PE AC 380-415 Y	
Control system		Rockwell ControlLogix Siemens S7	
Filter area (cm ²) (in ²)		103	
Melter dimensions: W x H x D mm (in.)	1460 x 2015 x 1250 (57.5 x 79.3 x 49.2)	1460 x 2015 x 1500 (57.5 x 79.3 x 59)	1460 x 2015 x 2400 (57.5 x 79.3 x 94.5)
Service envelope: W x H x D mm (in.)	1932 x 2244 x 1885 (76.1 x 88.3 x 74.2)	2182 x 2244 x 2135 (85.9 x 88.3 x 84.1)	2182 x 2244 x 3035 (85.9 x 88.3 x 119.5)
Weight, empty kg (lb)	620 (1366.9)	820 (1807.8)	1470 (3240.8)
Ambient temperature range		0-50°C (32-122°F)	
Operating temperature range		40-230°C (104-450°F)	
Viscosity range (cps)		1,000 to 50,000	
Maximum hydraulic pressure		85 bar/8.5 MPa	
Approvals		CE	
Enclosure rating		IP 54	

⁽¹⁾ Melters can utilize unused internal motor controls for additional external drive controls.

VersaBlue® XN and XC Series Adhesive Melters

Parameter	Twin 50/50	Twin 50/100	Twin 100/100
Number of tanks	2	2	2
Tank volume L (in ³)	50/50 (3051/3051)	50/100 (3051/6102)	100/100 (6102/6102)
With extended hopper L (in ³)	75/75 (4577/4577)	75/150 (4577/9154)	150/150 (9154/9154)
Holding capacity kg (lb)	47.5/47.5 (104.8/104.8)	47.5/95 (104.8/209.4)	95/95 (209.4/209.4)
with extended hopper kg (lb)	71.3/71.3 (157.2/157.2)	71.3/142.5 (157.2/314.2)	142.5/142.5 (314.2/314.2)
Melt rate kg/hr (lb/hr)	50/50 (110/110)	50/100 (110/220)	100/100 (220/220)
Throughput kg/hr (lb/hr)	75/75 (165/165)	75/125 (165/275)	125/125 (275/275)
Pump speed (rev/min):			
Minimum speed		5	
Maximum speed		80	
Max. number of pumps:			
Single stream		8	
Dual stream	6	7	8
Motor size (W)		250	
Maximum number of motors		8	
Maximum hose/applicator capacity		26	
Max. hose/applicator power (W):			
each hose or applicator		2000	
each hose/applicator pair		4000	
total power available for H/A		46000	
Maximum external drive controls ⁽¹⁾		6	
Maximum external (analog) pressure inputs		16	
Maximum external (digital) pressure inputs		12	
Maximum air run-up control channels		16	
Max. melter power (W)	72800	81350	8990
Electrical service 50/60 Hz (V)		3/PE AC 200-240 3/N/PE AC 380-415 Y	
Control system		Rockwell ControlLogix Siemens S7	
Filter area cm ² (in ²)		103 (16)	
Melter dimensions: W x H x D mm (in.)	1460 x 2015 x 1900 (57.2 x 79.3 x 74.8)	1460 x 2015 x 2150 (57.2 x 79.3 x 84.7)	1460 x 2015 x 2400 (57.2 x 79.3 x 94.5)
Service envelope: W x H x D mm (in.)	1932 x 2244 x 2535 (76.1 x 88.3 x 99.8)	2182 x 2244 x 2785 (85.9 x 88.3 x 109.7)	2181 x 2244 x 3035 (85.9 x 88.3 x 119.5)
Weight, empty kg (lb)	970 (2134)	1170 (2574)	1370 (3014)
Ambient temperature range °C (°F)		0-50°C (32-122°F)	
Operating temperature range °C (°F)		40-230°C (104-450°F)	
Viscosity range (cps)		1,000 to 50,000	
Max. hydraulic pressure		85 bar/8.5 MPa	
Approvals		CE	
Enclosure rating		IP 54	

⁽¹⁾ Melters can utilize unused internal motor controls for additional external drive controls.

VersaBlue® XN and XC Series Adhesive Melters

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VersaBlue[®] XN and XC Series Adhesive Melters

Specifications - VersaBlue XC

Parameter	XC 50	XC 100	XC 200
Number of tanks	1	1	1
Tank volume L (in ³)	50 (3051)	100 (6102)	200 (12,205)
W/ extended hopper L (in ³)	75 (4577)	150 (9154)	300 (18,307)
Holding capacity kg (lb)	47.5 (104.5)	95 (209)	190 (418)
W/ extended hopper	71.3 (156.9)	142.5 (313.5)	285 (627)
Melt rate kg/hr (lb/hr)	50 (110)	100 (220)	200 (440)
Throughput kg/hr (lb/hr)	75 (165)	125 (275)	250 (550)
Pump speed (rev/min):			
Minimum speed maximum speed	5 80		
Maximum number of pumps:			
Single stream (SN0003 - SN0773)	0	4	8(1)
Single stream (PU15-25-35-50/85)	1	2	4
Single stream (PUS700)	1	2	
Dual stream	0	4	8(1)
Motor size (W)	250		
Maximum number of motors	4		8
Maximum hose/applicator capacity	8		14
Maximum hose/applicator power (W):			
each hose or applicator	2000		
each hose/applicator pair	4000		
total power available for H/A	46000		
Maximum external drive controls ⁽¹⁾	1		
Maximum external (analog) pressure inputs	16		
Maximum melter power (W)	43400	53400	98400
Elec. service 50/60 Hz (V)	3/PE AC 200-240 3/N/PE AC 380-415 Y		
Control system	IPC Rockwell ControlLogix Siemens S7 Remote PLC		
Filter area (cm ²)	103		
Melter dimensions: W x H x D mm (in.)	1460 x 2015 x 1250 (57.5 x 79.4 x 49.2)	1460 x 2015 x 1500 (57.5 x 79.4 x 59.1)	1460 x 2015 x 2400 (57.5 x 79.4 x 94.5)
Service envelope: W x H x D mm (in.)	1932 x 2244 x 1885 (76.1 x 88.3 x 74.2)	2182 x 2244 x 2135 (85.9 x 88.3 x 84.1)	2181 x 2244 x 3035 (85.9 x 88.3 x 119.5)
Weight, empty kg (lb)	620 (1364)	820 (1804)	1470 (3234)
Ambient temperature range C (F)	0-50°C (32-133°F)		
Operating temperature range C (F)	40-230°C (104-450°F)		
Viscosity range (cps)	1,000 to 50,000		
Max. hydraulic pressure	85 bar/8.5 MPa		
Approvals	CE		
Enclosure rating	IP 54		

⁽¹⁾ Limited to 4 pumps when IP control system is selected.

VersaBlue® XN and XC Series Adhesive Melters

VersaBlue XN Configuration

Tank 1									Tank 2							
	Tank #1 Capacity	Casting	Level Control	Pump 1	Pump 2	Pump 3	Pump 4	Hose/ Applicator	Tank #2 Capacity	Casting	Level Control	Pump 5	Pump 6	Pump 7	Pump 8	Hose/ Applicator
VBN -	100	2	L	A	B	C	D	4	050	2	C	A	2	A	X	4
Boxes 1-4	Boxes 5-7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14	Boxes 15-17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24

Base Melter

Boxes 5-7	Tank #1 Capacity	
	Description	Code
	50 liter	050
	50 liter w/ Hopper	50H
	100 liter	100
	100 liter w/ Hopper	10H
	None (Tank 2 Only)	XXX

Box 8	Casting (Tank #1)	
	Description	Code
	SS pumps only (No DS Allowed)	1
	DS or SS pumps(1)	2
	None (Tank 2 only)	X

⁽¹⁾Max 3 pumps on 050 or 50H capacity.

Box 9	Level Control (Tank #1)	
	Description	Code
	Level Monitoring	L
	Level Control w/ BFV (Ni-120)	B
	Level Control w/ BFV (Pt100)	C
	Option B w/ Overfill Prot.	P
	Option C w/ Overfill Prot.	D
	None	X

Box 19	Level Control (Tank #2)	
	Description	Code
	Level Monitoring	L
	Level Control w/ BFV (Ni120)	B
	Level Control w/ BFV (Pt100)	C
	Option B w/ Overfill Prot.	P
	Option C w/ Overfill Prot	D
	None	X

NOTE: Requires heating zone

Boxes 10-13 & 20-23	Pumps	
	Description	Code
	SN0030 - 1.4 kg/hr	A
	SN0046 - 2.2 kg/hr	B
	SN0062 - 2.9 kg/hr	C
	SN0093 - 4.5 kg/hr	D
	SN0186 - 8.9 kg/h	E
	SN0371 - 17.8 kg/hr	F
	SN0557 - 26.7 kg/hr	I
	SN0773 - 37.1 kg/hr	G
	SN1710 - 82.1 kg/hr(1)	H
	DN0030 - 1.4 kg/hr/stream	2
	DN0046 - 2.2 kg/hr/stream	3
	DN0062 - 2.9 kg/hr/stream	4
	DN0093 - 4.5 kg/hr/stream	5
	DN0186 - 8.9 kg/hr/stream	6
	DN0279 - 13.4 kg/hr/stream	7
	DN0557 - 26.7 kg/hr/stream	8
	SF0016 - 0.8 kg/hr	J
	SF0030 - 1.4 kg/hr	K
	SF0060 - 2.9 kg/hr	L
	SF0090 - 4.3 kg/hr	M
	SF0120 - 5.7 kg/hr	N
	SF0175 - 8.4 kg/hr	O
	SF0240 - 11.9 kg/hr	P
	SF0300 - 14.4 kg/hr	Q
	SF0450 - 21.6 kg/hr	R
	DF0016 - 0.8 kg/hr/stream	S
	DF0030 - 1.4 kg/hr/stream	T
	DF0060 - 2.9 kg/hr/stream	U
	DF0120 - 5.7 kg/hr/stream	V
	DF0175 - 8.4 kg/hr/stream	W
	DF0240 - 11.5 kg/hr/stream	Y
	None	X

⁽¹⁾Only available on 100L Single Stream Melter ("1" in box 8). Max 2 pumps.

Box 24	Hose/Applicator Pairs (Tank #2)	
	Description	Code
	4 Hose/Applicator	4
	8 Hose/Applicator	8

NOTE: Requires heating zone.

Box 14	Hose/Applicator Pairs (Tank #1)	
	Description	Code
	4 Hose/Applicator	4
	8 Hose/Applicator	8
	None ⁽¹⁾	X

⁽¹⁾Only with XXX in Box 5-7.

Box 15-17	Tank #2 Capacity	
	Description	Code
	50 liter	050
	50 liter w/ Hopper	50H
	100 liter	100
	100 liter w/ Hopper	10H
	200 liter ⁽¹⁾	200
	200 liter w/ Hopper ⁽¹⁾	20H

⁽¹⁾Tank #1 must be XXX in boxes 5-7

Box 18	Casting (Tank #2)	
	Description	Code
	SS pumps only (No DS Allowed)	1
	DS or SS pumps ⁽¹⁾	2

⁽¹⁾Max 3 pumps on 050 or 50H capacity.



VersaBlue® XN and XC Series Adhesive Melters

Options																
Return Hose	Flow Control	Internal Pressure Indication	External Pressure Inputs	Digital Pressure Input	Auxiliary Hose/App'l Pairs	Auxiliary Motor Control	Auxiliary Motor Control Type	Voltage	I/O & Indication	Reserved	Control system	Air Run-up	Applicator solenoid Control	Sensor type	Heat Ex-changer/ ACM	
1	X	A	X	X	A	X	X	4	D	A	A	X	G	P	X	
Box 25	Box 26	Box 27	Box 28	Box 29	Box 30	Box 31	Box 32	Box 33	Box 34	Box 35	Box 36	Box 37	Box 38	Box 39	Box 40	

Options

Box 25 Return Hose ⁽¹⁾		
Description	Code	
Tank 1	1	
Tank 2	2	
Tanks 1 & 2	3	
None	X	

⁽¹⁾Includes 1 hose fitting and MPCV per return manifold. Requires heating zone per manifold.

Box 26 Flow Control		
Description	Code	
Auto flow cont. w/ min speed	T	
Auto flow cont.	B	
⁽¹⁾ Pressure Build-up	N	
SV w/ Indication (no MPCV)	O	
None (Standard MPCV)	X	

⁽¹⁾Requires IPI in box 21.

Box 27 Internal Pressure Indication ⁽¹⁾		
Description	Code	
Post-filter pressure Indication	A	
Pre-filter pressure Indication	G	
Pre & Post filter pressure Indication	H	
None	X	

⁽¹⁾Output pressure control is standard functionality when pressure indication is selected.

Box 28 External Pressure Inputs		
Description	Code	
4 inputs	F	
8 inputs	E	
⁽¹⁾ 12 inputs	T	
⁽¹⁾ 16 inputs	S	
None	X	

⁽¹⁾Available only with twin tank and 200L configurations.

Box 29 Digital Pressure Input		
Description	Code	
4 Inputs	F	
8 Inputs	E	
12 Inputs	T	
None	X	

Box 30 Auxiliary H/G Pairs (@ Elec. Panel)		
Description	Code	
2 H/G (Included in Base Unit)	A	
6 H/G	B	
10 H/G	C	

Box 31 Auxiliary Motor Control (Qty)		
Description	Code	
Max. 6	#	
None	X	

Box 32 Auxiliary Motor Control Type		
Description	Code	
⁽¹⁾ AC PowerFlex 40 (750W)	A	
⁽¹⁾ Servo Ultra 3000	S	
⁽²⁾ 1x AC Lenze Vector 8200	L	
None (Standard)	X	

⁽¹⁾Rockwell PLC only.
⁽²⁾Only with S7 control system (A in box 36).

Box 33 Voltage		
Description	Code	
200-240 3P Δ (Red Main Switch, 3-Pole)	2	
200-240 3P Δ (Black Main Switch, 3-Pole)	B	
380-415 Y (Red Main Switch 4-Pole)	4	
380-415 Y (Black Main Switch, 4-Pole)	C	

Box 34 I/O & Indication		
Description	Code	
Standard -XS2 (Discrete)	D	
Warning Light Tower	W	
WLT and Discrete I/O	K	
None	X	

Box 35 Reserved		
Description	Code	
Reserved	X	

Box 36 Control System		
Description	Code	
Siemens S7-300 w/ TP270	A	
ControlLogix ENet ext. PView1000	F	
ControlLogix CNet ext. PView1000	T	

Box 37 Air Run-up ⁽¹⁾		
Description	Code	
4 outputs	4	
8 outputs	8	
12 outputs	12	
16 outputs	16	
None	X	

⁽¹⁾Air run-up kit sold separately

Box 38 Applicator Solenoid Control		
Description	Code	
Std VersaBlue	G	
Pat. Cont. through GS conn.	P	
None	X	

Box 39 Sensor Type		
Description	Code	
PT100	P	
Ni-120	N	

Box 40 Heat Exchanger/ACM		
Description	Code	
Heat Exchanger	E	
ACM Connectivity	A	
Heat Exchanger and ACM	B	
None	X	

VersaBlue® XN and XC Series Adhesive Melters

VersaBlue XC Configuration

BASE MELTER												
	Tank Capacity	Casting	Level Control	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Hose/ Applicator
VBC -	20H	1	D	H	H	H	H	X	X	X	X	8
Boxes 1-4	Boxes 5-7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14	Box 15	Box 16	Box 17	Box 18

Base Melter

Box 5-7	Tank Capacity	
	Description	Code
	50 liter	050
	50 liter w/ Hopper	50H
	100 liter	100
	100 liter w/ Hopper	10H
	200 liter	200
	200 liter w/ Hopper	20H

Box 8	Casting	
	Description	Code
	SS pumps only (No DS Allowed)	1
	DS or SS pumps	2
	High displacement (PU) pumps only ⁽¹⁾	3

⁽¹⁾Castings machined for specific configuration, cannot be upgraded in the field

Box 9	Level Control	
	Description	Code
	Level Monitoring	L
	Level Control w/ BFV (Ni-120) ⁽¹⁾	B
	Level Control w/ BFV (PT100) ⁽¹⁾	C
	Option B w/ Overfill Prot. ⁽¹⁾	P
	Option C w/ Overfill Prot ⁽¹⁾	D
	None	X

⁽¹⁾Must select quantity of BFV inputs in Box 25 if options B, C, P, or D are configured.

Box 10-17	Pumps	
	Description	Code
	SN0030 - 1.4 kg/hr	A
	SN0046 - 2.2 kg/hr	B
	SN0062 - 2.9 kg/hr	C
	SN0093 - 4.5 kg/hr	D
	SN0186 - 8.9 kg/h	E
	SN0371 - 17.8 kg/hr	F
	SN0557 - 26.7 kg/hr	I
	SN0773 - 37.1 kg/hr	G
	SN1710 - 82.1 kg/hr	H
	DN0030 - 1.4 kg/hr/stream	2
	DN0046 - 2.2 kg/hr/stream	3
	DN0062 - 2.9 kg/hr/stream	4

Box 10-17	Pumps (contd)	
	Description	Code
	DN0093 - 4.5 kg/hr/stream	5
	DN0186 - 8.9 kg/hr/stream	6
	DN0279 - 13.4 kg/hr/stream	7
	DN0557 - 26.7 kg/hr/stream	8
	SF0016 - 0.8 kg/hr	J
	SF0030 - 1.4 kg/hr	K
	SF0060 - 2.9 kg/hr	L
	SF0090 - 4.3 kg/hr	M
	SF0120 - 5.7 kg/hr	N
	SF0175 - 8.4 kg/hr	O
	SF0240 - 11.9 kg/hr	P
	SF0300 - 14.4 kg/hr	Q
	SF0450 - 21.6 kg/hr	R
	DF0016 - 0.8 kg/hr/stream	S
	DF0030 - 1.4 kg/hr/stream	T
	DF0060 - 2.9 kg/hr/stream	U
	DF0120 - 5.7 kg/hr/stream	V
	DF0175 - 8.4 kg/hr/stream	W
	DF0240 - 11.5 kg/hr/stream	Y
	None	X
	High Displacement Pumps	
	SN1882 - 85.8 kg/hr (PU15/85) ⁽¹⁾	A
	SN3135 - 142.9 kg/hr (PU25/85) ⁽¹⁾	B
	SN4390 - 200.1 kg/hr (PU35/85) ⁽¹⁾	C
	SN6272 - 286 kg/hr (PU50/85) ⁽¹⁾	D
	SN11872 - 541.3 kg/hr (PU700) ⁽²⁾	E
	None	X

⁽¹⁾Max 1x on 50L, 2x on 100L and 4x on 200L.

⁽²⁾Max 1x on 50L, 2x on 100L and 2x on 200L.

Box 18	Hose/Applicator Pairs (@ Tank)	
	Description	Code
	2 Hose/Applicator	Z
	4 Hose/Applicator	F
	8 Hose/Applicator	E
	12 Hose/Applicator(1)	T
	16 Hose/Applicator(1)	S
	1-Ch Han15D (max. 8) #1	
	Incl. 24-pin appl. Conns #2-8 each	#

⁽¹⁾PLC and Remote Control only (A,B,C,F or T in Box 36).



VersaBlue® XN and XC Series Adhesive Melters

OPTIONS																					
Reserved	Reserved	Reserved	Reserved	Reserved	Reserved	Return Filling Port	Flow Control	Internal Pressure Indication	Ext. Pressure Inputs	Reserved	Auxiliary Hose / Applicator	Aux. Motor Control	Reserved	Voltage	I/O & Indication	Melter Motor Control	Control System	Air Run-up	Applicator Solenoid Control	Sensor Type	Heat Exchanger
X	X	X	X	X	X	1	X	A	X	X	A	X	X	4	D	A	A	X	G	P	X
Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25	Box 26	Box 27	Box 28	Box 29	Box 30	Box 31	Box 32	Box 33	Box 34	Box 35	Box 36	Box 37	Box 38	Box 39	Box 40

Options

Box 19-24 Reserved		
Description	Code	
Reserved	X	

Box 25 Return Filling Port		
Description	Code	
One Port	1	
Two Ports ⁽¹⁾	2	
Three Ports ⁽²⁾	3	
Four Ports ⁽²⁾	4	
None	X	

⁽¹⁾ Only available on 100L and 200L.
⁽²⁾ Only available on 200L.

Box 26 Flow Control		
Description	Code	
IPI w/ OPC ⁽¹⁾	C	
Auto flow cont. w/ min speed	T	
Auto flow cont.	B	
Pressure Build-up ⁽¹⁾	N	
SV w/ Indication (no MPCV)	O	
None (Standard MPCV)	X	

⁽¹⁾ Requires IPI in box 21.

Box 27 Internal Pressure Indication		
Description	Code	
Post-filter pressure Indication	A	
Pre-filter pressure Indication	G	
Pre & Post filter pressure indication ⁽¹⁾	H	
None	X	

⁽¹⁾ Not available with IPC control (G, E, D, or N in Box 36).

Box 28 External Pressure Inputs		
Description	Code	
4 inputs ⁽¹⁾	F	
8 inputs ⁽¹⁾	E	
12 inputs ⁽¹⁾	T	
16 inputs ⁽¹⁾	S	
# Up to 8 inputs ⁽²⁾	#	
None	X	

NOTE: Requires IPI in box 21.
⁽¹⁾ Only with PLC control.
⁽²⁾ Requires IPC control (G, E, D, or N in Box 36).

Box 29 Reserved		
Description	Code	
Reserved	X	

Box 30 Auxiliary H/A Pairs (@ Elec. Panel)		
Description	Code	
2 Hose/Applicator ⁽¹⁾	A	
6 Hose/Applicator ⁽¹⁾	B	
10 Hose/Applicator ⁽¹⁾	C	
None ⁽²⁾	X	

⁽¹⁾ PLC and Remote Control only (A, B, C, F or T in Box 36).
⁽²⁾ Mandatory for IPC control (G, E, D, or N in Box 36).
 Aux H/G not available

Box 31 Auxiliary Motor Control ⁽¹⁾		
Description	Code	
1x AC PowerFlex 40 (750W) ⁽²⁾	A	
1x AC PowerFlex 40 (3.7-kW) ⁽²⁾	E	
1x AC Lenze Vector 8200 (550W) ⁽³⁾	L	
1x AC Lenze Vector 8200 (3-kW) ⁽³⁾	F	
None (Standard)	X	

⁽¹⁾ Not available w/ IPC control.
⁽²⁾ Only with A-B Control.
⁽³⁾ Only w/ S7 or remote control.

Box 32 Reserved		
Description	Code	
Reserved	X	

Box 33 Voltage		
Description	Code	
200-240 3P Δ (Red Main Sw., 3-Pole)	2	
200-240 3P Δ (Black Main Sw., 3-Pole)	B	
380-415 Y (Red Main Switch, 4-Pole)	4	
380-415 Y (Black Main Switch, 4-Pole)	C	

Box 34 I/O & Indication		
Description	Code	
Standard -XS2	D	
Warning Light Tower	W	
WLT and Discrete I/O	K	
None	X	

Box 35 Melter Motor Control		
Description	Code	
Motor w/ Encoder feedback ⁽¹⁾	A	
Auxiliary fan (high displacement pumps)	B	
None	X	

⁽¹⁾ PLC and Remote Control only (A, B, C, F or T in Box 36).

Box 36 Control System		
Description	Code	
Siemens S7-300 w/ TP270 - PROFIBUS	A	
Remote S7 Ctrl. w/ Hi-Perf TempCtrl.	B	
Remote S7 Ctrl. w/o Hi-Perf TempCtrl.	C	
IPC	G	
IPC with Ethernet	E	
IPC with PROFIBUS	D	
IPC with ControlNet	N	
ControlLogix ENet ext. PView1000	F	
ControlLogix CNet ext. PView1000	T	

Box 37 Air Run-up		
Description	Code	
4 programmable outputs ⁽¹⁾	F	
8 programmable outputs ⁽¹⁾	E	
12 programmable outputs ⁽¹⁾	T	
16 programmable outputs ⁽¹⁾	S	
6 outputs with IPC ⁽²⁾	6	
None	X	

⁽¹⁾ 2PLC and Remote Control only (A, B, C, F or T in Box 36).
⁽²⁾ Connectors w/ power and K-T-L signal

Box 38 Applicator Solenoid Control		
Description	Code	
Std VersaBlue	G	
Pat. Cont. through GS conn.	P	
None	X	

Box 39 Sensor Type		
Description	Code	
Pt100	P	
Ni-120	N	

Box 40 Heat Exchanger		
Description	Code	
Heat Exchanger	E	
None	X	

VersaBlue® XN and XC Series Adhesive Melters

Pump Selection: Versablue N, XN, XC Adhesive Melters

Pump	P/N	Legacy \ Description	Type	Manufacturer ¹	Displacement ² cc/rev (in ³ /rev)	Pump Rates ² @ 80 RPM kg/hr (lb/hr)
SN0030	7109715	PR2m1	Single Stream	Nordson	0.3 (0.02)	1.4 (3.1)
SN0046	729105	PR3m1	Single Stream	Nordson	0.46 (0.03)	2.2 (4.9)
SN0062	7116270	PR4m1	Single Stream	Nordson	0.62 (0.04)	2.9 (6.4)
SN0093	7104514	PR6m1	Single Stream	Nordson	0.93 (0.06)	4.5 (9.9)
SN0186	203708	PR12m1	Single Stream	Nordson	1.86 (0.11)	8.9 (19.6)
SN0371	729106	PR12m2	Single Stream	Nordson	3.71 (0.23)	17.8 (39.2)
SN0557 ⁽³⁾	7116828	PR18m2	Single Stream	Nordson	5.57 (0.34)	26.7 (58.9)
SN0773	729107	PR25m2	Single Stream	Nordson	7.73 (0.47)	37.1 (81.8)
SN1710	7116829	PR100m3	Single Stream	Nordson	17.10 (1.04)	82.1 (180)
SN1882 ⁽⁴⁾	291995	PU15/85	Single Stream	Nordson	18.82 (1.15)	85.8 (189.2)
SN3135 ⁽⁴⁾	7104179	PU25/85	Single Stream	Nordson	31.35 (1.91)	142.9 (315.3)
SN4390 ⁽⁴⁾	7104180	PU35/85	Single Stream	Nordson	43.9 (2.68)	200.1 (441.2)
SN6272 ⁽⁴⁾	403729	PU50/85	Single Stream	Nordson	62.72 (3.83)	286.0 (630.5)
SN1187 ⁽⁴⁾	201712	PU700	Single Stream	Nordson	118.72 (7.25)	541.3 (1193.6)
SH0371 ⁽⁵⁾	7130225	PR12m2, hard	Single Stream	Nordson	3.71 (0.23)	17.8 (39.2)
SH0773 ⁽⁵⁾	7131840	PR25m2, hard	Single Stream	Nordson	7.73 (0.47)	37.1 (81.8)
DN0030	7116580	PU2-2m1	Dual Stream	Nordson	0.3 (0.02)	1.4 (3.1)
DN0046	7104179	PU3-2m1	Dual Stream	Nordson	0.46 (0.03)	2.2 (4.9)
DN0062	7104180	PU4-2m1	Dual Stream	Nordson	0.62 (0.04)	2.9 (6.4)
DN0093	7116269	PU6-2m1	Dual Stream	Nordson	0.93 (0.06)	4.5 (9.9)
DN0186	7104181	PU12-2m1	Dual Stream	Nordson	1.86 (0.11)	8.9 (19.6)
DN0279	7116268	PU18-2m1	Dual Stream	Nordson	2.79 (0.17)	13.4 (29.5)
DN0557 ⁽³⁾	7116830	PU18-2m2	Dual Stream	Nordson	5.57 (0.34)	26.7 (58.9)
SF0016	401723	1 x 0.16	Single Stream	Feinpruf	0.16 (0.01)	0.8 (1.8)
SF0030	400756	1 x 0.30	Single Stream	Feinpruf	0.3 (0.02)	1.4 (3.1)
SF0060	316264	1 x 0.60	Single Stream	Feinpruf	0.6 (0.04)	2.9 (6.4)
SF0090	400757	1 x 0.90	Single Stream	Feinpruf	0.9 (0.05)	4.3 (9.5)
SF0120	316265	1 x 1.20	Single Stream	Feinpruf	1.2 (0.07)	5.7 (12.6)
SF0175	400680	1 x 1.75	Single Stream	Feinpruf	1.75 (0.11)	8.4 (18.5)
SF0240	401648	1 x 2.40	Single Stream	Feinpruf	2.4 (0.15)	11.9 (26.2)
SF0300	400758	1 x 3.00	Single Stream	Feinpruf	3 (0.18)	14.4 (31.7)
SF0450	408403	1 x 4.50	Single Stream	Feinpruf	4.5 (0.27)	21.6 (47.6)
DF0016	316125	2 x 0.16	Dual Stream	Feinpruf	0.16 (0.01)	0.8 (1.8)
DF0030	401215	2 x 0.30	Dual Stream	Feinpruf	0.3 (0.02)	1.4 (3.1)
DF0060	314006	2 x 0.60	Dual Stream	Feinpruf	0.6 (0.04)	2.9 (6.4)
DF0120	319287	2 x 1.20	Dual Stream	Feinpruf	1.2 (0.07)	5.7 (12.6)
DF0175	403619	2 x 1.75	Dual Stream	Feinpruf	1.75 (0.11)	8.4 (18.5)
DF0240	280356	2 x 2.40	Dual Stream	Feinpruf	2.4 (0.15)	11.5 (25.4)

⁽¹⁾ Feinpruf pumps cannot be combined with other pumps.⁽⁴⁾ Available on XC configurations only.⁽²⁾ Stated displacement and pump rates are per stream.⁽⁵⁾ Not available on VersaBlue XN/XC melters.⁽³⁾ Available on XC and XN configurations only.

Web Content

VersaBlue[®] N, XN, XC

Adhesive Melter Accessories

VersaBlue N Filter Service Kits

Part Number	Description
1120136	Filter Cartridge, Mesh size 0.1 mm, complete
1120135	Filter Cartridge, Mesh size 0.1 mm, reinf, compl
1120137	Filter Cartridge, mesh size 0.2 mm, reinf, compl
394590	Service Kit, Filter 0.2 mm
1120144	Filter Cartridge, Mesh size 0.2 mm, HT, complete
1120145	Filter Cartridge, Mesh size 0.4 mm, complete
1120146	Filter Cartridge, Mesh size 0.6 mm, complete
1120148	Filter Cartridge Mesh size 0.8 mm, complete
7109691	Service Kit, Filter 0.8 mm
1120149	Filter Cartridge, Mesh size 0.8 mm, HT, complete

Fittings and Accessories

Straight Hose Fittings

NOTE: VersaBlue N melters ship with one 8 mm hose fitting per stream.

Part Number	Description
446617	8 mm
419881	13 mm
203786	16 mm

45° Hose Fitting Adapter

NOTE: Angle adapter fittings to be used in addition to straight fittings.

Part Number	Description
250207	8 mm
252075	13 mm
446611	16 mm

90° Hose Fitting Adapter

NOTE: Angle adapter fittings to be used in addition to straight fittings.

Part Number	Description
252582	8 mm
250208	13 mm
289331	16 mm

VersaBlue® N, XN, XC

Adhesive Melter Accessories

Hose Fittings

Part Number	Description
446617	Hose Fitting a9/16BUNF-a3/4UNF (NW8) 1 O-ring included
419881	Hose Fitting a3/4UNF-a3/4UNF (NW13) 1 O-ring included
203786	Hose Fitting a1 1.16-12F-a3/4UNF (NW16) 1 O-ring included

Safety Valves

Part Number	Description
207932	Safety Valve, 85 bar
7106950	Safety Valve W/Limit Switch, 85 bar
394592	Service Kit, Safety Valve

Control Valves

Part Number	Description
203059	Pressure Control Valve, 90 Bar, Adjustable
207300	Pressure Control Valve, Pneumatically Controlled
394600	Service Kit, Pressure Control Valve

Temperature Sensor

Part Number	Description
394597	Rtd Sensor Ni120 Kit
7116067	Rtd Sensor Pt100 Kit

Casters

Part Number	Description
394793	Casters Kit 12, 25, and 50L
7104872	Casters Kit 100L

Light Tower

Part Number	Description
394794	Light Tower Kit

Interface Connectors

Part Number	Description
729678	Standard I/O Interface (XS2) Kit
729677	Key-to-Line (X55) Kit

Web Content



EZ Melt™ Series Adhesive Melters

20 and 45 liter

Description

Nordson EZ Melt series melters are designed to deliver hot melt adhesive in support of low to mid-speed production. A choice of metering spur-gear pumps with variable-speed AC motors and key-to-line functionality satisfies a wide range of manufacturing requirements. A non-stick coated tank and reservoir design reduces adhesive degradation while maximizing adhesive throughput. The versatile control panel offers a choice of programming methods using either the keypad or arrow keys.

Features

- Install quickly and easily
- Provide easy day-to-day operation
- Simplify routine maintenance
- Maximize uptime

**EZ Melt Series 20 and 45 liter Melters**

EZ Melt™ Series Adhesive Melters

20 and 45 liter

Specifications

Parameter	Specification	
Type of system	Release-coated tank and reservoir Spur-gear pump with variable AC motor	
Number of Pumps	Up to two (2) single- or dual-stream	
Maximum Pump Rate ^{1&2}	0.7 to 37.1 kg/hr (1.6 to 81.6 lb/hr)	
Number of Hoses/Applicators	Up to six (6)	
Filter type	Saturn basket-style filter	
Operating Temperature Range	40° to 230 °C (100° to 450 °F)	
Maximum Working Hydraulic Pressure	85 bars/8.5 MPa (1230 psi)	
Ambient temperature range	0–50 °C (32–122 °F)	
Temperature Sensor	Ni120	
Temperature control stability	±1 °C (2 °F)	
Maximum External Power Capacity	Hose/Gun Connector Positions 1–4 (each): 1,200 watts per pair/1,000 watts per channel Hose/Gun Connector Positions 5–6 (each): 2,000 watts per pair/2,000 watts per channel	
Electrical Service ³	200 to 240 VAC 3 phase 50/60 Hz 380 to 415 VAC-Y (3 phase N/PE) 50/60 Hz	
Input/Output Capability Standard	3 outputs/4 inputs programmable for function	
Melter Dimensions (W x H x D)	1054.5 x 1230 x 600 mm (41.5 x 48.4 x 23.6 in.)	
Installation Dimensions (W x H x D)	3000 x 1278 x 2600 mm (118 x 50.3 x 102 in.)	
Protection	IP33	
Parameter	20 liter	45 liter
Holding Capacity	20 L (1220 in ³) 19 kg (42 lb)	45 L (2746 in ³) 43.5 kg (96 lb)
Throughput (per hour) ¹	24 kg (53 lb)	54 kg (119 lb)
Melt Rate (per hour) ¹	20 kg (44 lb)	40 kg (88 lb)
Weight (empty) ⁴	205 kg (451 lb)	240 kg (529 lb)
Maximum System Power Capacity	14740 W	16540 W
Weight (empty)	42 kg (92 lb)	76 kg (168 lb)

Notes:

¹ Actual rates will vary depending on adhesive type, application parameters and input voltage.

² Range given is for maximum pump rate of various pumps available.

³ Permitted deviation from rated line voltage is ±10%.

⁴ Weight depends on melter configuration.

EZ Melt Product Configuration Tree

Base Melter												
			Melter Capacity			Voltage	Pump 1	Pump 2	Resvd.	Resvd.	Hose/ Applic.	\
E	Z	-	0	2	0	4	E	F	X	X	6	\
Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13

Options											
Flow control	Resvd.	Resvd.	Resvd.	Resvd.	Resvd.	Resvd.	Resvd.	Sensor	Resvd.	Resvd.	Resvd.
X	X	X	X	X	X	X	X	N	X	X	X
Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25

EZ Melter	
Boxes 1-2	Description
EZ	EZ melter

Tank Capacity	
Boxes 4-6	Description
20	20 liter
24	24 liter

Voltage	
Box 7	Description
3	240 VAC 3P Delta
4	380-415 VAC Wye

Pump	
Boxes 8-9	Description
I	SN0015 — 0.7 kg/hr
A	SN0030 — 1.4 kg/hr
B	SN0046 — 2.2 kg/hr
C	SN0062 — 2.9 kg/hr
D	SN0093 — 4.5 kg/hr
E	SN0186 — 8.9 kg/hr
F	SN0371 — 17.8 kg/hr
G	SN0773 — 37.1 kg/hr
9	SH0371 — 17.8 kg/hr
Z	SH0773 — 37.1 kg/hr
2	DN0030 — 1.4 kg/hr/stream
3	DN0046 — 2.2 kg/hr/stream
4	DN0062 — 2.9 kg/hr/stream
5	DN0093 — 4.5 kg/hr/stream
6	DN0186 — 8.9 kg/hr/stream
7	DN0279 — 13.4 kg/hr/stream

Hose/Applicator Pairs	
Box 12	Description
6	4 low, 2 high

Flow Control	
Box 14	Description
X	Manual pressure control valve (PVC)
V	Circulation control valve

Sensor Type	
Box 22	Description
N	Ni120

EZ Melt Series Adhesive Melters

20 and 45 liter

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Web Content



SureFoam™ Dispensing Systems

Description

The Nordson SureFoam dispensing system mixes reactive and non-reactive hot melt adhesive with inert gas to create a homogenous mixture. As the material is dispensed, the gas expands to create a closed-cell foam. The foamed material can be applied in swirl or bead patterns using Nordson dispensing hand-held applicators. SureFoam foaming systems are ideal for a wide variety of adhesive applications including packaging and assembly, such as cabinets and automotive.

Manual Density Control

Single adjustment density controls allow for easy setup of the foam process. Applications requiring up to 50% density reduction can be easily and quickly adjusted.

Simple Interface

The design utilizes an input signal from the applicator to trigger the mixing process. The melter provides precise, controlled heating and functional interlock.



SureFoam System



Watch Video

User-Friendly Design

Easy to maintain and service with minimal service items and few moving parts.

Although applied by conventional means, the foamed material provides numerous benefits including:

- Reduce adhesive consumption up to 50%, depending on adhesive.
- Longer open time increases work time and provides greater flexibility.
- Reduced sagging or running for uniform adhesive thickness.
- Faster set time increases line speeds and production rates. Labor is reduced and less warehouse space is required for inventory.
- Volumetric increase improves gap filling capability for improved bond strength.
- Improved wetting increases the ability to penetrate impervious surfaces.
- Increased penetration creates stronger bonds and results in fewer rejects.
- Lower heat density reduces heat damage and improves operator safety.

SureFoam™ Dispensing Systems

Specifications

Parameter	Specification
Holding capacity	N/A
Melt rate	N/A
Delivery rate ⁽¹⁾	35 kg/hour (77 lb/hr)
Density reduction ⁽¹⁾	50%
Viscosity range ⁽²⁾	1000-30000 cps
Gas supply	Industrial grade nitrogen 1500 psi minimum
Air supply	Clean dry compressed air 6 bar (90 psi) max
Temperature range	38 - 232 °C (100 - 450 °F)
Hose/Applicator or Hose/Handgun capacity	Single
Electrical service <ul style="list-style-type: none"> • Heaters • Motor/Controls 	240 Volt single phase, 50/60 Hz 700 Watts (supplied by melter) 120 Volt or 240 Volt single phase, 90 watts
Dimensions (L x W x H)	349 mm x 260 mm x 476 mm 13.75 in. x 10.25 in. x 18.75 in.)
Weight (empty)	24 kg (53 lbs.)
Approvals and certifications	CE

⁽¹⁾ Actual rates can vary depending on adhesive viscosity and other characteristics.

⁽²⁾ Depends on required delivery rates and desired foam density.

Part Numbers

Part Number	Description
1076606	120 Volt, 50/60 Hz mixer motor/control, 240 Volt heater
1076675	240 Volt, 50/60 Hz mixer motor/control, 240 Volt heater
1089072	240 Volt, 50/60 Hz mixer motor/control, 240 Volt heater, PT100

Web Content



Ultra FoamMix™ Cube

Description

The patented Ultra FoamMix System produces closed-cell foam from a variety of flowable sealants. It allows manual or automated application to components with repeatable performance, eliminating the need for die-cut and foam-tape gaskets. The system mixes sealant materials or adhesives with low-pressure inert gas or plant air to produce a homogeneous mixture that creates a closed-cell foam when dispensed. The system processes and dispenses high-performance materials, including silicones, urethanes and plastisols at elevated or ambient temperatures. Because chemicals are not used, material composition remains unchanged. Foamed materials retain basic physical properties such as temperature and chemical resistance.

In bonding applications the Ultra FoamMix system dramatically improves the performance of most hot melt materials and provides significant material savings at the same time.

Straight-forward PLC controls use a user-friendly touch-screen programmed to display and operate in local languages. The controller can be cart mounted so it can be positioned or moved as needed within the 10-meter cable length. And, the Ultra FoamMix PLC integrates system components like VDK applicators and material supply systems. A standard Ethernet connection is used for communication to simplify worldwide troubleshooting and technical support.

Gas content of foamed materials can be adjusted to control mechanical properties such as material durometer, compression set resistance and flexibility.

Advanced Application Technology

- Reduced adhesive consumption of up to 50 percent.
- Increased open time provides greater process flexibility.
- Faster set time for increased line speeds and production rates. Labor is reduced and less warehouse space is required for inventory.
- Volumetric increase for greater gap filing capabilities.
- Improved wetting increases the ability to bond impervious surfaces and enhances application versatility.
- Lower heat density helps reduce substrate heat damage while improving operator safety.
- Reduced sagging or running for uniform adhesive thickness.
- Increased penetration creates stronger bonds and results in fewer rejects.



Ultra FoamMix Cube



Watch Video

Ultra FoamMix™ Cube

General Specifications

- Compact, service-friendly design
- Siemens S7 PLC with intuitive touch panel for easy operation and displays of all process parameters in many local languages
- Integrated control of VDK applicators and material supply system (when specified as complete system)
- Free selection of foam percentage from 0% (solid) up to 70% foam (gas ratio) depending on material
- Foam unit for the generation of fine pored foam and higher foam ratios
- Permanent sensor failure monitoring with visual display
- Dry output contacts for Alarm and Ready signal
- 0-10 Volt interface for external pump control
- Week/Day timer (PLC)
- Start-up pressure control
- Choice of temperature sensor PT100, Ni-120
- Ethernet connection for remote diagnostics & service

Siemens is a registered trademark of Siemens. AG.

Ultra FoamMix Specifications

NOTE: These specifications apply to the special stand-alone foam cube.

Parameter	Specification*
Foam station pump sizes ⁽¹⁾	Up to 18.9 liters/hour up to 30.2 liters/hour up to 54.6 liters/hour up to 126 liters/hour up to 210 liters/hour
Gas injection	Nitrogen or plant air (low pressure)
Electrical service ⁽²⁾	3x 400 VAC + N + PE
Max. adhesive pressure bar (psi)	100 (1450)
Max. operating temperature °C (°F)	250 (478)
Temperature sensors	PT100 / Ni-120/ Fe-CuNi
Hose connections	8, 13, 16, 20mm
No. of material outlets	1 or 2

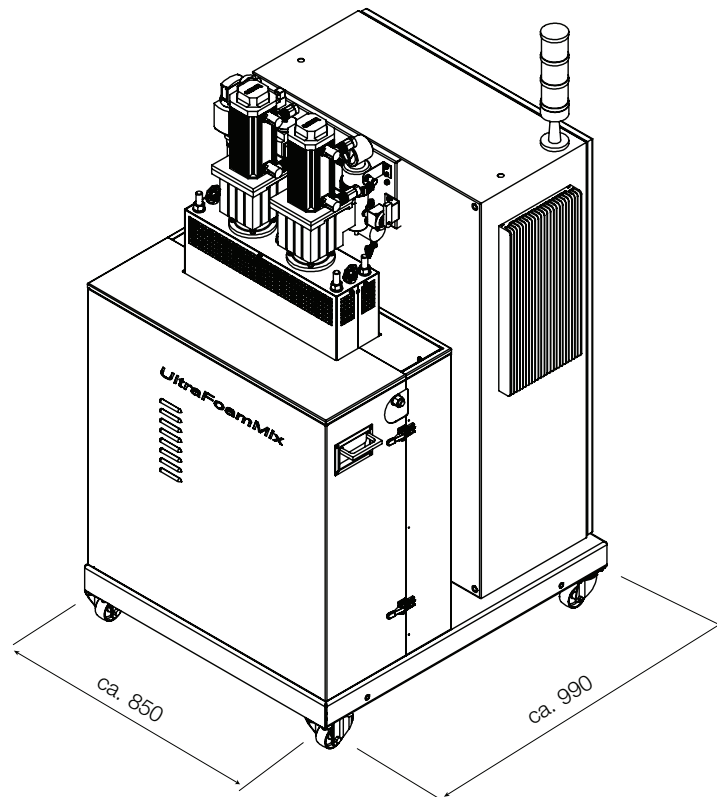
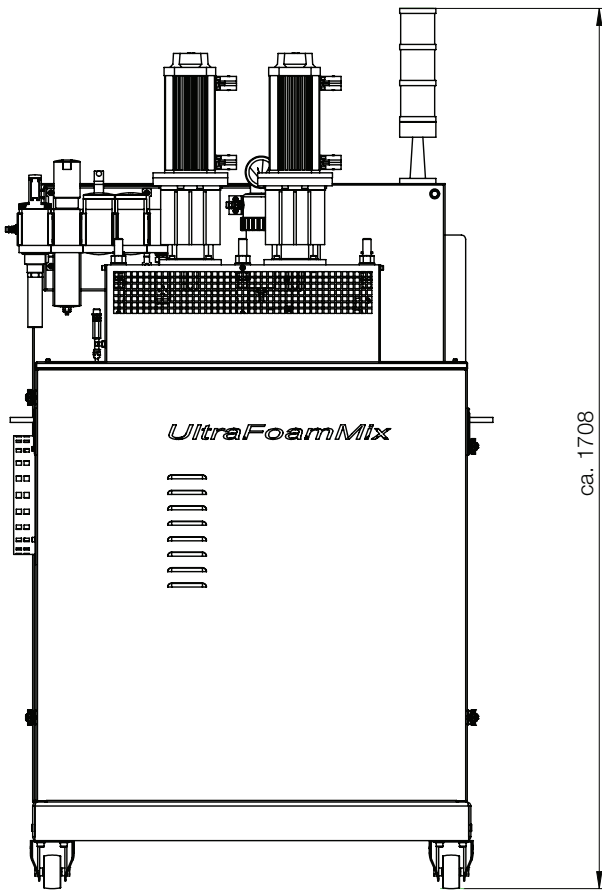
* This is a generic specification. Exact specifications of Engineered Systems are valid with order confirmation only.

⁽¹⁾ Maximum output rate depends on material and foam rate.

⁽²⁾ Transformer may be needed for any other local power supply.

Ultra FoamMix™ Cube

Dimensions



Ultra FoamMix™ Cube

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Web Content



Ultra FoamMix™ EX

Description

A Nordson Extruder is the first choice when processing “difficult” adhesives like Polyamide, Polyester or Polyolefin (APAO). These adhesives ask for a closed system to avoid degradation of the adhesive through carbonization and consequently loss of bonding performance or other problems caused within the system.

Extruders enable homogeneous melting in a fully closed “melt-on-demand” system to provide a safe and reliable application process.

Nordson extruders offer the fastest, easiest adhesive changes possible compared to other melters without time- and cost-intensive cleaning procedures.

The Nordson Ultra FoamMix EX Extruder offers a low-maintenance, user-friendly solution to improve mechanical properties of adhesives and provide material savings with a variety of high-performance materials.

Demanding materials like Polyamide or Polyolefin as well as other thermoplastics are foamed by low pressure nitrogen injection without chemicals so they retain their basic physical properties.

Straight-forward PLC controls provide a user-friendly touch-screen programmed to display and operate in local languages. The Ultra FoamMix Extruder controls easily integrate with the parent machine controls.

Advanced Application Technology

The Nordson Ultra FoamMix process dramatically improves the performance of most hot melt adhesives by mixing them with gas, creating a homogeneous solution. As the material is dispensed, the gas expands to create a closed-cell foam. The foamed material is applied like the more conventional approaches, but provides the following benefits:

- Reduced adhesive consumption of up to 50 percent.
- Increased open time provides greater process flexibility.



Ultra FoamMix EX Extruder

Gas content of foamed materials can be adjusted to control mechanical properties such as material durometer, compression set resistance and flexibility.

- Faster set time for increased line speeds and production rates. Labor is reduced and less warehouse space is required for inventory.
- Volumetric increase for greater gap filing capabilities.
- Improved wetting increases the ability to bond impervious surfaces and enhances application versatility.
- Lower heat density helps reduce heat damage while improving operator safety.
- Reduced sagging or running for uniform adhesive thickness.
- Increased penetration creates stronger bonds and results in fewer rejects.

Ultra FoamMix™ EX

Specifications

- Compact, service-friendly design
- PLC control standard: easy integration into existing production lines
- PROFIBUS® interface
- Ethernet connection for remote diagnostics and service
- Intuitive graphical touch panel in local languages
- Provide key-to-line interaction with parent machine through documented interfaces
- Visual display of process data
- ChemCoat® coated conical feeding hopper provide safe material supply
- Cylinder and screw manufactured from tempered nitrified steel providing an extremely long lifetime Integrated Ultra FoamMix unit

PROFIBUS is a registered trademark of PROFIBUS & PROFINET International.
ChemCoat is a registered trademark of Impreglon GmbH.

Control System

Siemens® S7 PLC with touch panel (5.7 in. or 10.4 in.)

- Start-up circuit that monitors temperature drops and temperature fluctuations for all heating zones
- All process parameter settings programmable
- Multiple storage capability provides easy program selection
- Free selection of foam percentage from 0% (solid) up to 70% foam (gas ratio) depending on material
- Permanent sensor failure monitoring with visual display
- Zero potential output contacts for reporting temperature drops and temperature fluctuations, and ready for operation signal.
- Electronic pressure control for manual and automatic operation with excess pressure cutoff
- Pressure build-up control with automatic switch-over to speed regulation during head control

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Parameter	Specification*	
	EX 30 UFM	EX 60 UFM
Max. Throughput kg/hr (lb/hr) ⁽¹⁾	30 (66)	60 (132)
Foam output L/hr (in ³ /hr) ⁽²⁾	60 (3660)	120 (7323)
Hopper Volume L (in. ³)	40 (2640)	60 (3960)
Rated Power of main drive kW	11	19.4
Rated Power of UFM drives kW	4.4	6.6
Rated Heating Power kW ⁽³⁾	25.6	30.4
Electrical Service ⁽⁴⁾	3x 400VAC + N+ PE	
Max. adhesive pressure bar (psi)	100 (1450)	
Max. operating temperature °C (°F)	250 (478)	
Temperature sensors	PT100 / Fe-CuNi	
Hose connections	8, 13, 16, 20 mm	
No. of adhesive outputs	1 or 2	

*This is a generic specification. Exact specifications of Engineered Systems are valid with order confirmation only.

⁽¹⁾Maximum output rate depends on adhesive; indication is based on Polyamide.

⁽²⁾Based on 50% gas. Up to 70% gas content possible. Maximum Foam rate depends on adhesive properties and process parameters.

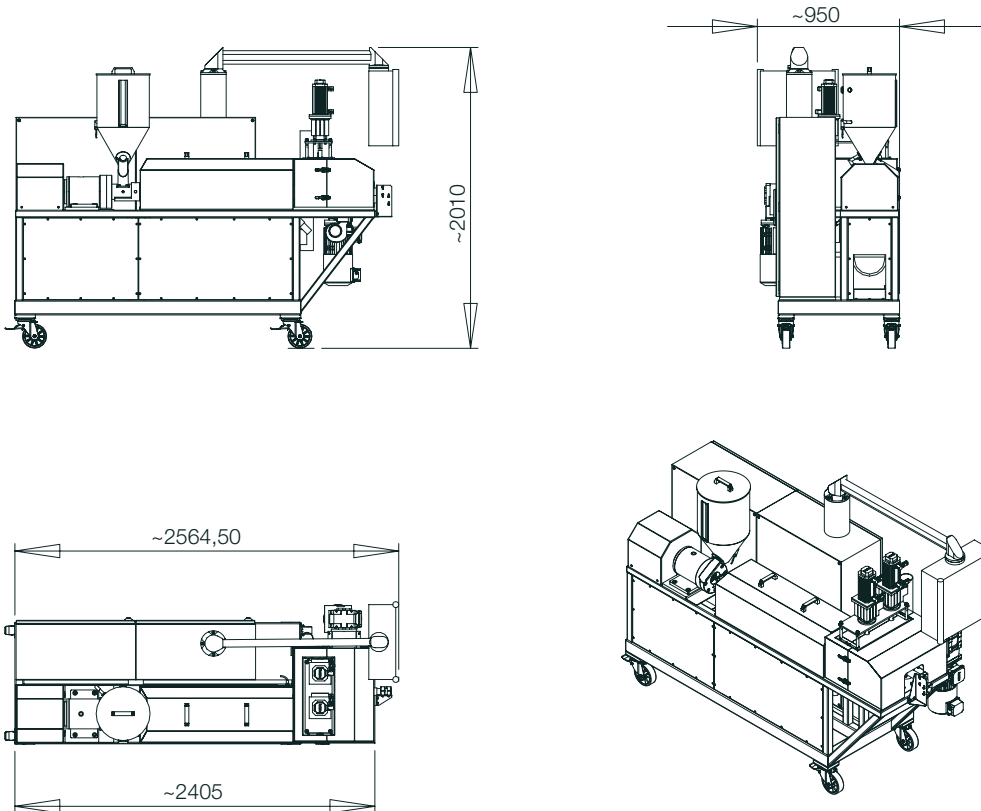
⁽³⁾Heating Power without hoses and applicators.

⁽⁴⁾Transformer may be needed for any other local power supply.



Dimensions

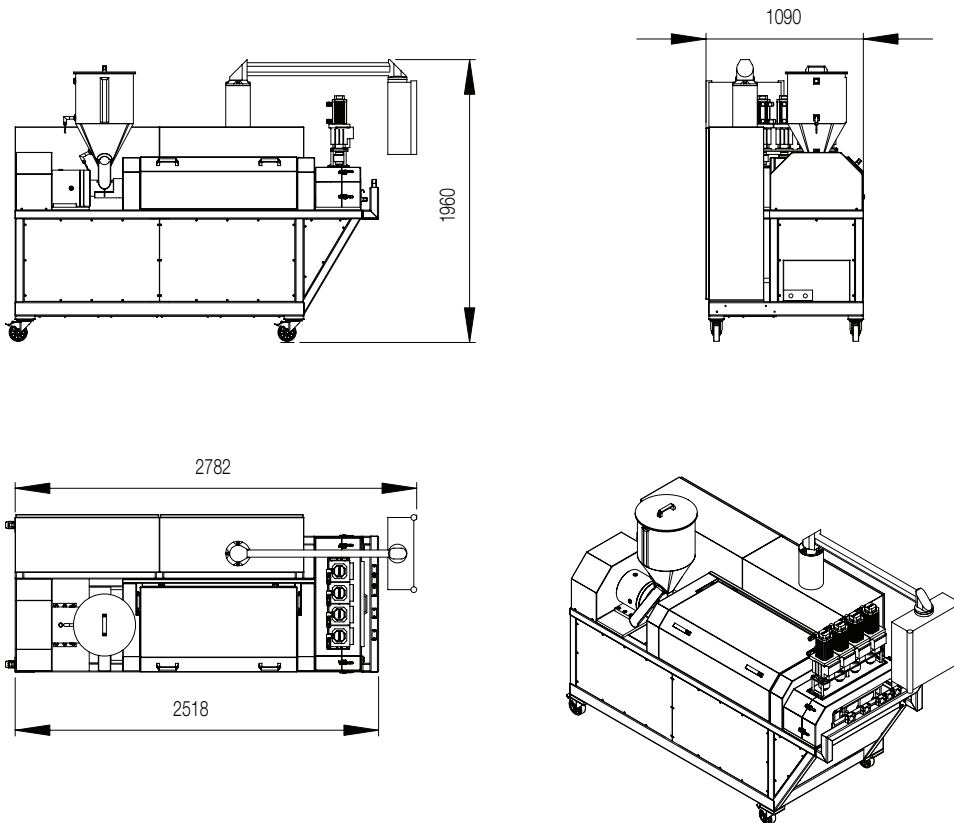
EX 30 UFM



Ultra FoamMix™ EX

Dimensions *contd.*

EX 60 UFM



Web Content



Ultra FoamMix™ PH Tank Systems

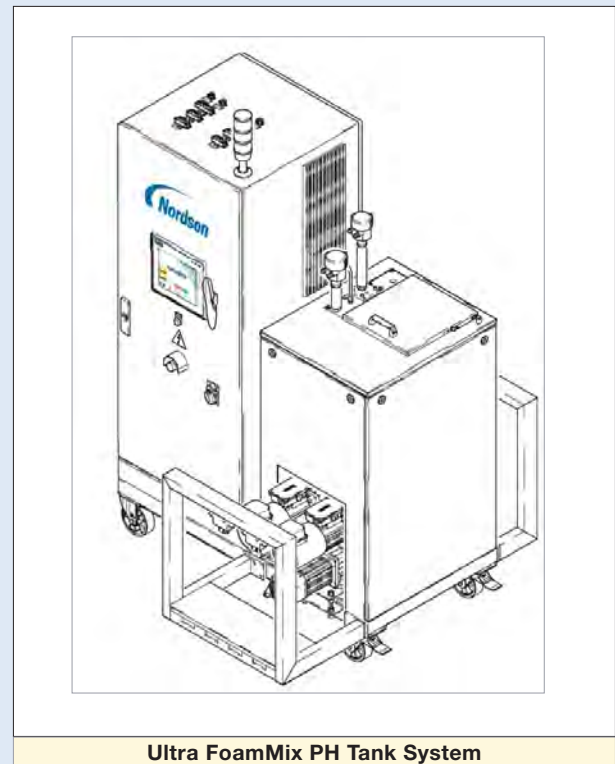
Description

The Nordson Ultra FoamMix PH Tanks offer a user-friendly solution to improve mechanical properties of adhesives and provide material savings with a variety of high-performance materials.

Preferably non-critical adhesives which do not react with oxygen including PSAs are foamed by injecting low-pressure gas into the molten adhesive. Foaming without chemicals ensures materials retain their basic physical properties and is a sustainable for the environment.

Straight-forward PLC controls use a user-friendly touch-screen programmed to display and operate in local languages. And, the Ultra FoamMix Tank controls easily integrate with the parent machine controls.

Gas content of foamed materials can be adjusted to control mechanical properties such as material durometer, compression set resistance and flexibility. Low-pressure gassing allows use of various gas supplies including inert gases or compressed air (depending on material).



Ultra FoamMix PH Tank System

Advanced Application Technology

The Nordson Ultra FoamMix process dramatically improves the performance of most hot melt adhesives by mixing them with gas, creating a homogeneous solution. As the material is dispensed, the gas expands to create a closed-cell foam. The foamed material is applied like the more conventional approaches, but provides the following benefits:

- Reduced adhesive consumption of up to 50 percent.
- Increased open time provides greater process flexibility.
- Faster set time for increased line speeds and production rates. Labor is reduced and less warehouse space is required for inventory.
- Volumetric increase for greater gap filing capabilities.
- Improved wetting increases the ability to bond impervious surfaces and enhances application versatility.
- Lower heat density helps reduce heat damage while improving operator safety.
- Reduced sagging or running for uniform adhesive thickness.
- Increased penetration creates stronger bonds and results in fewer rejects.

Ultra FoamMix™ PH Tank Systems

General Specifications

- VX anti-stick and anti-oxidation coating for all surfaces coming into contact with hot melt.
- Siemens® S7 PLC with intuitive touch panel for easy operation and displays of all process parameters in local languages
- PROFIBUS® interface
- Ethernet connection for remote diagnostics and service
- Free selection of foam percentage from 0% (solid) up to 70% foam (gas ratio) (depending on material)
- Selective temperature setbacks for prolonged production breaks
- Permanent sensor failure monitoring with visual display
- Dry output contacts for reporting temperature drops and temperature excursions as well as ready for operation signal
- Double over-temperature protection
- Freely programmable limit values in the PLC
- Safety fuses
- Plug-in pre-melt register
- Foam circulation mode optional
- Key-to-line function
- Week/Day timer (via PLC)
- Start-up pressure control incl. sensor hoop guard

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PROFIBUS is a registered trademark of PROFIBUS & PROFINET International.

Parameter	Specification*		
	PH 100 UFM	PH 200 UFM	PH 400 UFM
Max. Melt rate kg/hr (lb/hr) ⁽¹⁾	100 (220)	200 (440)	400 (880)
Foam output L/hr (in ³ /hr) ⁽²⁾	100 (6102)	200 (1204)	400 (24408)
Tank Volume L (in. ³)	100 (6102)	200 (1204)	400 (24408)
Rated Power of UFM drives kW	5.6	9.8	15
Rated Heating Power kW ⁽³⁾	30	50	65
Electrical Service ⁽⁴⁾	3 x 400 VAC + N+ PE		
Max. adhesive pressure bar (psi)	100 (1450)		
Max. operating temperature °C (°F)	250 (478)		
Temperature sensors	PT100 / Ni-120/ Fe-CuNi		
Hose connections	8, 13, 16, 20 mm		
No. of UFM units	1	1 to 2	1 to 3
No. of adhesive outputs	1 or 2 per UFM unit		

* This is a generic specification. Exact specifications of Engineered Systems are valid with order confirmation only.

⁽¹⁾ Maximum output rate depends on adhesive.

⁽³⁾ Heating Power without hoses and applicators.

⁽²⁾ Foam rate depends on adhesive as well as on custom specification of the UFM unit.

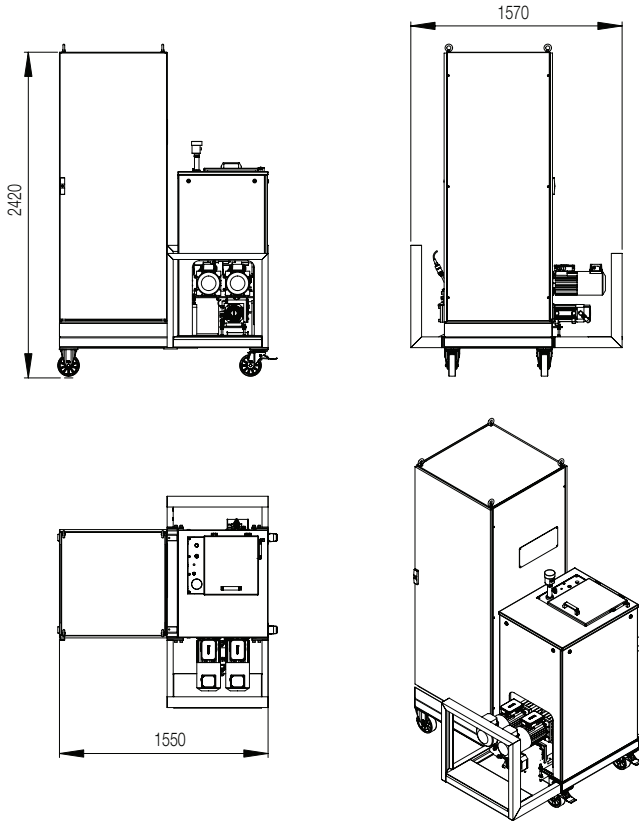
⁽⁴⁾ Transformer may be needed for any other local power supply.



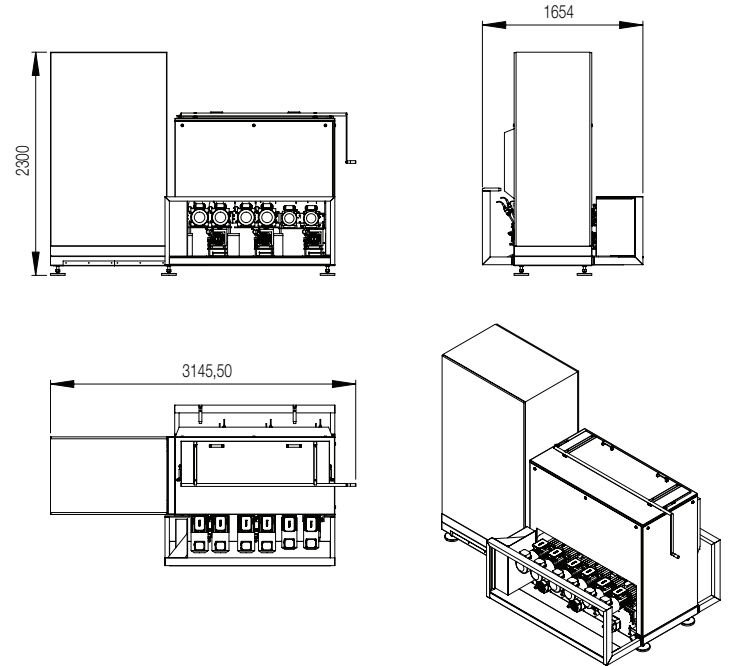
Ultra FoamMix™ PH Tank Systems

Dimensions

PH 100 UFM



PH 400 UFM



Ultra FoamMix™ PH Tank Systems

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Web Content



FoamMelt® Processors

200 Series

Description

FoamMelt FM200 processors melt thermoplastic adhesives and sealants, mix them in solution with precisely controlled quantities of an inert gas (CO₂ or N₂) via a two-stage gear pump, and deliver a foam hot melt of uniform density.

Processors include adjustable foam density control, individual temperature control of heat zones, temperature control accuracy to within ± 0.5 °C (1 °F) of setpoint, overtemperature protection, and electrical quick disconnects for hoses, applicators and solenoids.

The FoamMelt processor line includes a wide selection of models with varying capacities, reservoir types, melt rates and controls to meet specific adhesive and application requirements.

- Provide individual temperature adjustments for tank and/or grid and reservoir.
- Include 3 horsepower, variable-speed AC electric drive.
- Include a density controller assembly for handling hot melt viscosity ranges of 1,000 to 40,000 cps, including general purpose hot melts with relatively long pot lives and pressure-sensitives.
- Electronics meet IEC norms for static discharge and coupled-noise immunity.

Front Mounted Hydraulic System Controls

The FM 200 unit incorporates the advanced Vista control system, which improves productivity by automating many operator functions. Vista controls offer the following features:

- Superior noise immunity through advanced components and design techniques.
- Fully-compatible with existing Nordson RTD applicators and hoses.
- Control design permits customization of most system settings with password protection to minimize unauthorized access. Easy-to-operate control membrane with bright LED displays of actual and setpoint temperatures provide quick verification of all heat zones.
- Standard 7-day clock with manual override allows automatic start-up and shutdown for each day of the week. Reduced-temperature standby mode minimizes adhesive degradation and lowers unit energy consumption during idle periods.
- Programmable temperature alarm bands for each zone monitors and identifies potential problems before operation is effected. Other programmable features include over-temperature setpoint, sequential or simultaneous start-up, display of heater proportioning, and Celsius or Fahrenheit display.
- Output contacts for System-Ready, Fault and Warning functions allow automated remote monitoring of system status.
- Advanced diagnostics quickly locate a fault condition to help facilitate servicing.



FoamMelt 200 Processor

FoamMelt® Processors

200 Series

Features

- Enhanced system provides advanced controls, improved serviceability and pinpoint temperature control.
- Utilizes a patented process to improve material performance. The foaming process mixes inert gas with the hot melt material for increased open times and reduced material usage.
- The pressure control valve, the filter/density controller and the drain valve are all front mounted to provide easy access for maintenance.
- Advanced Vista control system improves productivity by automating many operator functions.
- A density sensor located in the filter/density controller automatically monitors and adjusts the gas/adhesive mix.

Specifications

Parameter	Specification
Reservoir type	Grid/reservoir and warm hopper
Holding capacity kg (lb) Grid/reservoir/hopper	32 (70)
Melt rate ⁽¹⁾ kg/hr (lb/hr)	46 (100)
Pump type	Two-stage gear pump
Maximum pump rate kg/hr (lb/hr) MCDR ⁽²⁾ MIDR ⁽³⁾	25 (55) standard pump 34 (75) high output pump
Maximum pump speed rpm	900
Motor rating	AC variable-speed, 3 HP
Inert gas supply (industrial grade CO ₂ or N ₂) kPa (psi)	207-345 (30-50)
Recommended operating air pressure (dry, filtered) kPa (psi)	620-830 (90-120)
Viscosity range centipoise	1,000-40,000
Type manifold	External circulating
Operating temperature ranges	38 - 205°C (100 - 400°F)
Hose ports (Hydraulic)	4 (2 supply, 2 return)
Hose capacity (Electric)	6
Applicator capacity (Electric)	4
Electrical service	
Amperage (maximum)	47 A
Voltage	220-240 VAC, 50/60 Hz, 3Ø 400/230V, 50 Hz, 3/N/PE, 27 A
Maximum system power capacity @ 230 VAC	15.0 kW (43 A)
Weight kg (lb)	130 (285)
Approvals and certifications	CE

⁽¹⁾ Actual rate can vary depending on adhesive viscosity and other characteristics.

⁽²⁾ Maximum Continuous Delivery Rate @ 50% density reduction.

⁽³⁾ Maximum Instantaneous Delivery Rate @ 50% density reduction and 50% applicator duty cycle - 1.0 second..

FoamMelt® Processors

200 Series

Selection Chart

Part Number	Description
1001601	FM 200, 240 VAC, 50/60 Hz, 3Ø, without neutral, standard pump
1001602	FM 200, 240 VAC, 50/60 Hz, 3Ø, without neutral, hi-output pump
1001603	FM 200, 400/230 VAC, 50/60 Hz, 3Ø, with neutral, standard pump
1001604	FM 200, 400/230 VAC, 50/60 Hz, 3Ø, with neutral, hi-output pump

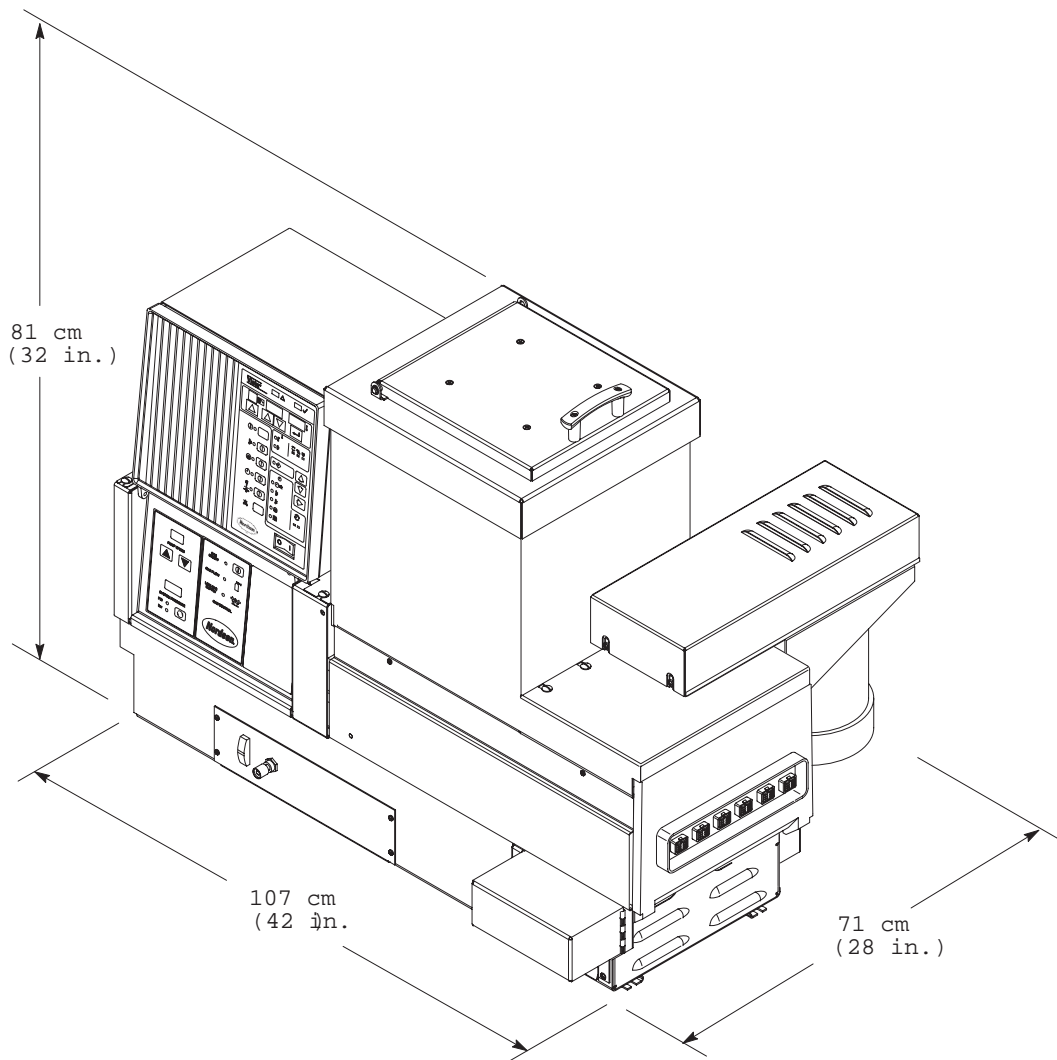
Accessories

Accessory	P/N	Description	Comment
H-20 and H-200/ Best Choice applicator installation kits	310197	H-20 applicator kit	Do not use with waterwash hoses.
	310198	H-200/Best Choice applicator kit	
Hose installation kits non- circulating applicators	310790	Standard hose, 90°	
	310791	Standard hose, 45°	
	310792	Standard hose, straight	
Hand-held applicator installation kit dead-end hand-held applicators	111094	1.8 m (6 ft) automatic hose, 5/8 in.	For recirculation loop.
	972120	Hand-held applicator hose connector	Order one for each hand-held applicator.
	303536	5/16 in. hose-to-manifold fitting	
Electrical extension cords	115577	1.8 m (6 ft) extension cord	Order to connect jumper hoses to unit.
	115578	3.7 m (12 ft) extension cord	
	115579	5.5 m (18 ft) extension cord	
Hose fittings, 5/8 in. hoses	719042	Automatic hose installation kit	
	719023	Hose-to-manifold fitting	
	972036	Hose to manifold, 90°	
	719024	Hose-to-applicator fitting (straight)	
	719047	Hose-to-applicator fitting (45°)	
Gas installation kits	271382	Carbon dioxide gas installation kit	
	273170	Nitrogen gas installation kit	
Density control/filter assemblies	142523	One-hole slug for low-viscosity materials	Shipped with unit.
	142522	Two-hole slug for medium-viscosity materials	
	142517	Four-hole slug for high-viscosity materials	

FoamMelt[®] Processors

200 Series

Dimensions



Web Content



VersaDrum®

200-liter or 55-gallon Drum Melters

Description

Nordson VersaDrum bulk melters are designed for precise demanding hot melt adhesive application from 200-liter or 55-gallon drums. With a variety of pump types and sizes, VersaDrum melters are customizable to accommodate a wide variety of adhesives and meet specific manufacturing requirements. A powerful industrial PC provides full control of the adhesive system via a touch-screen interface and displays messages, warnings, and indicators for every operator activity and machine status condition.

VersaDrum bulk melters only melt the top surface of adhesive allowing the remaining material in the drum to stay solid to reduce thermal stress and protect bonding characteristics. Particularly well-suited for reactive adhesives, such as moisture-cure polyurethanes, the hydraulic passages are designed to eliminate dead spaces where undesired curing could result.

For applications that require continuous operation, Nordson's automatic changeover system links two bulk melters together to eliminate the downtime associated with drum changes.



VersaDrum Melter

VersaDrum melters:

- Simplify installation and set-up
- Provide easy day-to-day operation
- Offer production flexibility
- Protect adhesive integrity

Features

- Graphical, touch-screen control
- Single-side access for controls and drum changes
- Variable speed motors
- Precision gear pumps
- Pressure control valve
- Manual or automatic aeration systems
- Adjustable drum clamp
- Modular, non-stick axial, finned and smooth melt platens

VersaDrum®

200-liter or 55-gallon Drum Melters

Specifications

Parameter	VersaDrum Bulk Melter 200 liter
Type of system	Gear pumps with variable speed AC motors
Drum diameter (Drum volume)	571 mm (22.5 in) or [Japan only 567 mm (22.3 in)] (200 liter / 55 gallon)
Maximum pump rate ¹	270 kg/hour (595 lb/hr)
Platen surface	Finned (high melt), Axial or Smooth
Number of hose/applicator pairs	2 standard (hydraulic & electrical) up to 6 additional (electrical only)
Maximum working hydraulic pressure	100 bar (1500 psi) 200 bar (3000 psi) - HP piston pump only
Operating temperature range	40 to 230 °C (100 to 450 °F)
Ambient temperature range	-5 to 40 C (23 to 100 °F)
Temperature control stability	± 1 °C (2 °F)
Temperature sensor	Ni 120 (or PT-100 optional)
Electrical service ²	200 VAC 3 phase delta 50/60 Hz 240 VAC 3 phase delta 50/60 Hz 400 VAC 3 phase Y 50/60 Hz 400 VAC 3 phase delta 50/60 Hz 480 VAC 3 phase delta 50/60 Hz 575 VAC 3 phase delta 50/60 Hz
Maximum system power capacity	39 kW
Weight (empty) ³	672 kg (1482 lb)
Protection	IP54
Approvals	CE
Options	Output pressure control - flow control bypass or automatic pressure control PROFIBUS-DP, PROFINET IO, ControlNet, or EtherNet/IP Communications 6 Additional temperature channels Pump choices - single stream, dual stream, hardened, or two pumps Fiber drum jacket Automatic or Manual aeration system Retractable drip shield Exhaust hood Warning light tower Pallet load frame

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

⁽²⁾ Permitted deviation from rated line voltage is ±10%.

⁽³⁾ Weight depends on melter configuration.

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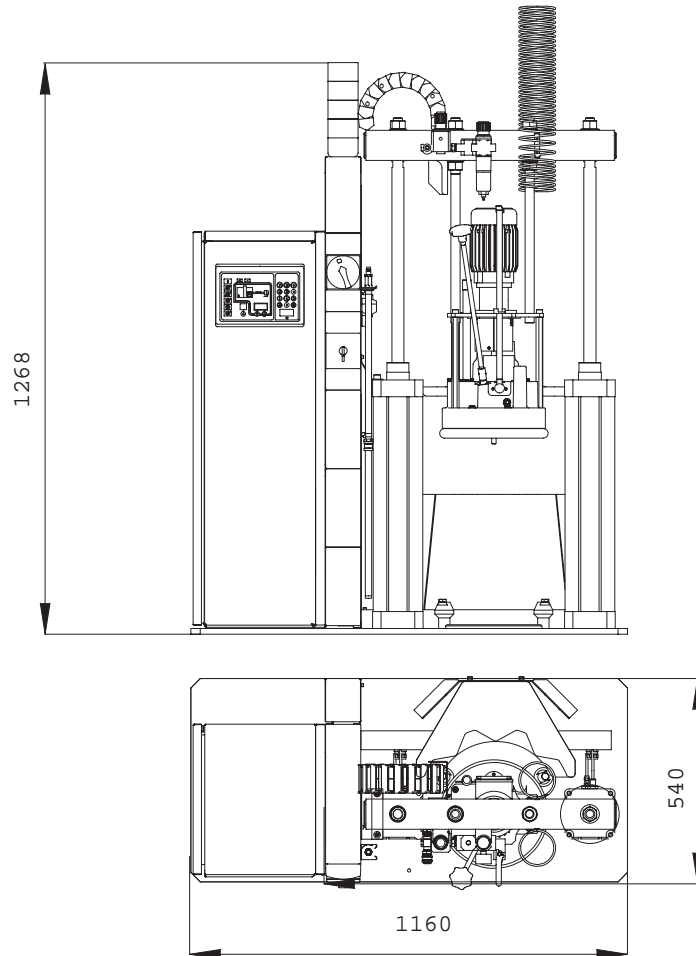
To place your order, NAD call 1-888-NORDSON (1-888-667-3766), fax 1-770-497-3733 or online at www.enordson.com.
International Orders, call 1-440-985-4797, fax 1-440-985-1096, or email intcustomerservice@nordson.com

VersaDrum®

200-liter or 55-gallon Drum Melters

Dimensions

Dimensions mm (in.)	VersaDrum
Product dimensions	
• Width (W)	1520 mm (59.9 in.)
• Height (H)	3010 mm (118.5 in.)
• Depth (D)	740 mm (29.2 in.)
Installation (service) dimensions	
• Width	2100 mm (82.7 in.)
• Height	3010 mm (118.5 in.)
• Depth	1103 mm (43.5 in.)



VersaDrum®

200-liter or 55-gallon Drum Melters

VersaDrum Configuration

BASE MELTER								
Melter Type	Platen Surface	Container Diameter	Voltage	Pump	Number of Hose/Applicator Pairs	Maximum Temperature	Temperature Sensor	/
Boxes 1-6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14

Base Melter

Boxes 1-6	Melter Type	
	Description	Code
	VD200-	

Box 7	Platen Surface	
	Description	Code
	Smooth Surface	U
	Axial Fins	R
	Finned - High Melt	P

Box 8	Container Diameter	
	Description	Code
	571 mm Drum (Worldwide Standard)	D
	567 mm Drum (Japan Only)	J

Box 9	Voltage	
	Description	Code
	200VAC 3 Phase Delta 50/60 Hz	2
	240VAC 3 Phase Delta 50/60 Hz	3
	400VAC 3 Phase WYE 50/60 Hz	4
	400VAC 3 Phase Delta 50/60 Hz	5
	480VAC 3 Phase Delta 50/60 Hz	6
	575VAC 3 Phase Delta 50/60 Hz	7

Box 10	Pumps	
	Description	Code
	SN0371 – 17.8 kg/hr (Standard – PR12m2)	F
	SN0557 – 26.7 kg/hr (Standard – PR18m2)	C
	SN0773 – 37.1 kg/hr (Standard – PR25m2)	G
	GN1160 – 55.7 kg/hr (Standard Gerotor Pump)	H
	SN1891 – 90.8 kg/hr (Standard – PU15/85)	J
	SN3135 – 150.5 kg/hr (Standard – PU25/85)	K
	SN4390 – 210.7 kg/hr (Standard – PU35/85)	L

Box 10	Pumps (contd.)	
	SN6272 – 301.1 kg/hr (Standard – PU50/85)	M
	SH0371 – 17.8 kg/hr (Hardened – PR12m2NH)	P
	SH0557 – 26.7 kg/hr (Hardened – PR18m2NH)	S
	SH0773 – 37.1 kg/hr (Hardened – PR25m2NH)	R
	GH1160 – 55.7 kg/hr (Hardened Tool Steel Gerotor)	T
	SH1891 – 90.8 kg/hr (Hardened – PU15/85-NH)	U
	SH3135 – 150.5 kg/hr (Hardened – PU25/85-NH)	V
	SH4390 – 210.7 kg/hr (Hardened – PU35/85-NH)	W
	SH6272 – 301.1 kg/hr (Hardened PU50/85-NH)	Z
	DN0093 – 2x4.5 kg/hr (Dual Stream – DS-PU6-2m1)	1
	DN0186 – 2x8.9 kg/hr (Dual Stream – DS-PU12-2m1)	2
	DN0371 – 2x17.8 kg/hr (Dual Stream – DS-PU12-2m2)	3
	DN0557 – 2x26.7 kg/hr (Dual Stream – DS-PU18-2m2)	4
	DN0773 – 2x37.1 kg/hr (Dual Stream – DS-PU25-2m2)	5
	Piston Pump – Low Pressure (100 bar) Configuration	B
	Piston Pump – High Pressure (200 bar) Configuration	A

Box 11	Number of Hose/Applicator Pairs	
	Description	Code
	2 Hose/Applicator Pairs (Primary Connections at Platen)	2
	4 Hose/Applicator Pairs (2 Additional Connections)	4
	6 Hose/Applicator Pairs (4 Additional Connections)	6
	8 Hose/Applicator Pairs (6 Additional Connections)	8

Box 12	Maximum Temperature	
	Description	Code
	150 °C / 300 °F	L
	180 °C / 350 °F	M
	230 °C / 450 °F	H

Box 13	Temperature Sensor	
	Description	Code
	Ni-120 Sensors	N
	PT-100 Sensors	P



VersaDrum®

200-liter or 55-gallon Drum Melters

OPTIONS															
Hose Fittings	Drum Clamp or Jacket	Aeration System	Pressure Control Options	Pressure Indication	Warning Light Tower	Main Switch Options	Host Communications	Filter Selection	Exhaust Hood	Additional Pre-melting Features	Pallet Load	Two Pump Option	External Pressure Indicator	Application Type	Reserved for future use
Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25	Box 26	Box 27	Box 28	Box 29	Box 30

Options

Box 15 Hose Fittings

Description	Code
8 mm (5/16 in.) and 16 mm (5/8") Hose Fittings	X
22 mm (7/8 in.) Hose Fitting	K
28 mm (1-1/8 in.) Hose Fittings	M

Box 16 Drum Clamp or Jacket

Description	Code
With Drum Clamp	P
Fiber Drum Jacket	F

Box 17 Aeration System

Description	Code
Automatic	A
Manual	X

Box 18 Pressure Control Options

Description	Code
Manual Pressure Control Valve	X
Pneumatic Pressure Control Valve	M
Automatic Pressure Control	P
Flow Control ByPass	F
Output Pressure Control	C

Box 19 Pressure Indication

Description	Code
None	X
Pressure Indication	A

Box 20 Light Tower

Description	Code
None	X
With Light Tower	W

Box 21 Main Switch Options

Description	Code
Red – 3 Pole	X
Red – 4 Pole	1
Black – 3 Pole	2
Black – 4 Pole	3

Box 22 Host Communications

Description	Code
None	X
PROFIBUS-DP	D
PROFINET IO w PMI	P
ControlNet	N
EtherNet/IP	E

Box 23 Retractable Drip Shield

Description	Code
None	X
With Retractable Drip Shield	D

Box 24 Exhaust Hood

Description	Code
None	X
With Exhaust Hood	E

Box 25 Additional Pre-melting Features

Description	Code
Additional Pre-melting features	K
Bookbinding Spine-gluing	B
Bookbinding Side-gluing	S

Box 26 Pallet Load Frame

Description	Code
None	X
With Pallet Load Frame	W

VersaDrum®

200-liter or 55-gallon Drum Melters

Options (contd.)

Box 27	Two Pump Option	
Description		Code
None		X
Two Pumps with Single Key-to-Line for both		D
Two Pumps with Individual Key-to-Line per drive		K

Box 28	External Pressure Indicator	
Description		Code
External Pressure Indicator		#

Box 29	Application Type	
Description		Code
PUR		P
Standard		X

Web Content



VersaPail®

20-liter or 5-gallon Pail Melters

Description

Nordson VersaPail bulk melters are designed for precise demanding hot melt adhesive application from 20-liter or 5-gallon pails. With a variety of pump types and sizes, VersaPail melters are customizable to accommodate a wide variety of adhesives and meet specific manufacturing requirements. A powerful industrial PC provides full control of the adhesive system via a touch-screen interface and displays messages and indicators for each operator activity and every machine status condition.

Nordson VersaPail bulk melters are designed for precise demanding hot melt adhesive application from 20-liter or 5-gallon pails. With a variety of pump types and sizes, VersaPail melters are customizable to accommodate a wide variety of adhesives and meet specific manufacturing requirements. A powerful industrial PC provides full control of the adhesive system via a touch-screen interface and displays messages and indicators for each operator activity and every machine status condition.

For applications that require continuous operation, Nordson's automatic changeover system links two bulk melters together to eliminate the downtime associated with pail changes.

VersaPail melters:

- Simplify installation and set-up
- Provide easy day-to-day operation
- Offer production flexibility
- Protect adhesive integrity



VersaPail Bulk Melter 20-liter

Features

- Graphical, touch-screen control
- Single-side access for controls and pail changes
- Variable speed motors
- Precision gear pumps
- Pressure control valve
- Manual or automatic aeration systems
- Pail centering and clamping for accurate pail positioning and control

VersaPail®

20-liter or 5-gallon Pail Melters

Specifications

Parameter	VersaPail Bulk Melter 20 Liter
Type of system	Gear pumps with variable speed AC motors
Pail diameter (Pail volume)	280 mm (11 in) or 286 mm (11.3 in) (20 liter / 5 gallon)
Maximum pump rate ¹	92 kg/hour (203 lb/hr)
Platen surface	Axial or Smooth
Number of hose/applicator pairs	2 standard (hydraulic & electrical) up to 4 additional (electrical only)
Maximum working hydraulic pressure	100 bar (1500 psi) 200 bar (3000 psi) - HP piston pump only
Operating temperature range	40 to 230 °C (100 to 450 °F)
Ambient temperature range	-5 to 40 °C (23 to 100 °F)
Temperature control stability	± 1 °C (2 °F)
Temperature sensor	Ni 120 (or PT-100 optional)
Electrical service ²	200 VAC 3 phase delta 50/60 Hz 240 VAC 3 phase delta 50/60 Hz 400 VAC 3 phase Y 50/60 Hz 400 VAC 3 phase delta 50/60 Hz 480 VAC 3 phase delta 50/60 Hz
Maximum system power capacity	21 kW
Weight (empty) ³	332 kg (732 lb)
Protection	IP54
Approvals	CE
Options	Output pressure control - flow control bypass or automatic pressure control PROFIBUS-DP, PROFINET IO, ControlNet, or EtherNet/IP Communications 4 additional temperature channels Pump choices - single stream, dual stream, hardened, or two pumps automatic or Manual aeration system Casters Exhaust hood Warning light tower

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

⁽²⁾ Permitted deviation from rated line voltage is ±10%.

⁽³⁾ Weight depends on melter configuration.

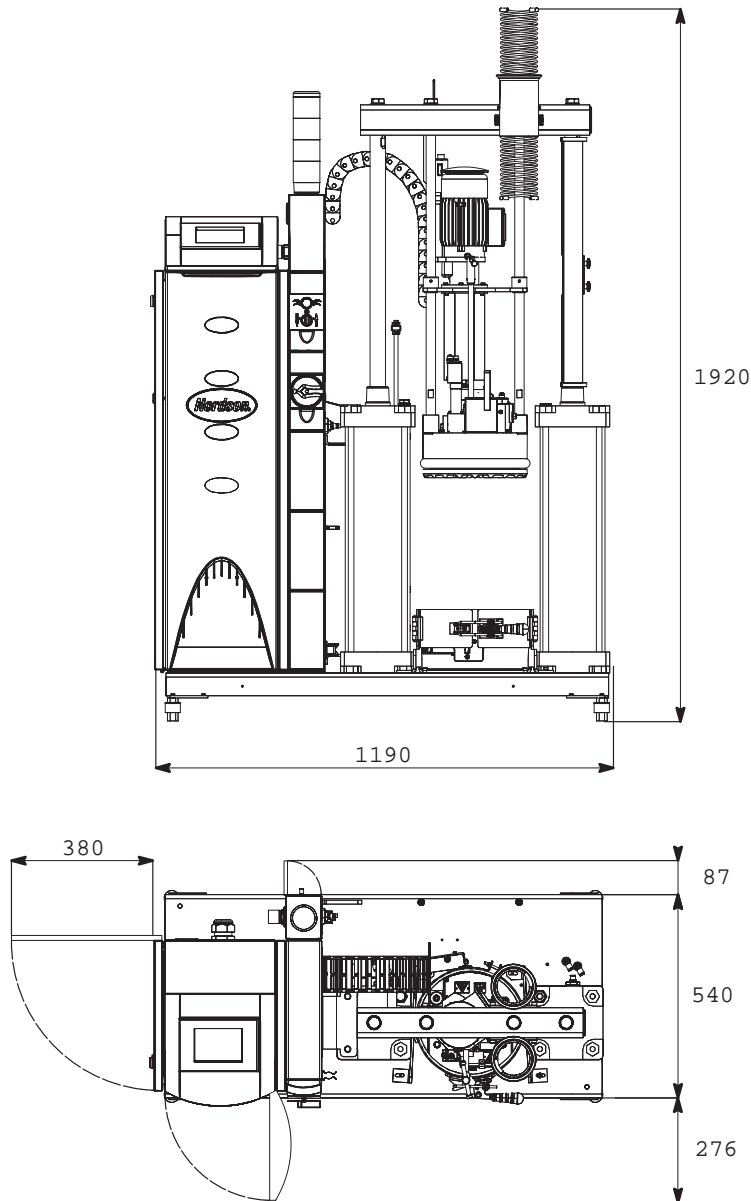
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VersaPail®

20-liter or 5-gallon Pail Melters

Dimensions

Dimensions mm (in.)	VersaPail
Product dimensions	
• Width (W)	1190 mm (46.9 in.)
• Height (H)	1920 mm (75.6 in.)
• Depth (D)	540 mm (21.3 in.)
Installation (service) dimensions	
• Width	1570 mm (61.8 in.)
• Height	1920 mm (75.6 in.)
• Depth	903 mm (35.6 in.)



VersaPail®

20-liter or 5-gallon Pail Melters

VersaPail Configuration

BASE MELTER								
Melter Type	Platen Surface	Container Diameter	Voltage	Pump	Number of Hose/Applicator Pairs	Maximum Temperature	Temperature Sensor	/
Boxes 1-6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14

Base Melter

Box 1-6 Melter Type		
Description	Code	
VP020--		

Box 7 Platen Surface		
Description	Code	
Smooth Surface	U	
Smooth, with Soft Platen Seal	B	
Axial Fins	R	

Box 8 Container Diameter		
Description	Code	
280 mm Pail (Europe)	K	
286 mm Pail (North America and Asia)	N	

Box 9 Voltage		
Description	Code	
200VAC 3 Phase Delta 50/60 Hz	2	
240VAC 3 Phase Delta 50/60 Hz	3	
400VAC 3 Phase WYE 50/60 Hz	4	
400VAC 3 Phase Delta 50/60 Hz	5	
480VAC 3 Phase Delta 50/60 Hz	6	

Box 10 Pumps		
Description	Code	
SN0093 – 4.5 kg/hr (Standard – PR6m1)	D	
SN0186 – 8.9 kg/hr (Standard – PR12m1)	E	
SN0371 – 17.8 kg/hr (Standard – PR12m2)	F	
SN0557 – 26.7 kg/hr (Standard – PR18m2)	C	
SN0773 – 37.1 kg/hr (Standard – PR25m2)	G	
GN1160 – 55.7 kg/hr (Standard Gerotor Pump)	H	
SH0093 – 4.5 kg/hr (Hardened – PR6m1NH)	N	

Box 10 Pumps (contd.)		
Description	Code	
SH0186 – 8.9 kg/hr (Hardened – PR12m1NH)	Q	
SH0371 – 17.8 kg/hr (Hardened – PR12m2NH)	P	
SH0557 – 26.7 kg/hr (Hardened – PR18m2NH)	S	
SH0773 – 37.1 kg/hr (Hardened – PR25m2NH)	R	
GH1160 – 55.7 kg/hr (Hardened Tool Steel Gerotor)	T	
DN0093 – 2x4.5 kg/hr (Dual Stream – DS-PU6-2m1)	1	
DN0186 – 2x8.9 kg/hr (Dual Stream – DS-PU12-2m1)	2	
DN0371 – 2x17.8 kg/hr (Dual Stream – DS-PU12-2m2)	3	
DN0557 – 2x26.7 kg/hr (Dual Stream – DS-PU18-2m2)	4	
DN0773 – 2x37.1 kg/hr (Dual Stream – DS-PU25-2m2)	5	
Piston Pump – Low Pressure (100 bar) Configuration	B	
Piston Pump – High Pressure (200 bar) Configuration	A	

Box 11 Number of Hose/Applicator Pairs		
Description	Code	
2 Hose/Applicator Pairs (Primary Connections at Platen)	2	
4 Hose/Applicator Pairs (2 Additional Connections)	4	
6 Hose/Applicator Pairs (4 Additional Connections)	6	

Box 12 Maximum Temperature		
Description	Code	
150 °C / 300 °F	L	
180 °C / 350 °F	M	
230 °C / 450 °F	H	

Box 13 Temperature Sensor		
Description	Code	
Ni-120 Sensors	N	
PT-100 Sensors	P	



VersaPail®

20-liter or 5-gallon Pail Melters

OPTIONS															
Hose Fittings	Pail Clamp	Aeration System	Pressure Control Options	Pressure Indication	Warning Light Tower	Main Switch Options	Host Communications	Casters	Exhaust Hood	Additional Pre-melting Features	Reserved for future use	Reserved for future use	External Pressure Indicator	Reserved for future use	Reserved for future use
Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25	Box 26	Box 27	Box 28	Box 29	Box 30

Options

Box 15	Hose Fittings	
	Description	Code
	8 mm (5/16 in.) and 16 mm (5/8 in.) Hose Fittings	X

Box 16	Pail Clamp	
	Description	Code
	With Pail Clamp	P
	Without Pail Clamp	X

Box 17	Aeration System	
	Description	Code
	Automatic	A
	Manual	X

Box 18	Pressure Control Options	
	Description	Code
	Manual Pressure Control Valve	X
	Pneumatic Pressure Control Valve	M
	Automatic Pressure Control	P
	Flow Control ByPass	F
	Output Pressure Control	C

Box 19	Pressure Indication	
	Description	Code
	None	X
	Pressure Indication	A

Box 20	Light Tower	
	Description	Code
	None	X
	With Light Tower	W

Box 21	Main Switch Options	
	Description	Code
	Red – 3 Pole	X
	Red – 4 Pole	1
	Black – 3 Pole	2
	Black – 4 Pole	3

Box 22	Host Communications	
	Description	Code
	None	X
	PROFIBUS-DP	D
	PROFINET IO w PMI	P
	ControlNet	N
	EtherNet/IP	E

Box 23	Casters	
	Description	Code
	None	X
	With Casters	C

Box 24	Exhaust Hood	
	Description	Code
	None	X
	With Exhaust Hood	E

Box 25	Additional Pre-melting Features	
	Description	Code
	Additional Pre-melting features	K
	Bookbinding Spine-gluing	B
	Bookbinding Side-gluing	S

Box 28	External Pressure Indicator	
	Description	Code
	External Pressure Indicator	#

VersaPail®

20-liter or 5-gallon Pail Melters

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Web Content



DuraDrum® Bulk Melter

Description

DuraDrum bulk melters are designed to provide simple, low-maintenance application of hot melt adhesives, sealants and butyls from 200-liter or 55-gallon drums. Many standard features, such as manual pressure control and blow-off valves, simplify daily operation and maintenance, helping increase productivity. Choices of platen surfaces and gear pumps give DuraDrum bulk melters flexibility to meet a variety of production demands.

DuraDrum bulk melters only melt the top surface of adhesive, allowing the remaining material in the drum to stay solid. This reduces thermal stress on temperature sensitive materials and protects the bonding characteristics.

A graphical, membrane control panel simplifies programming and displays system status. The versatile control panel provides programming by either they keypad or arrow keys.



DuraDrum Bulk Melter

Features

- Modular, non-stick axial, finned and smooth melt platens for quick change and easy clean-up
- Dual hose/applicator configuration allows supply of two independent applications from a single bulk melter
- Up to eight additional temperature control channels to control downstream hoses and applicators
- Manual pressure control valve to control adhesive application pressure
- Integral, programmable seven-day clock
- Hand-held applicator trigger connections - pump can be turned on/off with hand-held applicator trigger to minimize adhesive degradation
- Uses standard 3000 style Ni-120 Nordson hoses and applicators

DuraDrum[®] Bulk Melter

Specifications

Parameter	Specification
Type of system	Gear pumps with fixed speed AC motor
Drum diameter mm (in.)	571 or 567 (22.5 or 22.3)
Maximum pump rate ⁽¹⁾ kg/hr (lb/hr)	245 (450)
Number of Hose/Applicator Pairs	2 (hydraulic & electrical) 2 additional (electrical only)
Maximum working hydraulic pressure	100 bar (1500 psi)
Operating temperature range	40-230°C (100-450°F)
Ambient temperature range	-5 to 50°C (23 to 122°F)
Temperature control stability	± 1°C (2°F)
Temperature sensor	Ni-120
Electrical service ⁽²⁾	200 VAC 3Ø delta 50/60 Hz 240 VAC 3Ø delta 50/60 Hz 400 VAC 3Ø Y 50/60 Hz 400 VAC 3Ø delta 50/60 Hz 480 VAC 3Ø delta 50/60 Hz 575 VAC 3Ø delta 50/60 Hz
Maximum system power capacity	33,100 watts
Weight ⁽³⁾ kg (lb) (empty)	675 (1488)
Input/Output capability	3 STD Outputs - programmable for function 4 STD Inputs - programmable for function
Protection	IP54

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

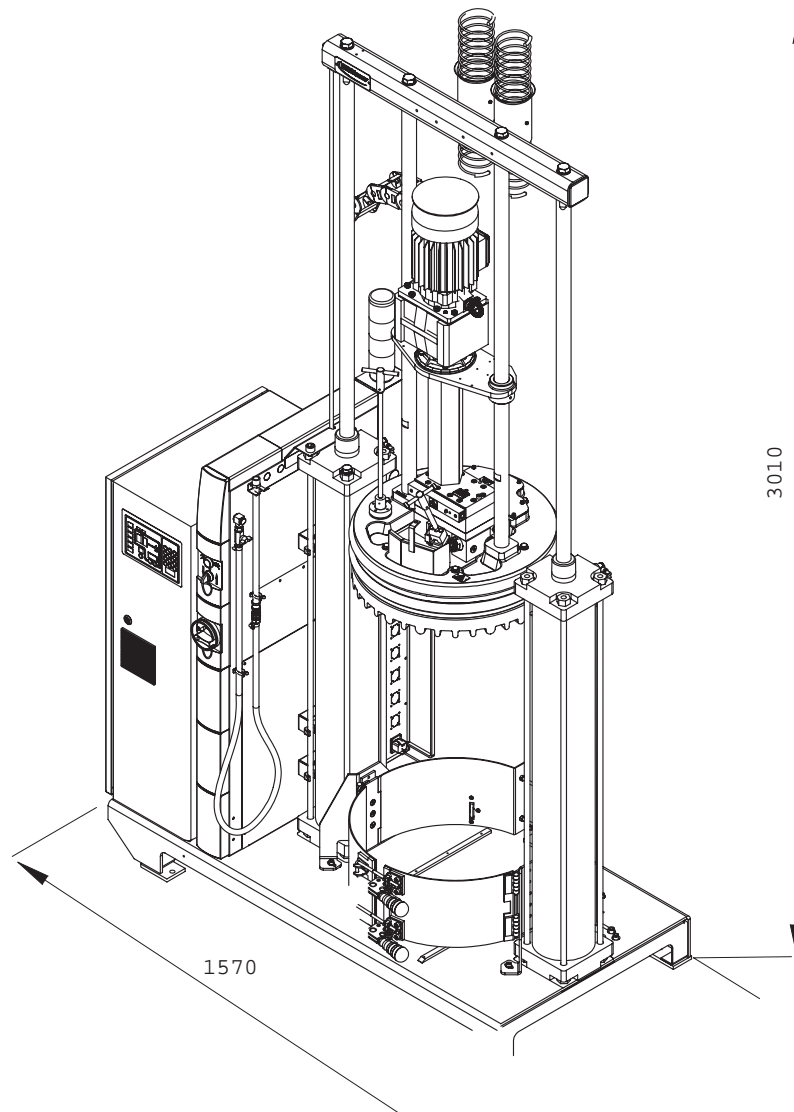
⁽²⁾ Permitted deviation from rated line voltage is ±10%.

⁽³⁾ Weight depends on melter configuration.

DuraDrum® Bulk Melter

Dimensions

Dimensions mm (in.)	DuraDrum
Product dimensions <ul style="list-style-type: none"> • Width (W) • Height (H) • Depth (D) 	1570 mm (61.8 in.) 3010 mm (118.5 in.) 740 mm (29.1 in.)
Installation (service) dimensions <ul style="list-style-type: none"> • Width • Height • Depth 	2100 mm (82.7 in.) 3010 mm (118.5 in.) 1105 mm (343.5 in.)



DuraDrum® Bulk Melter

DuraDrum Configuration

BASE MELTER								
Melter Type	Platen Surface	Container Diameter	Voltage	Pump	Number of Hose/ Applicator Pairs	Maximum Temperature	Temperature Sensor	/
Boxes 1-6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14

Base Melter

Box 7	Platen Surface	
	Description	Code
	Smooth Surface	U
	Axial Fins	R
	Finned - high melt	P

Box 8	Container Diameter	
	Description	Code
	571 mm Drum (Worldwide Standard)	D
	567 mm Drum (Japan Only)	J

Box 9	Voltage	
	Description	Code
	200 VAC 3 phase Delta 50/60 Hz	2
	240 VAC 3 phase Delta 50/60 Hz	3
	400 VAC 3 phase WYE 50/60 Hz	4
	400 VAC 3 phase Delta 50/60 Hz	5
	480 VAC 3 phase Delta 50/60 Hz	6
	575 VAC 3 phase Delta 50/60 Hz	7

Box 10	Pump Type	
	Description	Code
	SN0371 - 3.71 cc/rev (Standard - PR12m2)	F
	SN0557 - 5.57 cc/rev (Standard - PR18m2)	C
	SN0773 - 7.73 cc/rev (Standard - PR18m2)	G
	GN1160 - 11.60 cc/rev (Standard Gerotor)	H

Box 10	Pump Type (contd.)	
	Description	Code
	SN1891 - 18.91 cc/rev (Standard - PU15/85)	J
	SN3135 - 31.35 cc/rev (Standard - PU25/85)	K
	SN4390 - 3.90 cc/rev (Standard - PU35/85)	L
	SN6272 - 62.72 cc/rev (Standard - PU50/85)	M
	SH0371 - 3.71 cc/rev (Hardened - PR6m1NH)	P
	SH0557 - 5.57cc/rev (Hardened - PR6m1NH)	S
	SH0773 - 11.60cc/rev (Hardened - PR6m1NH)	R
	GH1160 - 11.60 cc/rev (Hardened Gerotor)	T
	SH1891 - 18.91cc/rev (Hardened - PU15/85NH)	U
	SH3135 - 31.35cc/rev (Hardened - PU25/85NH)	V
	SH4390 - 43.90cc/rev (Hardened - PU35/85NH)	W
	SH6272 - 62.72cc/rev (Hardened - PU50/85NH)	Z

Box 11	Number of Hose/Applicator Pairs	
	Description	Code
	6 H/A pairs (2 @ Platen and 2 additional)	6

Box 12	Maximum Temperature	
	Description	Code
	150 °C / 300 °F	L
	180 °C / 350 °F	M
	230 °C / 450 °F	H

Box 13	Temperature Sensor	
	Description	Code
	Ni-120 Sensors	N

DuraDrum® Bulk Melter

OPTIONS															
Hose Fittings	Pail Clamp	Aeration System	Pressure Control Options	Pressure Indication	Warning Light Tower	Main Switch Options	Host Communications	Casters	Exhaust Hood	Additional Pre-Melting Features	Reserved for future use				
Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25	Box 26	Box 27	Box 28	Box 29	Box 30

Options

Box 15	Hose Fittings	
	Description	Code
	8mm (5/16") and 16mm (5/8")	X
	22mm (7/8") Hose	K
	28mm (1-1/8") Hose	M

Box 16	Pail Clamp	
	Description	Code
	Drum Clamp	P
	Fiber Drum Clamp	F

Box 17	Aeration System	
	Description	Code
	Manual	X

Box 18	Pressure Control Options	
	Description	Code
	Manual Pressure Control Valve	X

Box 19	Pressure Indication	
	Description	Code
	None	X

Box 20	Warning Light Tower	
	Description	Code
	None	X

Box 22	Host Communications	
	Description	Code
	None	X

Box 23	Casters	
	Description	Code
	None	X

Box 24	Exhaust Hood	
	Description	Code
	None	X
	With Exhaust Hood	E

Box 25	Additional PreMelting Features	
	Description	Code
	None	X
	With Additional Pre-Melting Features	K

Boxes 26 - 30	Future Usage	
	Description	Code
	None	X

DuraDrum[®] Bulk Melter

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Web Content



DuraPail® Bulk Melter

Description

DuraPail bulk melters are designed to provide simple, low-maintenance application of hot melt adhesives, sealants and butyls from 20-liter and 5-gallon pails. Many standard features, such as manual pressure control and blow-off valves, simplify daily operation and maintenance, helping increase productivity. Choices of platen surfaces and gear pumps give DuraPail bulk melters flexibility to meet a variety of production demands.

DuraPail bulk melters only melt the top surface of adhesive, allowing the remaining material in the pail to stay solid. This reduces thermal stress on temperature sensitive materials and protects the bonding characteristics.

DuraPail bulk melters only melt the top surface of adhesive, allowing the remaining material in the pail to stay solid. This reduces thermal stress on temperature sensitive materials and protects the bonding characteristics.



DuraPail Bulk Melter

Features

- Choice of axial or smooth platen
- Manual pressure control valve to control adhesive application pressure
- Dual hose/applicator configuration allows supply of two independent applications from a single bulk melter
- Four additional temperature control channels to control downstream hoses and applicators
- Single-side control and pail-change access
- Integral, programmable seven-day clock
- Hand-held applicator trigger connections - pump can be turned on/off with hand-held applicator trigger to minimize adhesive degradation
- Uses standard Best Choice (Ni-120) Nordson hoses and applicators
- All controls and pail change operations are handled from one side of the unit

DuraPail® Bulk Melter

Specifications

Parameter	Specification
Type of system	Gerotor or Gear pump with fixed speed AC motor
Pail diameter mm (in.)	280 or 286 (11 or 11.3)
Maximum pump rate ⁽¹⁾ kg/hr (lb/hr)	92 (203)
Number of hose/applicator pairs	2 (hydraulic & electrical) 2 additional (electrical only)
Maximum working hydraulic pressure	100 bar (1500 psi)
Operating temperature range	40 to 230°C (100 to 450°F)
Ambient temperature range	-5 to 50 C (23 to 122°F)
Temperature control stability	± 1°C (2°F)
Temperature sensor	Ni-120
Electrical service ⁽²⁾	200 VAC 3Ø delta 50/60 Hz 240 VAC 3Ø delta 50/60 Hz 400 VAC 3Ø Y 50/60 Hz 400 VAC 3Ø delta 50/60 Hz 480 VAC 3Ø delta 50/60 Hz
Maximum system power capacity	9100 watts
Temperature sensor	Ni-120
Protection	IP54
Weight kg (lb) ⁽³⁾ (empty)	335 (739)
Input/Output capability	3 STD Outputs - programmable for function 4 STD Inputs - programmable for function

⁽¹⁾ Actual rates will vary depending on adhesive type, application parameters and input voltage.

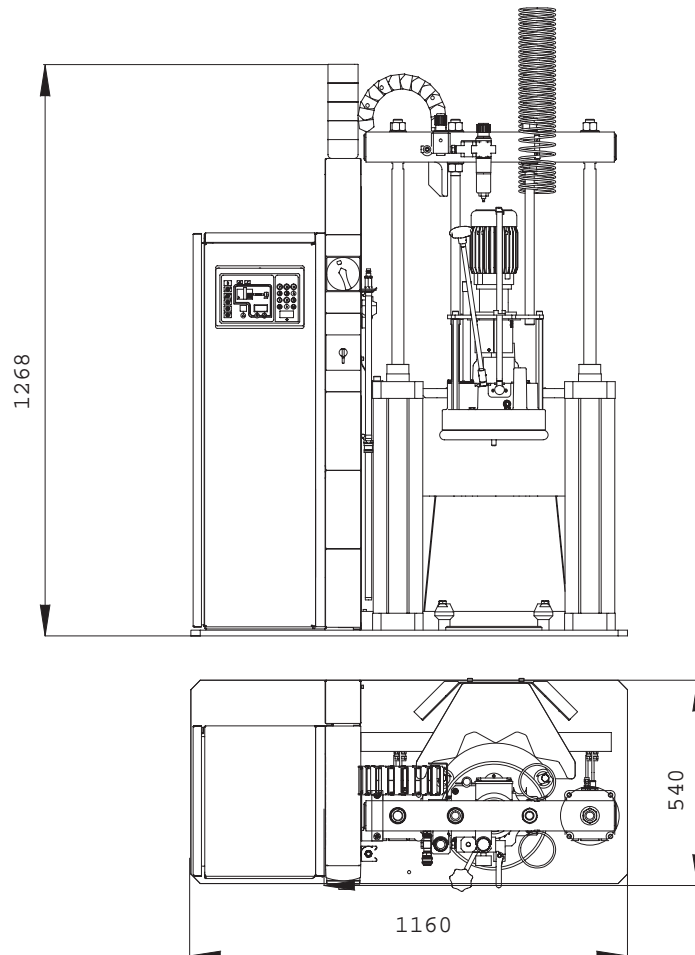
⁽²⁾ Permitted deviation from rated line voltage is ±10%

⁽³⁾ Weight depends on melter configuration.

DuraPail® Bulk Melter

Dimensions

Dimensions mm (in.)	DuraPail
Product dimensions <ul style="list-style-type: none"> • Width (W) • Height (H) • Depth (D) 	1190 mm (46.9 in.) 1920 mm (75.6 in.) 540 mm (21.3 in.)
Installation (service) dimensions <ul style="list-style-type: none"> • Width • Height • Depth 	1570 mm (61.8 in.) 1920 mm (75.6 in.) 903 mm (35.6 in.)



DuraPail® Bulk Melter

DuraPail Configuration

BASE MELTER								
Melter Type	Platen Surface	Container Diameter	Voltage	Pump	Number of Hose/ Applicator Pairs	Maximum Temperature	Temperature Sensor	/
Boxes 1-6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14

Base Melter

Box 1-6	Melter Type	
	Description	Code
	DP020--	

Box 7	Platen Surface	
	Description	Code
	Smooth Surface	U
	Axial Fins	R

Box 8	Container Diameter	
	Description	Code
	280 mm Pail (Europe)	K
	286 mm Pail (North America & Asia)	N

Box 9	Voltage	
	Description	Code
	200 VAC 3 phase Delta 50/60 Hz	2
	240 VAC 3 phase Delta 50/60 Hz	3
	400 VAC 3 phase WYE 50/60 Hz	4
	400 VAC 3 phase Delta 50/60 Hz	5
	480 VAC 3 phase Delta 50/60 Hz	6

Box 10	Pump Type	
	Description	Code
	SN0093-4.5 kg/hr(Standard-PR6m1)	D
	SN0186-8.9 kg/hr(Standard-PR12m1)	E
	SN0371-7.8kg/hr(Standard-PR12m2)	F
	SN0557-26.7kg/hr(Standard-PR18m2)	C
	SN0773-37.1kg/hr(Standard-PR18m2)	G
	GN1160-55.7kg/hr(Standard Gerotor)	H
	SH0093-4.5kg/hr(Hardened-PR6m1NH)	N
	SH0186-8.9kg/hr(Hardened-PR6m1NH)	Q
	SH0371-17.8kg/hr(Hardened-PR6m1NH)	P
	SH0557-26.7kg/hr(Hardened-PR6m1NH)	S
	SH0773-37.1kg/hr(Hardened-PR6m1NH)	R
	GH1160-55.7kg/hr(Hardened Gerotor)	T

Box 11	Number of Hose/Applicator Pairs	
	Description	Code
	4 Hose/Applicator pairs (2 at Platen and 2 additional)	4

Box 12	Maximum Temperature	
	Description	Code
	150 °C / 300 °F	L
	180 °C / 350 °F	M
	230 °C / 450 °F	H

Box 13	Temperature Sensor	
	Description	Code
	Ni-120 Sensors	N

DuraPail® Bulk Melter

OPTIONS															
Hose Fittings	Pail Clamp	Aeration System	Pressure Control Options	Pressure Indication	Warning Light Tower	Main Switch Options	Host Communicatio	Casters	Exhaust Hood	Additional Pre-Melting Features	Reserved for future use				
Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25	Box 26	Box 27	Box 28	Box 29	Box 30

Options

Box 15	Hose Fittings	
	Description	Code
	8mm (5/16") and 16mm (5/8")	X

Box 16	Pail Clamp	
	Description	Code
	With Pail Clamp	P
	Without Pail Clamp	X

Box 17	Aeration System	
	Description	Code
	Manual	X

Box 18	Pressure Control Options	
	Description	Code
	Manual Pressure Control Valve	X

Box 19	Pressure Indication	
	Description	Code
	None	X

Box 20	Warning Light Tower	
	Description	Code
	None	X

Box 21	Main Switch Options	
	Description	Code
	Red - Three Pole	X

Box 22	Host Communications	
	Description	Code
	None	X

Box 23	Casters	
	Description	Code
	None	X
	With Casters	C

Box 24	Exhaust Hood	
	Description	Code
	None	X
	With Exhaust Hood	E

Box 25	Additional Pre-Melting Features	
	Description	Code
	None	X
	With Additional Pre-Melting Features	K

Boxes 26 - 30	Future Usage	
	Description	Code
	None	X

DuraPail® Bulk Melter

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Web Content



PURBlue™ 4 Adhesive Melters

Description

Nordson PURBlue 4 adhesive melters simplify use of moisture-cure reactive (PUR) hotmelt adhesives in two-, three-, or four-kilogram foil encased slugs. The user-friendly design offers simple, reliable operation with quick disassembly for ease of cleaning and maintenance. The “melt-on-demand” process uses only the adhesive needed so reduces thermal stress and protects bonding characteristics of the unused PUR, which remains sealed in its foil bag. Adjustable force on the foil bag delivers optimal contact between adhesive and melting grid to minimize adhesive residue in empty bags. The ability to easily use small volumes of the PUR helps increase productivity and reduce adhesive waste.

PURBlue 4 melters:

- Are easy to install and operate with no inert gas requirement
- Provide easy day-to-day operation and maintenance
- Utilize true melt-on-demand temperature control system
- Maximize adhesive usage and reduce residual waste
- Protect adhesive integrity
- Provide simple shutdown procedure for overnight or weekends



PURBlue 4 Slug Melter



Watch Video

Features

- Graphic indicators and easy-to-use controls simplify programming and system monitoring
- Level sensors provide indicators and warnings for piston status, slug status and reservoir level
- Easy-access panels make maintenance quick and easy
- Single-tool, quick-release fasteners on all panels and covers
- Pneumatic piston with level indicator provides optimal contact with melting grid and visibility of PUR use
- Swiveling tank lid allows quick, easy change of foil bags
- Variety of precision, variable-speed gear pumps available with key-to-line
- Manual or automatic pressure control options
- Sensor monitors lid operation
- Flow-through output manifold with no dead spaces can accommodate up to three hoses
- Quick plug-in hose/applicator pairs
- Handgun trigger connections

PURBlue™ 4 Adhesive Melters

Specifications

Parameter	Specification
Type of system	PUR slug melter with spur gear pump
Foil bag diameter	125 mm and 150 mm
Melt rate (per hour)	4 kg/hr (9 lb/hr)
Holding capacity	One slug plus 0.75 kg reservoir
Maximum pump rate	7.7 cc/rev.
Maximum working hydraulic pressure	75 bar (1100 psi)
Temperature sensor	Nickel RTD (Ni-120)
Operating temperature range	40 to 175°C (100 to 350°F)
Ambient temperature range	0 to 50°C (32 to 122° F)
Viscosity range	up to 50,000 cps
Electrical service	200 VAC 1 or 3 phase 50/60 Hz 200 to 240 VAC 1 or 3 phase 50/60 Hz 380 to 415 VAC-Y (3 phase N/PE) 50/60 Hz
Maximum system power capacity	6000 watts
Input/Output capability standard	2 STD Inputs - programmable for function 3 STD Outputs - programmable for function Key-to-Line
Number of hose/applicator pairs ¹	3
Approximate weight (empty)	100 kg (221 lb)
Protection	IP32

⁽¹⁾ Standard Blue Series™ hoses and applicators

Dimensions

Dimensions mm (in.)	PURBlue 4
Product dimension <ul style="list-style-type: none"> • Width (W) • Height (H) • Depth (D) 	685 mm (27.0 in.) 964 mm (37.9 in.) 382 mm (15.0 in.)
Installation (service) dimensions <ul style="list-style-type: none"> • Width • Height • Depth 	1112 mm (43.8 in.) 964 mm (37.9 in.) 782 mm (30.8 in.)

PURBlue™ 4 Adhesive Melters

240 VAC 3 Phase Delta or 400 VAC 3 Phase Wye

Part Number	Hopper Size	Pump	Pressure Control
1090912	130 mm	SN1710 (PR100m3)	Manual
1093994	130 mm	SN0773 (PR25m2)	Manual
1094112	130 mm	SN0371 (PR12m2)	Manual
1100490	130 mm	SN0186 (PR12m1)	Manual
1105934	134 mm	SN0371(PR12m2)	Manual
1095026	130 mm	SN0093 (PR6m1)	Manual
1095027	130 mm	SN0062 (PR4m1)	Manual
1501966	134 mm	SN0031 (PR2m1)	Manual
1095048	130 mm	SN1710 (PR100m3)	with Flow Control Option
1095049	130 mm	SN0773 (PR25m2)	with Flow Control Option
1095050	130 mm	SN0371 (PR12m2)	with Flow Control Option
1096782	130 mm	SN0186 (PR12m1)	with Flow Control Option
1095051	130 mm	SN0093 (PR6m1)	with Flow Control Option
1500330	134 mm	SN0093 (PR6m1)	with Flow Control Option
1502630	134 mm	SN0063 (PR4m1)	with Flow Control Option
1102011	130 mm	SN0046 (PR3m1)	with Flow Control Option
1502826	134 mm	SN0031 (PR2m1)	with Flow Control Option
1107725	134 mm	SN1710 (PR100m3)	Automatic (low pressure)
1108108	130 mm	SN0371 (PR12m2)	Automatic
1098423	130 mm	SN0062 (PR4m1)	Automatic
1101186	130 mm	SN0031 (PR2m1)	Automatic
1095028	150 mm	SN1710 (PR100m3)	Manual
1095029	150 mm	SN0773 (PR25m2)	Manual
1103277	154 mm	SN0773 (PR25m2)	Manual
1095040	150 mm	SN0371 (PR12m2)	Manual
1101941	150 mm	SN0186 (PR12m1)	Manual
1095041	150 mm	SN0093 (PR6m1)	Manual
1095042	150 mm	SN0062 (PR4m1)	Manual
1105677	150 mm	SN0031 (PR2m1)	Manual
1103474	154 mm	SN0773 (PR25m2)	with Flow Control Option
1101520	150 mm	SN0371 (PR12m2)	with Flow Control Option
1501503	154 mm	SN0186 (PR12m1)	with Flow Control Option
1105853	150 mm	SN0046 (PR3m1)	with Flow Control Option
1106680	154 mm	SN0031(PR2m1)	with Flow Control Option
1107980	154 mm	SN0371 (PR12m2)	Automatic

PURBlue™ 4 Adhesive Melters

200 VAC 3 Phase Delta (Primarily for Japan)

Part Number	Hopper Size	Pump	Pressure Control
1095043	130 mm	SN1710 (PR100m3)	Manual
1095044	130 mm	SN0773 (PR25m2)	Manual
1095045	130 mm	SN0371 (PR12m2)	Manual
1500356	130 mm	SN0186 (PR12m1)	Manual
1095046	130 mm	SN0093 (PR6m1)	Manual
1095047	130 mm	SN0062 (PR4m1)	Manual
1095528	130 mm	SN0773 (PR25m2)	with Flow Control Option
1097667	130 mm	SN0371 (PR12m2)	with Flow Control Option
1102635	154 mm	SN0093 (PR6m1)	Manual
1102634	154mm	SN0062 (PR4m1)	Manual
1107436	154mm	SN0046 (PR3m1)	Manual
1097125	150 mm	SN0773 (PR25m2)	with Flow Control Option

Web Content



VersaPUR™ Slug Melters

Description

VersaPUR slug melters efficiently process polyurethane (PUR) hot melt adhesives from 20-liter foil-encased slugs. The melter was designed to be easy-to-use and easy-to-clean to simplify PUR use for a wider range of manufacturers. The highly-versatile VersaPUR melters are configurable for specific application requirements.

Benefits

- Reduce thermal stress and protect bonding characteristics with melt-on-demand technology.
- Minimize or eliminate downtime with two adhesive level warnings.
- Simple set-up and operation with intuitive, graphical touch screen control.
- Easy cleaning and maintenance with smooth, non-stick release-coated surfaces and ready-access panels and components.



VersaPUR Slug Melter

Features

- Graphical touch-screen control provides visibility and monitoring of system status.
- Smooth, non-stick release coated surfaces and tiltable tank provide easy access and ease of clean-up and maintenance.
- Stamp 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.
- Two (2) measuring sensors installed in the reservoir provide both “slug low” and “slug empty” warnings to operator to minimize machine downtime.
- Swiveling tank lid allows easy change of foil bags.
- Refill hopper without machine stop as reservoir holds sufficient molten adhesive for replacing adhesive slugs.
- Exhaust hood allows for emission-free change of foil bag.
- Dead spaces in hydraulic passages eliminated to avoid undesired curing.

VersaPUR™ Slug Melters

Configuration Chart

Melter Type	Separator	Slug Diameter	Voltage	Pump	Hose/Applicator Pairs	Maximum Operating Temperature	Separator	Flow Control	Internal Pressure Indication	Level Control	Light Tower	Main Switch Options	Host Communications	Key-to-Line	Casters	Air Dryer	Exhaust Hood	One-Way Clutch
Box 1-5	Box 6	Box 7	Box 8	Box 9-10	Box 11	Box 12	Box 13	Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24

Base Melter

Box 1-5	Melter Type	
	Description	Code
	VersaPUR - slug melter	VPURS

Box 6	Separator	
	Description	Code
	Standard configurable unit	-
	Engineered melter ***	E

***For Clarification Purposes Only

Box 7	Slug Diameter	
	Description	Code
	280 mm (Europe)	K
	286 mm (N.America)	T

Box 8	Voltage	
	Description	Code
	200V 3 Phase Delta	2
	230V 3 Phase Delta	3
	400V 3 Phase WYE	4
	400V 3 Phase Delta	5
	480V 3 Phase Delta	6

Box 9-10	Pump	
	Description	Code
	SN0030	A
	SN0046	B
	SN0062	C
	SN0093	D
	SNO186	E
	SNO371	F
	SNO773	G
	SN1710	H
	None	X

Box 11	Hose/Applicator Pairs	
	Description	Code
	2 Hose/Applicator Pairs	2
	4 Hose/Applicator Pairs	4
	6 Hose/Applicator Pairs	6

Box 12	Maximum Operating Temperature	
	Description	Code
	150 °C / 300 °F	L
	180 °C / 350 °F	M
	200 °C / 390 °F	T



VersaPUR™ Slug Melters

Options

Box 13	Separator	
	Description	Code
	Separator for options	/

Box 14	Flow Control	
	Description	Code
	Automatic Pneum. Pressure Control	P
	Manual Pneum. Pressure Control	M
	Flow Control Bypass	F
	Output Pressure Control (requires IPI in Box 15)	C
	Standard manual Pressure Control Valve	X

Box 15	Internal Pressure Indication	
	Description	Code
	Internal Pressure Indication (IPI)	A
	None	X

Box 16	Level Control	
	Description	Code
	Level Monitoring, fixed	F
	None	X

Box 17	Light Tower	
	Description	Code
	Light Tower	W
	None	X

Box 18	Main Switch Options	
	Description	Code
	Main Switch Red - 4 Pole	1
	Main witch Black - 3 Pole	2
	Main Switch Black - 4 Pole	3
	Standard Main Switch Red - 3 Pole	X

Box 19	Host Communications	
	Description	Code
	PROFIBUS-DP	D
	ControlNet	N
	EtherNet/IP	E
	PROFINET IO	P
	None	X

Box 20	Key-to-Line	
	Description	Code
	Independent Key-to-Line Per Pump	L
	None	M

Box 21	Casters	
	Description	Code
	Casters	C
	None	X

Box 22	Air Dryer	
	Description	Code
	None	X

Box 23	Exhaust Hood	
	Description	Code
	Exhaust hood	E
	None	X

Box 24	One-Way Clutch	
	Description	Code
	One-Way Clutch	J
	None	X

VersaPUR™ Slug Melters

Specifications

Parameter	Specification
Type of system	Positive-displacement spur gear pump
Electrical service ¹	200 VAC 3-phase 50/60 Hz 230 VAC 3-phase 50/60 Hz 400 VAC 3-phase Y 50/60 Hz 400 VAC 3-phase 50/60 Hz 480 VAC 3-phase 50/60 Hz
Slug diameter	280 mm (11 in.) 286 mm (11.26 in.)
Temperature sensor	Ni120
Ambient temperature	10 to 40°C (50 to 104°F)
Operating temperature	40 to 230°C (104 to 446°F)
Approx. Weight ²	280 kg (617 lbs)
Input/Output capability std.	6 inputs, 6 outputs
Degree of protection	IP54

¹ Permitted deviation from rated line voltage is $\pm 10\%$.

² Weight depends on melter configuration.

Options/Configurations

Options	Configuration
Pump sizes	SN0030, SN0046, SN0062, SN0093, SN0186, SN0371, SN0773, SN1710
Hose/Applicator pairs	2, 4 or 6 hose/applicator pair (4, 8 or 12 external channels)
Thermostats	150°C (300°F), 180°C (350°F), or 200°C (390°F)
Flow control	Automatic Pressure Control Manual Pneum. Pressure Control Flow Control Bypass IPI w/Output Pressure Control per Drive Standard Manual Pressure Control Valve
Light tower	yes
Host communication	PROFIBUS-DP, ControlNet, Ethernet/IP, PROFINET IO
Key-to-Line per pump	yes

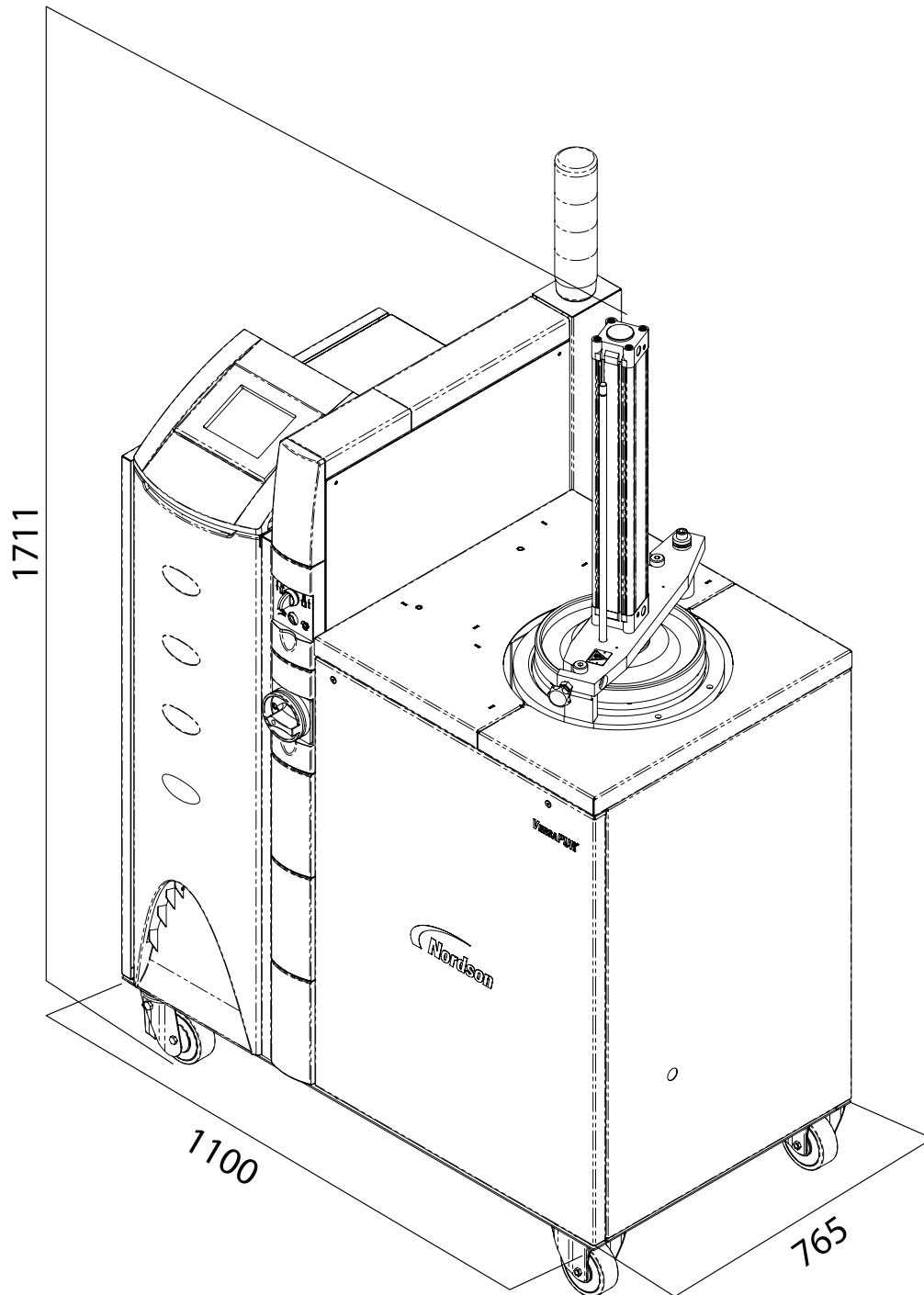
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VersaPUR™ Slug Melters

Dimensions

(Maximum values, shown in mm)



VersaPUR™ Slug Melters

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Web Content



VersaPUR™ Tank Melters

Description

VersaPUR tank melters incorporate a pressurized tank configuration and integral inert gas supply connection to protect PUR adhesive bonding integrity and prevent premature curing.

The easy-to-clean concept means all components in contact with PUR, such as tank, grid and even the pump blocks, can be quickly, and to a large extent without tools, dismantled for cleaning. Additionally, VersaPUR melters have pump shutoff valves and quick-disconnect heater and sensor cables.

Many new standard, programmable features simplify daily operation and maintenance to meet increased productivity requirements. VersaPUR tank melters are configurable, offering flexibility for specific production and application requirements.

Features

- Graphical touch-screen control provides visibility and monitoring of system status.
- Smooth, non-stick release coated surfaces and tiltable tank provide easy access and ease of clean-up and maintenance.
- Industrial PC (IPC) provides intuitive melter control of all relevant functions – pump speed, temperatures, etc. – for reproducible adhesive bonding quality.
- Optional measuring sensor provides “tank low” warning to operator to minimize machine downtime.
- Inert gas blanket produced from either integrated or external inert gas supply.
- Pivoting tank lid allows for easy refill.
- Exhaust hood allows for emission-free refilling of the tank.
- Dead spaces in hydraulic passages eliminated to avoid undesired curing. Standard inputs/outputs plus option for additional communication protocols like PROFIBUS-DP, ControlNet, Ethernet/IP and PROFINET IO

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VersaPUR Tank Melter

VersaPUR™ Tank Melters

Configuration Chart

Melter Type	Separator	Slug Diameter	Voltage	Pump	Hose/Applicator Pairs	Maximum Operating Temperature	Separator	Flow Control	Internal Pressure Indication	Level Control	Light Tower	Main Switch Options	Host Communications	Key-to-Line	Casters	Air Dryer	Exhaust Hood	One-Way Clutch
Box 1-5	Box 6	Box 7	Box 8	Box 9-10	Box 11	Box 12	Box 13	Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24

Base Melter

Box 1-5	Melter Type	
	Description	Code
	VersaPUR - tank melter	VPURT

Box 6	Separator	
	Description	Code
	Standard configurable unit	-
	Engineered melter ***	E

***For Clarification Purposes Only

Box 7	Slug Diameter	
	Description	Code
	Tank	T

Box 8	Voltage	
	Description	Code
	200V 3 Phase Delta	2
	230V 3 Phase Delta	3
	400V 3 Phase WYE	4
	400V 3 Phase Delta	5
	480V 3 Phase Delta	6

Box 9-10	Pump	
	Description	Code
	SN0030	A
	SN0046	B
	SN0062	C
	SN0093	D
	SNO186	E
	SNO371	F
	SNO773	G
	SN1710	H
	None	X

Box 11	Hose/Applicator Pairs	
	Description	Code
	2 Hose/Applicator Pairs	2
	4 Hose/Applicator Pairs	4
	6 Hose/Applicator Pairs	6

Box 12	Maximum Operating Temperature	
	Description	Code
	150 °C / 300 °F	L
	180 °C / 350 °F	M
	200 °C / 390 °F	T



VersaPUR™ Tank Melters

Options

Box 13		Separator	
		Description	Code
		Separator for options	/

Box 14		Flow Control	
		Description	Code
		Automatic Pneum. Pressure Control	P
		Manual Pneum. Pressure Control	M
		Flow Control Bypass	F
		Output Pressure Control (requires IPI in Box 15)	C
		Standard Manual Pressure Control Valve	X

Box 15		Internal Pressure Indication	
		Description	Code
		Internal Pressure Indication (IPI)	A
		None	X

Box 16		Level Control	
		Description	Code
		Level Monitoring, fixed	F
		None	X

Box 17		Light Tower	
		Description	Code
		Light Tower	W
		None	X

Box 18		Main Switch Options	
		Description	Code
		Main Switch Red - 4 Pole	1
		Main witch Black - 3 Pole	2
		Main Switch Black - 4 Pole	3
		Standard Main Switch Red - 3 Pole	X

Box 19		Host Communications	
		Description	Code
		PROFIBUS-DP	D
		ControlNet	N
		Ethernet/IP	E
		PROFINET IO	P
		None	X

Box 20		Key-to-Line	
		Description	Code
		Independent Key-to-Line Per Pump	K
		None	X

Box 21		Casters	
		Description	Code
		Casters	C
		None	X

Box 22		Air Dryer	
		Description	Code
		Air Dryer	D
		None	X

Box 23		Exhaust Hood	
		Description	Code
		Exhaust Hood	E
		None	X

Box 24		One-Way Clutch	
		Description	Code
		One-Way Clutch	J
		None	X

VersaPUR™ Tank Melters

Specifications

Parameter	Specification
Type of System	Positive-displacement spur gear pump
Electrical Service ¹	200 VAC 3-phase 50/60 Hz 230 VAC 3-phase 50/60 Hz 400 VAC 3-phase Y 50/60 Hz 400 VAC 3-phase 50/60 Hz 480 VAC 3-phase 50/60 Hz
Tank Opening Diameter	296 mm (11.46 in.)
Temperature Sensor	Ni120
Ambient Temperature	10 to 40°C (50 to 104°F)
Operating Temperature	40 to 230° C (104 to 446°F)
Approx. Weight ²	280 kg (617 lbs)
Input/Output Capability Std.	6 inputs, 6 outputs
Degree of Protection	IP54

¹ Permitted deviation from rated line voltage is $\pm 10\%$.

² Weight depends on melter configuration.

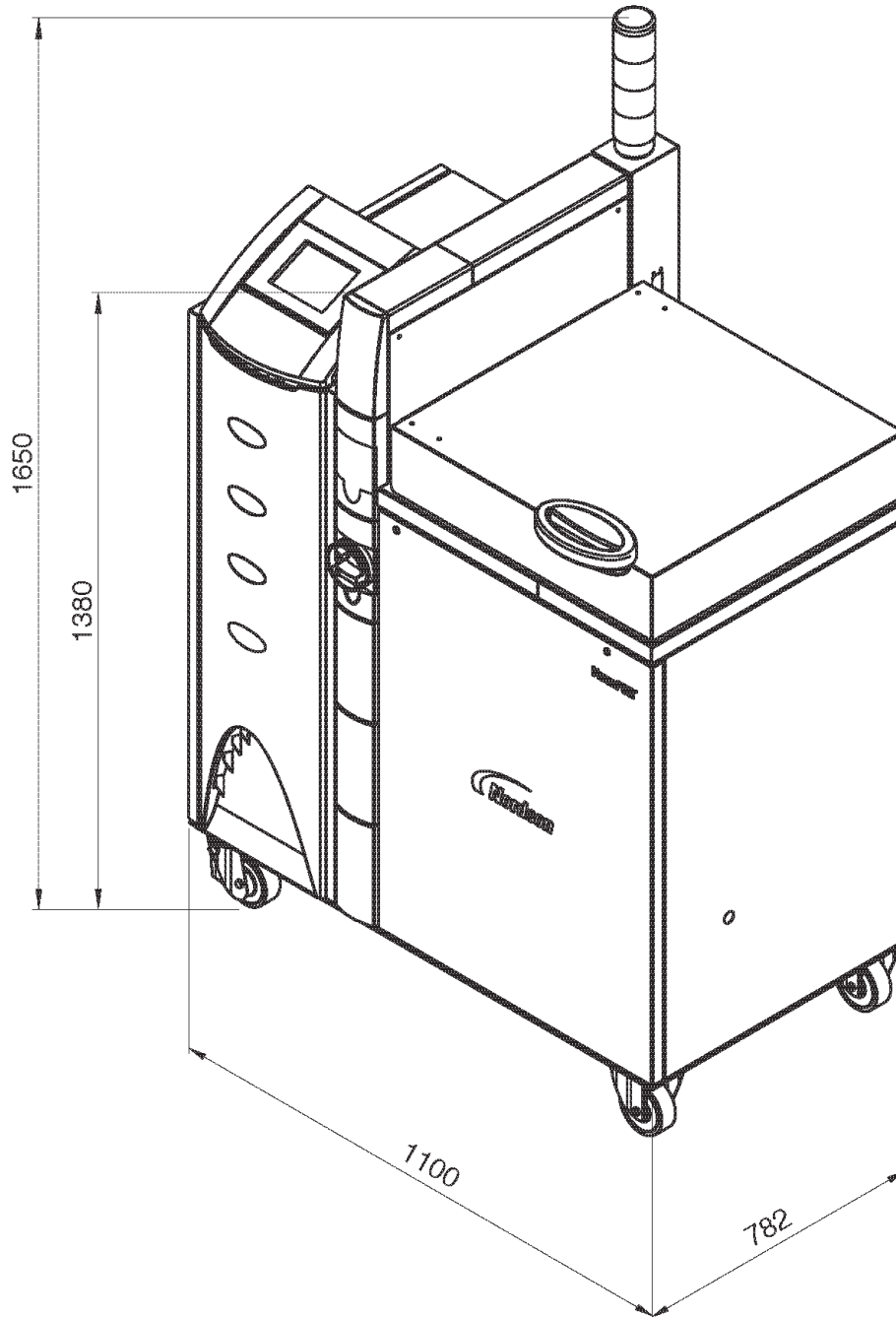
Options/Configurations

Options	Configuration
Pump Sizes	SN0030, SN0046, SN0062, SN0093, SN0186, SN0371, SN0773, SN1710
Number of Pumps	1 or 2
Hose/Applicator Pairs	2, 4 or 6 hose/applicator pair (4, 8 or 12 external channels)
Thermostats	150°C (300°F), 180°C (350°F), or 200°C (390°F)
Flow Control	Automatic Pressure Control Manual Pneum. Pressure Control Flow Control Bypass IPI w/Output Pressure Control per Drive Standard Manual Pressure Control Valve
Level Monitoring	yes
Light Tower	yes
Host Communication	PROFIBUS-DP, ControlNet, Ethernet/IP, PROFINET IO
Key-to-Line Per Pump	yes
Air Dryer	yes
Integrated Exhaust Duct	yes
One-way Clutch	yes

VersaPUR™ Tank Melters

Dimensions

(Maximum values, shown in mm)



VersaPUR™ Tank Melters

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Web Content



MiniPUR™ Plus

Polyurethane Melter System

Description

Compact melter simplifies and economizes use of polyurethane (PUR) hot melt adhesive for low-volume users.

The Nordson MiniPUR Plus melter makes hot melt polyurethane (PUR) adhesive use simple and more cost effective for the small, low-volume user. The melter tank efficiently handles up to 4-liters of PUR adhesive from various formats including 2-kilogram slugs and granules. The MiniPUR Plus melter's capability to create an inert gas blanket helps to preserve adhesive integrity.

The MiniPUR Plus melter has a specially-designed lid for easy, reliable operation. It offers two levels of inert gas pressure protection, through a spring-assisted lid or a safety valve, and has a non-stick coating for easy cleaning. The tank is pressurized to keep outside air from entering the tank.

The melter is easy to operate and maintain with variable speed AC motor, non-stick coated tank and easy access panels. MiniPUR Plus melters can be expanded with options including additional hose and gun pairs and I/O boards.



MiniPUR Plus Melter System

Features

- Tank system enables use of cost-effective PUR adhesive forms.
- Melter processes all the adhesive, so no residual waste.
- Inert gas blanket allows adhesive to remain in the tank for up to several days without losing bonding integrity or having adhesive begin curing.
- Simple connections and component accessibility make set-up and operation user-friendly.
- Graphic indicators and easy-to-use controls simplify programming and system monitoring.
- Reliable tank lid design has double air pressure protection and non-stick coating.
- The design allows use of low cost, low usage inert gas supply.
- The system supports a wide range of processing temperatures, including as low as 40° C (100° F) to accommodate heat sensitive substrates.

MiniPUR™ Plus

Polyurethane Melter System

Specifications

Parameter	Specification
Type of System	Tank with gerotor pump
Holding Capacity	4 L (244 in ³) 3.9 kg (8.6 lb)
Throughput (per hour) ¹	6.3 kg (13.9 lb)
Melt Rate (per hour) ¹	4 kg (8.8 lb)
Maximum Pump Rate (per hour) ²	35 kg (77 lb) or 50 kg (110 lb)
Number of Hoses/Applicators (per hour) ³	up to 2
Maximum Working Hydraulic Pressure	75 bars (1100 psi)
Operating Temperature Range	40 to 180°C (100 to 356°F)
Ambient Temperature Range	0 to 50°C (32 to 122°F)
Temperature Control Stability	± 0.5°C (1°F)
Gas Pressure for Nitrogen Blanket	0.2 bars (29 psi)
Electrical Service ⁴	120 VAC single phase 60 Hz 200 to 240 VAC single phase 50/60 Hz
Maximum System Power Capacity @ 240 VAC	3355 watts
Approx. Melter Weight (empty) ⁵	43 kg (95 lbs)
Melter Dimensions:	
• Width	334 mm (13.1 in.)
• Height	560 mm (22.04 in.)
• Depth	652 mm (25.66 in.)

¹ Actual rates will vary depending on adhesive type, application parameters and input voltage.

² Values shown for melter @ 60 Hz.

³ Permitted deviation from rated line voltage is ± 10%.

MiniPUR™ Plus

Polyurethane Melter System

Part Numbers

MiniPUR Plus Melters

Pump Size (cc/rev)	Pump Rate (kg/hr)	I/O Board Included?	Part Number	Description
0.3	1.4	No	7407559	Melter, MiniPUR, Plus, 240V, 2H/G, 1.4Kg/H
		Yes	7407560	Melter, MiniPUR, Plus, 240V, 2H/G, 1.4Kg, I/O
0.62	2.8	No	7407561	Melter, MiniPUR, Plus, 240V, 2H/G, 2.8Kg/H
		Yes	7407562	Melter, MiniPUR, Plus, 240V, 2H/G, 2.8Kg, I/O
1.86	8.5	No	7407563	Melter, MiniPUR, Plus, 240V, 2H/G, 8.5Kg/H
		Yes	7407564	Melter, MiniPUR, Plus, 240V, 2H/G, 8.5Kg, I/O
7.73	35	No	7407565	Melter, MiniPUR, Plus, 240V, 2H/G, 35Kg/H
		Yes	7407566	Melter, MiniPUR, Plus, 240V, 2H/G, 35Kg, I/O
	50	Yes	7407567	Melter, MiniPUR, Plus, 240V, 2H/G, 50Kg, I/O

NOTE: All AD-41 Hand-held applicators include a 1 mm (0.04") orifice diameter nozzle.

MiniPUR Accessories

Part Number	Description
	120V Hand-held Applicator/Hose Assemblies*
1030220	AD-41 Hand-held Applicator/HP Hose Assembly, 2.4 m (8 ft), 1 mm (0.04") orifice diameter nozzle
1030221	AD-41 Hand-held Applicator/HP Hose Assembly, 3.6 m (12 ft), 1 mm (0.04") orifice diameter nozzle
1030222	AD-41 Hand-held Applicator/HP Hose Assembly, 4.8 m (16 ft), 1 mm (0.04") orifice diameter nozzle
	240V Hand-held Applicator/Hose Assemblies
1030225	AD-41 Hand-held Applicator/HP Hose Assembly, 2.4 m (8 ft), 1 mm (0.04") orifice diameter nozzle
1030226	AD-41 Hand-held Applicator/HP Hose Assembly, 3.6 m (12 ft), 1 mm (0.04") orifice diameter nozzle
1030227	AD-41 Hand-held Applicator/HP Hose Assembly, 4.8 m (16 ft), 1 mm (0.04") orifice diameter nozzle

*Check total external wattage limitation before adding second hand-held applicator/hose assembly to MiniPUR 120V systems. See 120V Blue series hand-held applicator/hose tree for details.

Nitrogen Accessories

Part Number	Description
1106554	Nitrogen Generator
1108292	Kit, Regulator, Nitrogen Blanket, 10 psi, w/timer (used with nitrogen generator)
1108290	Kit, Regulator, Low Pressure 3000-10-0 psi, w/timer (used with 3000 psi bottle)
1108291	Kit, Regulator, High Pressure 6000-10-0 psi, w/timer (used with 6000 psi bottle)

MiniPUR™ Plus

Polyurethane Melter System

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Web Content



Unity™ Basic

Automated Dispensing Systems

Description

Nordson® Unity Basic Series system is specifically designed and configured for precise hot melt dispensing using Nordson Unity dispensing systems.

An easy-to-use Teach Pendant or a PC-based vision-guided teaching system makes the Unity Basic Series system simple and intuitive to set up and program. True three-dimensional motion control allows easy programming of dots, lines, circles, arcs, and compound arcs.

A variety of platform sizes makes them an ideal solution for batch processing of critical hot melt dispensing applications.

Unity Basic Series system can work either as a standalone dispensing system or as a key station that is easily integrated into automated production lines.



Unity System

Features

- Simplified setup and programming via intuitive iconbased Teach Pendant
- Optional simple camera and UNITYMotion™ software make setup and programming intuitive
- X/Y/Z tip location alignment sensor available
- Reinforced X axis (on Unity 4X) increases system rigidity and improved accuracy
- Upgradable to enhanced CCD vision camera with vision based bead compensation
- On-screen preview of the dispensing path facilitates programming
- Easy-to-use .dxf file conversion to program path
- Wide range of work envelopes
- Available in platforms ranging from 200 x 200 mm to 500 x 500 mm

NOTE: *Unity system robots are designed for use with Unity IC and Unity PURJet applicators. Refer to the Unity IC and PURJet sections of this guide for complete details and part numbers for these systems.*

Benefits

- Easy-to-use visual programming means operators learn quickly
- Faster cycle and batch times
- Easy integration into any manufacturing operation
- Reduced production, material, and ownership costs
- Consistent adhesive volume output of changing viscosity materials (with enhanced CCD vision option)
- Automated tip alignment saves reprogramming time

Available Options

- Teach Pendant
- Simple Vision Kit
- CCD Vision Kit
- Tip Alignment Kit
- Tip Height Detection Kit

Unity™ Basic

Automated Dispensing Systems

Specifications

Parameter	Unity 2	Unity 3	Unity 4	Unity 4X	Unity 5
Number of Axes	3	3	3	3	3
Maximum Working Area (X/Y/Z)	200/200/50 mm (8/8/2 in.)	300/300/100 mm (12/12/4 in.)	400/400/100 mm (16/16/4 in.)	400/400/100 mm (16/16/4 in.)	500/500/150 mm (20/20/6 in.)
Workpiece Payload	5 kg (11 lb)	10 kg (2 lb)	10 kg (2 lb)	10 kg (21 lb)	8 kg (18 lb)
Tool Payload	3 kg (6 lb)	5 kg (11 lb)	5 kg (11 lb)	8 kg (17.7 lb)	3.5 kg (7.7 lb)
Maximum Speed (per second)	500/250 mm (20/10 in.)	800/320 mm (31/13 in.)	800/320 mm (31/13 in.)	800/320 mm (31/13 in.)	500/320 mm (2/13 in.)
Unit Weight	21 kg (46 lb)	39.5 kg (87 lb)	44.5 kg (98 lb)	45.5 kg	47 kg (107 lb)
Dimensions (W x H x D)	375x414x510 mm (15x16x20 in.)	490x517x645 mm (19x20x25 in.)	590x617x645 mm (23x24x25 in.)	590x617x705 mm (23x24x28 in.)	690x717x815 mm (27x28x32 in.)
Drive System	3-phase micro-stepping motor				
Memory Capacity	100 programs 500~50,000 points/program				
Data Storage	CF card, USB				
General Purpose I/O	8 inputs/8 outputs (16/16 optional)				
Drive Method	PTP and CP				
Dispensing Controller	External				
Power Supply	Auto-switching, 100–240 VAC, 200 W				
Interpolation	3 axes (3D space)				
Repeatability	±0.02 mm				
Working Temperature	10–40 °C (50–104 °F)				

Unity™ Basic

Automated Dispensing Systems

Part Numbers

NOTE: *Unity system robots are designed for use with Unity IC and PURJet applicators. Refer to the Unity IC and PURJet sections of this guide for complete details and part numbers for these systems.*

Part Number	Description
7407847	Robot, Unity 2, 3 Axis, 200 x 200 x 50 mm
7407848	Robot, Unity 3, 3 Axis, 300 x 300 x 100 mm
7407849	Robot, Unity 4, 3 Axis, 400 x 400 x 100 mm
7407851	Robot, Unity 4X, 3 Axis, 400 x 400 x 100 mm
7407850	Robot, Unity 5, 3 Axis, 500 x 500 x 100 mm
7411902	Robot, Unity 3-V, 3 Axis, 250 x 300 x 100 mm
7410840	Robot, Unity 4-V, 3 Axis, 350 x 400 x 100 mm
7410842	Robot, Unity 4X-V, 3 Axis, 350 x 400 x 100 mm
7410843	Robot, Unity 4X-HV, 3 Axis, 350 x 400 x 100 mm
7410841	Robot, Unity 5-V, 3 Axis, 450 x 500 x 150 mm
7407853	Unity Robot, Teach Pendant
7407854	Unity Robot, Simple Vision Camera

Accessories

Part Number	Description
7407856	Unity Robot, Tip Alignment Kit
7407857	Unity Robot, Tip Height Detection Kit
7028277	Robot Accessory, Fixture Plate, 300 mm
1121906	Cable Assembly, Serial to USB, Unity
1121438	Cable Assembly, Shielded, 37, D-Shell



Teach Pendant for
Unity Basic systems



Simple vision camera for
Unity Basic systems

Unity™ Basic

Automated Dispensing Systems

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Web Content



Unity™ 4XP

Automated Dispensing Systems

Description

Nordson's vision-guided Unity 4XP semi-automated system is specifically designed and configured for precise hot melt dispensing using Nordson Unity dispensing systems.

Specialized UNITYMotion™ software and integrated vision and laser height sensing capabilities make Unity automated systems quick to set up and easy to program. True three-dimensional motion control allows easy programming of dots, lines, circles, arcs, and compound arcs.

In addition, linear encoders provide precise bead placement while the smart CCD camera and optional laser height sensing systems automatically adjust programs to compensate for both surface height changes and variations in product orientation.

Features

- UNITYMotion icon-based software simplifies setup and programming with advanced vision features
- On-screen preview of the dispensing path facilitates programming
- Closed-loop feedback with precision laser non-contact sensing
- Vision based bead compensation adjusts for changing viscosity materials
- Reinforced X axis increases system rigidity and improved accuracy
- Fully mapped work area with correction table increase fluid placement accuracy
- Easy-to-use .dxf file conversion to program path

NOTE: *Unity system robots are designed for use with Unity IC and Unity PURJet applicators. Refer to the Unity IC and PURJet sections of this guide for complete details and part numbers for these systems.*



Unity 4XP System

Benefits

- Faster startup to introduce automation
- Easy-to-use visual programming means operators learn quickly
- Improved product quality with more precise, accurate dispensing
- Consistent adhesive volume output of changing viscosity materials
- Increased production in reduced process time
- Higher yields and production quality lead to reduced production cost, material waste and cost of ownership
- Smart vision allows programming paths not possible with pendant based systems
- Better dispensing due to precise control over tip to substrate gap with laser height sensing capabilities

Available Options

- Laser Kits featuring clear and opaque surface reflective

Unity™ 4XP

Automated Dispensing Systems

Specifications

Parameter	Unity 4XP
Number of Axes	3 axes
Max. Working Area (X/Y/Z)	350/400/100 mm (14/16/4 in.)
Work Piece Payload	10 kg (2 lb)
Tool Payload	8 kg (17.7 lb)
Maximum Speed	500/250 mm/sec (2/10 in.)
Unit Weight	58.5 kg (129 lb)
Dimensions (W x D x H)	811 x 647 x 705 mm (32 x 2.5 x 28 in.)
Drive System	5-phase micro-stepping motor
Memory Capacity	PC storage
Data Storage	PC storage
General Purpose I/O	8 inputs/8 outputs (16/16 optional)
Drive Method	PTP & CP
Power Supply	Auto-switching, 100–240 V 380 W
Interpolation	3 axes (3D space)
Repeatability	±0.01 mm
Working Temperature	10-40 °C (50–104 °F)
Teach Pendant	Not included
Closed-loop Motor System	Included
Tip Detection System	Included
High-precision Vision	Included
Laser Height Detection	Optional

Unity™ 4XP

Automated Dispensing Systems

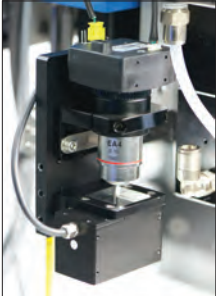
Part Numbers

NOTE: *Unity 4XP system robots are designed for use with Unity IC and PURJet applicators. Refer to the Unity IC and PURJet sections of this guide for complete details and part numbers for these systems.*

Part Number	Description
7407852	Robot, Unity 4XP, 3 Axis, 350 x 400 x 100 mm
7407855	Robot, Unity, Camera, CCD Vision

Accessories

Part Number	Description
7407858	Robot, Unity, Laser Kit A (LK-G32A)
7407859	Robot, Unity, Laser Kit B (IL-030)
7028277	Robot, Unity, Accessory, Fixture Plate, 300 mm
1121906	Cable Assembly, Serial to USB, Unity
1121438	Cable Assembly, Shielded, 37, D-Shell



High-precision camera (CCD)
for Unity 4XP systems



Laser kit A for Unity 4XP systems

Unity™ 4XP

Automated Dispensing Systems

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Web Content



Unity™ IC Series

Dispensing Systems

Description

Nordson's Unity IC series dispensing systems provide an intelligent dispensing solution that is capable of automatically compensating bead size using an optional vision system that measures bead diameter and automatically compensates pressure to dispense the optimal bead size.

The IC Series is available in a 30 ml or larger 310 ml configuration giving you the flexibility to choose the most appropriate package size for your particular application. When combined with the Unity tabletop automation system, overall accuracy and functionality are enhanced with vision guidance, linear encoded motion and easy-to-use dispensing software to optimize the process and motion control.

The IC 300-E applicator is designed to meet the needs of high-end electronics assembly applications that require highly precise, clean dispensing. The unique snuff-back module delivers ultra-clean cutoff with no stringing.

Unity IC Plus applicators are created for customers who want to maximize their PUR adhesive. The applicators feature a unique design that drastically reduces heating time at startup as well as purge time, creating a more efficient process for users. They are available in 30 and 300 sizes, and come with standard heat covers that protect operators from burns.

Features

- Pneumatic modules deliver consistent dispensing down to a .25 mm width
- Capable of utilizing heated and ambient materials
- Dual heating zones in the IC 300-E applicator provide accurate heat temperature control
- Interchangeable nozzles allow for customized dispensing

NOTE: *Unity IC Series systems are designed for use with Unity Basic robots, Unity 4XP robots, and Unity controllers. Refer to the other Unity sections of this guide for complete details and part numbers for Unity system components.*



Unity IC System



Watch Video

Available Options

- Pre-warmers
- Variety of Unity tabletop automation systems
- Variety of Saturn and Unity nozzles from 25 gauge and larger
- Unity HiTemp™ disposable syringe barrels for PUR and other high temperature materials available from Nordson EFD, call 1-800-556-3484 for more information.

Unity™ IC Series

Dispensing Systems

General Specifications

Unity IC 30 Plus Applicator	Specification
Weight	1.85 kg (4 lb)
Adhesive Viscosity	Varies depending on nozzle size and flow rate
Solenoid Valve Air Flow	15 scfm minimum
Unity IC 300 Plus Applicator	Specification
Weight	2.62 kg (5.8 lb)
Adhesive Viscosity	Varies depending on nozzle size and flow rate
Solenoid Valve Air Flow	15 scfm minimum
Unity IC 300-E Applicator	Specification
Weight	3.28 kg (7.2 lb)
Adhesive Viscosity	Varies depending on nozzle size and flow rate
Solenoid Valve Air Flow	15 scfm minimum

Electrical Specifications

Unity IC 30 Plus Applicator	Specification
Supply Voltage	200–240 VAC, 1 phase, 50/60 Hz, 250 W (supplied from controller)
Sensor Type	120 ohm nickel
Unity IC 300 Applicators	Specification
Supply Voltage	200–240 VAC, 1 phase, 50/60 Hz, 700 W (supplied from controller)
Sensor Type	120 ohm nickel

Unity™ IC Series

Dispensing Systems

Part Numbers

Basic Unity IC 30 Plus System

Part Number	Description
1120889	Kit, Ship With, IC30/300
7412901	Controller, Unity Touch*
7413028	Applicator, Unity, IC30 Plus

Basic Unity IC 300 Plus System

Part Number	Description
1120889	Kit, Ship With, IC30/300
7412901	Controller, Unity Touch*
7413029	Applicator, Unity, IC300 Plus

Basic Unity IC 300-E System

Part Number	Description
1120889	Kit, Ship With, IC30/300
7412901	Controller, Unity Touch*
7410852	Applicator, Unity, IC300, Nil120, EP10

*Unity Touch controllers provide dispensing control for Unity IC applicators.

Robots

Basic Unity IC Series systems are designed for use with Unity Basic and 4XP robots. Refer to the Unity Basic and Unity 4XP Series sections of this guide for complete details and part numbers for Unity robots.

Unity™ IC Series

Dispensing Systems

Nozzles

Part Number	Description
7402750	Nozzle, Unity, IO 0.2 mm, TL 2 mm
7402751	Nozzle, Unity, IO 0.2 mm, TL 3 mm
7402752	Nozzle, Unity, IO 0.2 mm, TL 4 mm
7402753	Nozzle, Unity, IO 0.2 mm, TL 4.5 mm
7402754	Nozzle, Unity, IO 0.3 mm, TL 2 mm
7402755	Nozzle, Unity, IO 0.3 mm, TL 3 mm
7402756	Nozzle, Unity, IO 0.3 mm, TL 4 mm
7402757	Nozzle, Unity, IO 0.3 mm, TL 4.5 mm
7402758	Nozzle, Unity, IO 0.4 mm, TL 2 mm
7402759	Nozzle, Unity, IO 0.4 mm, TL 3 mm
7402760	Nozzle, Unity, IO 0.4 mm, TL 4 mm
7402761	Nozzle, Unity, IO 0.4 mm, TL 4.5 mm
7402762	Nozzle, Unity, IO 0.5 mm, TL 2 mm
7402763	Nozzle, Unity, IO 0.5 mm, TL 3 mm
7402764	Nozzle, Unity, IO 0.5 mm, TL 4 mm
7402765	Nozzle, Unity, IO 0.5 mm, TL 4.5 mm
1092244	Nozzle, Unity, MiniBlue, 1.35 mm ID
1092245	Nozzle, Unity, MiniBlue, 0.84 mm ID
1092246	Nozzle, Unity, MiniBlue, 0.61 mm ID
1092247	Nozzle, Unity, MiniBlue, 0.51 mm ID
1092248	Nozzle, Unity, MiniBlue, 0.41 mm ID
322014	Nozzle, Brown, Yellow, Purple, 0.014 Dia. X 0.050
322016	Nozzle, Brown, Orange, Purple, 0.016 Dia. X 0.050
322018	Nozzle, Brown, Red, Purple, 0.018 Dia X 0.050
322020	Nozzle, Brown, Beige, Purple, 0.020 Dia X 0.050

Web Content



Unity™ PURJet™ 30 and 300

Dispensing Systems

Description

Nordson® Unity PURJet dispensing systems provide accurate dispensing of heated PUR adhesives in 30 mL syringes and 300 mL cartridges. Unity dispensers help extend the useful life of the syringe to maximize material use and minimize residual waste.

A variety of technologies combine to meet the stringent requirements for precise material dispensing in exacting processes of handheld/portable electronics manufacturing. This helps improve production and performance of applications including bonding, sealing, gasketing, encapsulation and attachment.

With a variety of systems and accessories, Unity solutions can be configured to meet specific requirements. When combined with the Unity tabletop automation, overall accuracy and functionality are enhanced by use of vision, linear encoded motion, and easy-to-use dispensing software that optimizes the process and motion control.

Features

- Patented jetting technology allows for consistent and accurate placement of adhesive without the need to adjust for change in the z height of the substrate.
- Non-contact dispensing applies adhesive accurately at high speeds
- Easily dispenses into small grooves and other challenging geometries
- Dispenses discrete dots of adhesive than can be overlapped to create a precise bead of material
- Capable of continuous cycles at 150 HZ

NOTE: *Unity PURJet systems are designed for use with Unity Basic robots, Unity 4XP robots, and Unity controllers. Refer to the other Unity sections of this guide for complete details and part numbers for Unity system components.*



PurJet30 System



Watch Video

Available Options

- Pre-warmers
- Variety of Unity tabletop automations
- Modules/nozzles: 0.004" and 0.007"
- Unity tabletop automation system
- Unity HiTemp™ disposable syringe barrels for PUR and other high temperature materials available from Nordson EFD, call 1-800-556-3484 for more information

Unity™ PURJet™ 30 and 300

Dispensing Systems

General Specifications

Unity PURJet 30 Applicator	Specification
Weight	1.6 kg (3.4 lb)
Adhesive Viscosity	Varies depending on nozzle size and flow rate
Solenoid Valve Air Flow	15 scfm minimum
Unity PURJet 300 Applicator	Specification
Weight	3.36 kg (7.4 lb)
Adhesive Viscosity	Varies depending on nozzle size and flow rate
Solenoid Valve Air Flow	15 scfm minimum

Electrical Specifications

Unity PURJet 30 Applicator	Specification
Supply Voltage	200–240 VAC, 1 phase, 50/60 Hz, 250 W (supplied from controller)
Sensor Type	120 ohm nickel
Unity PURJet 300 Applicator Supply voltage	Specification
Applicator Manifold	200–240 VAC, 1 phase, 50/60 Hz, 400 W (supplied from controller)
Applicator Heater Block	200–240 VAC, 1 phase, 50/60 Hz, 250 W (supplied from controller)

Unity™ PURJet™ 30 and 300

Dispensing Systems

Part Numbers

Basic PURJet30 System

Part Number	Description	Note
1099056	Applicator, Unity, PJ30, Ni120	
1120888	Kit, Ship-With, PURJet 30	
1123363	Module, PJ30, Fixed, 0.004 Orifice., 1 mm Tip	Other jet modules are available. Refer to <i>Modules</i> .
7412901	Controller, Unity Touch*	

Basic PURJet 300 System

Part Number	Description	Note
7407659	Applicator, Unity, PJ300, Ni120	
1120888	Kit, Ship-With, PURJet 30	
1123363	Module, PJ30, Fixed, 0.004 Orifice., 1 mm Tip	Other jet modules are available. Refer to <i>Modules</i> .
7412901	Controller, Unity Touch*	
1107104	Kit, Regulator, Separator, Filter, Combo, Air Kit, PJ30	

*Unity Touch controllers provide dispensing control for Unity PURJet applicators.

Modules

Part Number	Description
1123363	Module, PJ30, Fixed, 0.004 Orifice., 1 mm Tip
1123367	Module, PJ30, Fixed, 0.004 Orifice., 1.5 mm Tip
1124096	Module, PJ30, Fixed, 0.004 Orifice., 2.6 mm Tip
1124718	Module, PJ30, Fixed, 0.004 Orifice, 0.75 mm Tip, 0.35 Stroke
1124845	Module, PJ30, Fixed, 0.004 Orifice, 0.75 mm Tip, 1.25 Stroke
1124846	Module, PJ30, Fixed, 0.004 Orifice, 0.75 mm Tip, 1.50 Stroke
1124847	Module, PJ30, Fixed, 0.004 Orifice, 1.6 mm Tip, 0.50 Stroke
1124719	Module, PJ30, Fixed, with Nozzle Adapter
1123362	Module, PJ30, Adjustable, 0.004 Orifice, 1 mm Tip
1123366	Module, PJ30, Adjustable, 0.004 Orifice, 1.5 mm Tip
1123361	Module, PJ30, Fixed, 0.007 Orifice, 2.6 mm Tip

Robots

Unity IC Series systems are designed for use with Unity Basic and Unity 4XP robots. Refer to the Unity Basic and Unity 4XP Series sections of this guide for complete details and part numbers for Unity robots.

Unity™ PURJet™ 30 and 300

Dispensing Systems

Accessories

Part Number	Description
1124025	Kit, Nozzle, 0.004 Dia., SST, PURJet30
1120498	Kit, Nozzle, 0.007 Dia., SST, PURJet30 (optional), A, B
1124150	Needle, PJ30, S7 Tool, Steel, 1.0 mm Tip, 60 Degree
1124151	Needle, PJ30, S7 Tool, Steel, 1.5 mm Tip, 60 Degree
7407795	Needle, Flat, 42 degree, 0.75 mm Tip, 0.35 mm Stroke
1124475	Adjustable Air Cap Kit
1106951	Air Cap, Fixed, 1.5 mm, PJ30
7407861	Insulator, G1/8, 15 mm, PEEK, PURJet
1121358	Kit, Solenoid, PURJet Upgrade
1124720	Seat, Module, PJ30, Threaded Nozzle

Web Content



Unity™ C and Unity™ Touch

Control Systems

Description

Nordson's Unity control systems are available in two versions designed to meet differing customer needs—the Unity C controller and the Unity Touch controller. Both systems are a compact size, compatible with both Unity IC and PURJet™ applicators, and easy to integrate with a parent machine for full process control. This updated, affordable technology is easier for operators to use.

The Unity C controller is a simple solution that offers basic functions like temperature setting, applicator on/off controls, pressure control and a purge function.

The Unity Touch controller features a 7-inch touchscreen with a friendly HMI and advanced controls. The interface gives quick access to language and recipe selection, uses a fluid detection sensing capability to visually display real-time adhesive level status, and provides multiple zone temperature monitoring.

With a variety of systems and accessories, Unity solutions can be configured to meet specific requirements. When combined with the Unity automated tabletop dispensing robot and adhesive applicator, overall accuracy and functionality are enhanced by use of vision, linear encoded motion, and easy-to-use dispensing software that optimizes the process and motion control.

Features

- Unity Touch controllers allow users to make adjustments to pressure, temperature and other settings with a few quick screen taps
- Both controllers allow users to integrate fully with the parent machine to control parameters like temperature, pressure and applicator on/off time
- The Unity Touch controller's system status-at-a-glance home screen uses a color-coded system to quickly tell operators when the system is heating, ready or has a fault
- Both controllers allow users to collect data like adhesive life, number of products and number of dots jetted



Unity Touch and Unity C Controllers

Unity™ C and Unity™ Touch

Control Systems

General Specifications

Parameter	Specification
Storage Temperature	-13 °F (-25 °C) to 158 °F (70 °C)
Temperature Sensor	Ni120
Max. Input Pressure	8 bar (116 psi)
Degree of Protection	IP 43
Noise Emission	50 dBA
Min. Ambient Temperature	0 °C (32 °F)
Max. Ambient Temperature	35 °C (95 °F)
Humidity	10 to 95%, non-condensing
Min. Operating Temperature	40 °C (100 °F) (setpoint)
Max. Operating Temperature	232 °C (450 °F)
Unity C controller	Specification
Communication	12 pin I/O, RS232
Dimensions (W x D x H)	310 mm (W) x 245 mm (D) x 215 mm (H)
Weight	6.5 kg (14.3 lb)
Unity Touch Controller	Specification
Communication	12 pin I/O, RS485, Ethernet (optional)
Dimensions (W x D x H)	310 mm (W) x 245 mm (D) x 215 mm (H)
Weight	7.5 kg (16.5 lb)

Electrical Specifications

Parameter	Specification
Available Operating Voltage	200–240 VAC, 1 phase
Max Power Requirements	6A
Operating Voltage Frequency	50/60 Hz

Part Numbers

Part Number	Description
7412900	Controller, Unity C
7412901	Controller, Unity Touch

Web Content



EX Extruder Systems

Description

A Nordson extruder is the first choice when processing “difficult” adhesives like polyamides, polyester, or polyolefin (APAO). These adhesives ask for a closed system to avoid degradation of the adhesive through carbonization and consequently loss of bonding performance or other problems within the system.

Extruders enable homogeneous melting in a fully closed “melt-on-demand” system to provide a safe and reliable application process.

Nordson extruders offer the fastest, easiest adhesive changes possible compared to other melters without time- and cost-intensive cleaning procedures.

Convincing advantages at a glance:

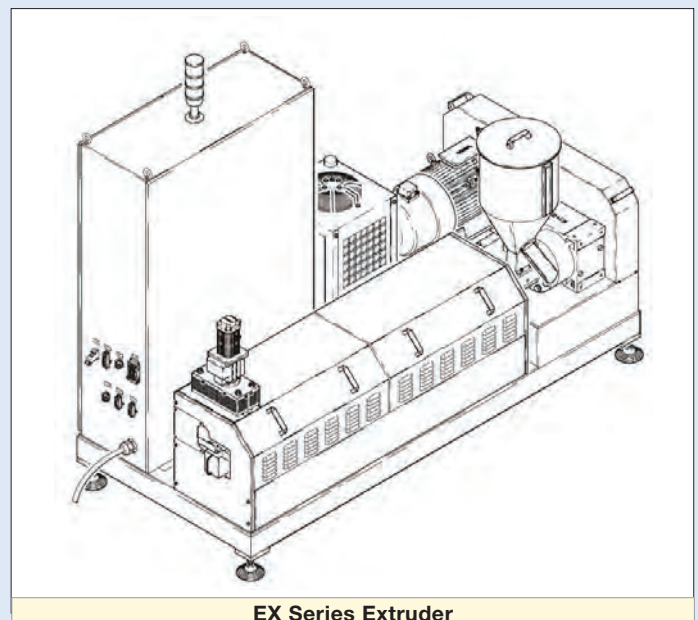
- Optimized for adhesive applications
- A true “melt-on-demand” system, deliver the lowest possible thermal stress on the adhesive
- No degrading or charring at all because it is a fully closed system
- A self-cleaning system
- Virtually maintenance free system
- Option to change adhesives during production within a few minutes
- Short heat-up times
- Lower energy consumption per kilogram compared to conventional tank melters
- Results in more economical operating costs of the complete application system

EX extruder systems are for use in applications requiring the highest precision and performance with regard to temperatures and pressures. EX extruders are designated *Engineered Systems*, which are engineered to the specific requirements of our customers, offering the highest flexibility and grade of customization for a perfectly suited system.

- Different sizes allows throughput of 1 kg to 250 kg per hour
- Compact, service-friendly design
- PLC control standard: easy integration into existing production lines
- PROFIBUS interface
- Intuitive graphical touch panel in local languages
- Provide key-to-line interaction with parent machine through documented interfaces
- Visual display of process data standard
- ChemCoat® coated conical feeding hopper provides safe material supply
- Cylinder and screw manufactured from tempered nitrified steel providing an extremely long lifetime

ChemCoat is a registered trademark of Impreglon GmbH.

PROFIBUS is a registered trademark of PROFIBUS & PROFINET International.



EX Series Extruder

EX Extruder Systems

Specifications

Parameter	Description
Melt Rate ⁽¹⁾	3–250 kg/hr (7–551 lb/hr)
Operating Temperature Range	20–250 °C (68–482 °F)
Hydraulic Pressure	0–100 bar (0–1,450 psi)
Electrical Connection	3 x 400V +N +PE/50–60 Hz (Trafo optional)
Control System	<p>Siemens® S7 PLC with touch panel (5.7in. or 10.4 in.)</p> <ul style="list-style-type: none"> • Start-up circuit that monitors temperature drops and temperature fluctuations for all heating zones. • Multiple storage capability provides easy program selection. • Permanent sensor failure monitoring with visual display. • Zero potential output contacts for reporting temperature drops and temperature fluctuations, and ready for operation signal. • Electronic pressure control for manual and automatic operation with excess pressure cutoff. • Pressure build-up control with automatic switch-over to speed regulation during head control.
Temperature Sensors	PT100, Ni120 ⁽²⁾
Heated Zones	Extruder, hose, applicator (additional heating zones optional)
Metering Station	<p>Metering stations are equipped with high-precision gear pumps for the most demanding applications.</p> <p>Pumps can be flanged to extruder output or alternatively installed as satellite PS metering stations with a hose between the extruder and the pump station.</p>

⁽¹⁾ The maximum melt rate and throughput depends on the material; indication is based on polyamide.

⁽²⁾ Ni120 for maximum 200 °C.

Siemens is a registered trademark of Siemens AG.

Web Content



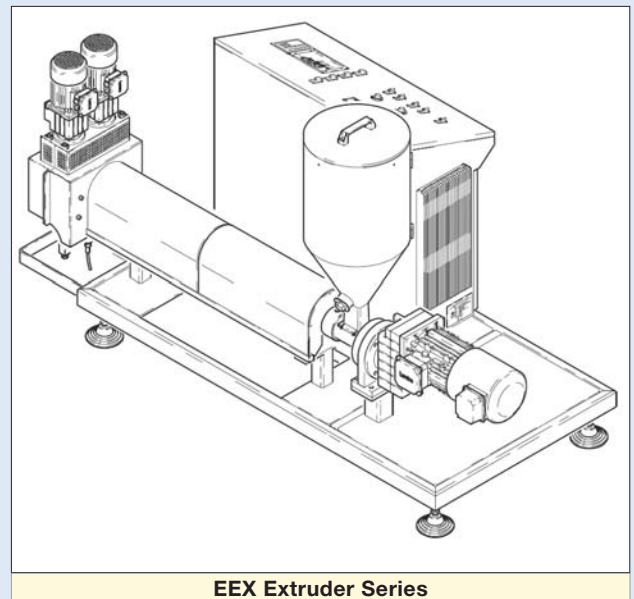
EEX Extruder Systems

EEX Extruder Series

While featuring the same general advantages and benefits in processing demanding adhesives, the EEX series of extruders is a more simple, standardized and configurable system.

Features

- Microprocessor-controlled, multi-channel temperature control featuring staged heating.
- Easy installation and operation.
- Fault diagnostic program for all temperature cycles.
- Start up delay with under- / over-temperature check for all heating zones.
- Standard pressure control, optional pump station with variable AC drives for metering applications.
- Water cooled draw-in zone, to be supplied by cooling circuitry from customer or optional cooling device.
- Cylinder and screw manufactured from tempered nitrified steel providing a extremely long lifetime.
- ChemCoat® coated conical feeding hopper provide safe material supply.



EEX Extruder Series

ChemCoat is a registered trademark of Impreglon GmbH.

Specifications

Parameter	Specification			
	EEX 10	EEX 40	EEX 100	EEX 200
Rated throughput kg/hr (lb/hr) ⁽¹⁾	10 (22)	40 (88)	100 (220)	200 (440)
Hopper Volume L (in. ³)	15 (915)	30 (1830)	75 (4576)	150 (9153)
Rated Power of main drive kW	2.2	5.5	11	22
Max. no. of gear pumps (recirculating pumps optional)	2	4	4	4
Capacity per pump L/h (lb/hr)	10–40 (22–88)	10–40 (22–88)	10–40 (22–88) 40–160 (88–352) (max. 2 pumps)	10–40 (22–88) 40–160 (88–352) (max. 2 pumps)
Max. operating temp. °C (°F) ⁽²⁾	230 (446)			
Max. adhesive pressure bar (psi)	100 (1450)			
Temperature sensors	Ni120 ⁽³⁾ / PT100			
Hose/Applicator connections	1–5	1–5	1–5	1–4

⁽¹⁾ Maximum output rate depends on adhesive; indication is based on common EVA.

⁽²⁾ Operating Temperature depends on adhesive and auxiliary equipment, extruder without auxiliary equipment may be suitable up to 260/496.

⁽³⁾ Ni120 for maximum 180 °C.

EEX Extruder Systems

Configuration Chart

Extruder	Temperature Sensor	Flanged Pump Station	Pump MIDR	Hose Connection	Coding Device	Hopper Level Sensor	Standby-Temp. Setback	Week/Day Timer	Hopper Protection Grid	Casters	Protection Frame for Sensors	Additional Hose/Applicator connections	Special Request
Box 1-6	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 23

Boxes 1-6	Extruder Size	
	Description	Code
	EEX Extruder 10 kg/hr	EEX010
	EEX Extruder 40 kg/hr	EEX040
	EEX Extruder 100 kg/hr	EEX100
	EEX Extruder 200 kg/hr	EEX200

Box 8	Temperature Sensor	
	Description	Code
	PT100	P
	Typ NI120 ⁽¹⁾	N

⁽¹⁾ Up to 200 °C.

Box 9	Flanged Pump Station	
	Description	Code
	No Pump station (pressure controlled)	0
	Single pump station (1 pump)	1
	Single pump station with recirculating ports (1 out/1 in)*	2
	Double pump station (2 pumps)	3
	Double pump station with recirculating ports (2 out/2 in)*	4
	Quadruple pump station (4 pumps) not possible with EEX10	5

*Only in combination with a recirculating applicator.

Box 10	Pump MIDR	
	Description	Code
	No pump selected	X
	10 l/h max. per pump ^{(1) (2)}	A
	20 l/h max. per pump ^{(1) (2)}	B
	40 l/h max. per pump ^{(1) (2)}	C
	80 l/h max. per pump ^{(1) (2) (3)} (EEX 100 / EEX 200 only)	D
	160 l/h max. per pump ^{(1) (2) (3)} (EEX 100 / EEX 200 only)	E
	220 l/h max. per pump ^{(1) (2) (3)} (EEX 200 only)	H

⁽¹⁾ Pump selection only possible if pump station selected.

⁽²⁾ All pumps have to be same size.

⁽³⁾ Pump D and E only possible up to 2-pump station.

Box 11	Hose Connection	
	Description	Code
	Hose connection 8 mm diameter	1
	Hose connection 13 mm diameter	2
	Hose connection 16 mm diameter	3
	Hose connection 20 mm diameter	4
	Hose connection 32 mm diameter	5

Box 12	Cooling Device	
	Description	Code
	No cooling device	X
	Stand-alone cooling device* (EEX 10 / EEX 40 only)	K
	Cooling device on extruder frame* (EEX 100 / EEX 200)	R

*Mandatory if customer does not supply cooling water circuit.

EEX Extruder Systems

Box 13 Hopper Level Sensor		
Description	Code	
No level sensor	X	
1 Level sensor (Hopper empty)	1	
2 LS (Hopper empty + Hopper low level)	2	
3 LS (Hopper empty + Hopper low level + Hopper full)	3	

Box 14 Standby Temperature - Setback		
Description	Code	
No Standby/setback	X	
Standby / Setback Option*	T	

Box 15 Week/Day Timer		
Description	Code	
No Week/Day timer	X	
With Week/Day timer*	W	

*For automatic startup and shutdown of the extruder.

Box 16 Hopper Protection Grid		
Description	Code	
No prot. grid(when AutoFill)	X	
With protective grid*	G	

*Mandatory if hopper is filled manually.

Box 17 Casters		
Description	Code	
No casters, just feet	X	
With casters	M	

Box 18 Protection Frame for Sensors		
Description	Code	
No protection frame	X	
With protection frame	Q	

Box 19 Additional Electrical Hose/ Applicator Connectors*		
Description	Code	
No add. H/A connector	X	
One add. H/A connector	1	
Two add. H/A connectors	2	
Three add. H/A connectors	3	
Four add. H/A connectors (not for EEX 200)	4	

*Maximum number of connections depends on Pump Station, refer to table below.

Box 23 Special Request		
Description	Code	
No Special Request	X	
Any special need to be specified and quoted upon request	T	

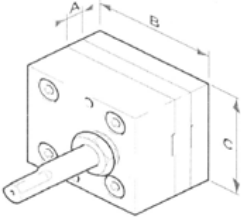
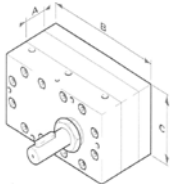
Pump Station Table

Code Box 3	Description	Standard Number of Hose/ Applicators	Additional Electrical Hose/Applicator Connectors		
			EEX10 EEX40	EEX100	EEX200
0	No Pump station (pressure controlled)	1	4	4	3
1	Single pump station (1 pump)	1	4	3	3
2	Single pump station with re-circulating ports (1 out/1 in)*	2	3	2	2
3	Double pump station (2 pumps)	2	3	2	1
4	Double pump station with re-circulating ports (2 out/2 in)*	4	1		
5	Quadruple pump station (4 pumps)	4			

*Only in combination with a re-circulating applicator.

EEX Extruder Systems

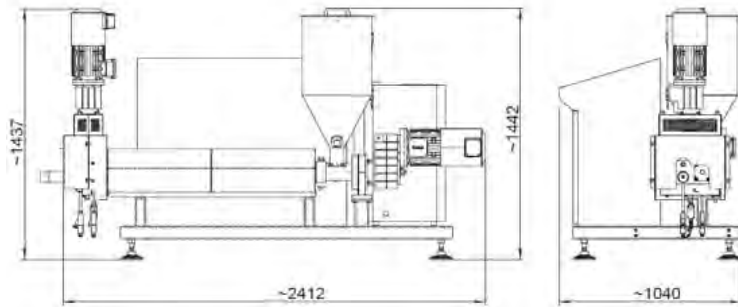
Gear Pump Chart

	Part Number	Type	Layout	Dimensions (mm)			Capacity (cc.rev)	Output @100 rpm (L/hr)
				A	B	C		
EEX 200 EEX 100 EEX 10 EEX 40	7521694	GP 03 M0.5		3	76	76	0.2	1.2
	7521751	GP 03 M1		3	76	76	0.4	2.4
	7521755	GP 03 M2		3	76	76	0.8	4.8
	7521703	GP 06 M2		6	76	76	1.7	10.2
	7528130	GP 12 M2		12	76	76	3.5	21
	7521668	GP 25 M2		25	76	76	7	42
	7055336	GP 30 M2		30	76	76	8.4	50.4
	7523855	GP 50 M2	50	76	76	13.3	80	
	7053428	GP 100 M1		15	195	120	16.7	100
	7525111*	GP 160 M2		25	195	120	27	162
7522285*	GP 220 M2	35		195	120	37	222	

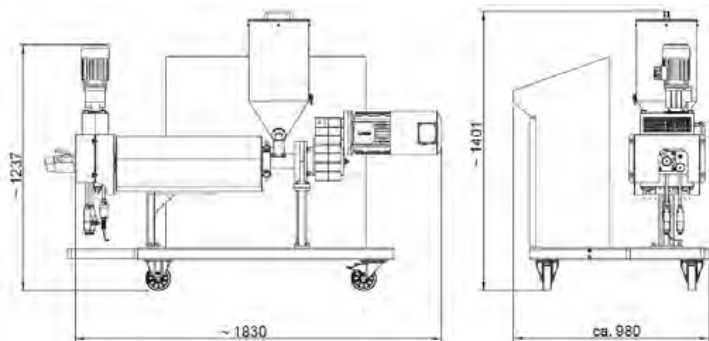
*Additional heating cartridges needed.

Dimensions (mm)

EEX 100



EEX 10/EEX 40



Best Choice™ Configurable Applicators

Description

Best Choice applicators are configurable, which means that each applicator is constructed to specific choices made when the applicator was ordered. The Best Choice Configurator allows the customer to quickly and easily determine the right applicator for the application, minimizing the need for specially engineered applicators and significantly reducing delivery time. Best Choice applicators are available in low-profile, multi-module and water wash designs.

Machining centers are located throughout the world to ensure commonality of parts and expedient delivery of applicators. Best Choice applicators use a common manifold extrusion and can be configured for common air, independent air and programmed air. All applicators are tested prior to shipment to help assure performance.

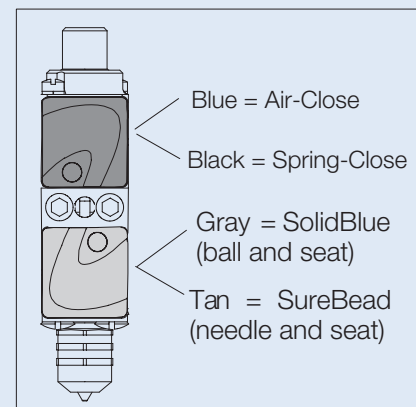
Best Choice applicators include:

1. ClassicBlue™ zero cavity, reduced cavity and right angle air-open/spring-close modules
 2. SolidBlue™ A air-open/air-close modules
 3. SolidBlue™ S air-open/spring-close modules
 4. SureBead® A air-open/air-close modules
 5. SureBead® S air-open/spring-close modules
- The Best Choice Configurator provides intuitive and step-by-step instructions to guide you through the process of building an applicator, offering choices in module spacing, cord set location, air specifications, voltage and hose connection, preinstalled solenoids and in-line filters.
 - The configurator demonstrates which specifications are possible and which are not, providing instantaneous answers to specific application questions.
 - Applicator covers for SolidBlue and SureBead are color coded for identification and thermally resistant, to enhance safety during maintenance.
 - The Unique Identifier (UID) Cross Reference function allows for easy conversion of the World Applicator platform to the new Best Choice applicators. By entering a specific applicator UID or part number, a list of recommended parts and dimensional sketch unique to the applicator is displayed.



SolidBlue S module and gun body

The EasyOn™ design provides machined surfaces on both the applicator body and applicator module. The two surfaces “mate” to deliver superior ease-of-use and to provide safety when servicing applicators.



Best Choice™ Configurable Applicators

Best Choice Applicator Specifications

Parameter	Specification			Note
	ClassicBlue (all), SureBead/ Solid-Blue S	SolidBlue A	SureBead A	
Operating hydraulic pressure	103 bar (1,500 psi) maximum			
Operating air pressure	2.8–4.8 bar (40–70 psi)	3.1–5.5 bar (45–80 psi)		A
Operating speed	Exceeds 3,500 cycles per minute			
Electrical service	240 VAC, 50/60 Hz 200 VAC, 50/60 Hz optional (for low-voltage areas)			
Operating temperature	204 °C (400 °F) maximum			
NOTE A: Recommended range. Dry, regulated, unlubricated air required for applicator operation.				

Best Choice Applicator Configuration Code

The Best Choice configurator will help you select the applicator best suited to your application. Contact your Nordson representative to obtain the configurator program. Below is a typical configuration code listing and a table that interprets the code. When a configured applicator is ordered, Nordson assigns a unique identifier code to the assembly, and that number is stamped onto the applicator identifier plate. The identifier code can then be used to order new configured applicators, forgoing the configuration process.

Applicator Model	Module Type	Number of Modules	Voltage	Air Type	Module Spacing	Cordset	Cordset Position	Solenoid	Saturn In-line Filters	Number of Hydraulic Ports
SURS	STD	04	A	CA	022	T	LB	3A0A	E9	3
1	2	3	4	5	6	7	8	9	10	11

Box 1	Applicator Model	
	Description	Code
	ClassicBlue Reduced Cavity	CBRC
	ClassicBlue Zero Cavity	CBZC
	ClassicBlue Zero Cavity Extended	CBZE
	ClassicBlue Right Angle	CBRA
	SureBead S (air-open-spring-close) (AO/SC)	SURS
	SureBead A (air-open-air-close) (AO/AC)	SURA
	SolidBlue S (AO/SC)	SLBS
	SolidBlue A (AO/AC)	SLBA

NOTE: Solid Blue S replaces Classic Blue Standard.

Box 2	Module Type	
	Description	Code
	Standard	STD
	Right Angle (Classic Blue Only)	RA
	Zero Cavity	ZC
	Reduced Cavity	RC
	Zero Cavity Extended	ZE

Box 3	Number of Modules	
	Description	Code
	Number of Modules	1–26



Best Choice™ Configurable Applicators

Box 4	Voltage	
	Description	Code
	240 V	A
	200 V	B

Box 5	Air Type	
	Description	Code
	Common Air	CA
	Independent Air	IA
	Programmed Air	PA

Box 6	Module Spacing	
	Description	Code
	Three Digit Value (number of modules minus one)	

Box 7	Cordset	
	Description	Code
	3000/Blue Series	T
	Bulk Melter	B
	Water Wash	W
	DIP (Dona Pro) <305 mm	P
	DEC (Dona Mini) <305 mm	N
	RB (Rotate) <305 mm	R
	SB (Slauterback) <305 mm	S
	MXT (Meltex TC) <305 mm	J
	MXR (Meltex Platinum) <305 mm	K
	200F Tstat <305 mm	1
	225F Tstat <305 mm	2
	250F Tstat <305 mm	3
	275F Tstat <305 mm	4
	300F Tstat <305 mm	5
	325F Tstat <305 mm	6
	350F Tstat <305 mm	7
	375F Tstat <305 mm	8
	400F Tstat <305 mm	9
	PAL 1 (Palette Stabilization - RTD) <305 mm	Y
	PAL 2 (Palette Stabilization - CL IX) 200F Tstat <305 mm	A
	PAL 2 (Palette Stabilization - CL IX) 225F Tstat <305 mm	C
	PAL 2 (Palette Stabilization - CL IX) 250F Tstat <305 mm	D
	PAL 2 (Palette Stabilization - CL IX) 275F Tstat <305 mm	E
	PAL 2 (Palette Stabilization - CL IX) 300F Tstat <305 mm	F
	PAL 2 (Palette Stabilization - CL IX) 325F Tstat <305 mm	G
	PAL 2 (Palette Stabilization - CL IX) 350F Tstat <305 mm	H
	PAL 2 (Palette Stabilization - CL IX) 375F Tstat <305 mm	L
	PAL 2 (Palette Stabilization - CL IX) 400F Tstat <305 mm	X
	Melton <305 mm	M
	Valco <305 mm	V

Best Choice™ Configurable Applicators

Best Choice™ Applicator Configuration Code *(contd)*

Box 8	Cordset Position	
	Description	Code
	Left Back	LB
	Right Back	RB
	Left Side	LS
	Right Side	RS
	Both Back	BB
	Back	BA
	Top Feed	TF

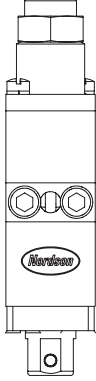
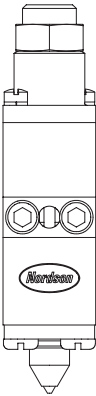
Box 9	Solenoid	
	Description	Code
	First character - # Air ports:	
	3 Ports (AO/SC)	3
	4 Ports (AO/AC)	4
	Second character - Voltage:	
	24 VDC	A
	100 VAC	B
	120 VAC	C
	200 VAC	D
	240 VAC	E
	Third character - LED option:	
	Std (black)	0
	LED (white)	1
	Fourth character - Solenoid Size:	
	Saturn Platinum (SP) - not mounted to applicator	S
	Large Saturn CV (1/4 in. NPT)	A
	Small Saturn CV (1/8 in. NPT)	B
	Large Saturn - not mounted to applicator	Y
	Small Saturn - not mounted to applicator	Z

Box 10	Saturn In-line Filters	
	Description	Code
	50-Mesh, Straight	E0
	50-Mesh, No Filter Inlet Fitting	E1
	50-Mesh, 45° Angle	E4
	50-Mesh, 90° Angle	E9
	100-Mesh, Straight	F0
	100-Mesh, No Filter Inlet Fitting	F1
	100-Mesh, 45° Angle	F4
	100-Mesh, 90° Angle	F9
	200-Mesh, Straight	G0
	200-Mesh, No Filter Inlet Fitting	G1
	200-Mesh, 45° Angle	G4
	200-Mesh, 90° Angle	G9

Box 11	Number of Hydraulic Ports	
	Description	Code
	1 Hydraulic Port	1
	3 Hydraulic Ports	3
	5 Hydraulic Ports	5

Best Choice™ Configurable Applicators

Module Selection Chart

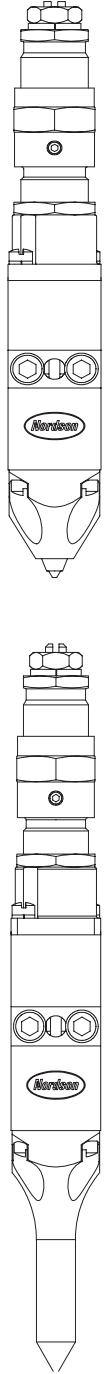
Module Type	Characteristics	Application/Usage
<p>ClassicBlue right-angle (CBRA)</p> 	<ul style="list-style-type: none"> • ClassicBlue, right-angle module, adjustable (allows changes in bead placement) • Air-open, spring-close (AO/SC) operation • Includes an integrated right-angle nozzle 	<p>ClassicBlue right-angle applicators provide 90-degree application flexibility for low-to-medium speed applications.</p>
<p>ClassicBlue reduced cavity (CBRC)</p> 	<ul style="list-style-type: none"> • ClassicBlue reduced cavity module, adjustable (allows changes in bead placement) • Air-open, spring-close (AO/SC) operation • Available in four orifice sizes 	<p>ClassicBlue reduced cavity applicators have an integrated nozzle and needle assembly that results in self-cleaning action and sharp cutoff. When used in low to medium speed applications, reduced cavity applicators provide clog-free/minimum drip operation, uniform beads, and consistent flow over a wide range of temperatures.</p>

Continued...

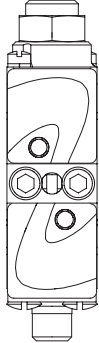
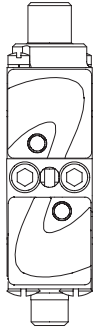
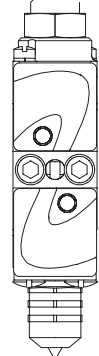
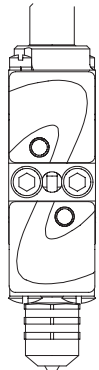
NOTE: The standard Classic Blue Module is replaced with the Solid Blue S Module.

Best Choice™ Configurable Applicators

Module Selection Chart (contd)

Module Type	Characteristics	Application/Usage
<p>ClassicBlue zero cavity (ZC) and zero cavity case sealing (ZCS)</p> <p>Zero Cavity Extended (ZE)</p> 	<ul style="list-style-type: none"> • ClassicBlue zero cavity module with micro-adjuster • Air-open, spring-close (AO/SC) operation • Available in six orifice sizes 	<p>Use ClassicBlue zero cavity applicators in critical applications that require consistent no-clog/no-drip operation, precise bead placement, and extrusion control. The close-tolerance, matched nozzle-and-needle assembly eliminates the formation of minute adhesive pockets that can lead to nozzle clogging, drool, and adhesive stringing. The movement of the needle within the nozzle creates a self-cleaning action, minimizing blockages and reducing maintenance. Applications for these applicators include case sealing, cap lining, nonwovens side seaming and elastic attachment, bonding, and gasketing.</p> <p>Zero cavity applicators feature a patented micro-adjust module. A micrometer adjustment screw at the top of the module can reduce adhesive flow by up to 30 percent. Additionally, minor variations in bead position can be achieved via a load adjustment mechanism. These adjustments are especially beneficial in high-speed, multi-module applicator applications.</p>
<p><i>Continued...</i></p>		

Best Choice™ Configurable Applicators

Applicator Type	Features	Application/Usage
SolidBlue S (SLBS) 	<ul style="list-style-type: none"> • SolidBlue S standard module, spring-tension adjustable (not stroke-adjustable) • Air-open, spring-close (AO/SC) operation • Accommodates Saturn single-orifice and right-angle nozzles 	SolidBlue S applicators provide longer life than ClassicBlue applicators and deliver exceptional adhesive cut-off/ minimum-drip operation for medium-to-high speed applications.
SolidBlue A (SLBA) 	<ul style="list-style-type: none"> • SolidBlue A standard module, non-adjustable • Air-open, air-close (AO/AC) operation • Factory installed Saturn solenoid valve • Accommodates Saturn single-orifice and right-angle nozzles 	SolidBlue A applicators provide better cutoff than SolidBlue S applicators (because of the air-open, air-close operation), provide extended service life beyond ClassicBlue applicators, and deliver exceptional accuracy for demanding applications. SolidBlue A applicators are recommended for use with adhesives that have a viscosity greater than 1,250 cps and cycle rates below 15 ms.
SureBead S (SURS) 	<ul style="list-style-type: none"> • High quality patterns with virtually clog-free operation, even when using “difficult to machine” low and medium viscosity adhesives • Maximum bead deposition capability • Air-open, spring-close (SureBead S) or air-open, air-close (SureBead A) operation • Colored ring on the removable nozzle easily identifies orifice size • Nozzles are interchangeable - change orifice sizes without removing the module from the applicator 	SureBead modular hot melt applicators are designed for easy flushing by removing the nozzle from the module. Nozzles used with a SureBead applicator are designed to perform similar in function to reduced cavity and zero cavity nozzles. SureBead applicators are designed to dispense packaging grade adhesives.
SureBead A (SURA) 	<ul style="list-style-type: none"> • Nozzle tip is maintained resulting in cleanly applied beads and better product seals 	

Best Choice™ Configurable Applicators

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Web Content



SolidBlue™ Hot Melt Applicators and Modules

Description

SolidBlue hot melt applicators with Myritex™ seals provide up to twice the industry-leading service life and reduce module replacement costs and unscheduled downtime.

SolidBlue applicators and modules are available in two designs. SolidBlue S applicators feature air-open/spring-close (AO/SC) and SolidBlue A applicators feature air-open/air-close (AO/AC) actuation.

Applicator modules are fully rebuildable and key applicator body components are easily accessible for easier, faster maintenance. All single and multi-module applicators are built from the same applicator body platform for greater application flexibility and system compatibility. The Best Choice configurator allows you to quickly and easily determine the right applicator body for your application, minimizing the need for specially engineered applicators and reducing delivery time.

Features

- EasyOn module mounting feature reduces installation time and other benefits by providing:
 - Guided, one-way fit (mated module and applicator body surfaces)
 - Easier, safer installation (especially on applicator bodies located deep within machines)
 - Backward compatibility (modules fit existing Nordson applicator bodies)
 - Simpler design.
- Color-coding identifies AO/AC and AO/SC actuation.
- Plastic module cover offers protection during incidental contact.
- Performance-matched Saturn® solenoid valves delivers fast cycle speeds and consistent opening.
- New Myritex seals increase service, significantly reducing replacement costs, downtime and maintenance.
- Inspection port allows visual monitoring of module performance.
- Large diameter heater improves service life.
- SolidBlue S versions meet the performance requirements of most applications and include the benefits of long life.
- SolidBlue S modules retrofit on ClassicBlue applicator bodies or are available as a complete SolidBlue S applicator assembly. Upgrade existing lines using with SolidBlue S applicators and Saturn solenoids.
- Superior adhesive cut-off helps improve product quality and reduce rejects.
- Factory-set stroke and precision components virtually eliminate the need for operator adjustment, producing consistent pattern placement.
- RTD sensors and solid-state temperature control hold within ± 0.5 °C (1 °F) of setpoint, improving bead uniformity.
- Quick-disconnect electrical plugs and easy-entry service panels speed installation and maintenance.



SolidBlue A and S Modules



Watch Video

SolidBlue™ Hot Melt Applicators and Modules

Parts and Accessories - SolidBlue Applicators

Use the Best Choice configurator to configure a single-module or multi-module applicator with mounted solenoid for a specific application and to obtain a part number and ordering information. The Best Choice configurator will also provide dimensions for a specified applicator. Order the configurator CD, part number 1059280, free of charge. You may also contact a Nordson representative to obtain a copy of the Best Choice configurator.

All single module applicators and LP applicators have the same mounting hole configuration as legacy applicators.

SolidBlue Low-Profile (LP) Applicators

Low-profile applicators are not available for order through the Best Choice configurator.

Part Number	Description
1057393	SolidBlue A, 2-module, 0.88 centers, CA, water wash
1057394	SolidBlue A, 2-module, 0.88 centers, CA
1057397	SolidBlue S, 2-module, 0.88 centers, CA
1057398	SolidBlue S, 2-module, 0.88 centers, CA, water wash
1057399	SolidBlue S, 2-module, 0.88 centers, CA, 200V
1057400	SolidBlue S, 2-module, 0.88 centers, IA
4057403	SolidBlue S, 2-module, 1.50 centers, CA
1057395	SolidBlue A, 4-module, 0.88 centers, CA
1057396	SolidBlue A, 4-module, 0.88 centers, CA, water wash
1057404	SolidBlue S, 4-module, 0.88 centers, CA
1057405	SolidBlue S, 4-module, 0.88 centers, CA, 200V
1057406	SolidBlue S, 4-module, 1.00 centers, IA
1057407	SolidBlue S, 4-module, 0.88-2.62-0.88 centers, CA
1057408	SolidBlue S, 4-module, 0.88-2.75-0.88 centers, CA
1057409	SolidBlue S, 4-module, 0.88-4.50-0.88 centers, CA
4057410	SolidBlue S, 4-module, 0.88-1.50-0.88 centers, CA
1057411	SolidBlue S, 6-module, 0.88 centers, CA

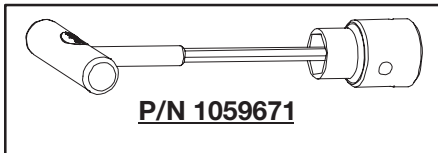
SolidBlue™ Hot Melt Applicators and Modules

Replacement Modules

Part Number	Description
1054951	Module blank, SolidBlue/SureBead
1052925	SolidBlue S module
1052927	SolidBlue A module

Multi-Service Device

The multi-service device is used for Blue Series modules. Use the multi-service device for air cap adjustment, module removal, nozzle removal and applicator filter removal. Refer to the Accessories section for more information.



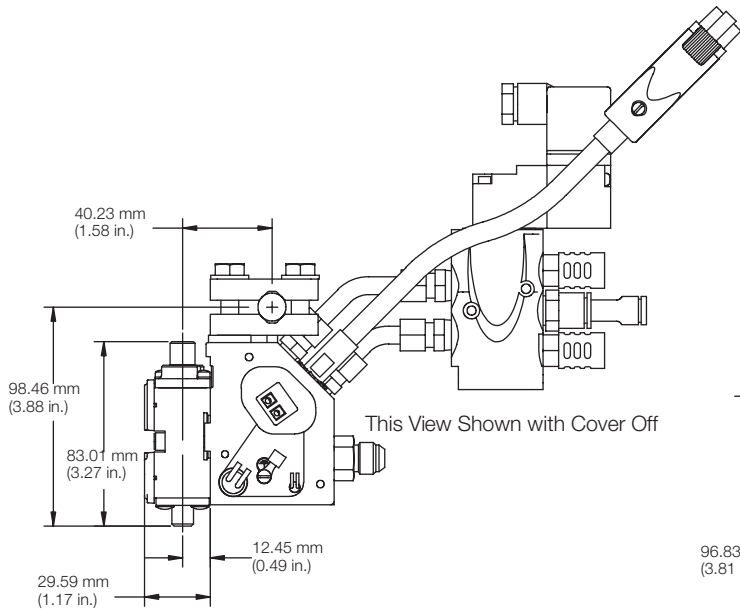
Insulating Applicator Jackets

Part Number	Description
1065642	Jacket, applicator, BC, single, back, AO/SC*
1066184	Jacket, applicator, BC, single, back, AO/AC*

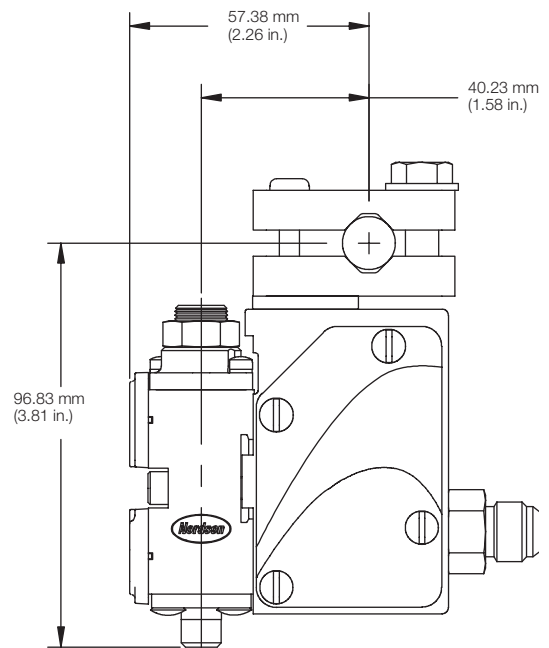
*For other jackets, contact application engineering.

SolidBlue™ Hot Melt Applicators and Modules

Dimensions



SolidBlue A



SolidBlue S

Web Content



SureBead® Reduced Cavity Applicators & Modules

Description

SureBead applicators and modules maximize application flexibility, produce clean patterns and deliver sharp cutoff with virtually clog-free operation. Modules feature needle and seat design and are smaller than previous SureBead models for better placement in machines. SureBead A features air-open/air close (AO/AC) and SureBead S features air-open/spring-close (AO/SC) actuation.

Applicator modules are fully rebuildable and key applicator body components are easily accessible for easier, faster maintenance. All single and multi-module applicators are built from the same applicator body platform for greater application flexibility and system compatibility. The Best Choice configurator allows you to quickly and easily determine the right applicator body for your application, minimizing the need for specially engineered applicators and reducing delivery time.

SureBead nozzles are similar in design to Nordson Saturn® nozzles, with gray upper ring to indicate a pressed-in seat with minimal engagement and a color-coded lower ring to indicate orifice size. The self-cleaning action of the integrated nozzle and needle assembly produces clean patterns and sharp cutoff.

Features

Nordson SureBead applicators set the industry standard for trouble-free performance, delivering more uptime and productivity to your operations.

- Self-cleaning, integrated needle and reduced cavity nozzle design*
- Removable Saturn® style nozzles with color-coded rings
- Myritex™ long-life seals
- EasyOn™ Bowtie® one-way-fit mounting design
- Color-coded, cool-to-touch module covers
- Fully rebuildable gun modules

*Patented



SureBead A and S Modules



Watch Video

Benefits

- Clog-free operation minimizes downtime, maintenance, replacement and inventory costs
- Error-free nozzle and bead size changes without removing gun module
- Unique seals extend module service life
- Guided, one-way fit for fast, easy installation increases uptime
- Less operator exposure to heated surfaces improves safety
- Rebuild kits lower replacement parts costs

SureBead® Reduced Cavity Applicators & Modules

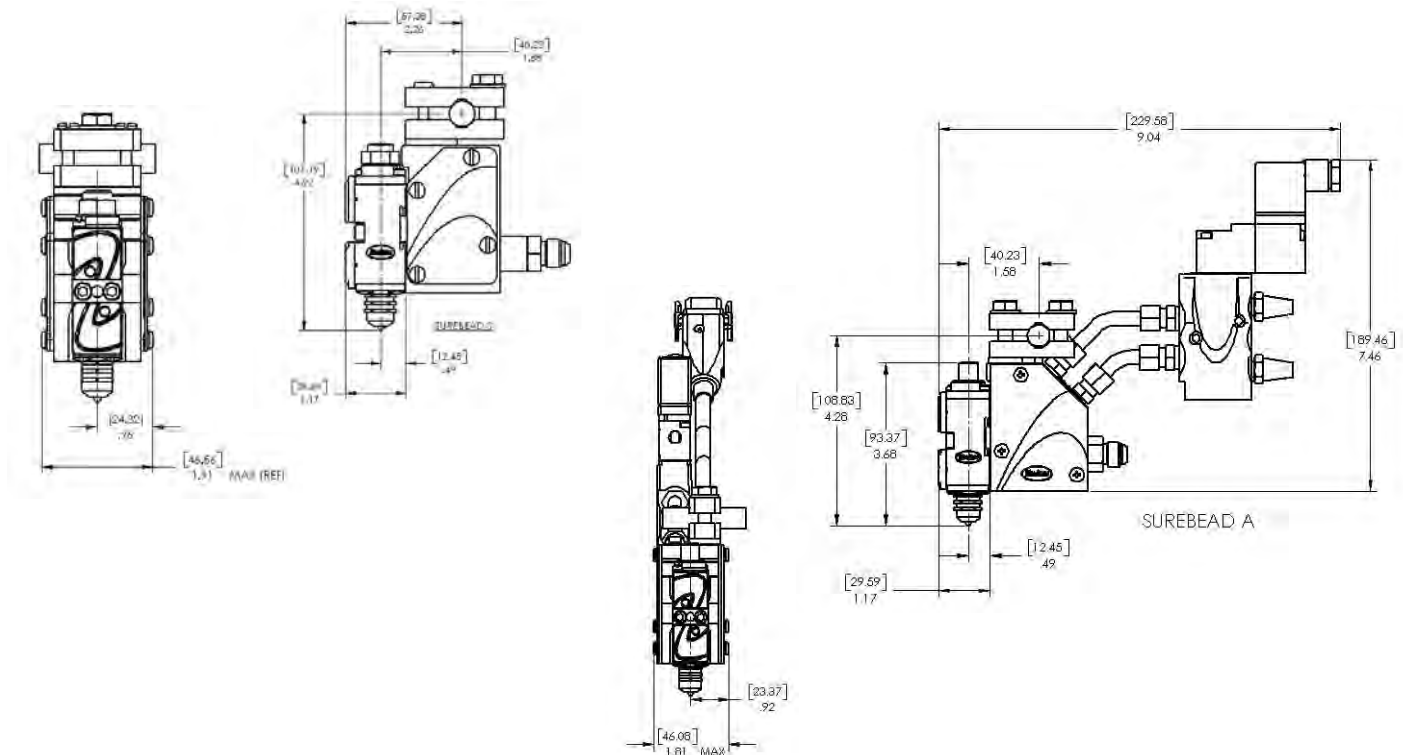
Specifications

Parameter	Specification
Operating temperature	450 °F (230 °C) maximum
Operating air pressure ¹	3.1 to 5.5 bar (45 to 80 psi)
Working hydraulic pressure	103 bar (1500 psi) maximum
Operating speed	Exceeds 3500 cycles per minute
Precision nozzles ²	Single; selected nozzle comes mounted on module
Saturn® solenoid valves ³	Nordson 24 VDC Saturn high-temperature solenoids recommended for peak performance
Electrical service	240 VAC, 50/60 Hz 200 VAC, 50/60 Hz optional

Notes:

1. Recommended range. Dry, regulated, unlubricated air required for consistent gun operation.
2. Optional SureBead nozzle/orifice diameters and centerline spacings are available.
3. Nordson specifies 24 VDC Saturn high-temperature valves for pattern accuracy and extended service life.

Dimensions



SureBead® Reduced Cavity Applicators & Modules

Parts and Accessories - SureBead Applicators

Use the Best Choice configurator to configure a single-module or multi-module applicator with mounted solenoid for a specific application and to obtain a part number and ordering information. The Best Choice configurator will also provide dimensions for a specified applicator. Order the configurator CD, part number 1059280, free of charge. You may also contact a Nordson representative to obtain a copy of the Best Choice configurator.

Replacement Modules

Part	Description
1054951	Module blank, SolidBlue/SureBead
1052928	SureBead S, 0.008 (purple)
1052929	SureBead S, 0.012 (green)
1052931	SureBead S, 0.016 (orange)
1052932	SureBead S, 0.020 (beige)
1056127	SureBead S, 0.032 (gold)
1056128	SureBead S, 0.040 (turquoise)
1052934	SureBead A, 0.008 (purple)
1052935	SureBead A, 0.012 (green)
1052936	SureBead A, 0.016 (orange)
1052937	SureBead A, 0.020 (beige)
1056129	SureBead A, 0.032 (gold)
1056130	SureBead A, 0.040 (turquoise)

Replacement Nozzle

Part	Description
339695	Kit, Nozzle, 0.008 (purple)
339696	Kit, Nozzle, 0.012 (green)
339697	Kit, Nozzle, 0.016 (orange)
339698	Kit, Nozzle, 0.020 (beige)
1055563	Kit, Nozzle, 0.032 (gold)
1055560	Kit, Nozzle, 0.040 (turquoise)

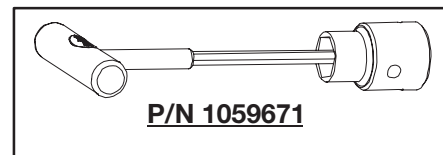
Insulating Applicator Jackets

Part Number	Description
1065642	Jacket, Applicator, BC, Single, Back, AO/SC*
1066184	Jacket, Applicator, BC, Single, Back, AO/AC*

*For other jackets, contact application engineering.

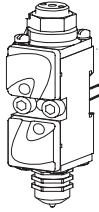
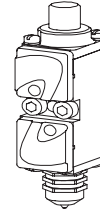
Multi-Service Device

The multi-service device is used for Blue Series modules. Use the multi-service device for air cap adjustment, module removal, nozzle removal and applicator filter removal. Refer to the Accessories section for more information.



SureBead® Reduced Cavity Applicators & Modules

Saturn Nozzles to SureBead Module Conversion Table

Saturn Nozzle Size		SureBead Nozzle Size			SureBead Nozzles	
Part No.	Description	Size	AO/SC Module	AO/AC Module		
322008	Nozzle,Br,Pur&Pur, 0.008 DIA x 0.050	0.008	1052928	1052934	 	
322008	Nozzle,Br,Blu&Pur, 0.010 DIA x 0.050	0.008	1052928	1052934		
322012	Nozzle,BR,GRN&Pur, 0.012 DIA x 0.050	0.012	1052929	1052935		
322014	Nozzle,Br,Yel&Pur, 0.014 DIA x 0.050	0.016	1052931	1052936		
322016	Nozzle,Br,Ora&Pur, 0.016 DIA x 0.050	0.016	1052931	1052936		
322018	Nozzle,Br,Red&Pur, 0.018 DIA x 0.050	0.020	1052932	1052937		
322020	Nozzle,Br,Bei&Pur, 0.020 Dia x 0.050	0.020	1052932	1052937		
322024	Nozzle,Br,Gry&Pur, 0.024 Dia x 0.050	0.032	1056127	1056129		
322110	Nozzle,Br,Blu&Brn, 0.010 Dia x 0.075	0.008	1052928	1052934		Part No.
322112	Nozzle,Br,Grn&Brn, 0.012 Dia x 0.075	0.012	1052929	1052935		339695
322114	Nozzle,Br,Yel&Brn, 0.014 Dia x 0.075	0.012	1052929	1052935	339696	
322116	Nozzle,Br,Ora&Brn, 0.016 Dia x 0.075	0.016	1052931	1052936	339697	
322118	Nozzle,Br,Red&Brn, 0.018 Dia x 0.075	0.016	1052931	1052936	339698	
322120	Nozzle,Br,Bei&Brn, 0.020 Dia x 0.075	0.020	1052932	1052937	105563	
322124	Nozzle,Br,Gry&Brn, 0.024 Dia x 0.075	0.032	1056127	1056129	105560	
322212	Nozzle,Br,Grn&Blu, 0.012 Dia x 0.100	0.008	1052928	1052934	Description	
322214	Nozzle,Br,Yel&Blu, 0.014 Dia x 0.100	0.012	1052929	1052935	Nozzle 0.008 (purple)	
322216	Nozzle,Br,Ora&Blu, 0.016 Dia x 0.100	0.016	1052931	1052936	Nozzle 0.012 (green)	
322218	Nozzle,Br,Red&Blu, 0.018 Dia x 0.100	0.016	1052931	1052936	Nozzle 0.016 (orange)	
322220	Nozzle,Br,Bei&Blu, 0.020 Dia x 0.100	0.020	1052932	1052937	Nozzle 0.020 (beige)	
322224	Nozzle,Br,Gry&Blu, 0.024 Dia x 0.100	0.032	1056127	1056129	Nozzle 0.032 (gold)	
322312	Nozzle,br,grn&grn, 0.012 Dia x 0.150	0.008	1052928	1052934	Nozzle, 0.040 (turquoise)	
322314	Nozzle,Br,Yel&Grn, 0.014 Dia x 0.150	0.012	1052929	1052935		
322316	Nozzle,Br,Ora&Grn, 0.016 Dia x 0.150	0.012	1052929	1052935		
322318	Nozzle,Br,Red&Grn, 0.018 Dia x 0.150	0.016	1052931	1052936		
322320	Nozzle,Br,Bei&Grn, 0.020 Dia x 0.150	0.020	1052932	1052937		
322324	Nozzle,Br,Gry&Grn, 0.024 Dia x 0.150	0.032	1056127	1056129		
322412	Nozzle,Br,Grn&Blk, 0.012 Dia x 0.300	0.008	1052928	1052934		
322414	Nozzle,Br,Yel&Blk, 0.014 Dia x 0.300	0.008	1052928	1052934		
322416	Nozzle,Br,Ora&Blk, 0.016 Dia x 0.300	0.008	1052928	1052934		
322418	Nozzle,Br,Red&Blk, 0.018 Dia x 0.300	0.012	1052929	1052935		
322424	Nozzle,Br,Gry&Blk, 0.024 Dia x 0.300	0.020	1052932	1052937		
322428	Nozzle,Br,Blk&Blk, 0.028 Dia x 0.300	0.020	1052932	1052937		

* All percentages are calculated based on tested flowrates. Actual pressures may vary.



Web Content



Select Series™ Applicators

Description

Select Series Applicators provide Nordson quality applicators to fit melters from ITW/Dynatec™ Hot Melt Technologies (HMT®) or Robatech. The Select Series applicators are equipped with the appropriate cordsets and proper electrical/hudraulic connectors for easy installation onto other manufacturers' melters.

Select Series automatic applicators are available in air-open-spring-close or air-open-air-close versions as offered in the Best Choice Series. These applicators deliver many benefits, including:

- Industry-leading service life that enhances productivity.
- Choice of Air-open/Spring-close or Air-open/Air-close versions.
- Consistent life module to module maximizes uptime through predictable behavior.
- Superior cutoff. Even with difficult materials, delivers accurate bead placement and attractive packages.
- Excellent module-to-module synchronization on closing.

Use the Best Choice Configurator to select your new/replacement applicator.

Best Choice™ Applicator Configuration Code

The Best Choice configurator will help you select the applicator best suited to your application. Contact your Nordson representative to obtain the configurator program. Below is a typical configuration code listing and a table that interprets the code. When a configured applicator is ordered, Nordson assigns a unique identifier code to the assembly, and that number is stamped onto the applicator identifier plate. The identifier code can then be used to order new configured applicators, forgoing the configuration process.

Applicator Model	Module Type	Number of Modules	Voltage	Air Type	Module Spacing	Cordset	Cordset Position	Solenoid	Saturn Inline Filters	Number of Hydraulic Ports
SURS	STD	04	A	CA	022	T	LB	3A0A	E9	3
1	2	3	4	5	6	7	8	9	10	11

Box 1	Applicator Model	
	Description	Code
	ClassicBlue Reduced Cavity	CBRC
	ClassicBlue Zero Cavity	CBZC
	ClassicBlue Zero Cavity Extended	CBZE
	ClassicBlue Right Angle	CBRA
	SureBead S (air-open-spring-close) (AO/SC)	SURS
	SureBead A (air-open-air-close) (AO/AC)	SURA
	SolidBlue S (AO/SC)	SLBS
	SolidBlue A (AO/AC)	SLBA

NOTE: Solid Blue S replaces Classic Blue Standard.

Box 2	Module Type	
	Description	Code
	Standard	STD
	Right Angle (Classic Blue Only)	RA
	Zero Cavity	ZC
	Reduced Cavity	RC
	Zero Cavity Extended	ZE

Select Series™ Applicators

Best Choice™ Applicator Configuration Code *(contd.)*

Box 3		Number of Modules	
		Description	Code
		Number of Modules	1-26

Box 4		Voltage	
		Description	Code
		240 V	A
		200 V	B

Box 5		Air Type	
		Description	Code
		Common Air	CA
		Independent Air	IA
		Programmed Air	PA

Box 6		Module Spacing	
		Description	Code
		Three digit value (number of modules minus one)	

Box 7		Cordset	
		Description	Code
		3000/Blue Series	T
		Bulk Melter	B
		Water Wash	W
		DIP (Dona Pro) <305 mm	P
		DEC (Dona Mini) <305 mm	N
		RB (Rotate) <305 mm	R
		SB (Slauterback) <305 mm	S
		MXT (Meltex TC) <305 mm	J
		MXR (Meltex Platinum) <305 mm	K
		200F Tstat <305 mm	1
		225F Tstat <305 mm	2
		250F Tstat <305 mm	3
		275F Tstat <305 mm	4
		300F Tstat <305 mm	5
		325F Tstat <305 mm	6
		350F Tstat <305 mm	7
		375F Tstat <305 mm	8
		400F Tstat <305 mm	9
		PAL 1 (Palette Stabilization - RTD) <305 mm	Y
		PAL 2 (Palette Stabilization - CL IX) 200F Tstat <305 mm	A
		PAL 2 (Palette Stabilization - CL IX) 225F Tstat <305 mm	C
		PAL 2 (Palette Stabilization - CL IX) 250F Tstat <305 mm	D
		PAL 2 (Palette Stabilization - CL IX) 275F Tstat <305 mm	E
		PAL 2 (Palette Stabilization - CL IX) 300F Tstat <305 mm	F
		PAL 2 (Palette Stabilization - CL IX) 325F Tstat <305 mm	G
		PAL 2 (Palette Stabilization - CL IX) 350F Tstat <305 mm	H
		PAL 2 (Palette Stabilization - CL IX) 375F Tstat <305 mm	L
		PAL 2 (Palette Stabilization - CL IX) 400F Tstat <305 mm	X
		Melton <305 mm	M
		Valco <305 mm	V

Select Series™ Applicators

Box 8	Cordset Position	
	Description	Code
	Left Back	LB
	Right Back	RB
	Left Side	LS
	Right Side	RS
	Both Back	BB
	Back	BA
	Top Feed	TF

Box 9	Solenoid	
	Description	Code
	First character - # Air ports:	
	3 Ports (AO/SC)	3
	4 Ports (AO/AC)	4
	Second character - Voltage:	
	24 VDC	A
	100 VAC	B
	120 VAC	C
	200 VAC	D
	240 VAC	E
	Third character - LED option:	
	Std (black)	0
	LED (white)	1
	Fourth character - Solenoid Size:	
	Saturn Platinum (SP) - not mounted to applicator	S
	Large Saturn CV (1/4 in. NPT)	A
	Small Saturn CV (1/8 in. NPT)	B
	Large Saturn - not mounted to applicator	Y
	Small Saturn - not mounted to applicator	Z

Box 10	Saturn Inline Filters	
	Description	Code
	50-Mesh, Straight	E0
	50-Mesh, No Filter Inlet Fitting	E1
	50-Mesh, 45° Angle	E4
	50-Mesh, 90° Angle	E9
	100-Mesh, Straight	F0
	100-Mesh, No Filter Inlet Fitting	F1
	100-Mesh, 45° Angle	F4
	100-Mesh, 90° Angle	F9
	200-Mesh, Straight	G0
	200-Mesh, No Filter Inlet Fitting	G1
	200-Mesh, 45° Angle	G4
	200-Mesh, 90° Angle	G9

Box 11	Number of Hydraulic Ports	
	Description	Code
	1 Hydraulic Port	1
	3 Hydraulic Ports	3
	5 Hydraulic Ports	5

Insulating Applicator Jackets

Part Number	Description
1065642	Jacket, Applicator, BC, Single, Back, AO/SC*
1066184	Jacket, Applicator, BC, Single, Back, AO/AC*

*For other jackets, contact application engineering.

Select Series™ Applicators

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Web Content



MiniBlue® II Applicator

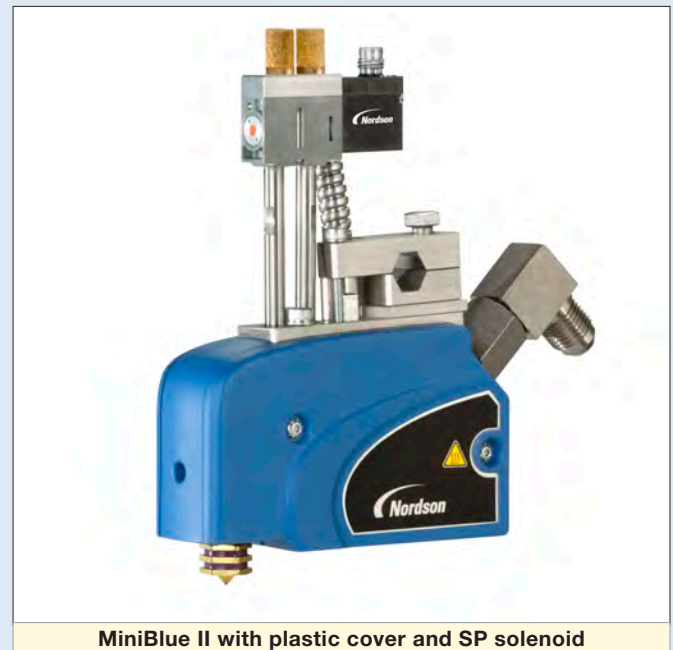
Description

MiniBlue II applicators set the industry standard for service life, speed, reliability, and performance, reducing maintenance and downtime.

Features

- Two interchangeable module technologies are available for MiniBlue II applicators:
 - Enhanced ball-and-seat (BAS) design for excellent cutoff in the MiniBlue II BAS module
 - Patented, self-cleaning, integrated needle and reduced cavity in the MiniBlue II SureBead module
- Both module types incorporate patented Reflex™ seal technology for superior life
- MiniBlue II BAS modules accept easily removable Nordson Saturn nozzles
- MiniBlue II SureBead modules are available in sizes ranging from 0.008 in. to 0.040 in. for maximum application flexibility
- MiniBlue II applicators are available in the following formats:
 - Compact, energy efficient single-module slim line
 - Single module and configurable standard body
 - Direct fit retrofit for Best Choice™ SolidBlue® S and SolidBlue A applicators
 - Multi-module Low-Profile (BAS module only)
- Engineered, high-temperature plastic insulating covers are standard on MiniBlue II slim line applicators All applicators include Saturn® filters
- Water-wash versions are also available

MiniBlue II SureBead modules use only MiniBlue SureBead nozzles.



MiniBlue II with plastic cover and SP solenoid



Watch Video

Benefits

- Module and solenoid combination reduces the performance gap between pneumatic and electric applicators
- Longest operating life of any pneumatic applicator in the packaging industry; reduces replacement frequency and cost
- Fast cycle times and superior high-speed performance
- Stronger air-open/air-close force promotes sharp cutoff, cleaner adhesive patterns and high-speed operation
- Enables savings using intermittent bead dispensing
- Reduces energy use up to 38 percent and improves safety by minimizing exposure to hot surfaces
- Virtually eliminates nozzle clogging, minimizing downtime and maintenance with MiniBlue II SureBead module

MiniBlue® II Applicator

Configuration Code

Use the MiniBlue II configurator to configure a single-module or multi-module applicator with mounted solenoid for a specific application and to obtain a part number and ordering information. The MiniBlue II configurator will also provide dimensions for a specified applicator. Contact a Nordson representative to obtain a copy of the MiniBlue II configurator.

Applicator Model	Module Type	Number of Modules	Voltage	Air Supply Configuration	Cordset Type	Cordset Position	Solenoid Valve Type	Saturn Inline Filters	Number of Hydraulic Ports	Cover	Manifold Style
MB2	BEL	00	A	CA	T	TS	SP	E4	1	000	000
1	2	3	4	5	6	7	8	9	10	11	12

Box 1	Applicator Model	
	Description	Code
	MiniBlue II	MB2

Box 4	Voltage	
	Description	Code
	240 VAC	A
	200 VAC	B

Box 2	Module Type	
	Description	Code
	MiniBlue II Ball-and-Seat	BEL
	SureBead With 0.008 Orifice Nozzle	008
	SureBead With 0.012 Orifice Nozzle	012
	SureBead With 0.016 Orifice Nozzle	016
	SureBead With 0.020 Orifice Nozzle	020
	SureBead With 0.032 Orifice Nozzle	032
	SureBead With 0.040 Orifice Nozzle	040

Box 5	Air Supply Configuration	
	Description	Code
	Common Air	CA
	Independent Air	IA
	Programmed Air	PA

Box 3	Number of Modules	
	Description	Code
	Slimline	00
	Wide Module Applicator With 1 Module	01
	Multi-Module Applicator, With 2-8 Modules	02-08

Box 6	Cordset Type	
	Description	Code
	3000/Blue Series	T
	Water Wash RTD	W
	Freedom Series	F
	Freedom Series, Water Wash	D

MiniBlue® II Applicator

Box 7	Cordset Position	
	Description	Code
	Top Service	TS
	Left Side (configurable applicators only)	LS
	Right Side (configurable applicators only)	RS
	Left Back (configurable applicators only)	LB
	Right Back (configurable applicators only)	RB

Box 8	Solenoid Valve Type	
	Description	Code
	SP (Saturn Platinum)	SP
	SD MiniMac, Line Speeds, 90 m/min (295 ft/min)	SD
	SG (Saturn) 24 VDC, Rev. Function	SG

SD solenoid valves may not be used in common air applicator configurations.

If the production line speed is 90 m/min (295 ft/min) or less, any solenoid valves may be used. If the production line speed is greater than 90 m/min (295 ft/min), only SP solenoid valves may be used.

Box 9	Saturn Inline Filters	
	Description	Code
	50-Mesh, Straight	E0
	50-Mesh, 45° Angle	E4
	50-Mesh, 90° Angle	E9
	100-Mesh, Straight	F0
	100-Mesh, 45° Angle	F4
	100-Mesh, 90° Angle	F9
	200-Mesh, Straight	G0
	200-Mesh, 45° Angle	G4
	200-Mesh, 90° Angle	G9

On slim single-module applicators, the hose connector is located just above the integrated filter. On single- or multi-module configurable applicators, the filter is inline with the hose connector.

Box 10	Number of Hydraulic Ports	
	Description	Code
	One Hose Port Centered On Back.	1
	One Hose Port On Each End And One Centered On Back.	3
	One Hose Port On Each End And Three On Back (one in the center and one at each end)	5

Box 11	Cover	
	Description	Code
	No Cover	000
	Soft Cover	010

Box 12	Manifold Style	
	Description	Code
	Standard MiniBlue	000
	Mounts In Same Location As Best Choice Air-Close Applicator	BCA
	Mounts In Same Location As Best Choice Spring-Close Applicator	BCS

MiniBlue® II Applicator

Specifications

Item	Specification	Note
Operating temperature	190 °C (400 °F) maximum	
System hydraulic pressure	103 bar (1,500 psi) maximum	A
Operating air pressure	3.4–5.5 bar (50–80 psi)	B
Maximum cycle rate	8,000 cycles per minute	
Nozzles	Saturn, single orifice (controlled engagement) nozzles	
Electrical service	240 VAC, 50/60 Hz; 200 VAC, 50/60 Hz optional	
Saturn Solenoid valve power supply	24 VDC, high-temperature, factory installed	
Minimum bead deposition	2 ms (adhesive dependent)	
Adhesive viscosity	500 to 1500 cps optimal 500 to >5000 cps capability	

NOTE A: Recommended range. Dry, regulated, unlubricated air required for consistent applicator operation.
B: System hydraulic pressures are application-dependent. Variables such as the adhesive type and product line speed must be considered when establishing an optimum system hydraulic pressure.

Parts and Accessories

Replacement Modules

Part Number	Description
1095703	Module, MiniBlue II, Ball and Seat
1121479	Module, MiniBlue II, SureBead, 0.20 (0.008) Purple
1121480	Module, MiniBlue II, SureBead, 0.31 (0.012) Green
1121481	Module, MiniBlue II, SureBead, 0.41 (0.016) Orange
1121482	Module, MiniBlue II, SureBead, 0.51 (0.020) Beige
1121483	Module, MiniBlue II, SureBead, 0.81 (0.032) Gold
1121484	Module, MiniBlue II, SureBead, 1.0 (0.040) Turquoise

Nozzles

Part Number	Description
1121473	Kit, nozzle, MiniBlue II, SureBead, 0.008 (Purple)
1121474	Kit, nozzle, MiniBlue II, SureBead, 0.012 (Green)
1121475	Kit, nozzle, MiniBlue II, SureBead, 0.016 (Orange)
1121476	Kit, nozzle, MiniBlue II, SureBead, 0.020 (Beige)
1121477	Kit, nozzle, MiniBlue II, SureBead, 0.032 (Gold)
1121478	Kit, nozzle, MiniBlue II, SureBead, 0.040 (Turquoise)

Heater

Part Number	Description
734013	Heater Cartridge - Slim - 240V
1061561	Heater Cartridge - Slim - 200V

Cordsets

Part Number	Description	Note
1103014	Cordset, MiniBlue II	A, B, C
1124315	Cordset, Miniblue II, Multi, Water Wash	B, C
1103015	Cordset, Miniblue II, Slim, Water Wash	A, C
1121501	Kit, Cordset, Applicator, Freedom	A, B, C
1123116	Kit, Cordset, Applicator, Freedom, WW	B, C
1123115	Kit, Cordset, Applicator, Freedom, WW, Slim	A, C

NOTE A: Used With Slimline Applicators.
B: Used With Standard Applicators.
C: Cordsets include RTDs.

Applicator Insulating Covers

Part Number	Description
1099297	Insulating Jacket MiniBlue Single Module Slim Body
1099298	Insulating Jacket MiniBlue Single Module Wide Body

MiniBlue® II Applicator

Integrated Filters

Part Number	Description
1045502	Filter, 50 Mesh, Saturn, M14, 2 pack
1045506	Filter, 100 Mesh, Saturn, M14, 2 pack
1045520	Filter, 200 Mesh, Saturn, M14, 2 pack
1123661	Kit, Filter, 50 Mesh, Saturn, M14, 5 pack
1123662	Kit, Filter, 100 Mesh, Saturn, M14, 5 pack
1123663	Kit, Filter, 200 Mesh, Saturn, M14, 5 pack

Solenoids

Part Number	Description	Where Used	Notes
1095800	Single-Module Solenoid, Saturn SP (M5 ports)	Used for single module applicators and independent actuation for multi-module applicators	Nordson recommended solenoid for standard stitching applications
1124235	Single-Module Solenoid, Saturn SP waterwash (M5 ports)	Used for single module applicators and independent actuation for multi-module applicators	Nordson waterwash solenoid recommended for standard stitching applications
1123910	Single Module Solenoid, P1 (M5 ports)	Used for single module applicators and independent actuation for multi-module applicators.	High Performance solenoid, recommended for applications that demand the highest level of precision and repeatability
771458	Single-Module Solenoid, SD Mini (M5 ports)	Used for single module applicators and independent actuation for multi-module applicators	Recommended where Compact profile is of the highest importance
1120826	Multi-Module Solenoid, Saturn SP (1/8 in. NPT ports)	Used for common and programmed actuation	High flow SP not recommended for stitching applications
1124238	Multi-Module Solenoid, Saturn SP Waterwash (1/8 In. Npt Ports)	Used for common and programmed actuation	High flow SP for waterwash, not recommended for stitching applications
1069020	Solenoid, Saturn, SG, 24 VDC, Rev. Function	Used for common and programmed actuation	Available as a replacement only for legacy applicators

Solenoid Cables

Part Number	Description	Where Used	Notes
1100687	Cable Assy, Solenoid, M8, 3-Wire, 5 m	Used with SD, SP, and P1	
1100688	Cable Assy, Solenoid, 90 Deg, M8, 3-Wire, 5 m	Used with SD, SP, and P1	
1100958	Cable Assy, Solenoid, M8, 3-Wire, 10 m	Used with SD, SP, and P1	
1100959	Cable Assy, Solenoid, 90 Deg, M8, 3-Wire, 10 m	Used with SD, SP, and P1	
1121990	Kit, Cable, Splitter	Used with SD, SP, and P1	Connects one extension cable to 2 solenoids
1123970	Cable Assy, P1, Suppressed, 2 Pin Socket To M8	Used with P1 ONLY	Limits current to 2A maximum. Connects to standard M8 cable

MiniBlue® II Applicator

Solenoid Hard Tubing Replacement Kits

Part Number	Description	Where Used	Kit contents
Independent Air Kits			
1123003	Kit, Sol Tubing, MB2, M5 X 48	Slim & MBII BCA retrofit applicators with IA	Contains 2 tubes and 2 O-rings
1123004	Kit, Sol Tubing, MB2, M5 X 39	MBII Wide applicators with IA	Contains 2 tubes and 2 O-rings
1123005	Kit, Sol Tubing, MB2, M5 X 75	MBII BCS retrofit applicators with IA	Contains 2 tubes and 2 O-rings
Common and Programmed Air Kits			
1123672	Kit, Sol Tubing, MB2, Wide W/CA/PA SG	Wide body MBII applicator with common or programmed air and SG solenoid	Necessary hard tubing and fittings
1123673	Kit, Sol Tubing, MB2, Wide W/CA/PA SP	Wide body MBII applicator with common or programmed air and SP solenoid	Necessary hard tubing and fittings
1123674	Kit, Sol Tubing, MB2, BCA/BCS W/CA/PA SP	MBII BCA/BCS retrofit applicator with common or programmed air and SP solenoid	Necessary hard tubing and fittings
1123675	Kit, Sol Tubing, MB2, BCS W/CA/PA SP Special	MBII BCS retrofit applicator (only fits 2 module, 22 mm pitch, w/LB or RB cordset position)	Necessary hard tubing and fittings

Solenoid Optional Flexible Tubing Connection Kits

Part Number	Description	Where Used	Kit contents
735375	Kit, Cable, Splitter, Sol, M8, 1M to 2F, 0.3M LG	IA MBII with SP and SD solenoids (incl straight and 90 deg fittings)	Straight fittings + 90 banjo fittings + short gun insert tubes + tubing + springs
735140	Kit, Flex Tubing, MB2 W/CA/PA SP Multi & SG	CA/PA MBII with SP MM and SG solenoids	Pre-assembled, 1/8 NPT + tubing +spring

Note: *If longer tubing is needed, order by meter, 252277.*

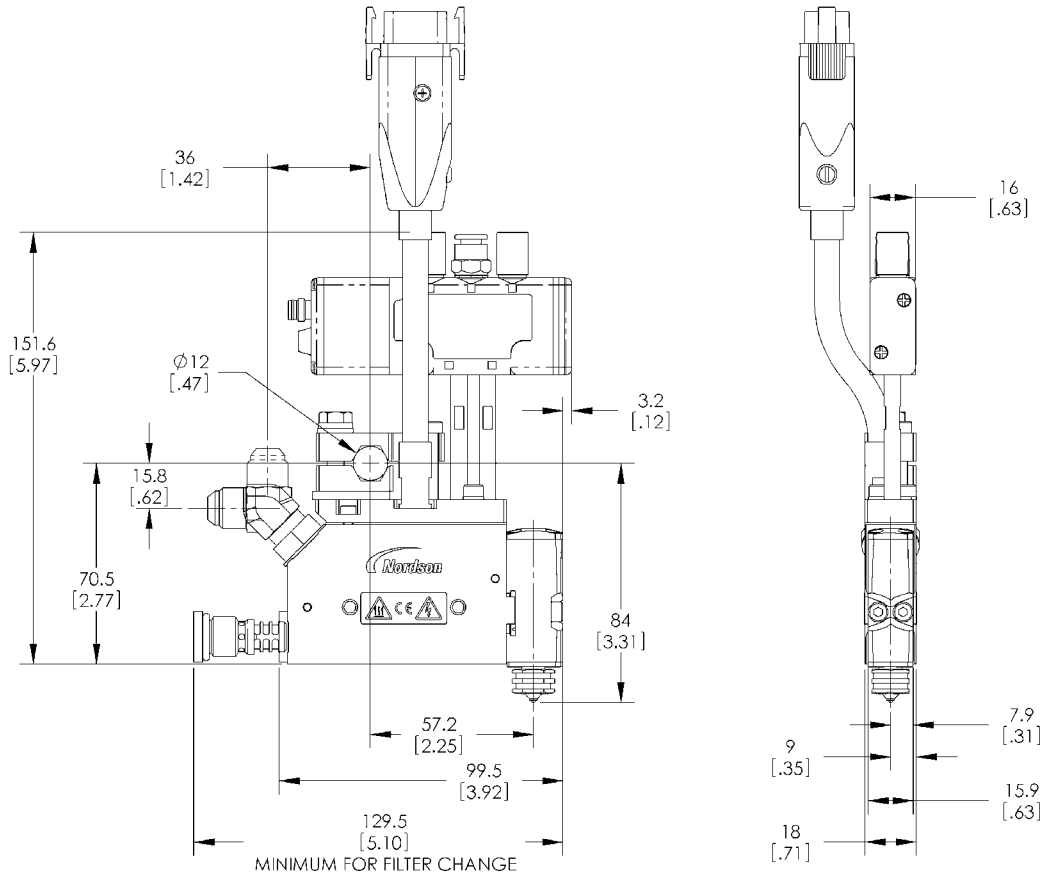
Solenoid Accessories and Spare Parts

Part Number	Description	Where Used	Kit contents
375291	O-ring	SP and SD with M5 ports	
734262	Muffler, M5	SD	
1100452	Muffler, 1/8 in. NPT, Plastic, Compact	SP	
1058058	Muffler, 1/8 in. NPT, Polyethylene	SG	
1106321	Muffler Restrictor Service Kit	SP	Used when ashesvie viscosity is below 700 cps
1082500	Muffler, R1/8	SP	Used when reduced noise is required (<85 dB)
1106320	Applicator Solenoid Field Wireable M8 Female Connector	SP and SD	
1123073	Kit, Replacement Electrical Connect	SP	10 pieces - Solenoid M8 connectors
1122171	Kit, Adapters, Air	SP	Includes fittings to connect 1/4" tubing and 3/8" tubing to solenoid.
1065791	Muffler, M7	P1	
7507003	Fitting, M7 X6 Tube	P1	
1124325	Waterwash Solenoid Accessory Kit	SP Waterwash	Exhaust relocation hardware



MiniBlue® II Applicator

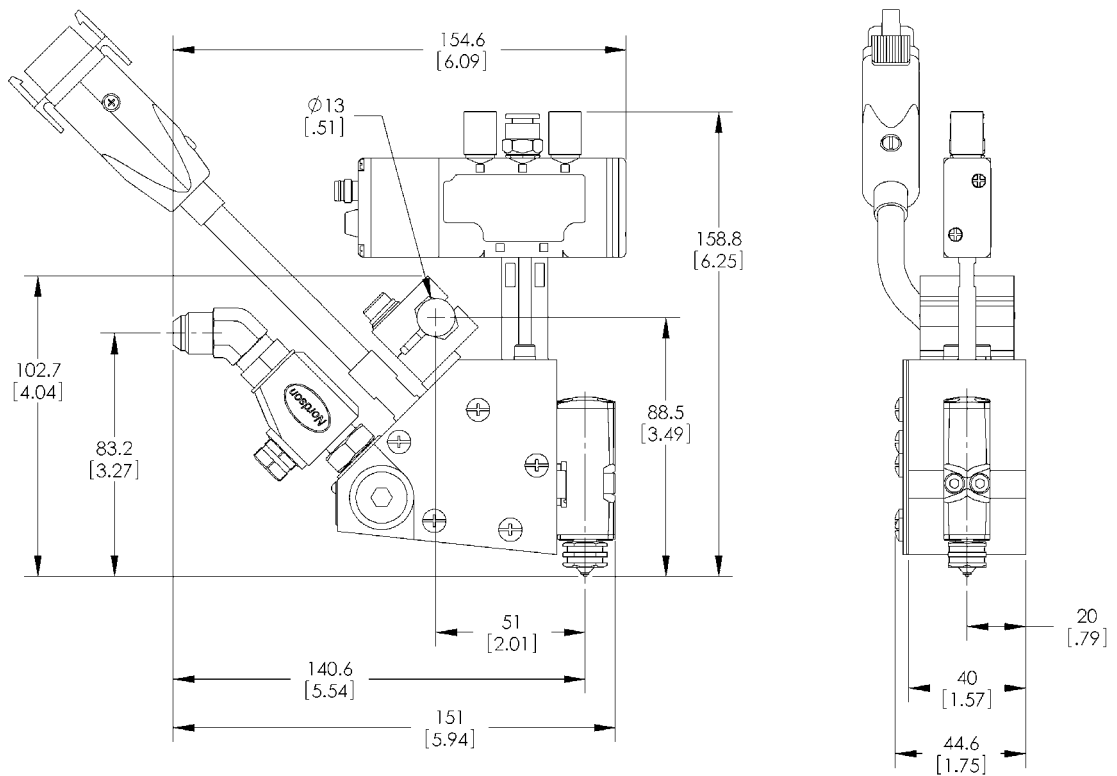
Dimensions



MiniBlue II (Slim) Applicator with Saturn SP Solenoid

MiniBlue® II Applicator

Dimensions *(contd.)*



MiniBlue II (Wide) Applicator with Saturn SP Solenoid

Web Content



MiniBlue® II Low Profile Applicator

Description

Compact hot melt applicators deliver industry-best service life and superior, consistent high-speed performance

MiniBlue II ball-and-seat adhesive applicators provide longer life than any other pneumatic applicators in the packaging industry.

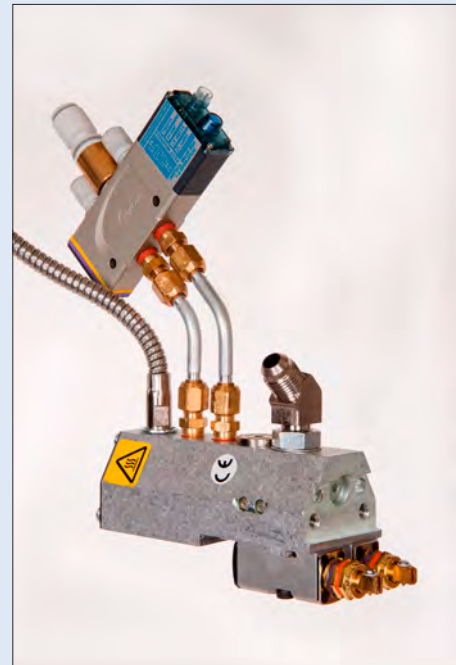
MiniBlue II ball-and-seat Low Profile (LP) applicators allow customers to:

- quickly and easily replace older style low profile applicators and benefit from the industry-leading service life and performance of MiniBlue II applicators.
- enable intermittent adhesive bead dispensing and adhesive savings with easy connection to EcoBead™ Pattern Generator for OptiBond™ solutions.
- minimize maintenance, downtime, replacement parts and inventory costs using long-life MiniBlue II LP applicators.

MiniBlue II LP applicators use standard Saturn Nozzles.

Features

- MiniBlue II ball-and-seat module
- Integrated Saturn filter
- New Multi-module Saturn Platinum (SP) Solenoid



MiniBlue II Low Profile with SP solenoid

MiniBlue® II Low Profile Applicator

MiniBlue II LP Applicators

Part Number	Description	No. Modules	Spacing Inches	Volts	Cord-set	Filter	Solenoid
1120413	MB2-BEL-LP-02ACA-022-T-F41	2	0.88	240	T	100 mesh	Saturn Platinum 24 VDC
1120648	MB2-BEL-LP-02ACA-022-W-F41	2		240	W		
1120649	MB2-BEL-LP-02BCA-022-T-F41	2		200	T		
1120714	MB2-BEL-LP-02BCA-022-W-F41	2		200	W		
1120414	MB2-BEL-LP-04ACA-022-T-F41	4	0.88	240	T	100 mesh	Saturn Platinum 24 VDC
1120715	MB2-BEL-LP-04ACA-022-W-F41	4		240	W		
1120716	MB2-BEL-LP-04BCA-022-T-F41	4		200	T		
1120717	MB2-BEL-LP-04BCA-022-W-F41	4		200	W		

MiniBlue II LP Applicators - Freedom

Part Number	Description	No. Modules	Spacing Inches	Volts	Cord-set	Filter	Solenoid
1121728	MB2-BEL-LP-02ACA-022-F-F41	2	0.88	240	F	100 mesh	Saturn Platinum 24 VDC
1122120	MB2-BEL-LP-02ACA-022-D-F41	2		240	D		
1121730	MB2-BEL-LP-02BCA-022-F-F41	2		200	F		
1122122	MB2-BEL-LP-02BCA-022-D-F41	2		200	D		
1121729	MB2-BEL-LP-04ACA-022-F-F41	4	0.88	240	F	100 mesh	Saturn Platinum 24 VDC
1122121	MB2-BEL-LP-04ACA-022-D-F41	4		240	D		
1121731	MB2-BEL-LP-04BCA-022-F-F41	4		200	F		
1122123	MB2-BEL-LP-04BCA-022-D-F41	4		200	D		

Parts and Accessories

Replacement Module

Part Number	Description
1095703	Module, MiniBlue II, Ball and Seat

Heaters

Part Number	Description
938149	Htr Cart, .25D x 2.75LG, 100W,240V, 2 Module
938150	Htr Cart, .25D x 2.75LG, 100W,200V, 2 Module
938151	Htr Cart, .375D x 2.5LG, 100W,200V, 4 Module
938152	Htr Cart, .375D x 2.5LG, 100W,240V, 4 Module

Cordsets

Part Number	Description
1103014	Cordset, MiniBlue II
1124315	Cordset, MiniBlue II, Multi, Water Wash
1121501	Kit, Cordset, Applicator, Freedom
1123116	Kit, Cordset, Applicator, Freedom, Water Wash

Cordsets include RTDs.

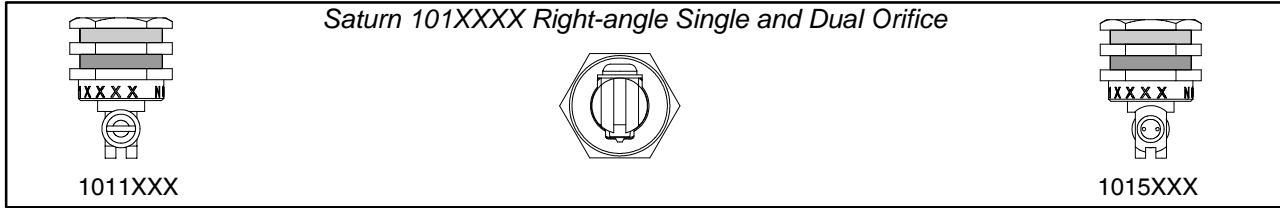
Integrated Filters

Part Number	Description
1045502	Filter, 50 Mesh, Saturn, M14, 2 pack
1045506	Filter, 100 Mesh, Saturn, M14, 2 pack
1045520	Filter, 200 Mesh, Saturn, M14, 2 pack
1123661	Kit, Filter, 50 Mesh, Saturn, M14, 5 pack
1123662	Kit, Filter, 100 Mesh, Saturn, M14, 5 pack
1123663	Kit, Filter, 200 Mesh, Saturn, M14, 5 pack



MiniBlue® II Low Profile Applicator

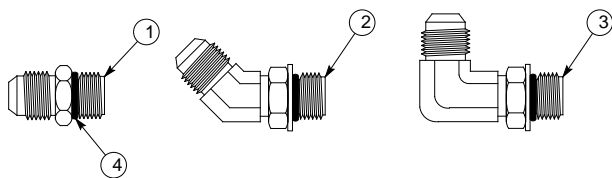
Nozzles



	Nozzle Angle	Orifice Diameter mm (in.) Bottom Ring										
		0.20 (0.008) Purple	0.25 (0.010) Blue	0.31 (0.012) Green	0.36 (0.014) Yellow	0.41 (0.016) Orange	0.46 (0.018) Red	0.51 (0.020) Beige	0.61 (0.024) Gray	0.71 (0.032) Black	0.81 (0.032) Gold	1.02 (0.040) Turquoise
Brass Adapter, Stainless Steel Insert	Single 90° Purple	1011008	1011010	1011012	1011014	1011016	1011018	1011020	1011024	1011028	1011032	1011040
	Dual 15° Brown			1015812	1015814	1015816	1015818	1015820	1015824	1015828		
	Dual 30° Blue			1015912	1015914	1015916	1015918	1015920	1015924	1015928		

Applicator-to-Hose Connectors

Applicator-to-hose connectors are installed between the applicator and hose to ease hose routing and to help prevent bending or pinching of the hose.

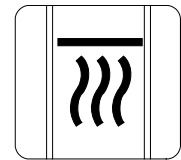


Item	Part Number	Description	Note
1	972657	Connector, Hose, With O-ring, Straight	A
2	274179	Connector, Hose, With O-ring, 45°	
3	274180	Connector, Hose, With O-ring, 90°	
4	945032	• O-ring, Viton, 3/8 in. Tube	B

NOTE A: All applicators are shipped with this straight hose connector pre-installed on the applicator.
 B: This is the replacement O-ring for all hose connectors.

Insulating Cuffs

Insulating cuffs are used to insulate hose-to-applicator joints.



Part Number	Description
273634	Cuff, Insulating, 64 mm (2.5 in.)
273635	Cuff, Insulating, 50 mm (2.0 in.)
274429	Cuff, insulating, 44 mm (1.75 in.)

MiniBlue® II Low Profile Applicator

Solenoid

Part Number	Description	Where Used	Notes
1120826	Multi-Module Solenoid, Saturn SP (1/8 in. NPT ports)	Used for common and programmed actuation	High flow SP, not recommended for stitching.

Solenoid Cabling

Part Number	Description	Notes
1100687	Cable Assy, Solenoid, M8, 3-Wire, 5 m	
1100688	Cable Assy, Solenoid, 90 Deg, M8, 3-Wire, 5 m	
1100958	Cable Assy, Solenoid, M8, 3-Wire, 10 m	
1100959	Cable Assy, Solenoid, 90 Deg, M8, 3-Wire, 10 m	
1121990	Kit, Cable, Splitter	Connects one extension cable to 2 solenoids

Solenoid Hard Tubing Replacement

Part Number	Description
1120832	Tube, Long, 6MM OD, MB2 LP
1120833	Tube, Short, 6MM OD, MB2 LP

Solenoid Optional Flexible Tubing Connection Kits

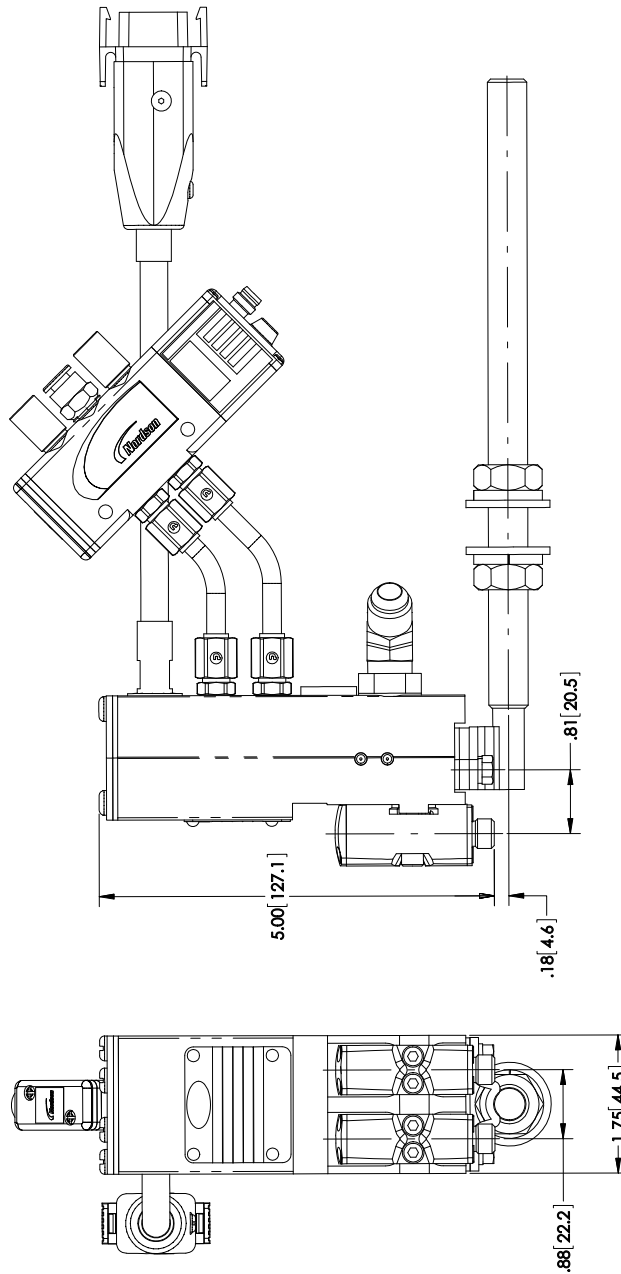
Part Number	Description	Where Used	Kit contents
1123490	Kit, Flex Tubing, MB2 LP W/SP Multi, 90 Deg.	MBII LP, one 90 deg. one straight fitting	flexible kit with 90 deg legris 1065962, straight legris, and 6mm PTFE tubing
1120831	Kit, Flex Tubing, MB2 LP W/SP Multi, Straight	MBII LP, straight fittings	LP remote mount, 1/4 tube OD x 1/8 NPT, both straight, one high temp, one std., PTFE tubing

SP Solenoid Accessories and Spare Parts

Part Number	Description	Notes
1100452	Muffler, 1/8 in. NPT, Plastic, Compact	
1106321	Muffler Restrictor Service Kit	Used when ashesvie viscosity is below 700 cps
1082500	Muffler, R1/8	Used when reduced noise is required (<85 dB)
1106320	Applicator Solenoid Field Wireable M8 Female Connector	
1123073	Kit, Repl Electrical Connect	10 pieces - Solenoid M8 connectors

MiniBlue® II Low Profile Applicator

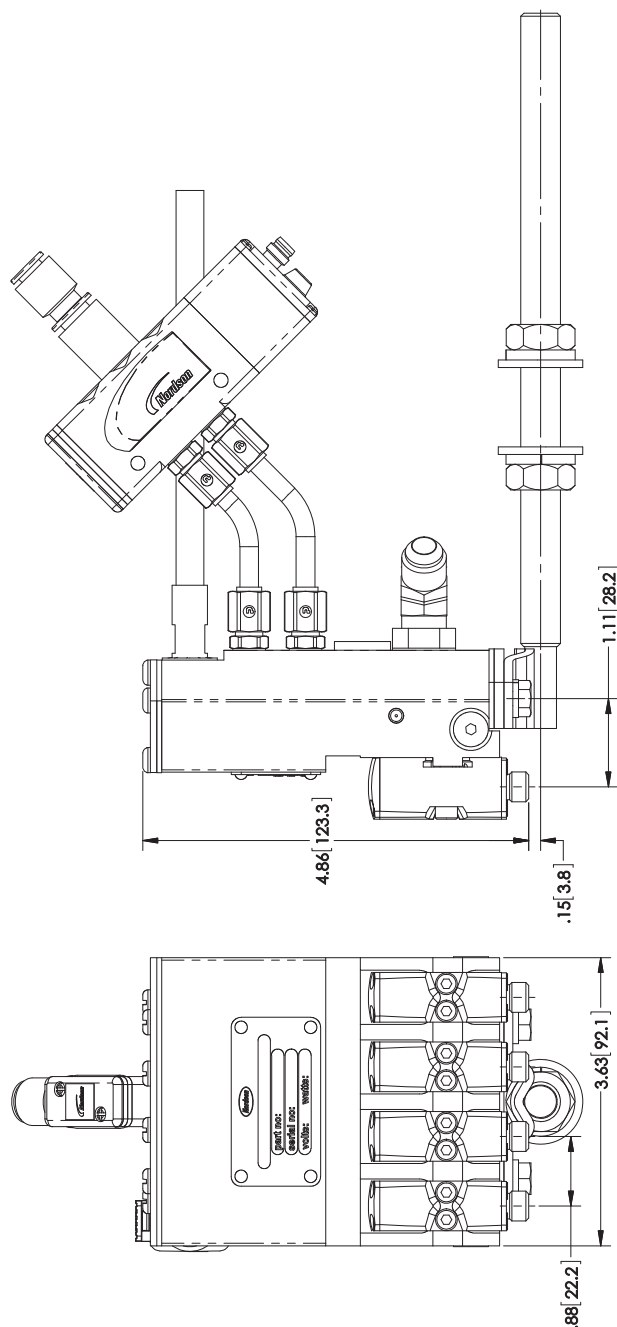
Dimensions



MiniBlue II Low Profile - 2 module configuration

MiniBlue[®] II Low Profile Applicator

Dimensions *(contd.)*



MiniBlue II Low Profile - 4 module configuration

Web Content



EcoBead™ Pattern Generator

For use with MiniBlue II Applicators

Description

Economical and easy to use, the EcoBead pattern generator lets you apply short, intermittent beads in place of long continuous beads by enabling your parent machine controls. The need to reprogram your PLC or add a conventional pattern controller is eliminated.

The EcoBead device is easy to install and connects directly to a Saturn® Platinum (SP or P1) solenoid valve that provides air to a MiniBlue II adhesive applicator.

Adhesive savings ranging from 30- to over 50-percent are common. Your savings will depend on your application.

Features

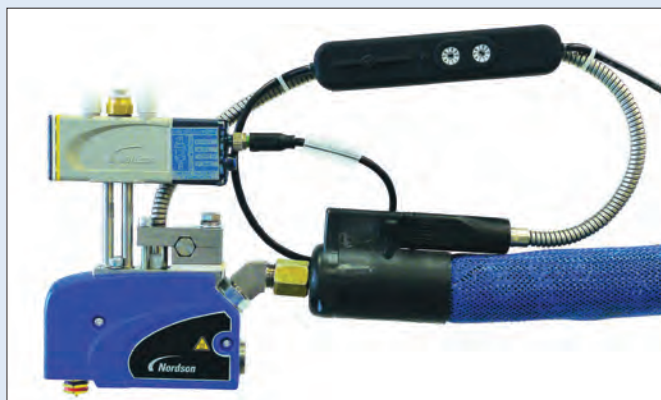
- Quickly enables intermittent adhesive bead dispensing in current operations
- Easy in-line installation
- Automatically adjusts to line speed changes
- Optional USB programming module for customized patterns
- No-tool installation. Programs set with a common screwdriver
- IP 55 rated
- Multi-colored status LEDs
- Protective covers for programming switches
- Needs no external power supply, encoder, trigger device or line- speed sensor

Benefits

- Compatible with existing 24-volt control architectures
- No costly PLC or controller program changes required
- Assures programmed savings over a wide production range
- Flexibility to meet a wide variety of requirements
- Fast pattern and bead changes. Easy adjustments for adhesive optimization
- Withstands demanding environments
- Monitor performance at a glance
- Prevents unauthorized changes or tampering
- Lowest cost solution for intermittent bead dispensing



EcoBead Pattern Generator



EcoBead Pattern Generator - Installed on MiniBlue II (shown for illustration purposes only)



Watch Video

Part Number

Part Number	Description
1121012	Cover

EcoBead™ Pattern Generator

For use with MiniBlue II Applicators

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Web Content



MiniBlue® Hot Melt Applicators

RC Type Modules

Description

Nordson MiniBlue applicators are ideal for applications with close flap compression sections. Close multi-module centerlines as small as 16 mm (0.63 in.) extend mounting and pattern flexibility in confined spaces. Single module MiniBlue applicators offer an 18 mm (0.71 in.) wide manifold.

Compact and configurable, Nordson MiniBlue applicators are available with a choice of ball and seat or reduced cavity applicator modules.

Two spring-loaded seals extend module operating life and reduce air section failure. These long-life hydraulic seals help improve durability and minimize maintenance and downtime.

MiniBlue modules feature air-open/air-close (AO/AC) actuation, providing a strong closing force to minimize adhesive stringing, especially with aggressive and pressure sensitive adhesives.

MiniBlue applicators feature Nordson's EasyOn design, which provides:

- Guided, one-way fit (mated module and applicator body surfaces)
- Easier, safer installation (especially on applicator bodies located deep within machines)
- Modules fit existing Nordson applicator bodies (backward compatibility).
- Fixed reduced cavity or removable Saturn nozzles offer greater application flexibility.
- MiniBlue applicators are compact and configurable for applications with close flap compression sections.
- The MiniBlue configurator CD tool can design applicators from immediate input and can provide customers with immediate product drawings.



MiniBlue Applicator

Features

- MiniBlue Modules fit existing Nordson H-100 or Mini100 applicator bodies.
- Integral 50-mesh filter prevents clogging
- Factory-set stroke and spring-loaded seals provide pattern consistency and extend service life.
- RTD sensors combined with solid-state proportional °C (1 °F) of setpoint, controls hold to within ± 0.5 improving bead uniformity.
- Quick-disconnect electrical plugs speed installation and maintenance.
- Advanced components and design techniques provide compliance with worldwide approval codes.

NOTE: For BAS (Ball and Seat) version of this applicator, use MiniBlue II Applicator.

MiniBlue® Hot Melt Applicators

RC Type Modules

Configuration Code

Use the MiniBlue configurator to configure a single-module or multi-module applicator with mounted solenoid for a specific application and to obtain a part number and ordering information. The MiniBlue configurator will also provide dimensions for a specified applicator. Contact a Nordson representative or visit <https://ppa.nordson.com> to obtain a copy of the MiniBlue configurator.

Applicator Model	Module Type	Number of Modules	Cordset	Cordset Position	Air Type	Saturn Inline Filters	Additional Hose Ports	Solenoid Valve Type	Voltage	Programmed Air Groups
MiB	R16	03	T	LS	CA	F0	3	SG	A	00
1	2	3	4	5	6	7	8	9	10	11

Box 1	Applicator Model	
	Description	Code
	MiniBlue	MiB

Box 4	Cordset	
	Description	Code
	Standard RTD	T
	Water wash RTD	W

Box 2	Module Type	
	Description	Code
	Reduced cavity, 0.20 mm (0.008 in.)	R08
	Reduced cavity, 0.30 mm (0.012 in.)	R12
	Reduced cavity, 0.41 mm (0.016 in.)	R16
	Reduced cavity, 0.51 mm (0.020 in.)	R20

Box 5	Cordset Position	
	Description	Code
	Slim single-module applicator	TS
	Left side (configurable applicators only)	LS
	Right side (configurable applicators only)	RS
	Left back (configurable applicators only)	LB
	Right back (configurable applicators only)	RB

Box 3	Number of Modules	
	Description	Code
	Slim single-module applicator (18 mm [0.71 in.]), 1 module	00
	Configurable single-module applicator (40 mm [1.47 in.]), 1 module	01
	Configurable multi-module applicator, 2–8 modules	02–08

Box 6	Air Type	
	Description	Code
	Common air	CA
	Independent air	IA
	Programmed air	PA

NOTE: Use MiniBlue II Configurator for BAS Applicator.



Box 7 Saturn Inline Filters	
Description	Code
50-mesh, straight	E0
50-mesh, 45° angle	E4
50-mesh, 90° angle	E9
100-mesh, straight	F0
100-mesh, 45° angle	F4
100-mesh, 90° angle	F9
200-mesh, straight	G0
200-mesh, 45° angle	G4
200-mesh, 90° angle	G9

On slim single-module applicators, the hose connector is located just above the integrated filter. On single- or multimodule configurable applicators, the filter is inline with the hose connector.

Box 8 Additional Hose Ports (all applicators have three hose ports)	
Description	Code
One hose port on each end and one centered on back.	3
One hose port on each end and three on back (one in the center and one at each end)	5

Box 9 Solenoid Valve Type	
Description	Code
SD (small) Line speeds 90 m/min (295 ft/min)	SD
SG (Saturn) All line speeds	SG

SD solenoid valves may not be used in common air applicator configurations.

If the production line speed is 90 m/min (295 ft/min) or less, either SD or SG solenoid valves may be used. If the production line speed is greater than 90 m/min (295 ft/min), only SG solenoid valves may be used.

Box 10 Voltage	
Description	Code
230 VAC	A
200 VAC	B

Box 11 Programmed Air Groups	
Description	Code
Programmed air (two module groups only)	PA
200 VAC	B

MiniBlue[®] Hot Melt Applicators

RC Type Modules

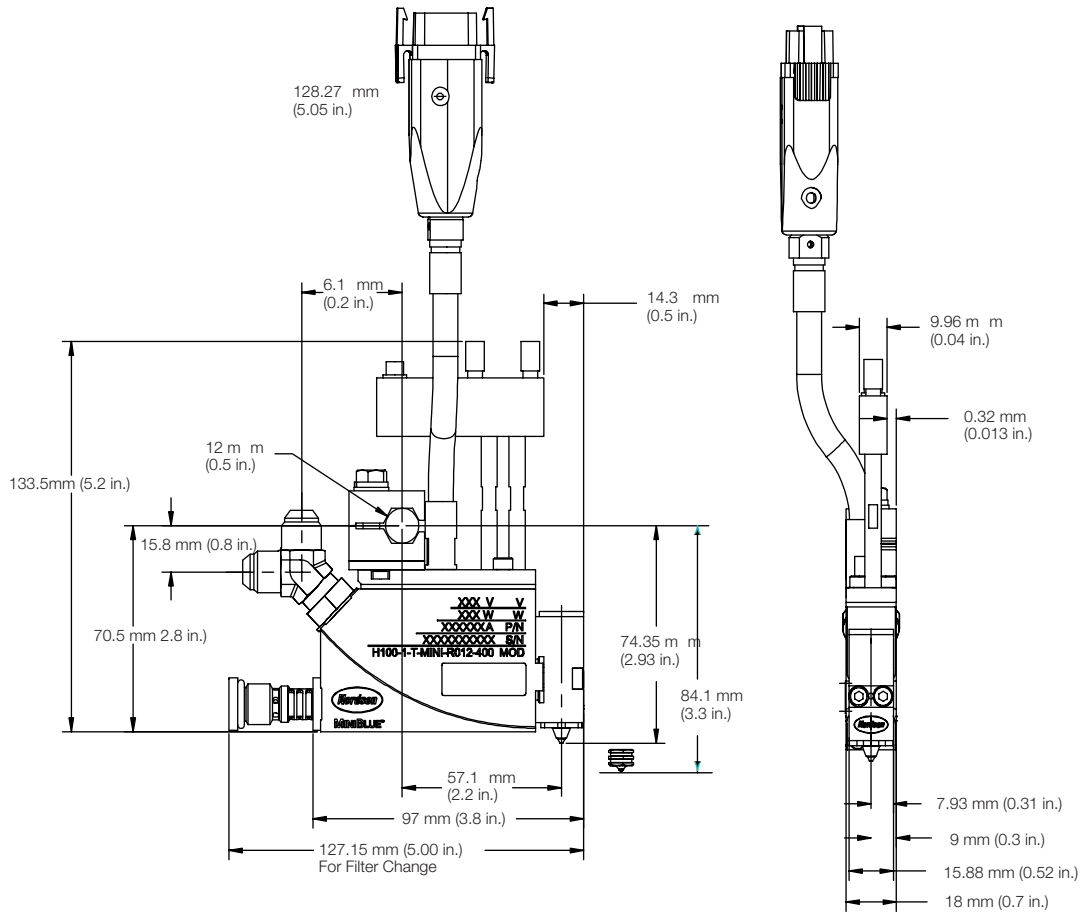
Specifications

Item	Specification	Note
Operating temperature	204 °C (400 °F) maximum	
System hydraulic pressure	103 bar (1,500 psi) maximum	A,B
Operating air pressure	3.4–5.5 bar (50–80 psi) 5 bar (73 psi) optimal	C
Operating speed	Exceeds 4,200 cycles per minute	
Nozzles	0.20, 0.30, 0.41, and 0.51 mm (0.008, 0.012, 0.016, and 0.020 in.) reduced-cavity modules; all Saturn nozzles	D
Electrical service	240 VAC, 50/60 Hz; 200 VAC, 50/60 Hz	
Solenoid valve power supply	24 VDC only	E
<p>Note: A. MiniBlue applicator modules operate as air-open, air-close valves. The loss or elimination of air pressure to the applicator solenoid valve without a corresponding reduction in system hydraulic pressure may cause the applicator modules to remain open.</p> <p>B. System hydraulic pressures are application-dependent. Variables such as the adhesive type and product line speed must be considered when establishing an optimum system hydraulic pressure.</p> <p>C. Use dry, regulated, unlubricated air for consistent applicator operation.</p> <p>D. On reduced-cavity applicators, the nozzle is an integral part of the applicator module. E: Contact Nordson for information regarding an alternate power supply.</p>		

Replacement Modules

Part Number	Description
1099967	Module replacement kit, .008RC
1099969	Module replacement kit, .012RC
1099970	Module replacement kit, .016RC
1099971	Module replacement kit, .020RC

Dimensions

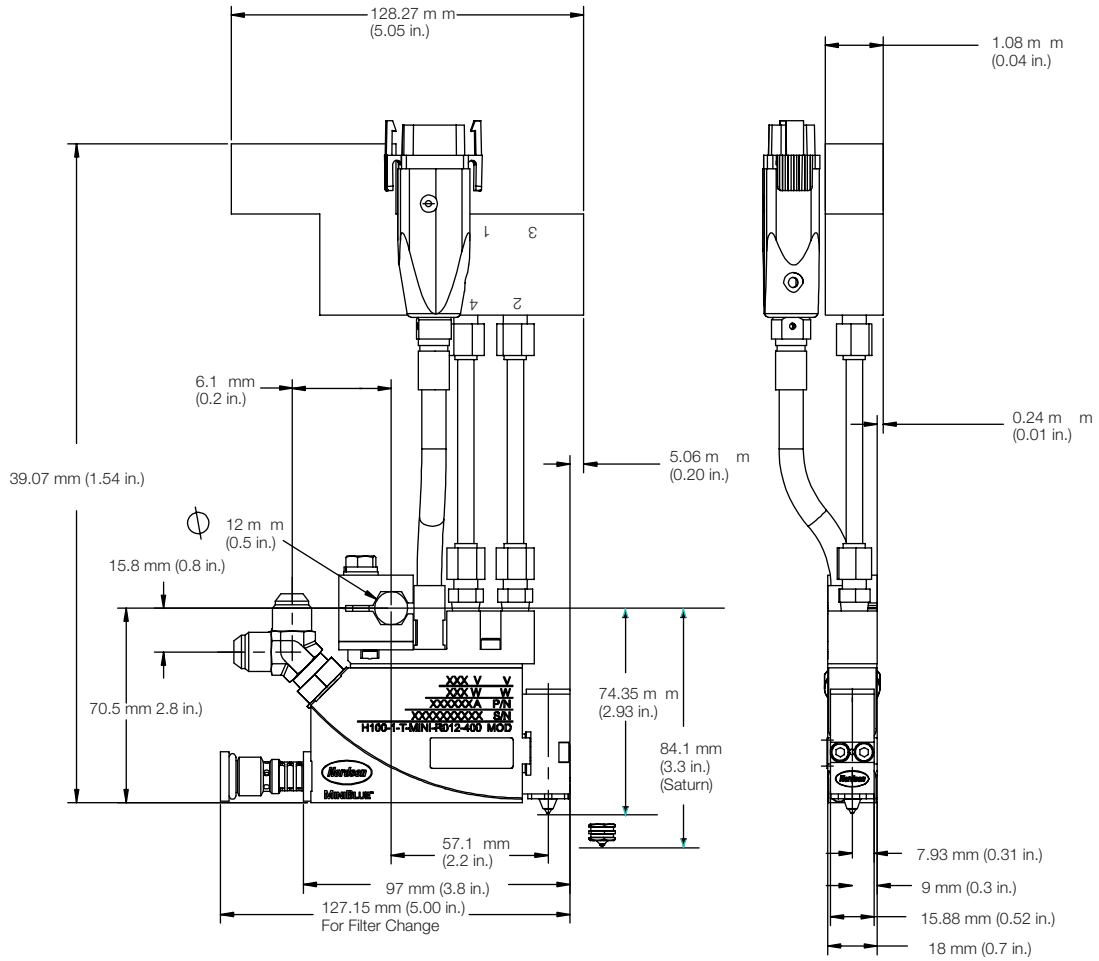


Slim, single-module applicator with SD solenoid valve

MiniBlue[®] Hot Melt Applicators

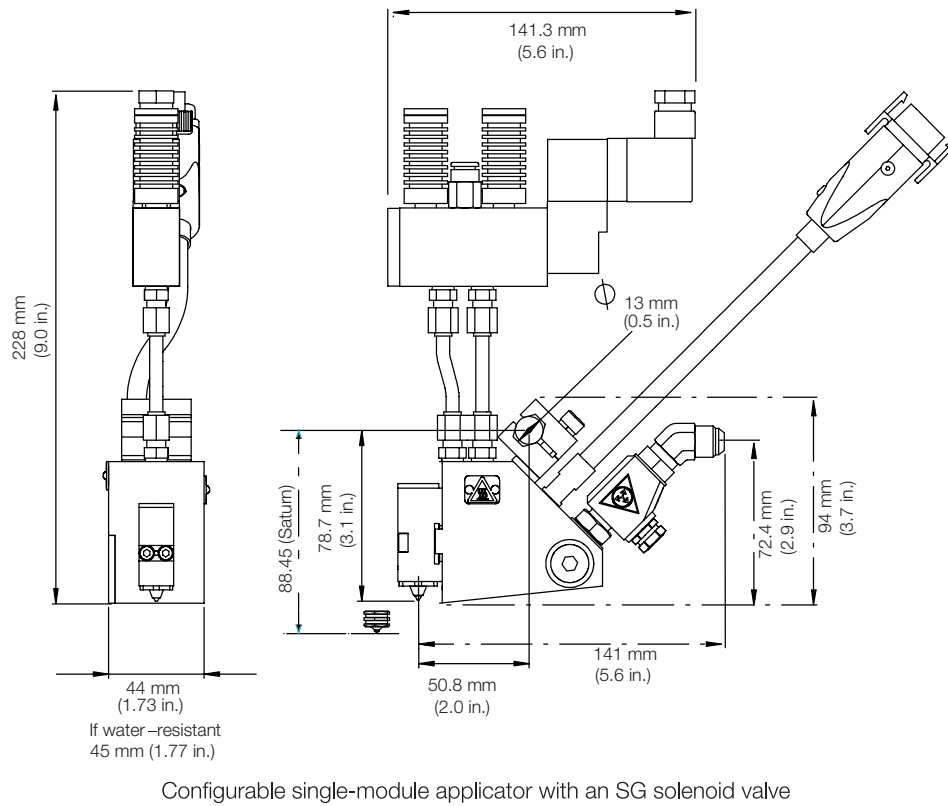
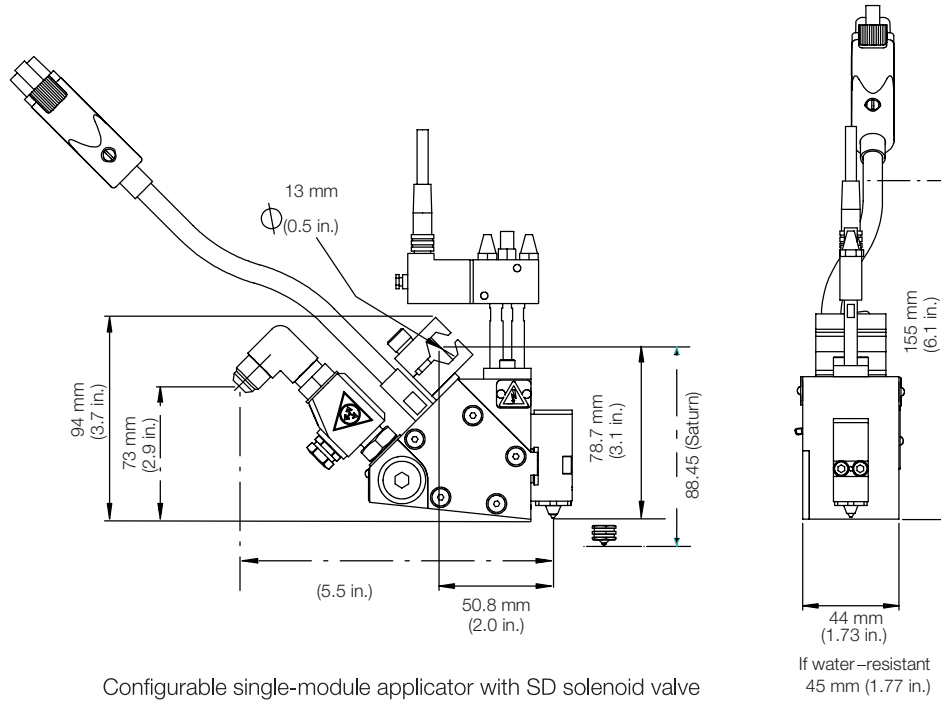
RC Type Modules

Dimensions (contd.)



Slim, single-module applicator with SG solenoid valve

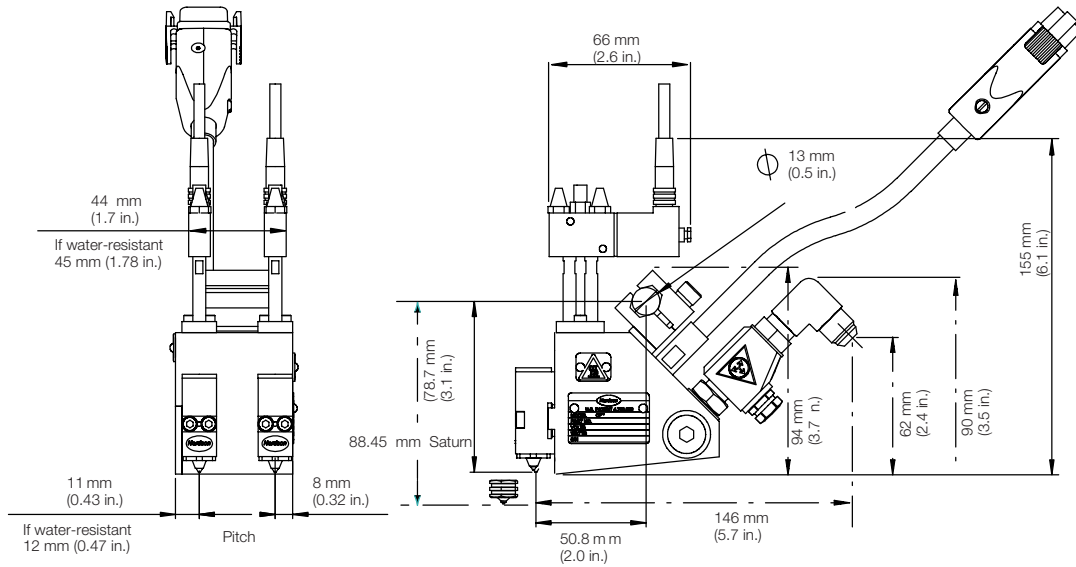
Dimensions (contd.)



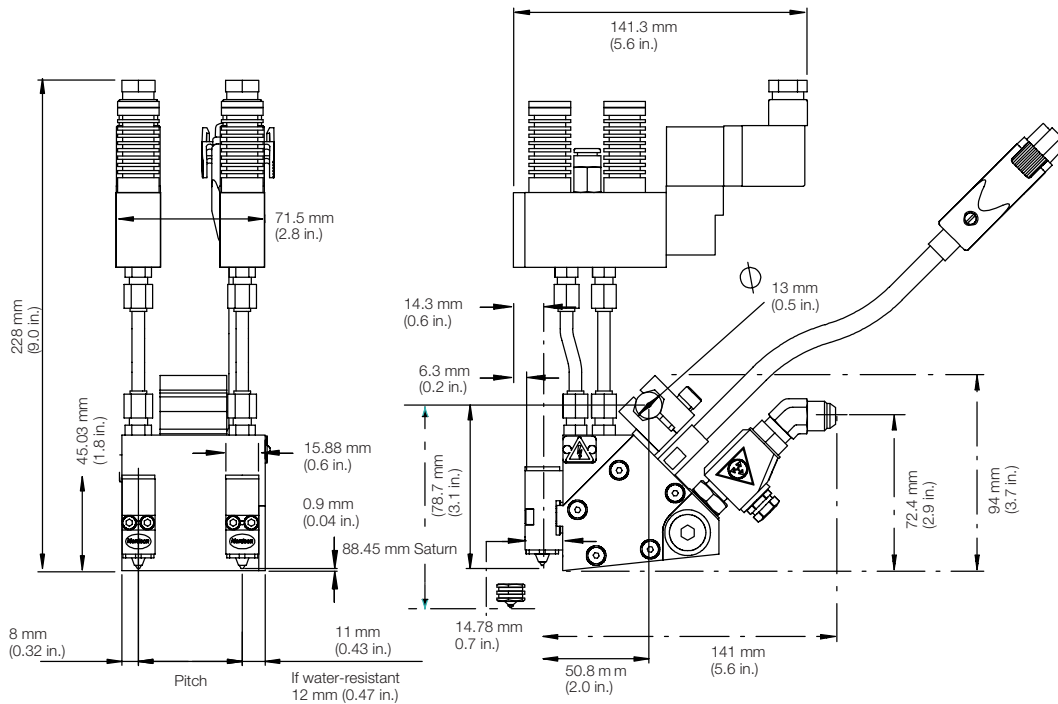
MiniBlue[®] Hot Melt Applicators

RC Type Modules

Dimensions (contd.)



Configurable multi-module applicator with an SD solenoid valve



Configurable multi-module applicator with SG solenoid valve



Web Content



PatternPro™ Variable Pitch Dispensing Applicator

Description

The PatternPro applicator features a rotating disk design, which allows you to rotate the modules on the applicator body, easily creating new patterns and dramatically reducing downtime during product changeover.

A series of O-rings and separate air and hydraulic passages allow the disk and applicator module to pivot on their axes while adhesive and air flow uninterrupted to the modules.

A small work envelope allows the PatternPro applicator to fit into tight parent machine constraints, where standard multi-module applicators will not.

PatternPro applicators are available with reliable Nordson air-open/spring-close SolidBlue S Series modules. Special applicators can be ordered for use with MiniBlue II (BAS or SB), ClassicBlue zero cavity or SureBead S reduced cavity modules.

Closer bead-to-bead positioning permits more flexibility than stacked module applicators. Bead repositioning can be accomplished without moving the entire applicator.

Features

- Provides close bead-to-bead spacing.
- Speed pattern changes during product changeover reducing downtime.
- A variety of modules are available for use to address different applications.
- Unique rotating disk design allows modules to pivot without adhesive leakage.
- Standard 40 mm (1.58 in.) and 70 mm (2.76 in.) module pitch applicators cover most traymaking, cartoning and wrap-around carton sealing applications.

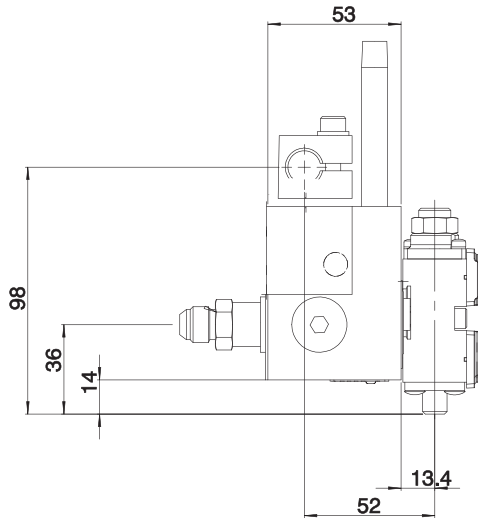
This is a configurable product. Contact your Nordson representative for additional information.



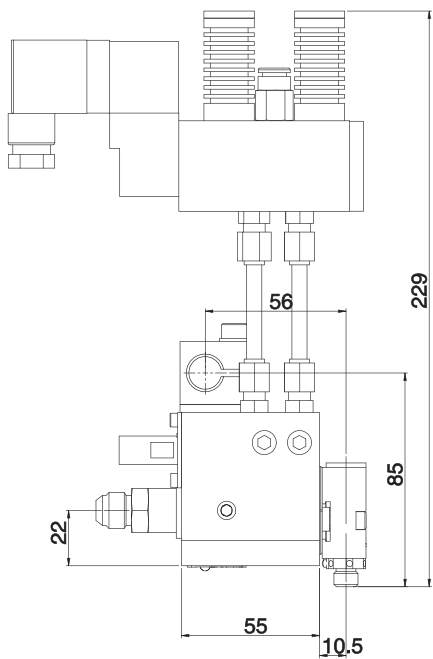
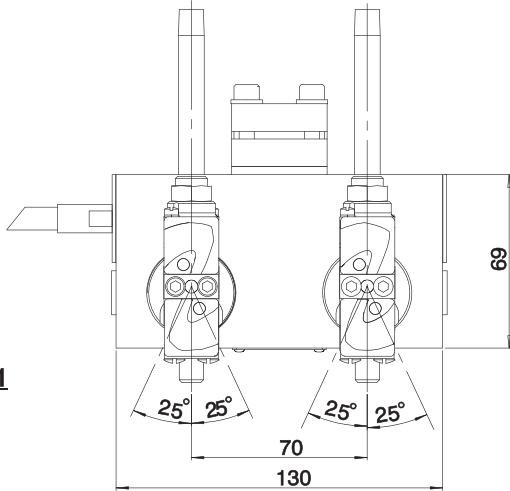
PatternPro Applicator

PatternPro™ Variable Pitch Dispensing Applicator

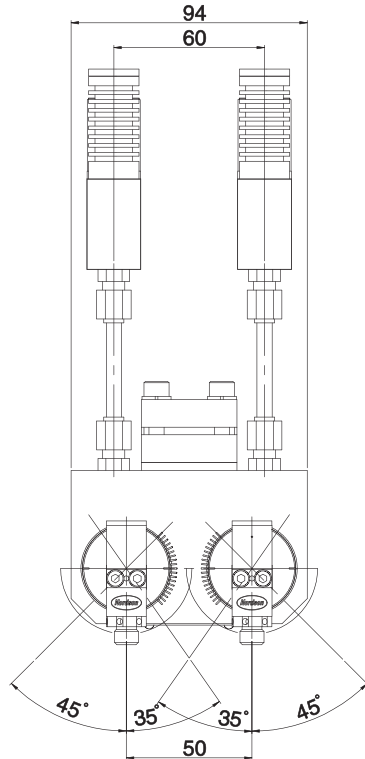
Dimensions - Select Models



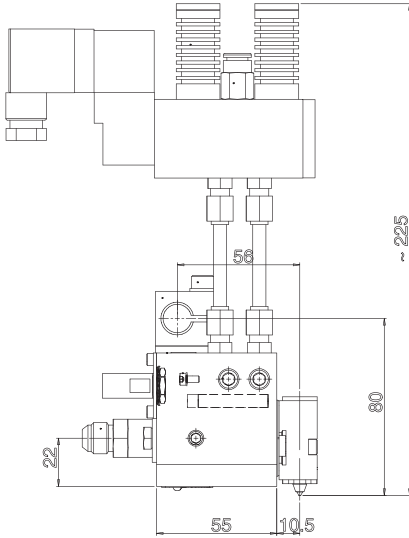
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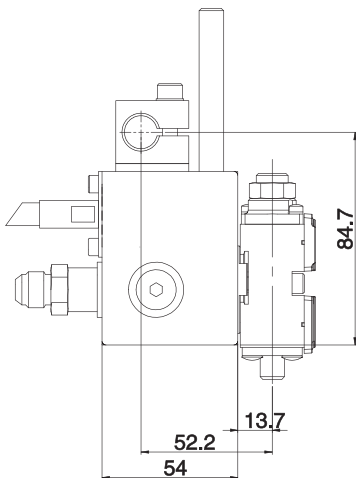
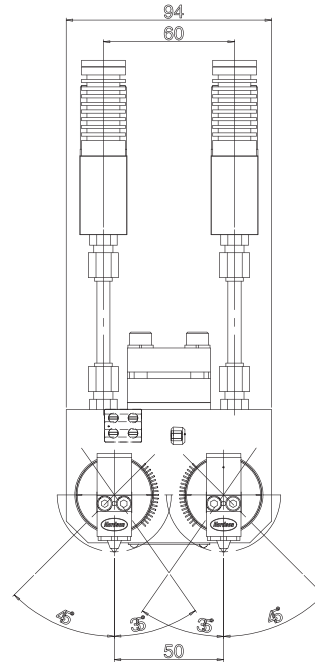
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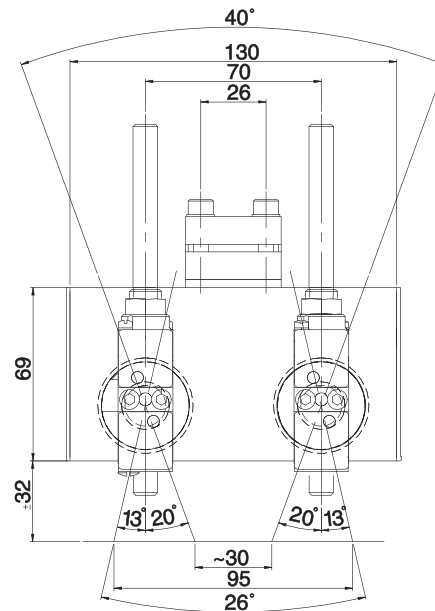
PatternPro™ Variable Pitch Dispensing Applicator



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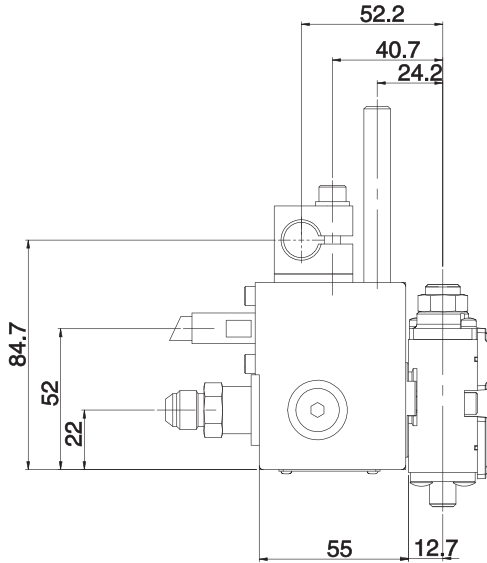


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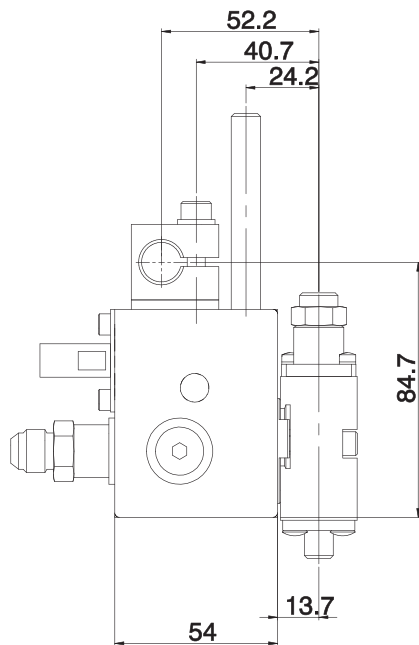
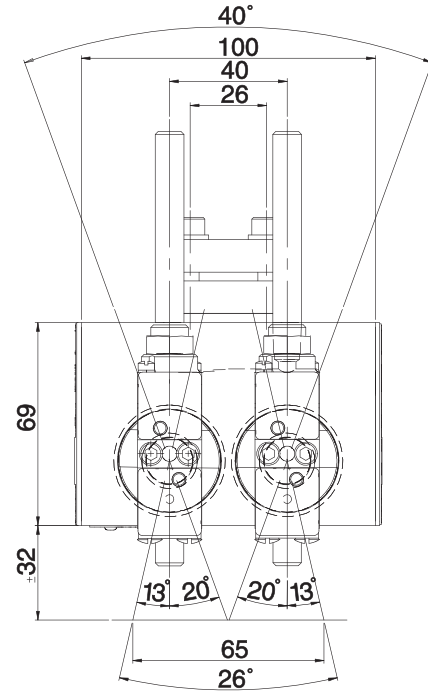


PatternPro™ Variable Pitch Dispensing Applicator

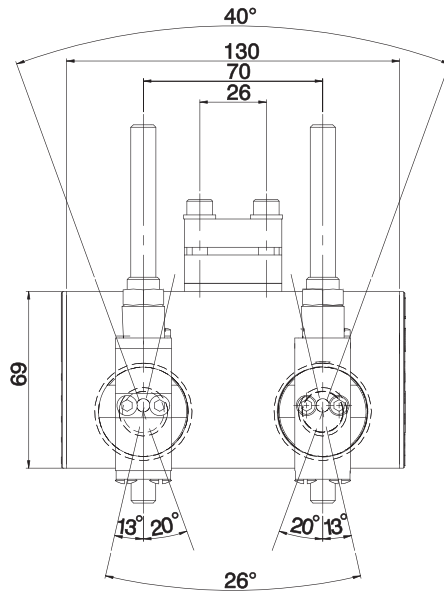
Dimensions - Select Models *(contd.)*



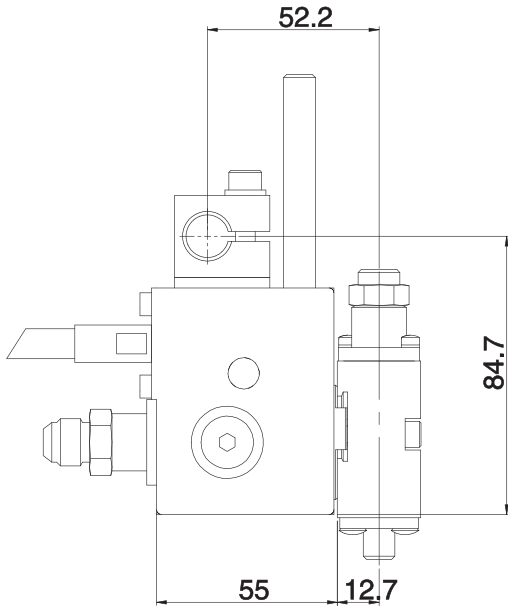
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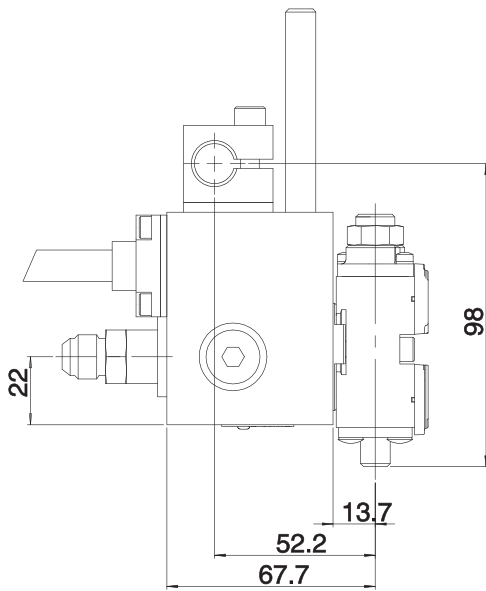
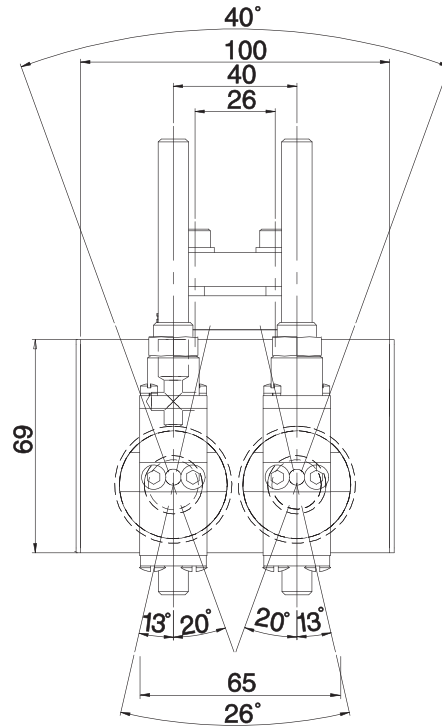
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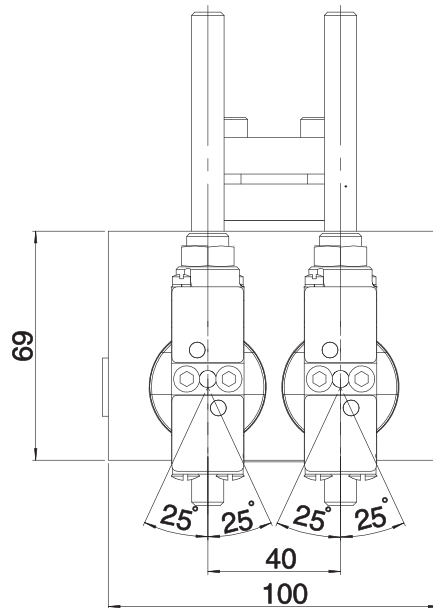
PatternPro™ Variable Pitch Dispensing Applicator



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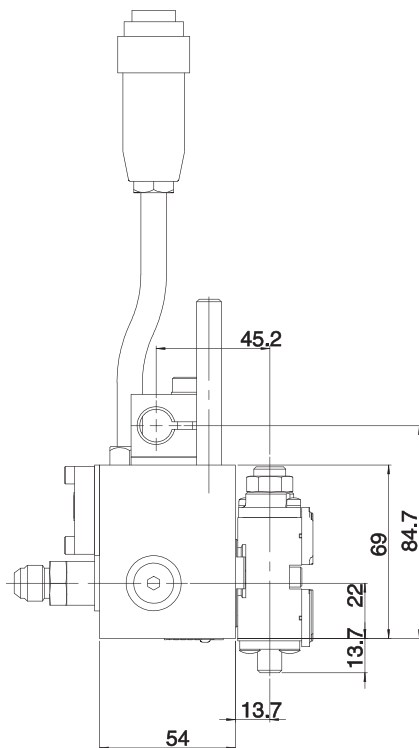


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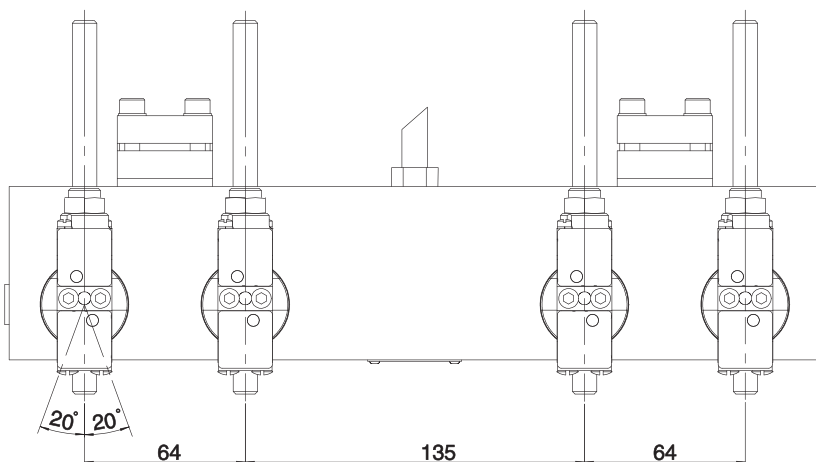


PatternPro™ Variable Pitch Dispensing Applicator

Dimensions - Select Models *(contd.)*



731690



Web Content



Series H-20 Hot Melt Applicators

Description

Series H-20 Automatic Hot Melt Applicators provide consistent bead deposition in high-flow, intermittent applications using high-viscosity hot melts and other filled thermoplastic materials. Several different applicator configurations are available to satisfy individual case sealing and product assembly requirements.

- Longer life cartridge design improves service life.
- Air-open spring-close design provides speeds that exceed 4,200 cycles per minute and ensures consistent performance and reliability.
- Applicators are available with RTD sensors for precise temperature sensing and control of applicator temperatures to within ± 0.5 °C (1 °F) of setpoint.
- Both standard and large ball-and-seat designs offer high-flow capability.
- Choice of controlled-engagement single-orifice nozzles, precision multi-orifice nozzles and extended nozzle assemblies provides pattern versatility.
- Applicators are available with water-resistant design, integral-filtered bodies, nozzle extension assemblies, variable temperature controls and integral slot nozzles.

Standard H-20

- High-flow versatility and the largest nozzle
- Selection of any applicator design.

H-20 Large Ball and Seat

- Large ball-and-seat design (LBS) features large bore fittings and a larger ball-and-seat for handling high-viscosity or filled materials. Ideal for drum melters, the H-20 LBS accommodates 5/16 and 5/8 in. hose diameters.



**H-20 Pneumatic
Applicator & Module**

Micro-Adjust H-20

- Built-in heated filter removes char and contaminants that can inhibit flow and clog nozzles.
- Filter is easily accessible for cleaning.
- Three filter screen sizes are available to meet requirements.
- Integrated filter body applicators feature high-capacity filters, providing up to 10 times the service interval of inline filters

Filtered H-20

- Built-in heated filter removes char and contaminants that can inhibit flow and clog nozzles.
- Filter is easily accessible for cleaning.
- Three filter screen sizes are available to meet requirements.
- Integrated filter body applicators feature high-capacity filters, providing up to 10 times the service interval of inline filters.

Series H-20 Hot Melt Applicators

Specifications

Parameter	Specification
Operating temperature	230 °C (450 °F) maximum
Working hydraulic pressure MPa (psi)	10.34 (1,500) maximum
Operating air pressure ⁽¹⁾ MPa (psi)	0.28–0.48 (40–70)
Operating speed	Exceeds 4,200 cycles/minute
Nozzle series ⁽²⁾	Single and multi-orifice with fixed and optional engagements; 232XXX, 231XXX and 220XXX domed, right-angle adapter with 236XXX series
Electrical service	240 VAC, 50/60 Hz 200 VAC, 50/60 Hz

⁽¹⁾ Recommended range. Dry, regulated, nonlubricated air required for consistent applicator operation. Module performance and durability will be negatively affected if operated outside the recommended range. Volumetric air requirements will vary with applicator configuration and application.

NOTE: Use H-20 applicators for high-flow, intermittent applications. They are excellent for dispensing high viscosity and filled materials. H-20 cartridge design provides approximately four times the life of previous design when used with packaging-grade hot melts.

⁽²⁾ Specify and order nozzles separately.

Selection Charts

H-20 RTD Applicators

Model	Part Number	Voltage	Comments
H-20T	274702	240	2300-style cordset
H-20T-L	276096	200	
H-20 LBS-T - 5/16 in. Hose	120664	240	waterwash, 2300-style cordset
H-20 LBS-T - 5/8 in. Hose	136537		
H-20-T Micro-Adjust Needle	274728		
H-20-1 Filtered Body	815138		
H-20-TW	276778		
H-20 LBS - 5/8 in. Hose	276954		

Series H-20 Hot Melt Applicators

H-20 Thermostat Applicator

Model	Part Number	Voltage	Temperature °C (°F)	Comments
H-20A (HM IV)	153010	240	175 (350)	standard cordset
	273385	240	190 (375)	
	498661	200	190 (375)	
H-20A, 80A (Series 2000)	272716	240	175 (350)	QD plug
H-20B	270082	240	175 (350)	circulating standard cordset
	153045	200		
H-20C	153130	120		
H-20E	240683	240		circulating Model VII
H-20 LBS - $\frac{5}{16}$ in. Hose	272269			standard cordset
H-20 LBS - $\frac{5}{8}$ in. Hose	272270			
H-20 Micro-Adjust Needle	272261			
H-20W (HM IV)	241969			waterwash
H-20-1 Filtered (HM IV)	815162			standard cordset
H-20 Filtered (Series 2000)	815134			QD plug

A200 Applicator Heads

Effective April 19, 2002, the Slautterback A-200 Applicator Heads are no longer available as an A-200 labeled head. The A-200 Head is an H-20 LBS applicator that is mounted on a Slautterback system. Nordson has released the H20 heads to support our Slautterback customers. The H20 LBS replacements are listed below. These heads are in stock and available for immediate shipment.

Nordson Part	Description
1024510	Applicator, H20-LBS, 100 ohm RTD
1024511	Applicator, H20 LBS, SB, 300° Thermostat
1024512	Applicator, H20 LBS, SB, 315° Thermostat
1024513	Applicator, H20 LBS, SB, 350° Thermostat
1024514	Applicator, H20 LBS, SB, 380° Thermostat

Series H-20 Hot Melt Applicators

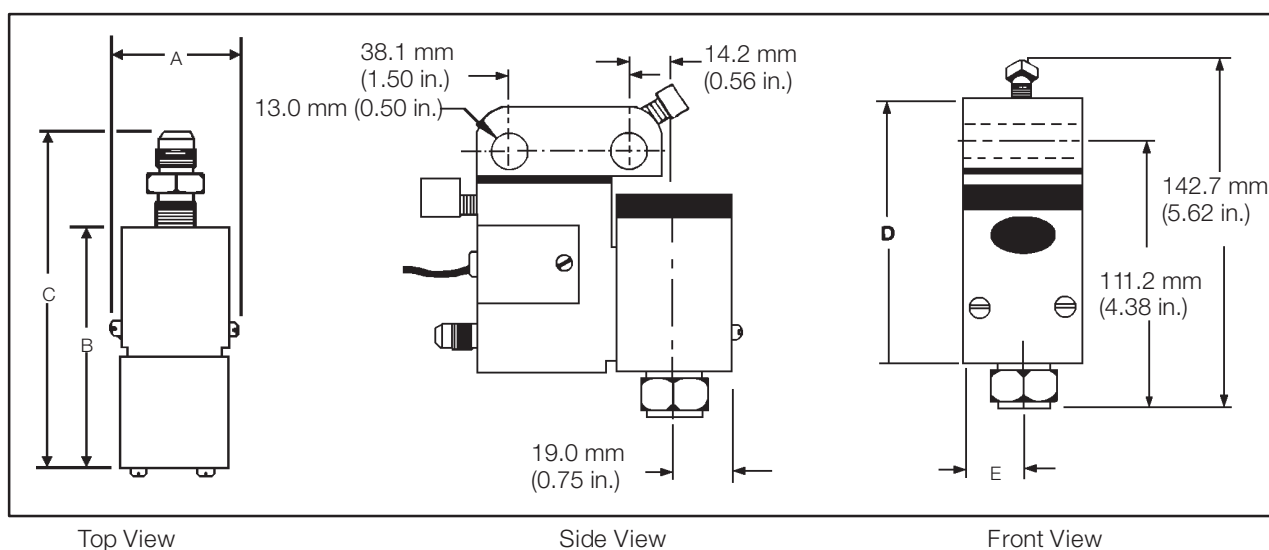
Thermostat Options

Temperature °C (°F)	Part Number	Temperature C (°F)	Part Number
55 (130)	804839	150 (300)	271936
65 (150)	804837	165 (325)	271928
80 (175)	804836	286 (350)	271929
95 (200)	804835	190 (375)	271930
105 (225)	271933	205 (400)	271931
120 (250)	271934	220 (425)	271932
135 (275)	271935	230 (450)	271937

NOTE: Cordset retrofit kit (P/N 273906) converts standard H-20 applicators for use with Series 2000 applicators and hoses. RTD hoses and applicators provide more consistent patterns than thermostat systems. RTD systems increase component life and reduce maintenance costs. Consult your Nordson representative.

Dimensions

Model	Dimensions mm (in.)				
	A	B	C	D	E
H-20A, H-20T, H-20D, H-20F H-20 LBS - 5/16 in. Hose H-20 (micro)	44.5 (1.75)	87.4 (3.77)	117.6 (4.63)	103.1 (4.06)	19.1 (0.75)
H-20B, H-20C	58.7 (2.31)	87.4 (3.44)	104.9 (4.13)	104.9 (4.13)	28.7 (1.13)
H-20E	57.2 (2.25)	88.9 (3.5)	104.9 (4.13)	106.4 (4.19)	28.7 (1.13)
H-20 LBS - 5/8 in. Hose	44.5 (1.75)	87.4 (3.44)	129.3 (5.09)	103.1 (4.06)	19.1 (0.75)
H-20W	41.4 (1.63)	111.3 (4.38)	114.3 (4.50)	103.1 (4.06)	19.1 (0.75)



Web Content



AG-900+S Dispensing Module

Description

Modular AG900+S dispensing heads accurately dispense high-performance adhesives and sealants with viscosities up to one million cps. The patented AG900+S is compatible with most automated dispensing equipment and provides configuration flexibility for various gasketing, sealing and bonding applications.

- Configurable design accurately dispenses solid and foamed high-performance materials, including silicones, plastisols, urethanes, epoxies, butyls and hot melts.
- Standard or custom nozzle-and-needle designs meet specific deposition requirements.
- Zero-cavity nozzle-and-needle assembly provides positive shut-off to help eliminate clogs and dripping.
- Standard actuation provides air to open spring to close. Optional air assist to close is available for high pressure applications.
- Optional pressure regulator reduces pressure fluctuations during applicator opening, maintaining consistent output.
- Hose interface options reduce stress on hoses and robots.
- Compact size and weight accommodate most operations.
- Dowel-pin construction facilitates remounting accuracy after service.



AG-900+S Dispensing Module



Watch Video

Module Part Numbers

Part Number	Description
1088351	Applicator Module, AG900+S
1065451	Applicator Body, Adapter, Steel, AG900+S (Replacement Part Only)
1086828	Replacement, Cartridge and Piston Assembly, AG900+S

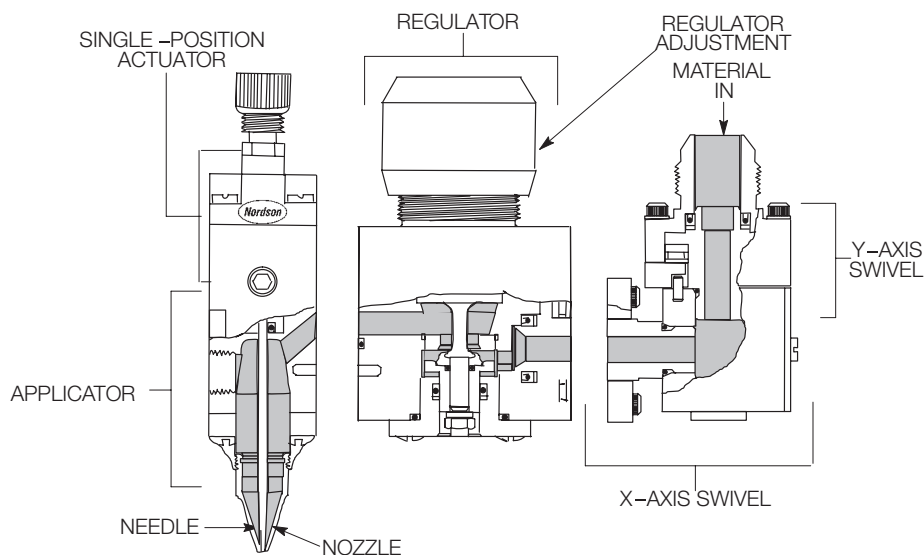
Solenoid Part Numbers

Part Number	Description
1069250	Saturn Solenoid, AOAC, 24VDC, 1/8 NPT, QD Plug, W/Light
1069257	Saturn Solenoid, AOAC, 120VDC, 1/8 NPT, QD Plug
1073542	Kit, AG900+S, Fittings to Small Saturn Solenoid

AG-900⁺S Dispensing Module

Specifications

Parameter	Specification
Operating temperature <ul style="list-style-type: none"> • Cold • Hot 	Ambient 230 °C (450 °F) max
Regulated pressure MPa (psi)	10.34 (1,500)
Maximum input pressure MPa (psi)	3000 psi @ 121 °C (250 °F) / 1500 psi above 121 °C (250 °F)
Operating air pressure MPa (psi)	0.41–0.69 (60–100)
Operating speed	3,200 cycles/minute
Viscosity range centipoise	1,000–1,000,000
Electrical service	220–240 VAC, 50/60 Hz 270 W (applicator/regulator), 100 W (swivel)
Weight kg (lb) <ul style="list-style-type: none"> • Cold • Heated 	1.8 (4.0) 2.5 (5.5)



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AG-900+S Dispensing Module

AG900+S Configurations

A			G			9			.			/			/			.											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			
Module Configuration			Heated or Cold			Cordset			Voltage			Nozzle Type			Overall Nozzle Length, L1 (5mm Increments)			Secondary Nozzle Length, L2 (5mm Increments)			Primary Nozzle Diameter, D1 (1mm Increments)			Secondary Nozzle Diameter, D2 (1mm Increments)			Orifice Size (0.5mm Increments)		

Boxes 4-5	Module Configuration	
	Description	Code
	Module Only	00
	Module W/Adapter Block & Lock	10
	Module W/Regulator, SAE Adapter & Lock	30

Box 6	Heated or Cold	
	Description	Code
	Heater for 910	H
	Heater for 930	H
	Cold	C
	None	X

Box 7	Cordset	
	Description	Code
	Bm Style Cordset	B
	T-Style Cordset	T
	Not Applicable	X

Box 8	Voltage	
	Description	Code
	240 V	A
	200 V	B
	Not Applicable	X

Box 9	Nozzle Type(1)	
	Description	Code
	Zero Cavity	Z
	No nozzle	X

Boxes 11-13	Overall Nozzle Length(2), L1 (5mm Increments)		
	X	X	X

⁽²⁾ Select "X" for no nozzle

Boxes 15-17	Secondary Nozzle Length(3)(4) L2 (5mm Increments)		
	X	X	X

⁽³⁾ Select "X" for no nozzle or if D2 = D1

⁽⁴⁾ Pricing for nozzles with L2 in excess of 25mm must be reviewed by Engineering

Boxes 19-20	Primary Nozzle Diameter(2)(5), D1 (1mm Increments)		
	X	X	X

⁽²⁾ Select "X" for no nozzle

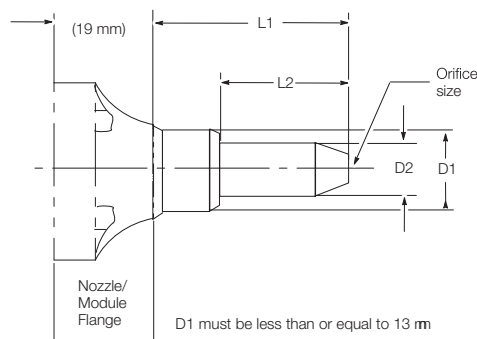
⁽⁵⁾ D1 must be less than or equal to 13mm

Boxes 22-23	Secondary Nozzle Length(3), D2 (1mm Increments)		
	X	X	X

⁽³⁾ Select "X" for no nozzle or if D2 = D1

Boxes 25 & 27	Orifice Size(2) (0.5mm Increments)		
	X	.	X

⁽²⁾ Select "X" for no nozzle



⁽¹⁾ Pricing includes set of 3 needle nozzle assemblies with applicator and engineering



AG-900+S Dispensing Module

AG900+S Nozzle Configurations

										Nozzle Type	Nozzle Type	Overall Nozzle Length, L2 (5mm Increments)					Secondary Nozzle Length, L2 (5mm Increments)					Primary Nozzle Diameter, D1 (1mm Increments)		Secondary Nozzle Diameter, D2 (1mm Increments)		Orifice Size (0.5mm Increments)		
N	Z	L	.	A	G	9	0	0	.		.	/					/					/		/		.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

Box 11	Nozzle Type ⁽¹⁾	
	Description	Code
	Zero Cavity	Z

⁽¹⁾ Pricing is subject to review by Engineering

Boxes 13-15	Overall Nozzle Length, L1 (5mm Increments)		
	X	X	X

Boxes 17-19	Secondary Nozzle Length ⁽²⁾⁽³⁾ L2 (5mm Increments)		
	X	X	X

⁽²⁾ Pricing for nozzles with L2 in excess of 25mm must be reviewed by Engineering

⁽³⁾ Select "X" for no nozzle or if D2 = D1

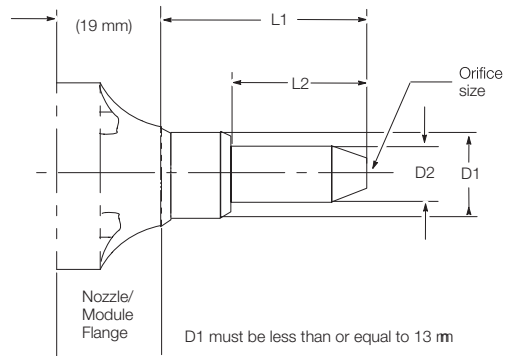
Boxes 21-22	Primary Nozzle Diameter ⁽⁴⁾ , D1 (1mm Increments)		
	X	X	X

⁽⁴⁾ D1 must be less than or equal to 13mm

Boxes 24-25	Secondary Nozzle Length ⁽³⁾ , D2 (1mm Increments)		
	X	X	X

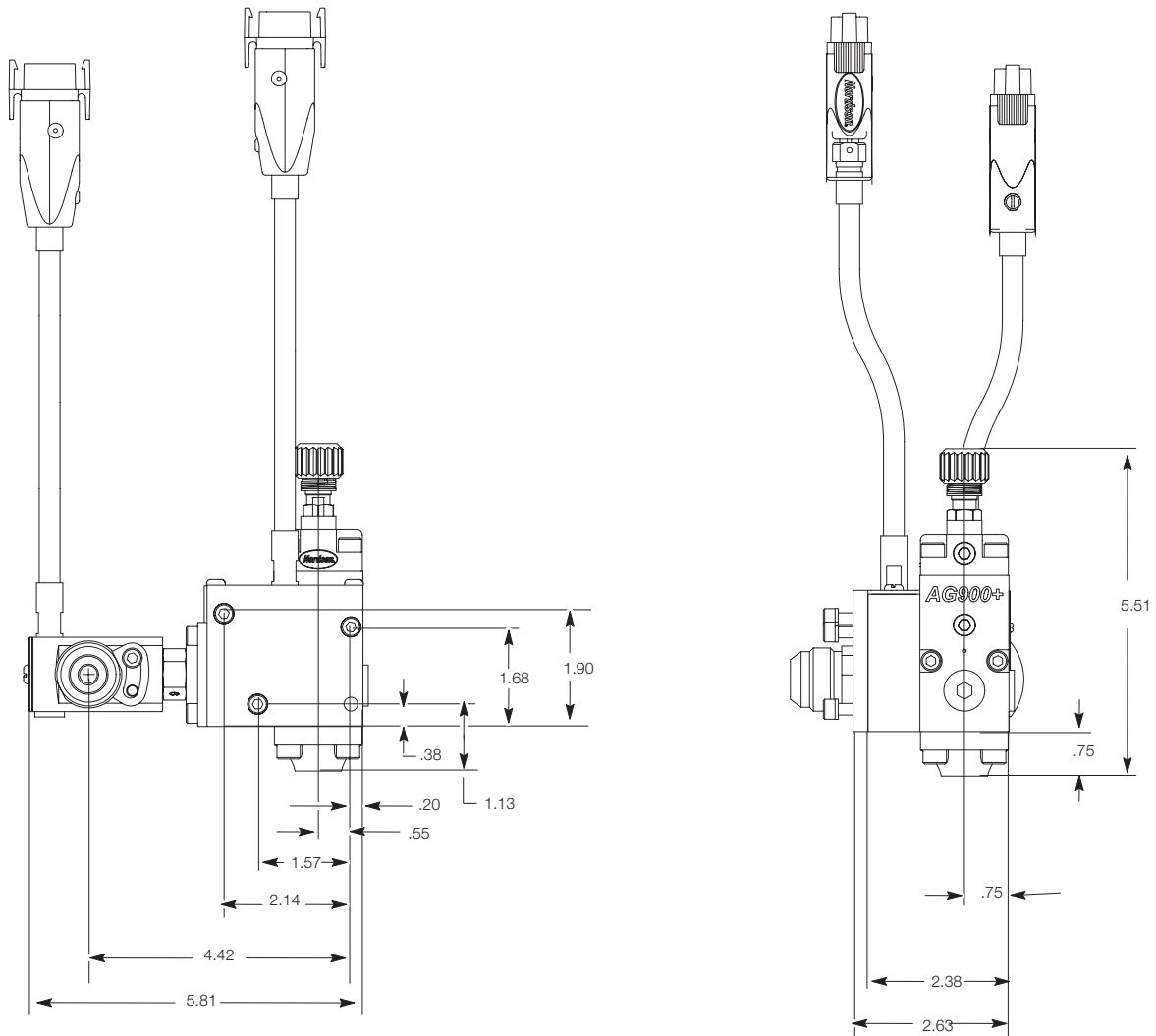
⁽³⁾ Select "X" for no nozzle or if D2 = D1

Boxes 27&29	Orifice Size (0.5mm Increments)	
	X	X



AG-900+S Dispensing Module

Dimensions



NOTE: All dimensions are in inches

Web Content



e.dot+™ Electric Applicators

Description

Compact, all-electric e.dot+ applicators provide precise, high-speed dot or bead placement, quiet operation and a long service life.

Easy to install e.dot+ applicators operate in combination with a specially designed small diameter hose and an external applicator driver, allowing direct plug and play connections between the adhesive melter, applicator, driver and hose. Nordson e.dot applicators have on-times as low as 0.4 ms and cycle rates as fast as 1.8 ms and a service life in excess of 200 million cycles.

The ball and nozzle/seat design provides excellent repeatability, pattern control and consistency, delivering superior dot patterns and minimizing adhesive stringing or tailing. The e.dot+ applicator features a removable armature and seat and interchangeable nozzles, allowing for easy maintenance. Manual stroke adjustment allows for re-zeroing of the module after servicing. The e.dot+ module coil connector allows fast module exchange.

The all-electric design of the e.dot+ applicator eliminates the need for compressed operating air, dynamic seals and frequent module maintenance. An integrated Saturn filter simplifies maintenance and is necessary for clean operation.

NOTE: *The e.dot+ electric applicator can be driven by various devices. Refer to the Applicator Driver Selection Chart and the Applicator Driver Comparison Chart in the Controls section for more information.*



e.dot+ Applicator



Watch Video

Features

- Delivers accurate dot placement.
- Requires minimal space for installation and service.
- Quick, easy installation.
- Operates quietly.
- Fast-acting coil delivers small dots/beads at fast line speeds.
- Reduced cavity nozzle dispenses consistent dots/beads at varying line speeds.
- Integrated Saturn filter removes contaminants from adhesive flow path.
- Quick-disconnect cordset simplifies installation.

e.dot+™ Electric Applicators

e.dot+ Applicator Specifications

Parameter	Specification
Service life	200 million cycles
Response time	1.8 ms*
Maximum hydraulic pressure	100 bar (1450 psi)
Working hydraulic pressure	48 Bar (700 psi)
Working viscosity	1000 cps
Maximum viscosity	5000 cps
Electrical connections	Quick-disconnect
Electrical requirements	See applicator driver specifications
Heating method	Cartridge heater
Integrated saturn filter	200 Mesh
Operating temperature	185 °C (365 °F) Maximum 200 °C (392 °F)**

*minimum on-time 0.4 ms viscosity dependent; use e.dot+ application guide.

**dependent on pattern; use e.dot+ application guide.

Applicator Driver Specifications

NOTE: See Section 10, Controls for applicator driver part numbers.

Parameter	LogiComm Control System	LogiComm OEM Applicator Driver Board	LogiComm Applicator Driver	e driver Single Box
Capacity	4 or 8 channels per board	4 channels per board	4 or 8 channels per board	1 channel
Electrical Service	100–240 VAC, 50/60 Hz	110–230 VAC, 50/60 Hz 24 VDC	100–240 VAC, 50/60 Hz	170–264 VAC, 50/60 Hz
Maximum Applicator Power Capacity	160 Watts	110 Watts	160 Watts	95 Watts
Input line fuses	3 Amps	2 Amps	3 Amps	2 Amps
Trigger source options	NPN or PNP (24 VDC sink/source)	24 VDC	NPN or PNP	24 VDC and 5 VDC
Enclosure rating	IP-30	IP-20	IP-X4 terminal block version IP-30 connector version	IP-20

e.dot+™ Electric Applicators

Parts and Accessories

A 200 mesh filter comes standard with e.dot applicators.

e.dot+ Applicators and Modules

Part Number	Description
7302215	Applicator, Top Feed, .25 mm Nozzle
7302216	Applicator, Top Feed, .30 mm Nozzle
7302217	Applicator, Top Feed, .35 mm Nozzle
7302218	Applicator, Rear Feed, .25 mm Nozzle
7302219	Applicator, Rear Feed, .30 mm Nozzle
7302220	Applicator, Rear Feed, .35 mm Nozzle
7301602	Module, .25 mm Nozzle
7301603	Module, .30 mm Nozzle
7301604	Module, .35 mm Nozzle

Applicator Service Kits

Part Number	Description
7302201	Kit, Seal Service, Module, e.dot+
7302202	Kit, Armature, Spring, 0.25 mm Nozzle
7302203	Kit, Armature, Spring, 0.30 mm Nozzle
7302204	Kit, Armature, Spring, 0.35 mm Nozzle
1062529	Kit, Cordset, Round Connector, W/Heater And RTD
7300512	Kit, Service, O-ring, 10 pc., Seal, Module-to-Applicator, e.dot+

Cables

Part Number	Description
1096060	Cable, 2M, 9-Pin to Fly Leads
1096061	Cable, 5M, 9-Pin to Fly Leads
1096062	Cable, 8M, 9-Pin to Fly Leads
1041835	Cable, 10M, 4-Pin to 9-Pin

Nozzles

Part Number	Description
7301540	Nozzle, 0.25 mm, with O-ring
7301541	Nozzle, 0.3 mm, with O-ring
7301542	Nozzle, .035 mm, with O-ring
7300511	Kit, Service, O-ring, 10 pc., Seal, Module-to-Applicator, e.dot+

Saturn Integrated Filters

Part Number	Description
1045520	Applicator Filter Kit 200 Mesh

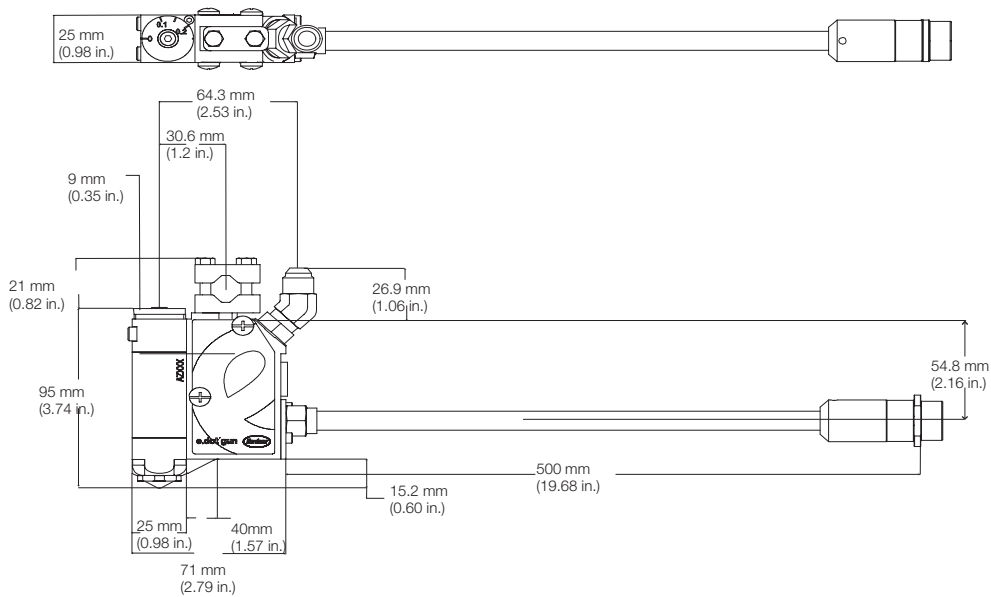
e.dot+™ Electric Applicators

e.dot+ Small Diameter Hoses

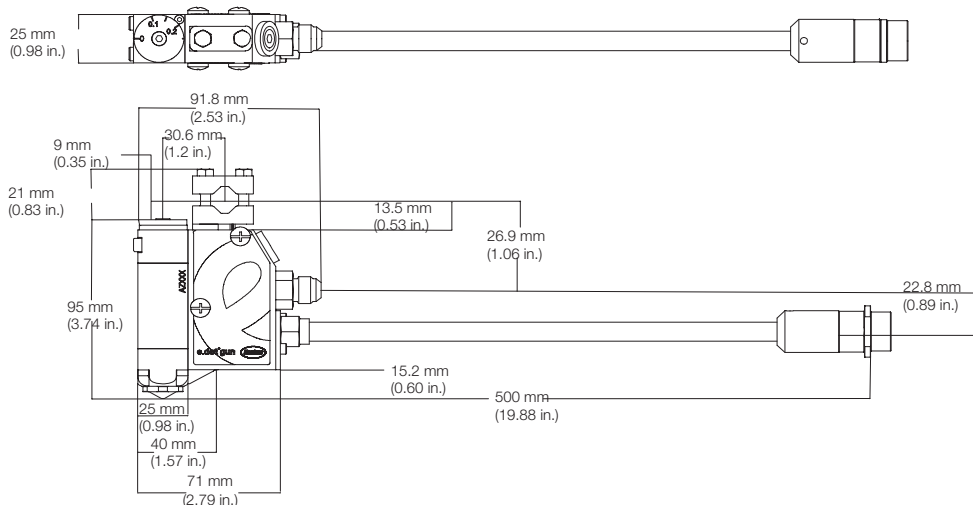
Part Number	Description
1040295	Hose, 2 m (6.56 ft.)
1040296	Hose, 3.5 m (11.5 ft.)
1040297	Hose, 5 m (16.4 ft.)

Applicator Dimensions

Top Feed



Rear Feed



Web Content



E-400 Series Electric Applicators

Description

The E-400B applicator dispenses hot melt adhesive in bead form. An applicator driver provides all-electric actuation, eliminating the need for compressed air. Adhesive enters the inlet port of the E-400B applicator and flows through the manifold into the module seat, which is sealed by the end of the armature. When the coil is energized by the applicator driver, the armature lifts off the seat, allowing adhesive to flow. The armature is held off the seat by the magnetic attraction of the coil. When the applicator driver de-energizes the coil, the coil loses its magnetic attraction and the armature is forced back into the seat by a return spring, stopping the adhesive flow.

E-400B applicators are available in top and rear feed configurations.

The E-400 BAS module's hydraulic section can be easily disassembled for easy cleaning.

E-400 BAS uses standard Saturn nozzles.

Intended Uses

The E-400B applicator is designed for

- Industrial applications that require the deposition of a precise bead of hot melt adhesive onto a moving substrate
- Small diameter hoses designed and manufactured by Nordson Corporation
- Electric applicator drivers and pattern controllers designed and manufactured by Nordson Corporation

Contact your Nordson Representative for additional configurations.



E400 Electric Applicator

Selection Chart

Part Number	Description
1031013	ES401-RC-T-F, Rear Feed Applicator
1031635	ES401-RC-T-F, Top Feed Applicator
1122275	E400-01-F, Applicator For Use With Freedom System
1086385	Module Service Kit, E-400B B, Bead, Stl Seat

E-400B Drivers

The E-400B driver will work for most applications. Use the E-400B Driver Application Guide software to determine if the driver will work for your application. To access the E-400 Application Guide, go to www.enordson.com/support and select the E-400 Application Guide link to download the software.

Part	Description
1045869	Driver, E-400B, Non-Programmable, High-Viscosity
1039761	Cable, Applicator-to-Driver, E-400B, 12 m

E-400 Series Electric Applicators

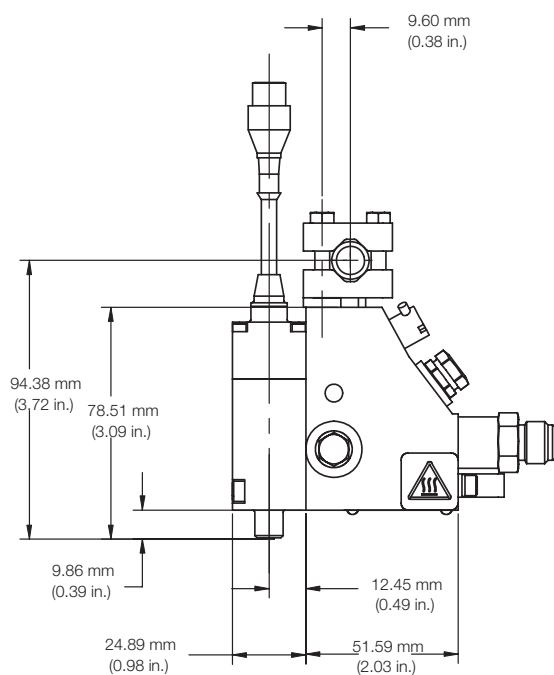
E-400B Applicator Specifications

Item	Specification	Note
Adhesive viscosity	up to 1,200 cps	A
Operating hydraulic pressure	82 bar (1,200 psi) 103.4 bar (1,500 psi) maximum	
Operating temperature	175 °C (350 °F) nominal 190 °C (375 °F) maximum	A
Operating speed	up to 6,000 cycles per minute	A
Nozzle selection (bead)	Any standard nozzle or Saturn precision nozzle	
Electrical service	220–240 VAC, 50/60 Hz	
NOTE A: Actual cycle rates and maximum operating temperatures depend on the application. Use the ES-400 Application Guide software to determine the operating speeds for a specific application.		

Torque Specifications

Item	Torque Specification
Hose connector	10–14 N•m (7–10 ft.-lb)
Bead nozzle	4.5 N•m (40 in.-lb)
E-400B module bracket (clamp) screw	1.7 N•m (15 in.-lb)

Dimensions



Web Content



Series EM-100 Electric Applicators

Description

Nordson EM-100 electric applicators provide the versatility of attaching one to eight valve modules to a single heated manifold that is supplied by a single hose. The EM-100 applicator extrudes beads or dots of adhesive or other thermoplastic material for a wide range of packaging and product assembly applications. The inlet to the applicator manifold uses Nordson's standard O-ring port, and is compatible with the Nordson Saturn® inline filters.

EM-100 applicators allow users to specify the number and spacing of modules needed for a specific application. The spacing from nozzle tip to nozzle tip can be as close as 44.45 mm (1.75 in.) and up to a total manifold width of 609.6 mm (24 in.).

EM-100 applicators accept AC or DC signals to energize the electric coil on standard or high-speed valve modules. The path for driver signal to the EM-100 applicator coil is provided by an external signal cable assembly (purchased separately). Two screws attach the valve modules to the manifold for quick removal or replacement. EM-100 applicators eliminate the need for compressed air or a complex valving mechanism. The valving assembly consists of a single moving part, two static O-rings and a solenoid mounted on the valve block.

All ports are electrically active. Individual valve modules and blanking kits arrange on the manifold to yield specific adhesive pattern spacing. A choice of left, right, or top feed port to the manifold is available and must be specified for each manifold. The product uses the same nozzles as the Slautterback E-100, E-100XT, M-100 and the Nordson H-20 applicators.

NOTE: *The EM-100 Series electric applicators can be driven by various devices. Refer to the Applicator Driver Selection Chart and the Applicator Driver Comparison Chart in the Controls section for more information.*



EM-100 Electric Applicator

Features

- Operates at up to 6000 cycles per minute to meet the most demanding applications.
- Arrangement of up to eight individual valve modules on the manifold yields specific adhesive pattern spacing.
- All electric design ensures performance and reliability.
- Versatile design and wide nozzle spacing allows for use in a wide range of packaging and product assembly applications.
- Resistance temperature detector (RTD) sensors offer precise temperature control to within ± 1 °C (1 °F) for exceptional pattern consistency.
- Compatible with Nordson Saturn in-line filters.

Series EM-100 Electric Applicators

Specifications

Parameter	Specification
Mounting	Manifold specific
Hose connections	Male JIC no. 6 or 8
Heater voltage	200 or 240 VAC
Coil voltage	120, 200 or 270 VAC
Connector	Quick disconnect coil connector
Viscosity	Maximum 25,000 cps ⁽¹⁾
Warm-up time	15 minutes
Adhesive operating pressure	344.5–5512 kPa (50–800 psi)
Temperature control	RTD

⁽¹⁾For applications with higher viscosities, contact Nordson.

Parts and Accessories

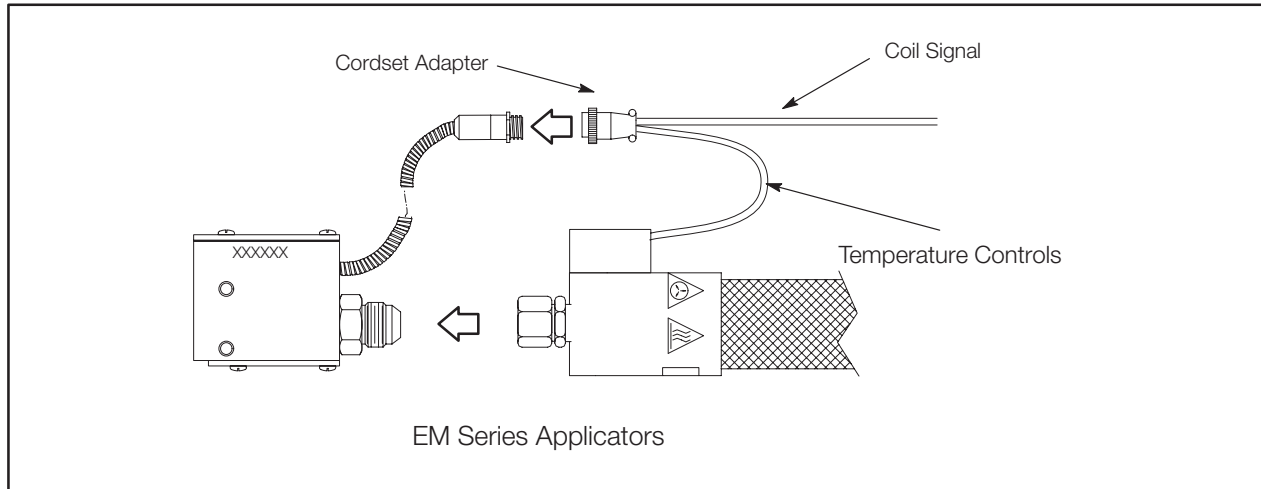
The EM-100 Series applicator is offered as a multi-module applicator with various module centerline distances and actuating sequences. Please contact the Nordson Application Engineering group to address your needs.

EM-100 Module Replacement

Part Number	Coil Voltage	Comments
1033644	120V	AC Valve
1033645	120V	DC Valve
1033646	120V	Continuous Duty Valve
1033647	200V	AC Valve
1033648	200V	DC Valve
1033649	200V	Continuous Duty Valve
1033650	240V	AC Valve
1033651	240V	DC Valve - For HS Valve and DC Driver
1033652	240V	Continuous Duty Valve
1033653	240V	High Speed AC Valve
1033654	240V	High Speed DC Valve (Stemmed valve)

Series EM-100 Electric Applicators

Driver Cable Assembly for EM Series Electric Applicators



Part Number	Description
1046343	EM Applicator Series Signal Cable, 4.6 m (15 ft), 115V
1046344	EM Applicator Series Signal Cable, 9.1 m (30 ft), 115V
1032902	EM Applicator Series Signal Cable, 4.6 m (15 ft), 230V
1032904	EM Applicator Series Signal Cable, 9.1 m (30 ft), 230V
1032447	EM Applicator Series Signal Cable, 4.6 m (15 ft), 230V Water Wash
1032448	EM Applicator Series Signal Cable, 9.1 m (30 ft), 230V Water Wash

Series EM-100 Electric Applicators

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Web Content



SureSeal™ Non-Contact Sift-Proof Applicator

Description

Sift-proof systems provide high-integrity hot melt barrier seals that eliminate product loss caused by granular products sifting and dusting through seams and openings at carton corners. In addition, these seals prevent foreign particles, insects or moisture from entering liner-less cartons.

The Nordson SureSeal non-contact sift-proof applicator surpasses the performance of conventional, multi-bead applicators. A cantilevered mounting bracket reduces costly downtime by allowing operators and maintenance personnel complete access to all service components, which can be replaced on-line in less than 2 minutes.

Pattern flexibility is achieved using individual screw-in nozzles that can be replaced without removing the nozzle plate from the applicator. Optional nozzle blanks can be used to yield specific adhesive pattern spacing on the substrate.

An all-electric design eliminates the need for compressed air, dynamic seals and high maintenance components, providing longer service life and lowering operating costs. SureSeal modules have up to 10 times the life of a typical pneumatic applicator. High-flow valves support line speeds of over 450 cartons per minute.

Features

SureSeal sift-proof applicator

- Improves adhesive usage by 25–50% compared to pneumatic sift-proof systems.
- Installs quickly and easily with integrated, slotted, applicator mounting bracket.
- Optimizes adhesive pattern length using high-speed, high-flow module design, reducing stringing and angel hair for cleaner operation.
- Allows changes in carton size and style with minimum downtime using quick-change nozzle plates and nozzle blanks.



SureSeal Sift-Proof Applicator

Nozzle plate

- Hardened steel nozzle plate resists scratches.
- Eases nozzle replacement using screw-in nozzles that can be changed without removing the nozzle plate.

On-line replacement in less than 2 minutes

- Remove the combined disposable heater and resistance temperature detector (RTD) by hand, reducing maintenance time.
- Speed coil and armature replacement. Single piece, disposable coil and armature assembly are easily clipped into place.
- Speed coil and armature replacement. Single piece, disposable coil and armature assembly are easily clamped into place.

NOTE: *The Sure Seal Series electric applicators can be driven by various devices. Refer to the Applicator Driver Selection Chart and the Applicator Driver Comparison Chart in the Controls section for more information.*

SureSeal™ Non-Contact Sift-Proof Applicator

Specifications

8-inch Applicator

Parameter	Specification
Operating temperature	204 °C (400 °F) maximum
Working hydraulic pressure	68.9 bar (1000 psi)
Maximum operating speed (application dependent)	450 carton/minute, 76.2–121.92 m/min.. (250–400 ft./min)
Applicator heating method	Cartridge-type electric resistance heaters
Electrical requirements	230 VAC, 600–900 W (depending on applicator configuration)

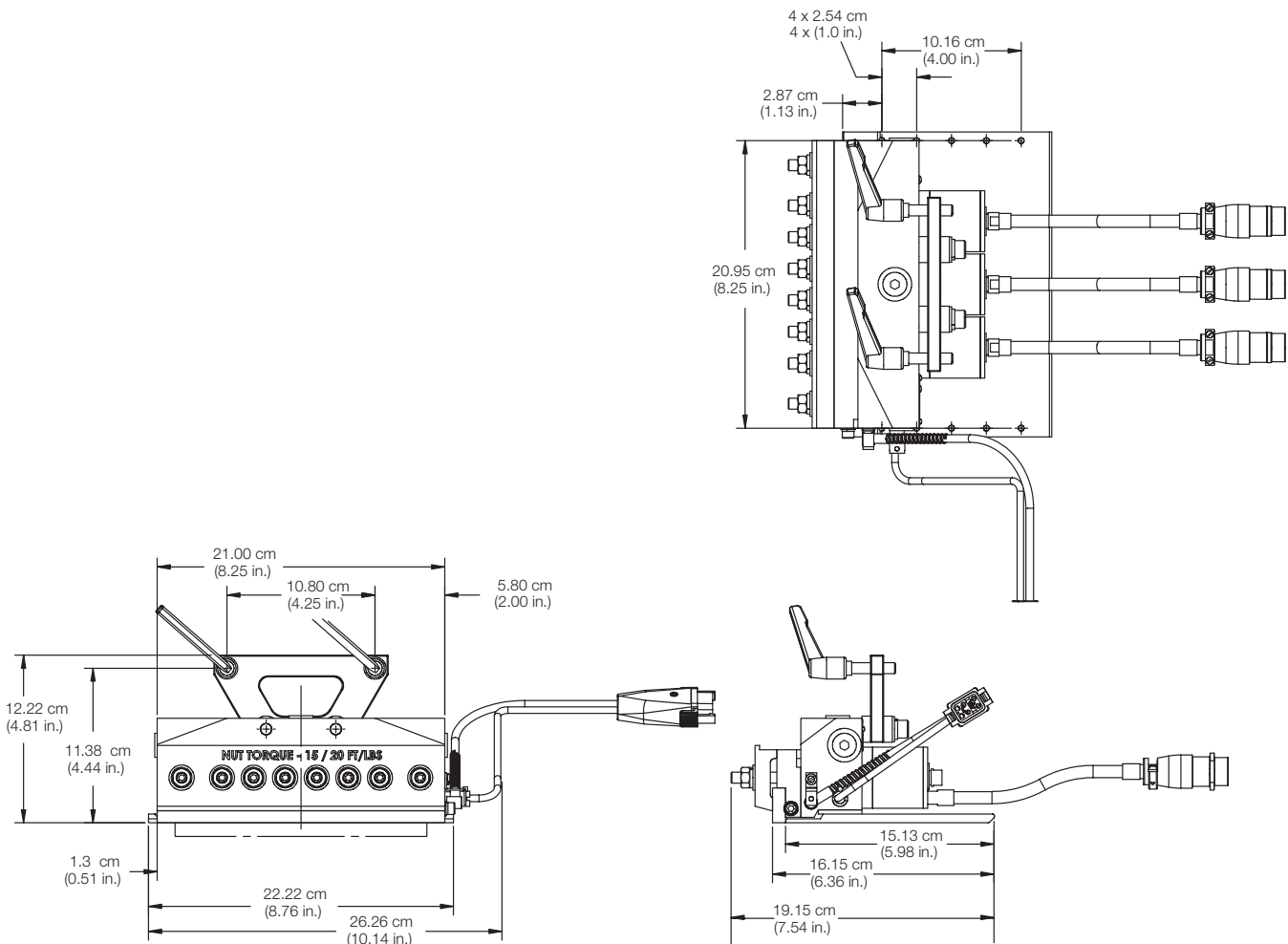
15-inch Applicator

Parameter	Specification
Operating temperature	230 °C (446 °F) max.
Working hydraulic pressure	68.9 bar (1000 psi)
Maximum operating speed (application dependent)	450 cartons/min. 76.2–121.9 m/min. (250–400 ft./min.)
Applicator heating method	Cartridge-type electrical resistance
Electrical requirements	230 VAC, 600–800 W (depending on applicator configuration)

SureSeal™ Non-Contact Sift-Proof Applicator

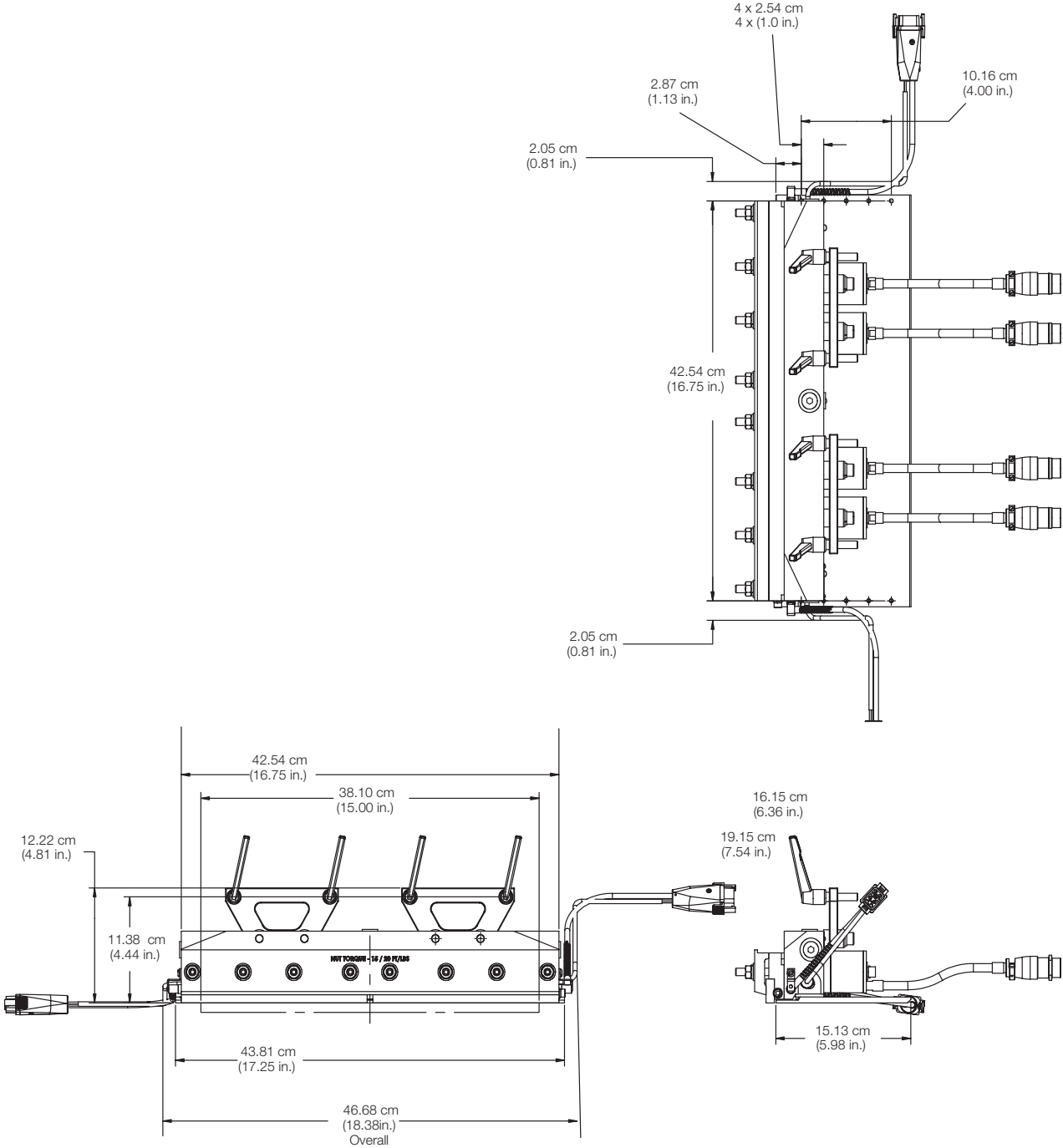
Dimensions

8-inch Applicator



SureSeal™ Non-Contact Sift-Proof Applicator

15-inch Applicator



Web Content



Universal™ Applicators

Description

Universal Applicators represent the very latest in adhesive spray application performance and flexibility. Universal applicators feature the popular pneumatically actuated Universal series modules. These modules provide application flexibility by accepting numerous nozzle types on a single platform.

Commonality of components minimizes spares requirements and vastly improves serviceability. This compact, advanced design delivers uniform heating and accurate adhesive output in support of a wide variety of product assembly applications.



Universal Speed-Coat Module and Summit Nozzle

Universal Applicator Insulating Jackets

Module Configuration	Manifold Length 50 mm	Manifold Length 100 mm	Manifold Length 150 mm	Manifold Length 275 mm	Manifold Length 400 mm	Manifold Length 525 mm
UA with CF200, UM22 or UM25 Modules - Standard Spray	1081273	1089856	1087890	1089857	1089858	1090005
UA with UMSC or UMSN Modules and Adapters - Standard Spray	1096129	1096130	1096131	1096132	1096133	1096134
UA with SolidBlue Modules Bead/Slot	1081274	1090006	1090007	1090008	1090009	1090020
Speed-Coat Applicator - High Speed Spray	1093554	NA	1096125	1096126	1096127	1096128

Universal™ Applicators

UA Configurator

U	A	-	U	M	2	5	X	E	0	8	-	M	X	V	C	N	/	0	2	5	.	0
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Boxes 1-4	Module Type	
	Description	Code
	200 Series Controlled Fiberization	CF22
	22mm Universal Module	UM22
	25mm Universal Module	UM25
	50mm Universal Module	UM50
	Universal Speed-Coat (High Speed)	UMSC
	22mm Universal Module, Right Angle	UR22
	25mm Universal Module, Right Angle	UR25
	No Modules	XXXX

Box 11	Electrical Zone	
	Description	Code
	Standard	X
	Low Power	8
	Special	S

Box 12	Filter	
	Description	Code
	Vertical	V
	Threaded	F

Box 5	Module Option	
	Description	Code
	Standard	X
	Optistroke	O
	Special	S

Box 13	Module Actuation	
	Description	Code
	Common	C
	Independent	I
	Programmed	P

Box 6	Module Spacing	
	Description	Code
	(1 or 2 Modules)	X
	Even	E
	Special	S

Box 14	Solenoid Value	
	Description	Code
	None / NA	X
	24VDC Direct	N
	Special	S

Boxes 7-8	Number of Modules	
	Description	Code
	Enter 2-digit number	##

Boxes 16-19	Even Spacing, mm	
	Description	Code
	Enter 4-Digit Number As Indicated	###.#

Box 10	Cordset	
	Description	Code
	Nickel 120 Ohm RTD	T
	Platinum 100 Ohm RTD	M
	Water Resistant	H
	Hardwired	P
	Special	S

Note: Review the following sections for more information on the selections available.



Web Content



AltaSpray™ Plus Applicators

Description

AltaSpray Plus applicators provide the flexibility and performance capabilities of a single-platform, hot melt adhesive dispensing design. The streamlined, economical configuration helps reduce initial investment and ongoing cost of ownership. Simplified system connectivity and fewer cabling requirements optimize applicator use with AltaBlue series adhesive melters.

Interchangeable modules and nozzles add manufacturing efficiency and improve product performance. AltaSpray Plus applicators are compatible with Universal UM25 and UM50 modules, and CF200 modules. Modules accept numerous dispensing technologies, including CF200 nozzles and Universal CF, Summit and Signature nozzles for lamination; and Universal SureWrap and Allegro nozzles for elastic attachment.

The angled manifold reduces air turbulence, improving pattern stability and web-routing options. An integrated air heater uses a thin-film flow design that enhances heating efficiency to produce consistent spray patterns, while reducing power consumption. Optional custom-fitted insulating jackets reduce heat loss, increase energy efficiency, and significantly minimize chance of incidental contact with heated surfaces.

Uniform thermal profile and advanced hydraulic features deliver superior product performance, increased efficiency and output uniformity. Common parts minimize inventory and speed product changeovers. The AirGuard separator protects the air chamber from adhesive contamination when changing modules. The ability to rebuild all components increases service life and reduces cost of ownership.



AltaSpray Plus Applicator With Universal UM25 Modules and Universal Signature Nozzles.

Features

- Efficiently accommodate numerous spraying and coating technologies
- Minimize cost of ownership and initial investment
- Simplify installation and service with less downtime

AltaSpray™ Plus Applicators

Part Numbers

Alta Spray Plus Applicators

Applicator Width	Plus PN	Description	RTD Type	Support Module	Similar AltaSpray PN
50 mm	7407289	XXE01-TXVCX-ASP	Ni120	UM25/UM50	7402704
	7407290	XXE01-MXVCX-ASP	PT100	UM25/UM50	7402709
100 mm	7407226	XXE04-TXVCX/025.0-ASP	Ni120	UM25	1081326
	7407227	XXE04-MXVCX/025.0-ASP	PT100	UM25	1081327
	7407228	XXE02-TXVCX/050.0-ASP	Ni120	UM50	None
	7407229	XXE02-MXVCX/050.0-ASP	PT100	UM50	None
200 mm	7407230	XXE08-TXVCX/025.0-ASP	Ni120	UM25	1081328
	7407231	XXE08-MXVCX/025.0-ASP	PT100	UM25	1081329
	7407232	XXE04-TXVCX/050.0-ASP	Ni120	UM50	None
	7407233	XXE04-MXVCX/050.0-ASP	PT100	UM50	None
300 mm	7407234	XXE12-TXVCX/025.0-ASP	Ni120	UM25	1081340
	7407235	XXE12-MXVCX/025.0-ASP	PT100	UM25	1081341
	7407236	XXE06-TXVCX/050.0-ASP	Ni120	UM50	None
	7407237	XXE06-MXVCX/050.0-ASP	PT100	UM50	None
400 mm	7407238	XXE16-TXVCX/025.0-ASP	Ni120	UM25	1081342
	7407239	XXE16-MXVCX/025.0-ASP	PT100	UM25	1081343
	7407240	XXE08-TXVCX/050.0-ASP	Ni120	UM50	None
	7407241	XXE08-MXVCX/050.0-ASP	PT100	UM50	None
500 mm	7407242	XXE20-TXVCX/025.0-ASP	Ni120	UM25	1081344
	7407243	XXE20-MXVCX/025.0-ASP	PT100	UM25	1081345
	7407244	XXE10-TXVCX/050.0-ASP	Ni120	UM50	None
	7407245	XXE10-MXVCX/050.0-ASP	PT100	UM50	None
600 mm	7407246	XXE24-TXVCX/025.0-ASP	Ni120	UM25	1081346
	7407247	XXE24-MXVCX/025.0-ASP	PT100	UM25	1081347
	7407248	XXE12-TXVCX/050.0-ASP	Ni120	UM50	None
	7407249	XXE12-MXVCX/050.0-ASP	PT100	UM50	None
800 mm	7407250	XXE32-TXVCX/025.0-ASP	Ni120	UM25	None
	7407251	XXE32-MXVCX/025.0-ASP	PT100	UM25	None
	7407252	XXE16-TXVCX/050.0-ASP	Ni120	UM50	7402264
	7407253	XXE16-MXVCX/050.0-ASP	PT100	UM50	7402274
1000 mm	7407254	XXE40-TXVCX/025.0-ASP	Ni120	UM25	None
	7407255	XXE40-MXVCX/025.0-ASP	PT100	UM25	None
	7407256	XXE20-TXVCX/050.0-ASP	Ni120	UM50	7402271
	7407257	XXE20-MXVCX/050.0-ASP	PT100	UM50	7402275
1200 mm	7407258	XXE48-TXVCX/025.0-ASP	Ni120	UM25	None
	7407259	XXE48-MXVCX/025.0-ASP	PT100	UM25	None
	7407260	XXE24-TXVCX/050.0-ASP	Ni120	UM50	7402276
	7407261	XXE24-MXVCX/050.0-ASP	PT100	UM50	7402277

AltaSpray™ Plus Applicators

Solenoid Valve Installation Kit

NOTE: *Purchased Separately - Includes Solenoid and All Fittings Required for Installation.*

Solenoid Valve Part Number	Description	Number Required Per Module
1082801	Kit, Install, Solenoid, 24VDC	One Solenoid Supports up to 100 mm Coverage

Alta Spray Applicators Insulating Jackets

NOTE: *Purchased Separately.*

Part Number	Description	Applicator Compatibility Maximum Coverage
7407301	Kit, Jacket, Insulating, Applicator, 50 mm, ASP	50 mm
7407302	Kit, Jacket, Insulating, Applicator, 100 mm, ASP	100 mm
7407303	Kit, Jacket, Insulating, Applicator, 200 mm, ASP	200 mm
7407304	Kit, Jacket, Insulating, Applicator, 300 mm, ASP	300 mm
7407305	Kit, Jacket, Insulating, Applicator, 400 mm, ASP	400 mm
7407306	Kit, Jacket, Insulating, Applicator, 500 mm, ASP	500 mm
7407307	Kit, Jacket, Insulating, Applicator, 600 mm, ASP	600 mm
7407308	Kit, Jacket, Insulating, Applicator, 800 mm, ASP	800 mm
7407309	Kit, Jacket, Insulating, Applicator, 1000 mm, ASP	1000 mm
7407310	Kit, Jacket, Insulating, Applicator, 1200 mm, ASP	1200 mm

Module Service Kits

Part Number	Description
860892	Kit, CF200 Module Rebuild, One Module, With Needle
1055411	Kit, CF200 Module Rebuild, Ten Modules, With Needle
1049909	Kit, Rebuild, Minor, UM22/UM25/UM50
1049908	Kit, Rebuild, Major, UM22/UM25/UM50
1049908	Kit, Tool, Rebuild, UM22/UM25/UM50

AltaSpray™ Plus Applicators

Heater Service Kits

NOTE: Kits include heater cartridge with pre-crimped ferules and a terminal block.

Kit Part Number	Description
7407311	Kit, Heater ,Cartridge, 0.75D,1.62L,300W,120V
7407312	Kit, Heater, Cartridge, 0.50D,3.75L,600W,240V
7407313	Kit, Heater, Cartridge, 0.50D,9L,800W,240V
7407314	Kit, Heater, Cartridge, 0.50D,9L,1000W,240V
7407315	Kit, Heater, Cartridge, 0.50D,12.5L,1000W,240V
7407316	Kit, Heater, Cartridge, 0.50D,12.5L,1400W,240V
7407317	Kit, Heater, Cartridge, 0.50D,16L,1300W,240V
7407318	Kit, Heater, Cartridge, 0.50D,16L,1800W,240V
7407319	Kit, Heater, Cartridge, 0.50D,19.5L,1800W,240V
7407320	Kit, Heater, Cartridge, 0.50D,19.5L,2000W,240V
7407321	Kit, Heater, Cartridge, 0.50D,26.5L,2000W,240V

Sensor Service Kits

NOTE: Kits include sensor cartridge with pre-crimped ferules and a terminal block.

Kit Part Number	Configuration	Description
1082564	All T-style (Nickel 120 Ohm RTD Based)	Kit, service, sensor, RTD, Ni-120
1082565	All M-style (Platinum 100 Ohm RTD Based)	Kit, service, sensor, RTD, PT100

Filter Service Kit

NOTE: Kits include filter screen and O-ring.

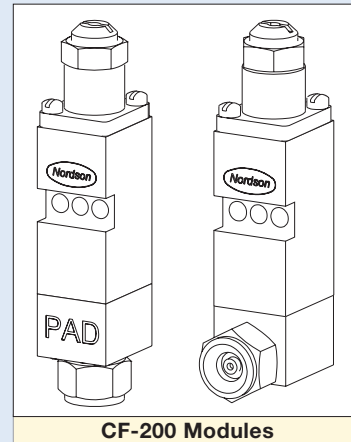
Top Level Part Number	Configuration	Description
1082562	All Designs - Order One Kit Per Filter	Kit, service, screen, filter, 0.006

Non-Contact Adhesive Module Selection

Nordson CF-200 modules offer consistent performance and long life in an economical package. These pneumatically actuated modules are fully rebuildable and compatible with twist-on disk or unibody style CF nozzles.

- Modular design provides ease of operation and maintenance for reduced downtime.
- Fine spray pattern cools before reaching substrate, eliminating burn-through.
- Edge control to within 3 mm (1/8 in.) allows precise adhesive placement without overspray.

NOTE: CF-200 modules are compatible with disk and unibody style twist-on nozzles.



CF-200 Modules

Specifications

Parameter	Specification
Module width	22 mm
Nozzle compatibility	Disk and Unibody style twist-on CF Nozzles
Operating temperature	70-205 °C (160-400 °F)
Working hydraulic pressure	1.38-5.52 MPa (200-800 psi)
Maximum hydraulic pressure	8.96 MPa (1300 psi)
Maximum hydraulic flow	110 g/min @10,000 cps, 14g/m ² @ 300 m/min
Actuation air pressure	0.41 MPa (60 psi) recommended

CF Modules

NOTE: CF-200 modules are compatible with disk and unibody style twist-on nozzles.

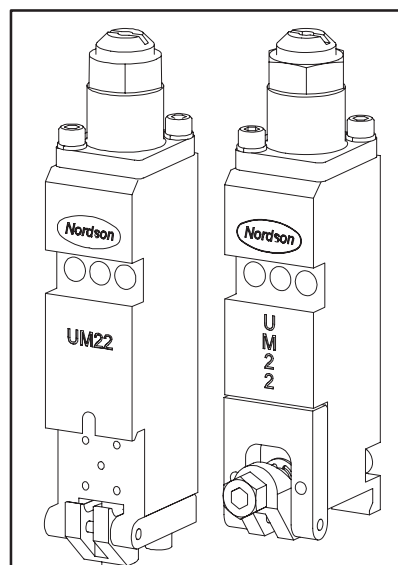
Part Number	Description
144906	Standard Module
753166	Right Angle Module
860924	22 mm Blank Module

Non-Contact Adhesive Module Selection

Universal 22 mm (UM22)

Nordson UM22 Universal modules offer speed, repeatability and long life in an economical package. These pneumatically actuated modules feature an innovative seal cartridge assembly that simplifies rebuilding, and ensures repeatable performance. UM22 modules are compatible with the Universal series nozzles, providing application flexibility and reducing inventory requirements. Modules are fully compatible with applicators equipped with 200-Series spray modules mounted on 22 mm or greater centers.

- Single platform eliminates the need for application-specific designs and reduces spare parts requirements, minimizing inventory costs
- Seal cartridge simplifies rebuilding and provides consistent module performance
- Trouble-free nozzle cleaning maximizes uptime
- Patented single-screw clamp mechanism allows quick nozzle replacement, enabling fast changeovers
- Compatibility with the Nordson OptiStroke™ needle stroke detection system reduces product waste and confirms hot melt adhesive dispensing performance



- Proven valve technology helps maximize productivity by performing reliably in demanding applications

NOTE: *UM22 modules are compatible with all 22 mm Universal style nozzles.*

Specifications

Parameter	Specification
Module width	22 mm
Nozzle compatibility	All 22 mm Universal nozzles
Operating temperature	70-205 °C (160-400 °F)
Working hydraulic pressure	1.38-5.52 MPa (200-800 psi)
Maximum hydraulic pressure	8.96 MPa (1300 psi)
Maximum hydraulic flow	110 g/min @10,000 cps, 14g/m ² @ 300 m/min
Actuation air pressure	0.41 MPa (60 psi) recommended
Cycles ⁽¹⁾	Up to 2500 cycles/minute

⁽¹⁾ Maximum number of cycles depends on operating and control air pressure, as well as adhesive viscosities.

Part Numbers

Part Number	Description
1048999	Standard Module
1054932	Right Angle Design Module
1063255	Universal Style Blank Module
1049909	Rebuild Kit, UM22/25, Minor
1049908	Rebuild Kit, UM22/25, Major



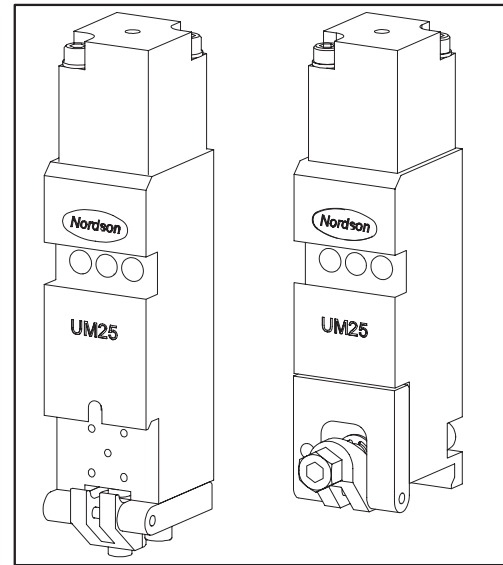
To place your order, NAD call 1-888-NORDSON (1-888-667-3766), fax 1-770-497-3733 or online at www.enordson.com. International Orders, call 1-440-985-4797, fax 1-440-985-1096, or email intcustomerservice@nordson.com

Non-Contact Adhesive Module Selection

Universal 25 mm (UM25)

Nordson UM25 Universal modules offer speed, repeatability and long life in an economical package. These pneumatically actuated modules feature an innovative seal cartridge assembly that simplifies rebuilding, and ensures repeatable performance. UM25 modules are compatible with the Universal series nozzles, providing application flexibility and reducing inventory requirements. Modules are fully compatible with applicators equipped with 200-Series spray modules mounted on 25 mm or greater centers.

- Single platform eliminates the need for application-specific designs and reduces spare parts requirements, minimizing inventory costs.
- Seal cartridge simplifies rebuilding and provides consistent module performance.
- Trouble-free nozzle cleaning maximizes uptime.
- Patented single-screw clamp mechanism allows quick nozzle replacement, enabling fast changeovers.
- Compatibility with the Nordson OptiStroke™ needle stroke detection system reduces product waste and confirms hot melt adhesive dispensing performance



- Proven valve technology helps maximize productivity by performing reliably in demanding applications. Compatibility with the Nordson OptiStroke™ needle stroke detection system reduces product waste and confirms hot melt adhesive dispensing performance.

NOTE: UM25 modules are compatible with all 25 mm Universal style nozzles and 22 mm Universal CF Nozzles.

Specifications

Parameter	Specification
Module width	25 mm
Nozzle compatibility	All 25 mm Universal nozzles
Operating temperature	70-205 °C (160-400 °F)
Working hydraulic pressure	1.38-5.52 MPa (200-800 psi)
Maximum hydraulic pressure	8.96 MPa (1300 psi)
Maximum hydraulic flow	110 g/min @10,000 cps, 14g/m ² @ 300 m/min
Actuation air pressure	0.41 MPa (60 psi) recommended
Cycles ⁽¹⁾	Up to 2500 cycles/minute

⁽¹⁾ Maximum number of cycles depends on operating and control air pressure, as well as adhesive viscosities.

Part Numbers

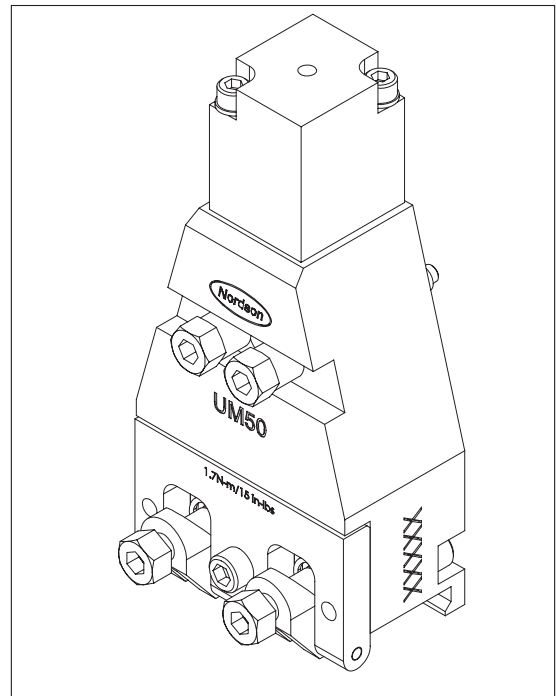
Part Number	Description
1048996	Standard Module
1050434	Right Angle Design Module
1026885	Universal Style Blank Module
1049909	Rebuild Kit, UM22/25, Minor
1049908	Rebuild Kit, UM22/25, Major

Non-Contact Adhesive Module Selection

Universal 50 mm (UM50)

Nordson UM50 Universal modules represent an economical choice for continuous coating applications. These pneumatically actuated modules feature an innovative seal cartridge assembly that simplifies rebuilding, and ensures repeatable performance. UM50 modules are compatible with the Universal series nozzles, providing application flexibility and reducing inventory requirements. Modules are fully compatible with applicators equipped with 200-Series spray modules mounted on 50 mm or greater centers.

- Single platform eliminates the need for application-specific designs and reduces spare parts requirements, minimizing inventory costs.
- Seal cartridge simplifies rebuilding and provides consistent module performance.
- Trouble-free nozzle cleaning maximizes uptime.
- Patented single-screw per nozzle clamp mechanism allows quick nozzle replacement, enabling fast changeovers.
- Proven valve technology helps maximize productivity by performing reliably in demanding applications



NOTE: UM50 modules are compatible with all 25 mm Universal style nozzles and 22 mm Universal CF Nozzles.

Specifications

Parameter	Specification
Module width	50 mm
Nozzle compatibility	All 25 mm Universal nozzles
Operating temperature	70-205 °C (160-400 °F)
Working hydraulic pressure	1.38-5.52 MPa (200-800 psi)
Maximum hydraulic pressure	8.96 MPa (1300 psi)
Maximum hydraulic flow	110 g/min @10,000 cps, 7g/m ² @ 300 m/min
Actuation air pressure	0.41 MPa (60 psi) recommended
Cycles ⁽¹⁾	Up to 2500 cycles/minute

Note: Maximum number of cycles depends on operating and control air pressure, as well as adhesive viscosities.

Part Numbers

Part Number	Description
1059601	Standard Module
1063255	Universal Style Blank Module
1049909	Rebuild Kit,UM22/25,Minor
1049908	Rebuild Kit,UM22/25,Major

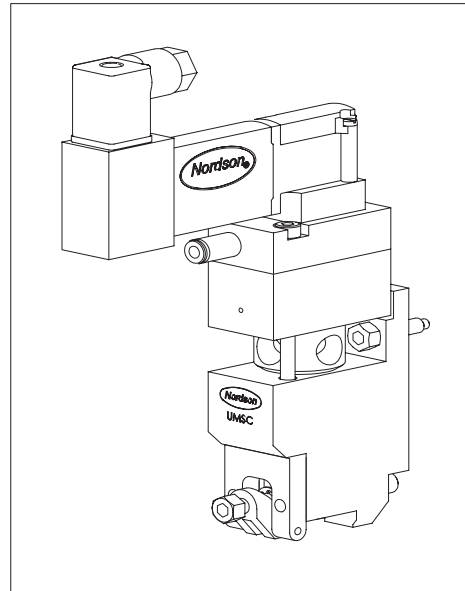


Non-Contact Adhesive Module Selection

High Speed Universal (UMSC)

Nordson 25mm Universal SpeedCoat Modules are pneumatically actuated, rebuildable and feature snuff-back operation, enhancing pattern control at the leading and trailing edges. Universal SpeedCoat modules are compatible with the Universal series nozzles, thereby offering application flexibility and reducing inventory requirements.

- Optimized snuff-back control module supports increased line speeds and delivers precise adhesive cutoff, minimizing contamination between patterns.
- State of the art speed and long life meets demanding production requirements.
- Reliable, pneumatically actuated design.
- Includes and easily serviced close-coupled 24 VDC solenoid valve.
- Patented single-screw clamp mechanism allows quick nozzle replacement, enabling fast changeovers.
- Compatibility with Nordson Optistroke™ needle stroke detection system reduces product waste and confirms hot melt adhesive dispensing performance.



- Proven valve technology helps maximize productivity by performing reliably in the most demanding applications.

NOTE: UMSC Modules are Compatible with all 25mm Universal Style Nozzles and 22mm Universal CF Nozzles.

Specifications

Parameter	Specification
Module width	25 mm
Nozzle compatibility	All 25 mm Universal nozzles
Operating temperature	70-205 °C (160-400 °F)
Working hydraulic pressure	1.38-5.52 MPa (200-800 psi)
Maximum hydraulic pressure	8.96 MPa (1300 psi)
Maximum hydraulic flow	110 g/min @10,000 cps, 14g/m ² @ 300 m/min
Actuation air pressure	5-6 bar (72-87 psi)
Cycles ⁽¹⁾	Up to 9000 cycles/min
Control voltage	24 VDC

Note: Maximum number of cycles depends on operating and control air pressure, as well as adhesive viscosities.

Part Numbers

Part Number	Description
1050550	UMSC Module, Complete With Spray Adapter
1049216	Spray Adapter Kit
7103660	Control Module Only

Non-Contact Adhesive Module Selection

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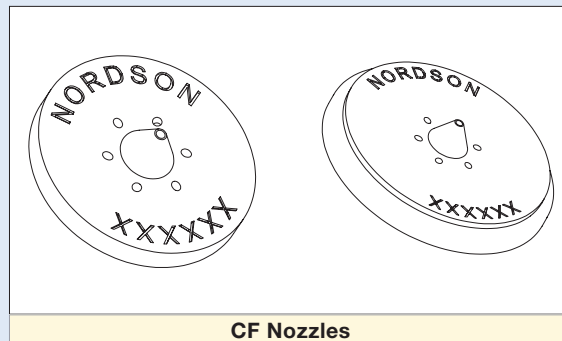


Spray Nozzles

Controlled Fiberization Nozzles

Description

Nordson Controlled Fiberization (CF) nozzles deliver consistent, accurate adhesive patterns for a wide variety of hot melt adhesive spray applications. CF nozzles utilize a series of radially tangential air jets to oscillate a single adhesive fiber, producing patterns ranging from dense, high strength bonds to open patterns for high permeability. Traditional CF nozzles are available in two different styles: disk and unibody. These nozzles are compatible with the CF200 series modules.



CF Nozzles



Watch Video

CF Disk Nozzles

Standard Frequency (6-hole) Bronze CF Disk Nozzles

Part Number	Orifice Diameter mm (in.)	Pattern
860548	.30 (.012)	Standard
1047071		Wide
758432	.46 (.018)	Narrow
860226		Standard
1047073		Wide
860435	.51 (.020)	Standard
1047074		Wide
100728	.64 (.025)	Standard
810381	.76 (.030)	Standard
1047074		Wide

Disk Nozzle Accessories

Part Number	Description
754766	Torque Limiting Wrench, 2.26 N•m (20 in.-lb)
119202	Nozzle Retaining Nut
901915	Nozzle Cleaning Kit, Pin Vise With Probes

Spray Nozzles

Controlled Fiberization Nozzles

Unibody CF Spray (6-hole) Nozzles

CF Spray Nozzles

These nozzles are compatible with CF-200 module and Universal style modules with use of an adapter.

Part Number	Orifice Diameter mm (in.)	Pattern
756952	.30 (.012)	Narrow
152168		Standard
1046126		Wide
1047032	.46 (.018)	Narrow
152171		Standard
1046150		Wide
1047033	.51 (.020)	Narrow
152172		Standard
1046151		Wide
1047034	.64 (.025)	Narrow
156698		Standard
1046152		Wide
1060556	.76 (.030)	Narrow
152173		Standard
1046156		Wide
1020638	CF Nozzle Adapter, Universal Modules	

Unibody Standard Frequency (6-hole) Color-Coded Steel Spray Nozzles

These nozzles are compatible with CF-200 modules and Universal-style modules with use of an adapter.

Part Number	Orifice Diameter mm (in.)	Pattern	Color Code
753488	.30 (.012)	Standard	Brown
753489	.36 (.014)	Standard	Gray
753491	.41 (.016)	Standard	Green
753492	.46 (.018)	Standard	Blue
1046158		Wide	Yellow
753493	.51 (.020)	Standard	Red
754963		Wide	Orange
753494	.64 (.025)	Standard	Pink
753495	.76 (.030)	Standard	Black
1046160		Wide	Purple
753496	1.02 (.040)	Standard	Maroon
1020638	CF Nozzle Adapter, Universal Modules		

Spray Nozzles

Controlled Fiberization Nozzles

High Frequency (12-hole) Bronze CF Unibody Nozzles

These nozzles are compatible with CF-200 module and Universal-style modules with use of an adapter.

Part Number	Orifice Diameter mm (in.)	Pattern
755957	.30 (.012)	Standard
1046125		Wide
756306	.36 (.014)	Standard
756307	.41 (.016)	Standard
755530	.46 (.018)	Standard
1046128		Wide
756308	.51 (.020)	Standard
756309	.64 (.025)	Standard
756115	.76 (.030)	Standard
1046154		Wide
1020638	CF Nozzle Adapter, Universal Modules	

Unibody Nozzle Accessories

Part Number	Description
940031	Nozzle O-ring Seal
133665	Nozzle O-ring Seal. 10 Pack With Insertion Tools
133664	Nozzle O-ring Seal. 25 Pack With Insertion Tools
133663	Nozzle O-ring seal. 100 Pack With Insertion Tools
754767	Torque Limiting Wrench, .57 N•m (5 in.-lb)
901915	Nozzle Cleaning Kit, Pin Vise With Probes

Spray Nozzles

Controlled Fiberization Nozzles

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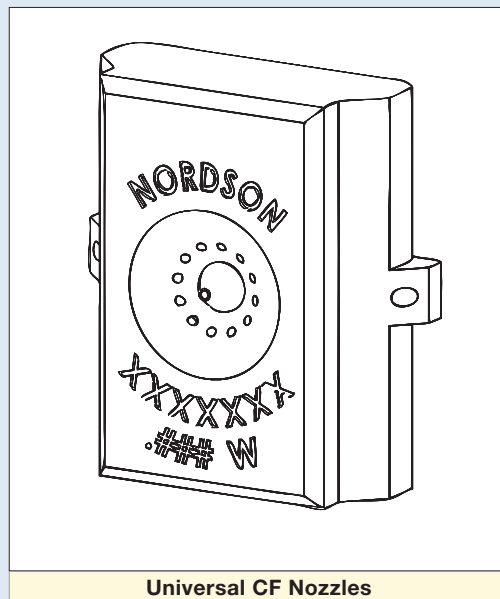


Spray Nozzles

Universal Controlled Fiberization Nozzles

Description

Nordson Universal Controlled Fiberization (CF) nozzles deliver consistent, accurate adhesive patterns for a wide variety of hot melt adhesive spray applications. Universal CF nozzles utilize a series of twelve radially tangential air jets to oscillate a single adhesive fiber, producing high frequency patterns ranging from dense, high strength bonds to open patterns for high permeability. Universal CF nozzles feature a resilient seal for positive sealing and a recessed conical tip to reduce the likelihood of damage. These nozzles are compatible with Universal series modules.



Universal CF Nozzles



Watch Video

High Frequency (12-hole) Coated Brass Universal-Style CF Spray Nozzles

These nozzles are compatible with Universal-style modules. No adapter is required.

Part Number	Orifice Diameter mm (in.)	Pattern
1053960	.30 (.012)	Standard
1053964	.30 (.012)	Wide
1053961	.41 (.016)	Standard
1053966	.41 (.016)	Wide
1054730	.46 (.018)	Standard
1054731	.46 (.018)	Wide
1049565	.51 (.020)	Standard
1052500	.51 (.020)	Wide
1053962	.64 (.025)	Standard
1053967	.64 (.025)	Wide
1053963	.76 (.030)	Standard
1053968	.76 (.030)	Wide
1019706	O-ring Seal for Universal CF Nozzles	
1020638	CF Nozzle adapter, Universal Modules	

Spray Nozzles

Universal Controlled Fiberization Nozzles

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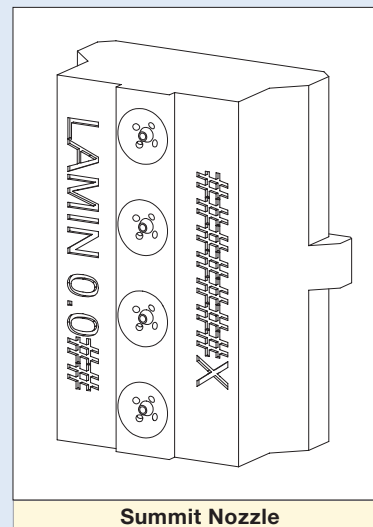


Spray Nozzles

Summit™ Nozzles

Description

Nordson Summit nozzles deliver superior control of fiber size, density and pattern width for numerous product assembly applications. This innovative design uses four radically tangential air jets to oscillate single adhesive fibers, producing a crossing pattern that enhances bonding performance. Controlled adhesive fiber deposition provides greater application uniformity and enhanced product quality. These nozzles are available in versions compatible with UM22 and UM25 modules. Universal Summit nozzles are reversible and may be oriented for either right-hand or left-hand coverage.



Summit Nozzle



Watch Video

22 mm Universal Summit Coated Brass Spray Nozzles

Part Number	No. of Orifices	Pattern
1047423	1	1/4 L/R Orientation (~5.5 mm [0.22 in.] width coverage)
1047409		1/4 Centered
1047424	2	1/2 L/R Orientation (~11 mm [0.44 in.] width coverage)
1047420		1/2 Centered
1047425	3	3/4 L/R Orientation (~16.5 mm [0.66 in.] width coverage)
1047421		3/4 Centered
1047426	4	Full Coverage (~22 mm [0.88 in.] width coverage)
1043328	O-ring Seal for 22mm Universal Summit Nozzles	

25 mm Universal Summit Coated Brass Spray Nozzles

Part Number	No. of Orifices	Pattern
1035875	1	1/4 L/R Orientation (~6.35 mm [1/4 in.] width coverage)
1035876		1/4 Centered (~6.35 mm [1/4 in.] width coverage)
1035879	2	1/2 L/R Orientation (~12.7 mm [1/2 in.] width coverage)
1035880		1/2 Centered (~12.7 mm [1/2 in.] width coverage)
1035629	3	3/4 L/R Orientation (~19 mm [3/4 in.] width coverage)
1035883		3/4 Centered (~19 mm [3/4 in.] width coverage)
1035886	4	Full Coverage (~25mm [1 in.] width coverage)
1022028	O-ring Seal for 25mm Universal Summit Nozzles	

Spray Nozzles

Summit Nozzles

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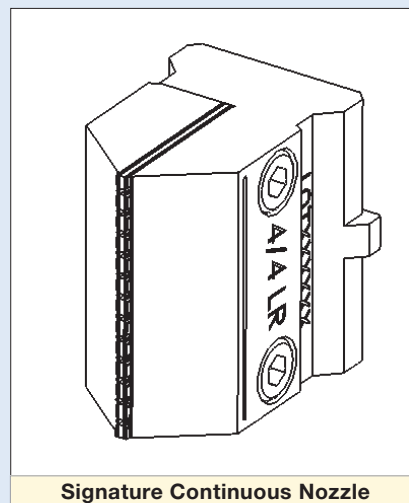


Spray Nozzles

Signature® Continuous Spray Nozzles

Description

Nordson Signature nozzles deliver superior pattern control and process robustness for diverse product assembly applications. This all steel design uses process air to oscillate adhesive fibers, producing a dense random pattern ideally suited to numerous continuous web coating and product assembly applications. Patterns are exceptionally uniform and edge control is good. These nozzles are available in versions compatible with UM22 and UM25 modules. Universal Signature nozzles are reversible and may be oriented for either right-hand or left-hand coverage. Consider low-flow nozzles when flow rate per full coverage nozzle is less than 10 grams/min.



Signature Continuous Nozzle



Watch Video

22 mm Universal Signature Steel Spray - Continuous - Standard Flow

Part Number	No. of Orifices	Pattern
1074327	3	1/4 L/R Orientation (~5.5 mm [0.22 in.] width coverage)
1074326	5	1/2 L/R Orientation (~11 mm [0.44 in.] width coverage)
1074325	8	3/4 L/R Orientation (~16.5 mm [.66 in.] width coverage)
1074324	10	Full coverage (~22 mm [0.88 in] width coverage)
254146	Quad-ring Seal for 22mm Universal Signature Nozzles	

22 mm Universal Signature Steel Spray - Continuous - Low Flow

Part Number	No. of Orifices	Pattern
1095243	3	1/4 L/R Orientation (~5.5 mm [0.22 in.] width coverage)
1095244	5	1/2 L/R Orientation (~11 mm [0.44 in.] width coverage)
1095245	8	3/4 L/R Orientation (~16.5 mm [.66 in.] width coverage)
1095246	10	Full Coverage (~22 mm [0.88 in] width coverage)
254146	Quad-ring Seal for 22mm Universal Signature Nozzles	

Spray Nozzles

Signature® Continuous Spray Nozzles

25 mm Universal Signature Steel Spray - Continuous - Standard Flow

Part Number	No. of Orifices	Pattern
1072293	3	1/4 L/R Orientation (~6.35 mm [1/4 in.] width coverage)
1072292	6	1/2 L/R Orientation (~12.7 mm [1/2 in.] width coverage)
1072291	9	3/4 L/R Orientation (~19 mm [3/4 in.] width coverage)
1072290	12	Full Coverage (~25 mm [1 in.] width coverage)
254146	Quad-ring Seal for 25mm Universal Signature Nozzles	

25 mm Universal Signature Steel Spray - Continuous - Low Flow

Part Number	No. of Orifices	Pattern
1035875	1	1/4 L/R Orientation (~6.35 mm [1/4 in.] width coverage)
1035876		1/4 Centered (~6.35 mm [1/4 in.] width coverage)
1035879	2	1/2 L/R Orientation (~12.7 mm [1/2 in.] width coverage)
1035880		1/2 Centered (~12.7 mm [1/2 in.] width coverage)
1035629	3	3/4 L/R Orientation (~19 mm [3/4 in.] width coverage)
1035883		3/4 Centered (~19 mm [3/4 in.] width coverage)
1035886	4	Full Coverage (~25mm [1 in.] width coverage)
1022028	O-ring Seal for 25mm Universal Summit Nozzles	

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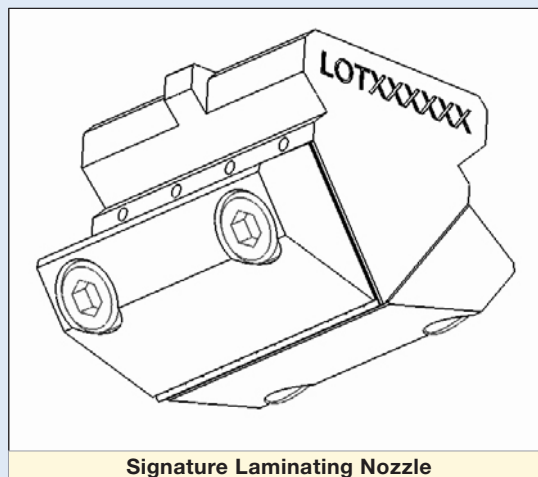


Spray Nozzles

Signature® Intermittent Spray Nozzles

Description

Nordson Signature nozzles deliver superior pattern control and process robustness for diverse product assembly applications. This all steel design uses process air to oscillate adhesive fibers, producing a dense random pattern ideally suited to numerous intermittent web coating and product assembly applications. Patterns are exceptionally uniform and edge control is good. These nozzles are available in versions compatible with UM22 and UM25 modules. Universal Signature nozzles are reversible and may be oriented for either right-hand or left-hand coverage.



Signature Laminating Nozzle



Watch Video

22 mm Universal Signature Laminating Nozzles - Intermittent

Part Number	No. of Orifices	Pattern
1092280	3	1/4 L/R Orientation (~5.5 mm [0.22 in.] width coverage)
1092281	5	1/2 L/R Orientation (~11 mm [0.44 in.] width coverage)
1092282	8	3/4 L/R Orientation (~16.5 mm [.66 in.] width coverage)
1092283	10	Full Coverage (~22 mm [0.88 in] width coverage)
254146	Quad-ring Seal for 22 mm Universal Signature Nozzles	

25 mm Universal Signature Laminating Nozzles - Intermittent

Part Number	No. of Orifices	Pattern
1088481	3	1/4 L/R Orientation (~6.35 mm [1/4 in.] width coverage)
1088480	6	1/2 L/R Orientation (~12.7 mm [1/2 in.] width coverage)
1088479	9	3/4 L/R Orientation (~19 mm [3/4 in.] width coverage)
1088478	12	Full Coverage (~25 mm [1 in] width coverage)
254146	Quad-ring Seal for 25 mm Universal Signature Nozzles	

Spray Nozzles

Signature Laminate Nozzles

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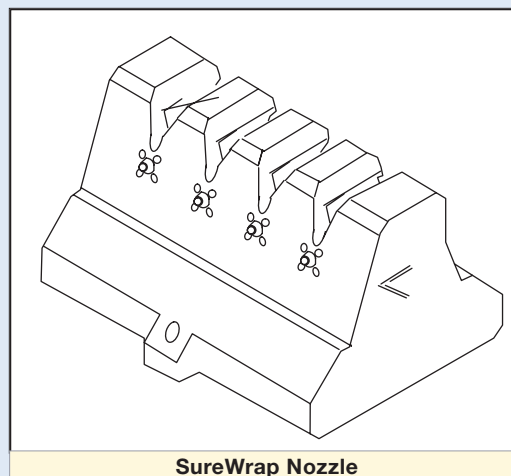


Spray Nozzles

SureWrap® Nozzles

Description

SureWrap nozzles accurately apply hot melt adhesive filaments to form discrete adhesive masses (discrete bond points) on the elastic strands used for elasticized legs, leg cuffs, and waistbands on baby diapers, training pants, and adult incontinence products. The patented SureWrap nozzle uses an integral strand guide to stabilize the elastic strand and an angular spray trajectory to maintain performance at high production speeds. Four air openings associated with each adhesive opening dispense four radially tangential air streams, causing the adhesive filament to move in a spiral pattern. The spiraling adhesive filament wraps around each strand, forming discrete adhesive masses with no useful adhesive on the strand between adjacent discrete adhesive masses. These discrete adhesive masses optimize adhesive bonding, minimize adhesive usage, and result in uniform elastic retractive forces. For a more detailed explanation of the recommended use of SureWrap nozzles, refer to *Manual Part Number 1103674*.



SureWrap nozzles may be made to order for specific elastic configuration requirements. Nozzles are available in standard nickel plated brass construction with steel inserts to resist wear or all steel versions and are compatible with Universal series modules.

22 mm Universal SureWrap Coated Brass Spray Nozzles for Thin Elastic

Part Number	No. Of Orifices	Spacing mm (in.)
1092336	1	N/A
1092402	2	3 (.12)
1092349		4 (.16)
1092339		5 (.20)
1092344	3	3 (.12)
1092405		4 (.16)
1092341		5 (.20)
1092403	4	3 (.12)
1092406		4 (.16)
1092401		5 (.20)
1043328	O-ring Seal for 22mm Universal SureWrap Nozzles	

22 mm Universal SureWrap Coated Steel Spray Nozzles for Thin Elastic

Part Number	No. Of Orifices	Spacing mm (in.)
1094438	1	N/A
1098940	2	3 (.12)
1094437		4 (.16)
1094436		5 (.20)
1098943	3	3 (.12)
1060251		4 (.16)
1094435		5 (.20)
1060435	4	3 (.12)
1060252		4 (.16)
1088841		5 (.20)
1043328	O-ring Seal for 22mm Universal SureWrap Nozzles	

SureWrap® Nozzles

25 mm Universal SureWrap Coated Brass Spray Nozzles for Thin Elastic

Part Number	No. Of Orifices	Spacing mm (in.)
1092330	1	N/A
1092337	2	3 (.12)
1090528		4 (.16)
1092308		5 (.20)
1092348	3	3 (.12)
1090529		4 (.16)
1092309		5 (.20)
1092400	4	3 (.12)
1092345		4 (.16)
1092404		5 (.20)
1022028	O-ring Seal for 25mm Universal SureWrap Nozzles	

25 mm Universal SureWrap Coated Steel Spray Nozzles for Thin Elastic

Part Number	No. Of Orifices	Spacing mm (in.)
1085563	1	N/A
1060603	2	3 (.12)
1060604		4 (.16)
1069921		5 (.20)
1054753	3	3 (.12)
1069920		4 (.16)
1090368		5 (.20)
1080828	4	3 (.12)
1054752		4 (.16)
1077926		5 (.20)
1022028	O-ring Seal for 25mm Universal SureWrap Nozzles	

Web Content



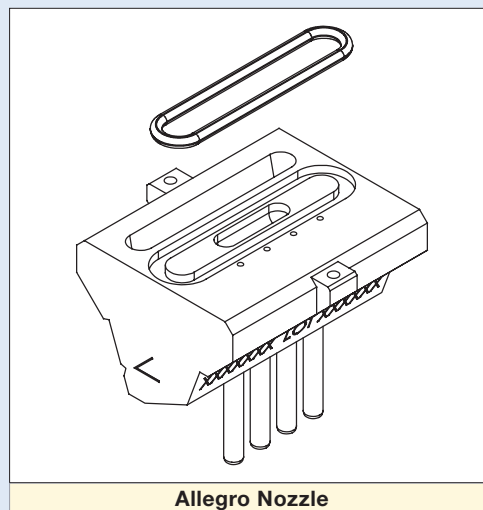
Spray Nozzles

Allegro™ Elastic Coating Nozzles

Description

Allegro nozzles accurately apply hot melt adhesive to elastic strands used for elasticized legs, leg cuffs, and waistbands on baby diapers, training pants, and adult incontinence products. The patented Allegro nozzle uses an integral strand guide to stabilize the elastic strand, proven slot coating technology, and post-slot coating pattern air to form the adhesive around the entire elastic strand. Allegro nozzles are all-steel construction with a proprietary coating for durability and improved resistance to the wear associated with the high-speed guiding of the elastic.

Allegro nozzles may be made to order for specific elastic configuration requirements. Nozzles are available in 25-22-mm sizes and are compatible with Universal series modules.



Allegro Nozzle



Watch Video

22 mm Universal Allegro Nozzles

Part Number	No. Of Streams	Spacing mm (in.)
1120749	1	N/A
1120750	2	2 (.08)
1120751		3 (.12)
1120752		4 (.16)
1120753		5 (.20)
1120754		3
1120755	3 (.12)	
1120756	4 (.16)	
1120757	5 (.20)	
1120758	4	
1120759		3 (.12)
1120760		4 (.16)
1120761		5 (.20)

NOTE: All nozzles include O-ring part 1043328.

25 mm Universal Allegro Nozzles

Part Number	No. Of Streams	Spacing mm (in.)
1120762	1	N/A
1120763	2	2 (.08)
1120764		3 (.12)
1120765		4 (.16)
1120766		5 (.20)
1120767		3
1120768	3 (.12)	
1120769	4 (.16)	
1120770	5 (.20)	
1120771	4	
1120772		3 (.12)
1120773		4 (.16)
1120774		5 (.20)

NOTE: All nozzles include O-ring part 1022028.

Spray Nozzles

Comparison Chart

Universal™ Spray Nozzle Comparison Chart

Nozzle	CF Nozzles	Summit Nozzles	Continuous Signature Nozzles	Intermittent Signature Nozzles	Control Coat Nozzles	SureWrap Nozzles	Allegro Nozzles
Strengths/ Application Requirements	High-strength bonding	High-strength coating	High-speed, continuous coating	High-speed, intermittent coating	High-speed intermittent uniform coating	Elastic attachment	Elastic attachment
Intermittent Capability	●	● ●	N/A	● ● ●	● ● ●	● ● ●	● ● ●
Bond Strength	● ● ●	● ● ●	● ●	● ●	● ●	● ● ●	● ● ●
Robust/Operating Range	● ● ●	● ●	● ● ●	● ●	●	● ● ●	● ● ●
Edge Control	● ●	● ●	● ●	● ●	● ● ●	N/A	N/A
Pattern Uniformity	●	● ●	● ● ●	● ●	● ● ●	● ● ●	● ● ●
Line Speed	●	● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
Initial Investment	● ● ●	● ●	● ●	● ●	●	● ●	● ●

● ● ●	Best
● ●	Better
●	Good
N/A	Not applicable or not intended to provide this capability



Web Content



Process Air Control Kits

Common to All Non-contact Application Systems

Air Control Kits and Accessories

Part Number	Description	Comment
1056192	Process Air Control Kit, 4-20 mA	
1056193	Process Air Control Kit, 0-10 VDC	
1056194	Transducer, Air Control, I/P, 4-20 mA	0-1 bar (0-15 psi) range
1056195	Transducer, Air Control, E/P, 0-10 VDC	
1036518	Process Air Control Kit, 4-20 mA	
1036520	Process Air Control Kit, 0-10 VDC	
1044432	Transducer, Air Control, I/P, 4-20 mA	0-3.5 bar (0.50 psi) range
1059047	Transducer, Air Control, E/P, 0-10 VDC	
1058993	Cable, Transducer, Air Control, 30 m (98 ft)	
1059041	Cable, Transducer, Air Control 20 m (65.5 ft)	
1059045	Cable, Transducer, Air Control 10 m (33 ft)	Line reference (input) signal cables
1059046	Cable, Transducer, Air Control 30 m (98 ft), bare end	

NOTE: Line reference cables are not included in the kits and must be purchased separately.

Process Air Control Kits

Common to All Non-contact Application Systems

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Series AD-41 Hand-Held Applicators

Description

Versatile AD-41 hand-held applicators adapt to production requirements with easy pattern conversions from extrusion to swirl or wide-pattern spray. A range of designs offers choice of dispensing orientations for ergonomic function and pinpoint bead placement, including bottom-feed, top-feed, and down-apply positioning.

Features

- Exposed hydraulic fitting and quick-disconnect electrical cordset speed installation and servicing. Pre-assembled hand-held applicators do not require wiring or assembly to install.
- Pattern adapters and a wide variety of nozzle styles and sizes provide easy pattern conversions for application-specific performance.
- Bottom-feed, top-feed and down-apply configurations provide diverse product assembly and sealing applications options.
- 360° swivel action gives a wide range of motion without hose twisting, improving maneuverability and reducing hose stress.
- Optional air control kit permits on-off control of air flow via the trigger switch, allowing simultaneous control of both air and adhesive flow for defined swirl or spray pattern control and repeatability.
- AD-41 LBS model incorporates a large ball-and-seat and larger flow paths for high-viscosity, filled materials and high-flow applications.
- Ergonomic design features include balanced handgrip and smooth pivot action to minimize operator fatigue and provide accuracy at any angle.
- An ever-cool handle provides comfortable operation and reduces burn risks by containing heated components and flow paths within the hand-held applicator body, not the handle.
- Convenient thumb safety switch locks the trigger to help prevent accidental dispensing.
- Impact-resistant shell and durable hose connectors, nozzle adapters and internal components extend service life.
- RTD temperature control maintains temperature stability to provide consistent adhesive viscosity and reduce temperature fluctuations that negatively affect flow and cause char formation.
- Operating temperatures range from 55–230 °C (130–450 °F) to use with a variety of adhesive formulations and substrate properties.



AD-41 Top Feed Hand-Held Applicator with Swirl Adapter and Hose



AD-41 Hand-Held Applicator

Series AD-41 Hand-Held Applicators

Specifications

Parameter	Specification
Operating temperature range	55–230 °C (130–450 °F)
Working hydraulic pressure MPa (psi)	10.34 (1,500) maximum
Air pressure ⁽¹⁾ MPa (psi)	
Swirl	0–0.1 (0–15)
Wide pattern swirl	0.03–0.55 (5–80)
Air consumption ⁽²⁾	
Swirl MPa (psi)	1.2 scfm maximum
Wide pattern swirl MPa (psi)	2.5 scfm maximum
Extrusion nozzle orifice diameters ⁽³⁾ mm (in.)	0.51, 0.76, 1.02, 1.27, 1.52, 2.29 (0.020, 0.030, 0.040, 0.050, 0.060, 0.090)
Standard	1.07, 1.55, 2.29, 3.30 (0.042, 0.061, 0.090, 0.130)
Extended	1.57, 2.36, 3.18, 3.96 (0.062, 0.093, 0.125, 0.156)
Extended for AD-41 LBS	
Swirl	0.64, 0.76, 1.17 (0.025, 0.030, 0.046)
Spray pattern width mm (in.)	6–38 (0.25–1.5)
Swirl ⁽³⁾	38–152 (1.5–6.0)
Wide-pattern spray ⁽⁴⁾	
Electrical service	240 VAC, 50/60 Hz 120 VAC, 50/60 Hz 200 VAC, 50/60 Hz
Melter compatibility	
240 VAC	PA-2510, Series 3000V, 3000 and 2300, DuraBlue
120 VAC ⁽⁵⁾	PA-2510, DuraBlue
Hose compatibility	
240 VAC	AD-41 240V hoses
120 VAC	AD-41 120V hoses
Weight kg (lb)	0.64 (1.4)

⁽¹⁾ Recommended range.

⁽²⁾ Includes operating and spray air requirements for AD-41 hand-held applicators with swirl or spray pattern adapters.

⁽³⁾ Order and purchase nozzles separately.

⁽⁴⁾ Pattern adapter for wide pattern spray is complete. It does not require a separate nozzle purchase.

⁽⁵⁾ 120V Melters require 30 amps. Consult a Nordson representative to ensure that the system configuration does not exceed the available wattage.

Series AD-41 Hand-Held Applicators

Selection Chart

Melter Model	Part Number	Voltage	Wattage	Hose Diameter	Compatible Melters
Bottom-feed SBS ⁽¹⁾	306957	240		5/16	3000V, 3000, 2300, 5000 ⁽⁴⁾⁽⁵⁾⁽⁶⁾ , BM20 ⁽⁶⁾ , DuraBlue
Top-feed SBS DuraBlue ⁽¹⁾	306988				
Bottom-feed SBS ⁽¹⁾⁽²⁾	306963	120	100		DuraBlue
Top-feed SBS ⁽¹⁾⁽²⁾	306990				
Top-feed LBS ⁽³⁾	332280	240			3000V, 3000, 2300, 5000 ⁽⁴⁾⁽⁵⁾⁽⁶⁾ , BM20 ⁽⁶⁾ , DuraBlue
Bottom-feed LBS ⁽³⁾	330750				
Bottom-feed SBS HMT ⁽¹⁾	725817	120	80		HMT
Bottom-feed SBS ¹⁾	1031712	200	100		DuraBlue

⁽¹⁾ Standard Ball-and-Seat (SBS) design.

⁽²⁾ Consult a Nordson representative to ensure that system configuration does not exceed available wattage.

⁽³⁾ Large Ball-and-Seat (LBS) configuration.

⁽⁴⁾ SBS hand-held applicator and swirl adapters (306983 or 306984) must be used for swirl patterns.

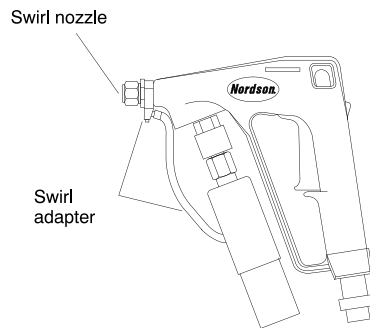
⁽⁵⁾ Pattern adapters only work with SBS hand-held applicators.

⁽⁶⁾ BM melters require use of BM hose (725634 or 725911).

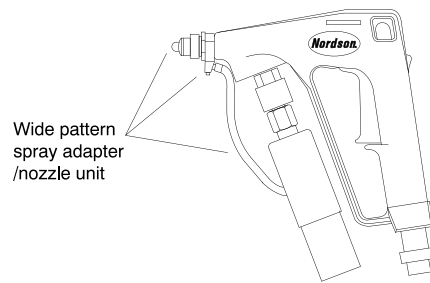
Series AD-41 Hand-Held Applicators

Dimensions

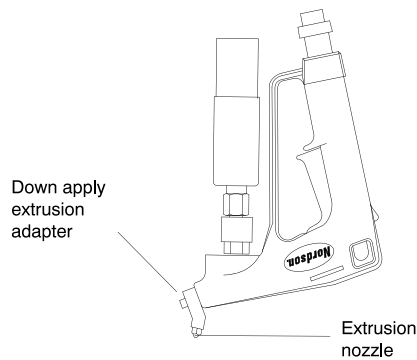
Dimensions	mm (in.)
Length	222.3 (8.75)
Depth (without nozzle)	160.3 (6.31)
Width	41.1 (1.62)



AD-41 Hand-held Applicator with Swirl Components



AD-41 Hand-held Applicator with Wide Pattern Spray Adapter/Nozzle



AD-41 Hand-held Applicator with Down-Apply Extrusion Components

Series AD-41 Hand-Held Applicators

AD-41 Nozzles and Accessories

Component	Part Number	Description	Comment
Pattern adapters	306981	Down-apply Extrusion Adapter	Order extrusion nozzle separately.
	306982	Down-apply Swirl Adapter	Use wide pattern nozzles, ordered separately. Configuration similar to down-apply extrusion adapter shown in illustration. Use with air control kit (P/N 306970) to activate air with hand-held applicator trigger.
	306983	Swirl Adapter	Use wide pattern nozzles, ordered separately. Use with air control kit (P/N 306970) to activate air with hand-held applicator trigger.
	306984	Wide-pattern spray adapter	Use with air control kit (P/N 306970) to activate air with hand-held applicator trigger. Wide-pattern swirl nozzles
Wide Pattern Swirl Nozzles	131635	1.17 mm (0.046 in.) Orifice Dia, Blue Disk	Use with swirl and down-apply swirl adapters.
	131998	0.76 mm (0.030 in.) Orifice Dia, Black Disk	
	125607	0.64 mm (0.025 in.) Orifice Dia, Gold Disk	
	238252	0.51 mm (0.020 in.) Orifice Dia	
Extrusion nozzles	238253	0.76 mm (0.030 in.) Orifice Dia	Use for AD-41 standard (SBS) and top-feed.
	238254	1.02 mm (0.040 in.) Orifice Dia	
	238256	1.52 mm (0.060 in.) Orifice Dia	
	238259	2.29 mm (0.090 in.) Orifice Dia	
	274968	1.07 mm (0.042 in.) Orifice Dia	
274969	1.55 mm (0.061 in.) Orifice Dia		
274970	2.29 mm (0.090 in.) Orifice Dia		
Extended extrusion nozzles	274971	3.30 mm (0.130 in.) Orifice Dia	Use for AD-41 LBS.
	804387	1.57 mm (0.062 in.) Orifice Dia	
	271683	2.36 mm (0.093 in.) Orifice Dia	
	271684	3.18 mm (0.125 in.) Orifice Dia	
	271685	3.96 mm (0.156 in.) Orifice Dia	

⁽¹⁾ Secure nozzle plates with nozzle cap (P/N 102406), which is included with swirl hand-held applicators. Order and purchase nozzle plates separately from hand-held applicators.

⁽²⁾ Includes one-piece nozzle-and-nut assembly. Order and purchase nozzles separately from hand-held applicators.

Series AD-41 Hand-Held Applicators

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Web Content



Series AD-31 Extrusion Hand-Held Applicators

Description

Series AD-31 extrusion hand-held applicators are compact, lightweight hand-held applicators that provide a wide range of pattern capabilities. These durable hand-held applicators combine efficient design and reliable performance for manually dispensing hot melt adhesives, sealants and other thermoplastic materials. A wide selection of models satisfies a full range of applications.

Features

- Compact, lightweight design weighs 0.80 kilogram (1.75 lb) for handling ease.
- Distinctive ever-cool handle provides comfortable operation and helps reduce risk of burns by containing heated components and adhesive-flow paths within the hand applicator body, not the handle.
- Impact-resistant molded shell extends service life.
- A 360° swivel connector eliminates hose twisting.
- Hand-held applicators employ either a preset thermostatic temperature sensor or a RTD (resistance temperature detector) sensor. RTD sensing provides temperature control precision by reducing temperature fluctuations that negatively affect flow and cause char formation.
- Choice of standard and extended nozzles with varying orifice diameters meets numerous deposition requirements.
- Hand-held applicators accommodate broad range of Nordson melters and hose diameters.



AD-31 Hand-Held Applicator with DuraBraid Hose

- The AD-31 LBS uses a large ball-and-seat and larger flow paths for handling high-viscosity or filled materials.
- Models used with gear-pump drum melters have a microswitch in the hand applicator handle to control the motor clutch and regulate adhesive flow.

Specifications

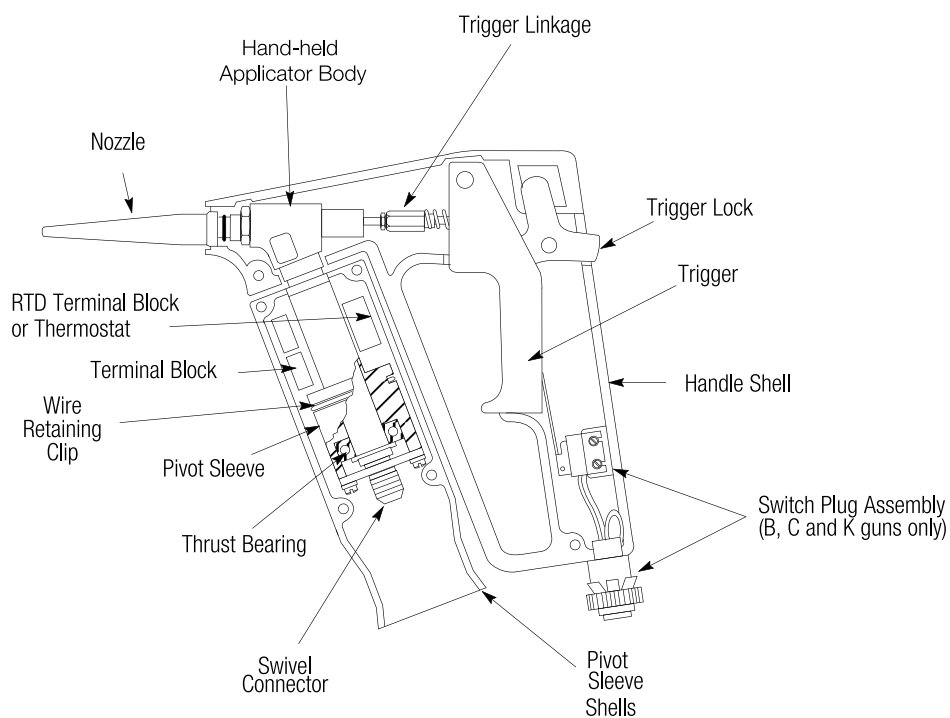
Description	Specification
Operating temperature	230 °C (450 °F) maximum
Working hydraulic pressure MPa (psi)	10.34 (1,500) maximum
Extrusion nozzle orifice diameters ⁽¹⁾	
Standard mm (in.)	0.51-2.29 (0.020-0.090)
Extended mm (in.)	1.07-3.96 (0.042-0.156)
Electrical service	240 VAC, 50/60 Hz 120 VAC, 50/60 Hz 100 VAC, 50/60 Hz 200 VAC, 50/60 Hz
Weight kg (lb)	0.80 (1.75)

⁽¹⁾ Order and purchase nozzles separately; select from nozzles in AD-41 Accessories.

Series AD-31 Extrusion Hand-Held Applicators

Dimensions

Dimensions	mm (in.)
Length	187.5 (7.38)
Depth (without nozzle)	160.3 (6.31)
Width	41.1 (1.62)



Series AD-31 Extrusion Hand-Held Applicators

Selection Chart

Melter	Hand Applicator Model	Part Number	Hose Dia. (in.)	Seat	Voltage	Wattage	Sensor Type
3000, DuraBlue	AD-31 T	274765 ⁽²⁾	5/16	SBS ⁽¹⁾	240	80	RTD
	AD-31 T-PA	174933 ⁽²⁾⁽³⁾					
	AD-31 T	179766					
	AD-31 T-PA	1001321 ⁽³⁾					
	AD-31 TL	274752 ⁽²⁾			200	60	
	AD-31 TL-PA	175299 ⁽²⁾⁽³⁾					
	AD-31 T	307712 ⁽²⁾			120	80	
	AD-31 T-PA	725953 ⁽²⁾⁽³⁾					

⁽¹⁾ SBD = Small Ball-and-Seat.

⁽²⁾ Used with hoses having corrugated plastic covers.

⁽³⁾ Recommend high performance (HP) design for polyamide applications.

AD-31 Extrusion Hand-Held Applicator Nozzles

Part Number	Description	Hand Applicator Models
238252	0.5 mm (0.020 in.), 238 Male Threaded, SBS	A, C, D, E, H, L, P, T, TL
238253	0.8 mm (0.030 in.), 238 Male Threaded, SBS	
238254	1.0 mm (0.040 in.), 238 Male Threaded, SBS	
238256	1.5 mm (0.060 in.), 238 Male Threaded, SBS	
238259	2.3 mm (0.090 in.), 238 Male Threaded, SBS	
274968	1.1 mm (0.042 in.), Male Threaded Extended, SBS	A, C, D, E, H, L, P, T, TL
274969	1.6 mm (0.061 in.), Male Threaded Extended, SBS	
274970	2.3 mm (0.090 in.), Male Threaded Extended, SBS	
274971	3.3 mm (0.130 in.), Male Threaded Extended, SBS	
804387	1.6 mm (0.062 in.), Male Threaded Extended, LBS	B, K
271683	2.4 mm (0.093 in.), Male Threaded Extended, LBS	
271684	3.2 mm (0.125 in.), Male Threaded Extended, LBS	
271685	4.0 mm (0.156 in.), Male Threaded Extended, LBS	

Series AD-31 Extrusion Hand-Held Applicators

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Web Content



AD-31 Swirl and Wide Pattern Swirl Hand-Held Applicators

Description

The AD-31 swirl and wide pattern swirl hand-held applicators produce a helical pattern with minimal thermal distortion on heat-sensitive substrates. Precise control of pattern density and thickness provides dense or open patterns for achieving the best adhesion. AD-31 hand-held applicators are ideal for pressure-sensitive hot melt adhesives, operate without heated air and provide adjustment to vary spray pattern width.

Features

- Hand-held applicators perform well with room-temperature compressed air.
- A variety of nozzles vary pattern deposition weight and width. Widths range from 6 to 152 mm (0.25 to 6 in.).
- Lower heat density of swirl patterns minimizes thermal distortion on heat-sensitive substrates.
- Compact, lightweight design weighs 0.8 kilogram (1.75 lb) for handling ease.
- Distinctive ever-cool handle provides comfortable operation and helps reduce risk of burns by containing heated components and adhesive-flow paths within the hand applicator body, not the handle.
- Impact-resistant molded shell extends service life.
- A 360° swivel connector eliminates hose twisting.
- Hand-held applicators employ either a preset thermostatic temperature sensor or a RTD (resistance temperature detector) sensor. RTD sensing provides temperature control precision by reducing temperature fluctuations that negatively affect flow and cause char formation.
- AD-31 wide pattern swirl hand-held applicators have large internal air passages that provide higher air flow rate at lower atomizing pressures. Select hand-held applicators have higher wattage heaters to compensate for the cooling tendency caused by higher air and adhesive flow rates.
- Wide pattern swirl nozzles provide high adhesive.
- Hand-held applicators accommodate broad range of Nordson melters.



AD-31 Swirl and Wide Pattern Swirl Hand-Held Applicator

AD-31 Swirl and Wide Pattern Swirl Hand-Held Applicators

Specifications

Parameter	Specification
Operating temperature	230°C (450°F) maximum
Working hydraulic pressure MPa (psi)	10.34 (1,500) maximum
Air pressure ⁽¹⁾	
Swirl	0-0.1 (0-15)
Wide pattern swirl	0.03-0.55 (5-80)
Air consumption ⁽²⁾	
Swirl MPa (psi)	1.2 scfm maximum
Wide pattern swirl MPa (psi)	2.5 scfm maximum
Pattern width ⁽³⁾	
Swirl mm (in.)	6-38 (0.25-1.5)
Wide pattern swirl mm (in.)	38 to 152 (1.5 to 6)
Electrical service	240 VAC, 50/60 Hz 120 VAC, 50/60 Hz 200 VAC, 50/60 Hz
Weight kg (lb)	0.8 (1.75)

⁽¹⁾ Recommended range.

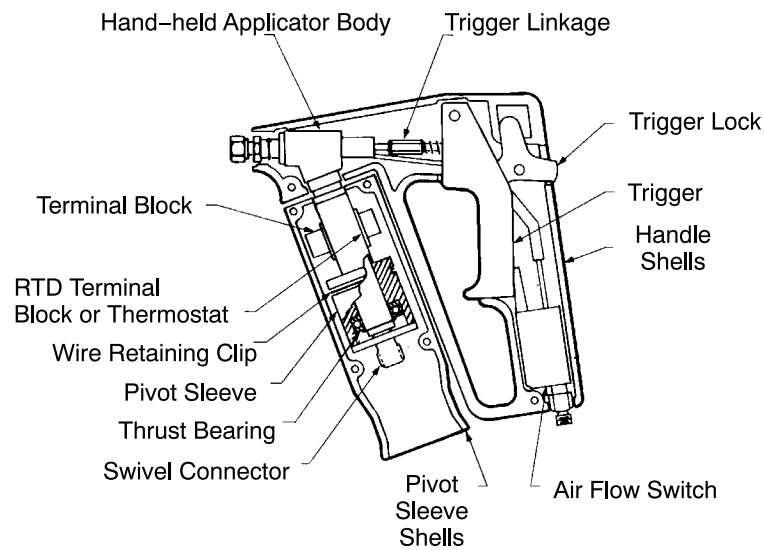
⁽²⁾ Includes operating air and spray air requirements.

⁽³⁾ Order and purchase nozzles and nozzle plates separately; see AD-31 Swirl Hand-Held applicator Accessories. Achievable pattern width depends on adhesive/sealant specifications. RTD-controlled hand-held applicators recommended for pattern precision.

AD-31 Swirl and Wide Pattern Swirl Hand-Held Applicators

Dimensions

Dimensions	mm (in.)
Length	187 (7.38)
Depth (w/o nozzle)	160 (6.31)
Width	41 (1.62)



AD-31 Swirl and Wide Pattern Swirl Hand-Held Applicators

Selection Chart

Melter Model	Hand-Held Applicator Model ⁽¹⁾⁽³⁾	Part Number	Hose Diameter	Voltage	Wattage
3000, 2300, DuraBlue	AD-31 STR-WP	137217 ⁽²⁾	5/16	240	80
	AD-31 STR	101206 ⁽²⁾			
	AD-31 SCR	101207			

⁽¹⁾ Requires air hose installation kit (P/N 324287); see AD-31 Swirl Hand-Held applicator Accessories.

⁽²⁾ Used with hoses having corrugated plastic covers.

⁽³⁾ All hand-held applicators have RTD type sensors.

AD-31 Swirl Hand-Held Applicator Nozzles and Accessories

Accessory	Part Number	Description	Comment
Wide Pattern Swirl Nozzles	131635	1.17 mm (0.046 in.), Blue Disk ⁽²⁾	
	131998	0.76 mm (0.030 in.), Black Disk ⁽²⁾	
	125607	0.64 mm (0.025 in.), Gold Disk ⁽²⁾	
Nozzle Plates for AD-31 Swirl ⁽¹⁾	860548	0.30 mm (0.012 in.) Orifice	
	860574	0.36 mm (0.014 in.) Orifice	
	860575	0.41 mm (0.016 in.) Orifice	
	860226	0.46 mm (0.018 in.) Orifice	
	860435	0.51 mm (0.020 in.) Orifice	
	100728	0.64 mm (0.025 in.) Orifice	
	810381	0.76 mm (0.030 in.) Orifice	
	810382	1.02 mm (0.040 in.) Orifice	
810300	1.27 mm (0.050 in.) Orifice		
Kits	324287	Air Hose Kit	Order for all AD-31 swirl hand-held applicators.

⁽¹⁾ Secure nozzle plates with nozzle cap (P/N 102406), which is included with swirl hand-held applicators. Order and purchase nozzle plates separately from hand-held applicators.

⁽²⁾ Includes one-piece nozzle-and-nut assembly. Order and purchase nozzles separately from hand-held applicators.

Web Content



AD-31 Spray Hand-Held Applicators

Description

AD-31 spray hand-held applicators use compressed air to atomize hot melt adhesive. Independent atomizing air and pattern air control allows adjustment of pattern size, shape and density.

Features

- Independent controls for atomizing and pattern air utilize one standard spray nozzle that yields pattern widths ranging from 51 to 203 mm (2 to 8 in.).
- Micro-adjust feature alters material flow at the nozzle orifice.
- Two independently heated and controlled temperature zones improve temperature stability to minimize the cooling effect of expanding spray air. Each zone, located in the pivot sleeve and in the nozzle section, contains a separate heater and temperature sensor, allowing use of room temperature compressed air.
- Depending on the applicator, hand-held applicators employ either a preset thermostatic temperature sensor or a RTD (resistance temperature detector) sensor. RTD sensing provides temperature control precision by reducing temperature fluctuations that negatively affect flow and cause char formation.
- Hand-held applicators with RTD sensors require an extra temperature control channel for the hand applicator nozzle section. Cordsets that connect the control channel to the nozzle section are available in different lengths to accommodate hose length.
- A 260 °C (500 °F) overtemperature thermostat in the nozzle section shuts off heater power in case of abnormally high temperature conditions.
- A 190 °C (375 °F) thermostat is standard on thermostatically controlled hand-held applicators. Optional thermostats for different temperature settings are available for customer installation.
- Distinctive ever-cool handle provides comfortable operation and helps reduce risk of burns by containing heated components and adhesive-flow paths within the hand applicator body, not the handle. Impact resistant molded shell extends service life.
- A 90° hose swivel permits ease of movement and limits hose twisting.
- Hand-held applicators accommodate broad range of Nordson melters.



AD-31 Spray Hand-Held Applicator

AD-31 Spray Hand-Held Applicators

Specifications

Parameter	Specification
Operating temperature	230 °C (450 °F) maximum
Working hydraulic pressure MPa (psi)	10.34 (1,500) maximum
Air pressure ⁽¹⁾ MPa (psi)	0.28–0.55 (40–80)
Air consumption ⁽²⁾	4 scfm maximum
Pattern width ⁽³⁾ mm (in.)	51–203 (2–8)
Electrical service	240 VAC, 50/60 Hz 120 VAC, 50/60 Hz 200 VAC, 50/60 Hz
Weight kg (lb)	1.5 (3.25)

⁽¹⁾ Recommended range.

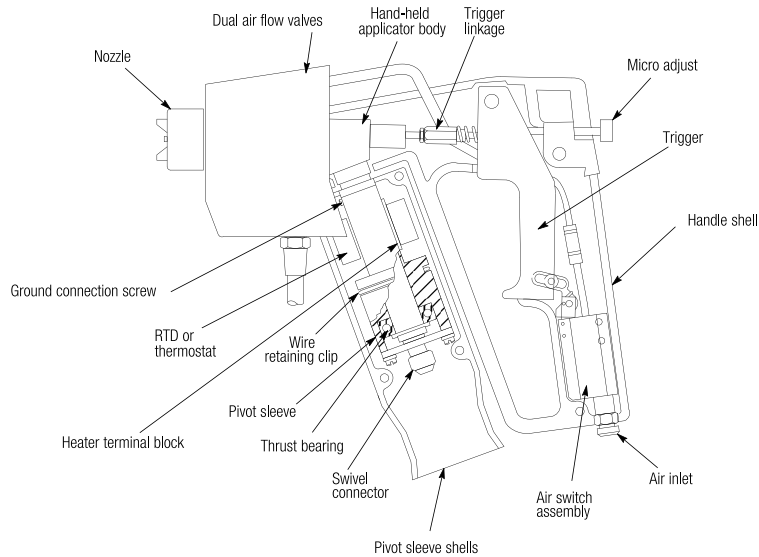
⁽²⁾ Includes operating air and spray air requirements.

⁽³⁾ Achievable pattern width depends on adhesive/sealant specifications. RTD-controlled hand-held applicators recommended for pattern precision.

AD-31 Spray Hand-Held Applicators

Dimensions

Dimensions	mm (in.)
Length	213 (8.40)
Depth (without nozzle)	210 (8.25)
Width	53 (2.08)



AD-31 Spray Hand-Held Applicators

Selection Chart

Melter Model	Hand-Held Applicator Model ⁽¹⁾⁽³⁾	Part Number	Hose Diameter	Voltage	Wattage
3000, 2300, DuraBlue	AD-31 STR-WP	137217 ⁽²⁾	5/16	240	80
	AD-31 STR	101206 ⁽²⁾			
	AD-31 SCR	101207			

⁽¹⁾ Requires air hose installation kit (P/N 324287); see AD-31 Spray Hand-Held Applicator Accessories.

⁽²⁾ Used with hoses having corrugated plastic covers.

⁽³⁾ All hand-held applicators have RTD type sensors.

AD-31 Spray Hand-Held Applicator Accessories

Accessory	Part Number	Description	Comment
Cordsets	104992	Hand Applicator Cordset, 2.4 m (8 ft)	Cordsets required for AD-31 ST, STL and SC hand-held applicators. ⁽¹⁾ Order at least the same length as hose.
	104993	Hand Applicator Cordset, 2.4 m (8 ft)	
	104994	Hand Applicator Cordset, 2.4 m (8 ft)	
	105709	Hand Applicator Cordset, 2.4 m (8 ft)	
Controller	107246	Standalone Controller	Order for AD-31 SC used w/drum melters; or when no spare temperature control channels are available on Series 2300, 3000 or 6000 applicators.
Kits	324287	Air Hose Kit	Order for all units except Model 115/Hot Shot.

⁽¹⁾ When used with Series 2300, 3000 or 6000 applicators, the cordset can connect to a spare channel, if available. If no spare temperature control channels are available, or when using an AD-31 SC hand applicator, use a standalone controller (part 107246) with the appropriate cordset.

Web Content



Select Series Hand-Held Applicators

Description

Select Series hand-held applicators provide Nordson quality hand-held applicators to fit melters from Hot Melt Technologies (HMT). The AD-31/AD-41 hand-held applicators are equipped with the appropriate cordsets and proper electrical/hudraulic connectors for easy installation on other manufacturers’ melters.

The Select Series hand-held applicators are available in the AD-31 or in the AD-41 version. These hand-held applicators deliver many benefits, including:

- Lightweight, ergonomic design with “ever cool” handgrip offers greater operator comfort, increasing productivity and reducing physical stress.
- Efficient, on-line nozzle conversions for AD-41 hand-held applicators deliver a variety of interchangeable nozzles for extrusion, swirl or spray.
- Top feed or bottom feed AD-41 hand-held applicators give you more flexibility.
- 360 degree swivel connector eliminates hose twisting and permits smooth operation, even at 1500 psi.
- AD-31-PA hand-held applicators are ideal for polyamide applications or for chemically aggressive and/or high-temperature adhesives.



AD-31 Hand-Held Applicator



AD-41 Hand-Held Applicator

Hand-Held Applicators for HMT ProFlex

Part Number	Description
725916	AD-31-H
725817	AD-41-H

Select Series Hand-Held Applicators

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Web Content



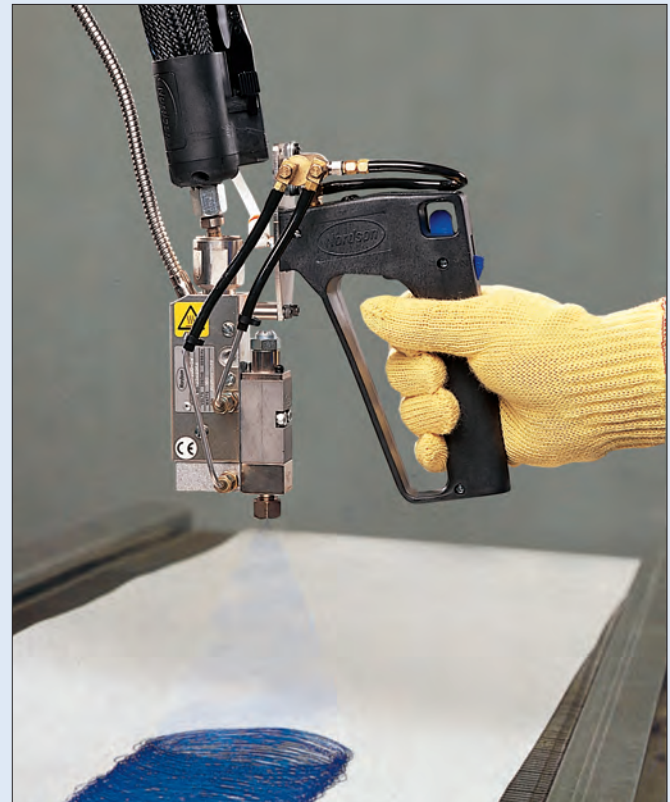
Series FP-200 Hand-Held Applicators

Description

Ergonomically designed hand-held applicators help minimize physical stress and fatigue in manually applying hot melt adhesives to horizontal substrates. When combined with the appropriate tool-balance devices, Series FP-200 hand-held applicators allow the operator to maintain a neutral wrist position. Weight-supported design and ergonomic configuration help reduce worker fatigue and physical stress in benchtop gluing applications such as automotive panels, appliance panels and furniture.

Features

- FP-200 hand-held applicators for 2300, 3000 and PA-2500 applicators include heat shields and are designed to meet, CE, UL, and C-UL compliance requirements.
- Suspension package includes a mast, overhead swing arm and tool balancer that bear the weight of the hand-held applicator.
- Hand-held applicator assembly easily moves left or right and in or out on the swing arm relative to operator position.
- Selection of modules and nozzles provides spiral spray or bead extrusion to meet deposition requirements.
- For FP-200 hand-held applicators accommodating 2300, 3000 and PA-2500 melters, kits are available to convert swirl hand-held applicator to extrusion and extrusion hand-held applicator to swirl.
- Patented Controlled Fiberization hand-held applicators permit exceptional control of spiral pattern density and size, yielding narrow and wide pattern versatility without overspray.
- Bead extrusion hand-held applicators are available in standard and reduced cavity designs with a choice of nozzle and orifice diameters.
- Trigger handle adjusts throughout a range of positions, and auxiliary guide handle permits two-handed use for further control. Handle position accommodates either left or right-hand use.
- Light-touch trigger activates an air valve or microswitch in hand-held applicator handle, providing instant adhesive flow.



FP-200 Hand-Held Applicator Dispensing Swirl Pattern

- Patented multi-plane swivel provides angle movement up to 2° from centerline to further reduce wrist stress.
- Compact body design optimizes pattern visibility and maneuvering in difficult-to-reach areas.
- Modules are interchangeable for ease of cleaning and replacement.
- Air-open, spring-close hand-held applicator design includes long-life seals and provides superior cutoff, pattern uniformity, and the ability to dispense a wide range of hot melt adhesives and sealants.
- Precise RTD sensing controls hand-held applicator temperature to within ± 0.5 .
- Quick-disconnect electrical plugs speed installation and servicing

Series FP-200 Hand-Held Applicators

Specifications

Parameter	Specification
Pattern type ⁽¹⁾ <ul style="list-style-type: none"> FP-200 standard FP-200 reduced cavity FP-200 CF FP-200 CF-WP 	<ul style="list-style-type: none"> Bead Bead Swirl Wide swirl
Operating temperature	230 °C (450 °F) maximum
Working hydraulic pressure MPa (psi)	10.34 (1,500) maximum
Air pressure ⁽²⁾ MPa (psi)	
<ul style="list-style-type: none"> FP-200 standard and reduced cavity FP-200 CF swirl and wide pattern 	0.21-0.42 (30-60) 0.27-0.48 (40-70)
Air consumption	3.2 scfm maximum
Spray pattern width ⁽³⁾ mm (in.)	
<ul style="list-style-type: none"> FP-200 CF FP-200 CF-WP 	6-38 (0.25-1.5) 25-152 (1-6)
Nozzle orifice diameters ⁽⁴⁾ mm (in.)	
<ul style="list-style-type: none"> FP-200 standard FP-200 extended extrusion FP-200 reduced cavity FP-200 CF swirl FP-200 CF swirl - wide pattern 	0.203-0.61 (0.008-0.024) 0.64-4.75 (0.025-0.187) 0.20-0.51 (0.008-0.020) 0.20-1.27 (0.008-0.050) 0.64-1.17 (0.025-0.046)
Electrical service	220-240 VAC, 50/60 Hz

⁽¹⁾ FP-200 hand-held applicators are compatible with most Nordson applicators, both RTD and thermostatic-based technology.

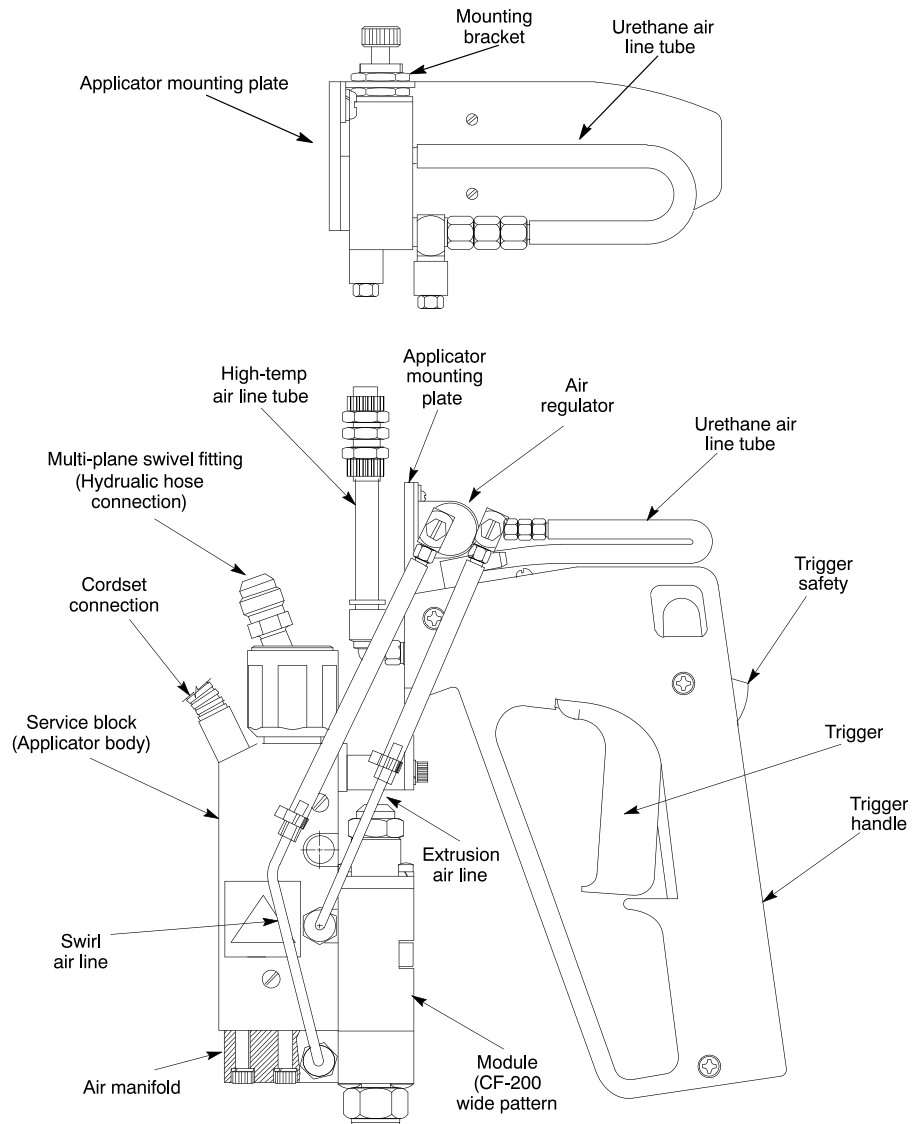
⁽²⁾ Recommended range. Dry, regulated, unlubricated air required for consistent hand-held applicator operation. Module performance and durability will be negatively affected if operated outside the recommended range. Volumetric air requirements will vary with hand-held applicator configuration and application.

⁽³⁾ Maximum achievable swirl pattern width depends on adhesive being dispensed.

⁽⁴⁾ Order nozzles separately on standard extrusion hand-held applicators. For reduced cavity modules, specify nozzle diameter with hand-held applicator purchase as nozzle is an integral component of RC modules.

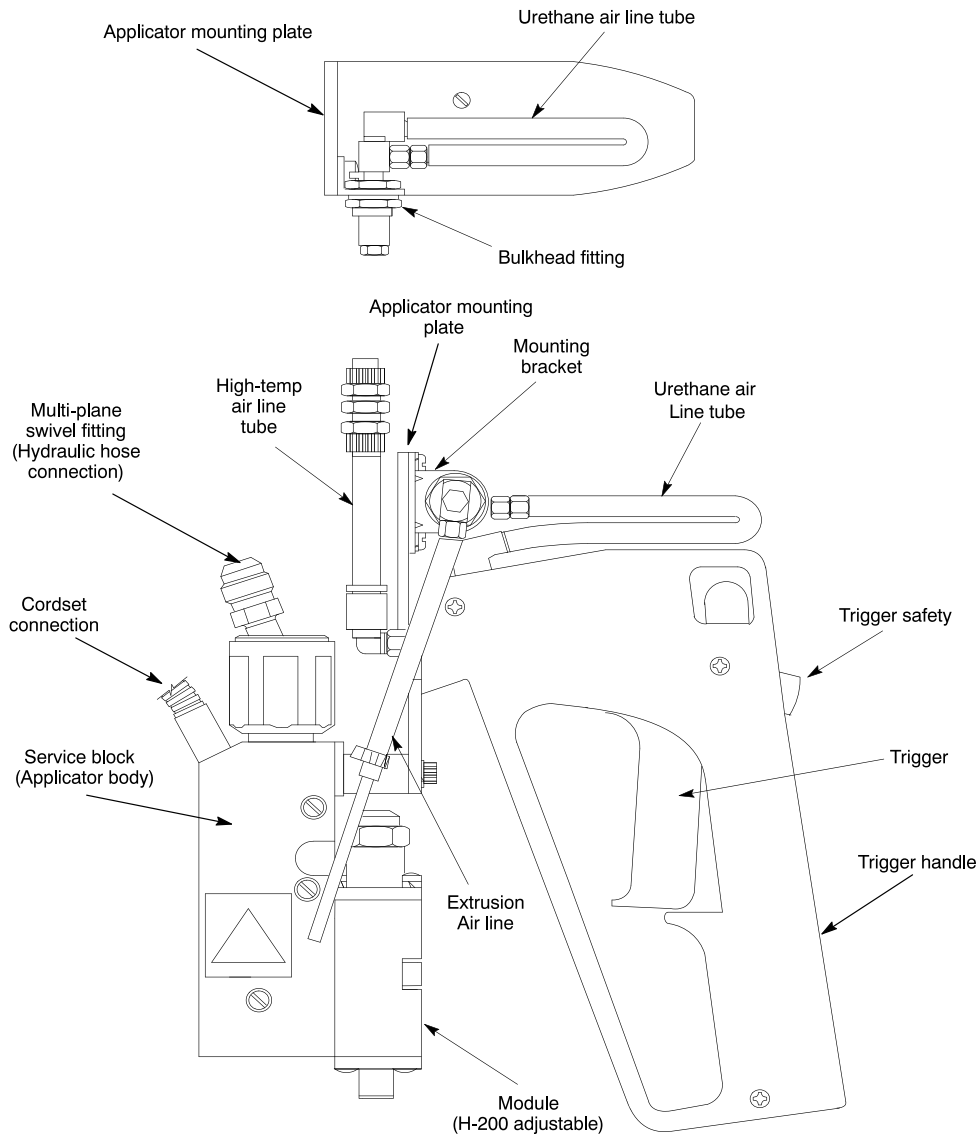
Series FP-200 Hand-Held Applicators

FP-200 Hand-Held Swirl Applicator Components



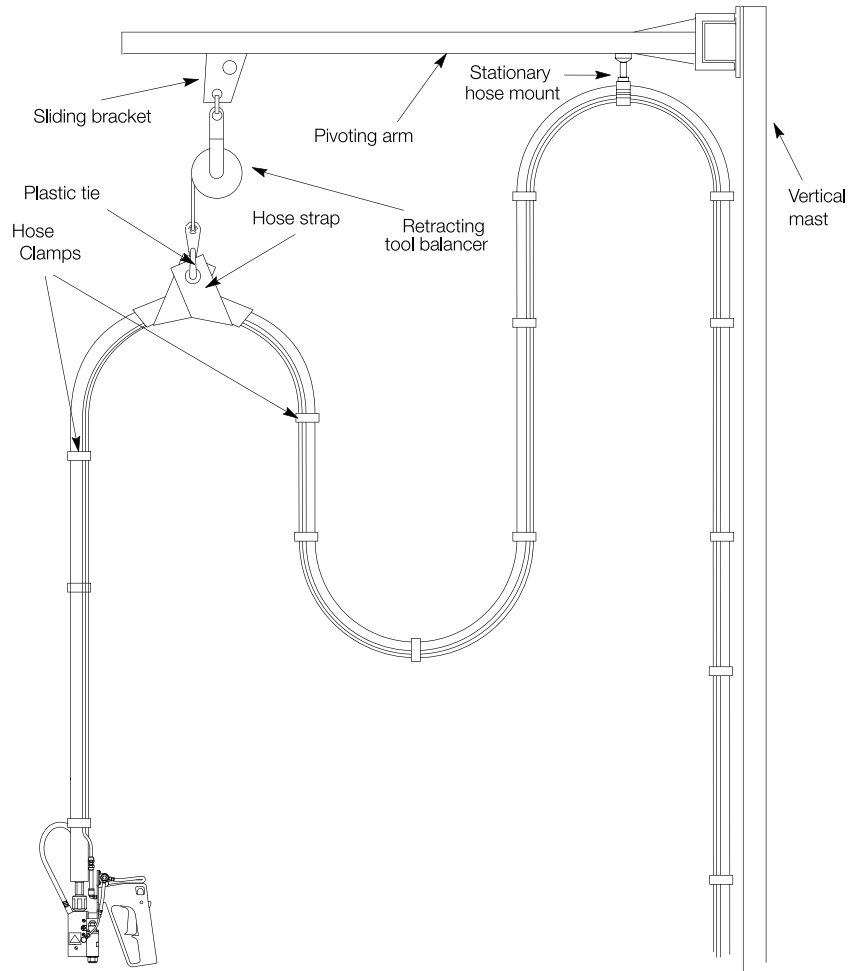
Series FP-200 Hand-Held Applicators

FP-200 Hand-Held Extrusion Applicator Components



Series FP-200 Hand-Held Applicators

FP-200 Suspension System Components



Series FP-200 Hand-Held Applicators

Selection Chart

The Flat Panel system requires:

- An FP-200 hand-held applicator
- An air hose control kit (unless otherwise specified)
- A hose
- A suspension package
- A nozzle

Melter	Pattern Type	Part Number	Voltage	Wattage
3000, DuraBlue	Swirl	234896	240	160
	Extrusion	234897		
		1004770		
	Swirl	307714	120	
Extrusion	307715			

Wide variety of alternate configurations are available as custom specials; lead times and prices may be greater. Consult a Nordson representative.

Series FP-200 Hand-Held Applicator Nozzles and Accessories

Nozzle/Accessory	P/N	Description	Comment
Floor Mount Suspension Package	157330	3 ft. Radius, Swing Arm, 90° Swing, 4.5 Kg Capacity (10 Lb) Tool Balancer	
	725471	6 ft. Radius, Swing Arm, 75° Swing, 6.8 Kg Capacity (15 Lb) Tool Balancer	
Wide Pattern Swirl Nozzles	125607	0.64 mm (0.025 in.) Orifice Dia	Includes one-piece nozzle and nut assembly.
	131998	0.76 mm (0.030 in.) Orifice Dia	
	131635	1.17 mm (0.046 in.) Orifice Dia	
Swirl Nozzles	104100	0.20 mm (0.008 in.) Orifice Dia	Use with retainer P/N 119202.
	104101	0.25 mm (0.010 in.) Orifice Dia	
	860548	0.31 mm (0.012 in.) Orifice Dia	
	860574	0.36 mm (0.014 in.) Orifice Dia	
	860575	0.41 mm (0.016 in.) Orifice Dia	
	860226	0.46 mm (0.018 in.) Orifice Dia	
	860435	0.51 mm (0.020 in.) Orifice Dia	
	100728	0.64 mm (0.025 in.) Orifice Dia	
	810381	0.76 mm (0.030 in.) Orifice Dia	
	810382	1.02 mm (0.040 in.) Orifice Dia	
	810300	1.27 mm (0.050 in.) Orifice Dia	

Continued...

Series FP-200 Hand-Held Applicators

Nozzle/Accessory	P/N	Description	Comment
Extended Extrusion Nozzles	710245	0.64 mm (0.025 in.) Orifice Dia	Refer to Nozzles section for bead nozzles.
	709018	1.07 mm (0.042 in.) Orifice Dia	
	710246	1.55 mm (0.061 in.) Orifice Dia	
	724268	2.29 mm (0.090 in.) Orifice Dia	
	703223	4.75 mm (0.187 in.) Orifice Dia	
Modules	157266	CF-200 Swirl/Wide Pattern Module	Order nozzle separately.
	276119	Extrusion Module, H-200 Standard Adjustable	
	117714	Extrusion module, H-200 Reduced Cavity, 0.30 mm (0.012 in.) Orifice	
	117804	Extrusion module, H-200 Reduced Cavity, 0.41 mm (0.016 in.) Orifice	
	117715	Extrusion module H-200 Reduced Cavity, 0.51 mm (0.020 in.) Orifice	
Miscellaneous	303029	Conversion Kit, Hand-Held Applicator, Swirl To Extrusion	Converts swirl hand-held applicator to extrusion. Order heat shield and nozzle separately.
	303028	Conversion Kit, Hand-Held Applicator, Extrusion To Swirl	Converts extrusion hand-held applicator to swirl. Order heat shield and nozzle separately.
	234965	Heat Shield, Swirl Hand-Held Applicator	Order with kit (P/N 303028). Included with hand-held applicator (P/N 234896).
	303009	Heat Shield, Swirl Hand-Held Applicator	Optional. Order separately for hand-held applicators (P/N 175745, 231025 and 23209).
	234970	Heat Shield, Extrusion Hand-Held Applicator	Order with kit (P/N 303029). Included with hand-held applicator (P/N 234897).
	725154	Heat Shield, Extrusion Hand-Held Applicator	Optional. Order separately for hand-held applicators (P/N 175746, 231024 and 176122).
	1098523	Tool Balancer, 3.0 kg (6.6 lb) Capacity	Included with suspension package (P/N 157330).
	1098747	Tool Balancer, 5.0 kg (11 lb) Capacity	Included with suspension package (P/N 725471).
	169725	Multi-plane Swivel, Replacement	
	938129	Heater, 1.0 x 25.4 mm (0.038 in. x 1.00 in.), 240 V, 80 W	Order 2 per hand-held applicator.
	724795	Heated Air Manifold Kit	
	324287	Air Hose Control Kit	Includes air gauge and regulator.

Series FP-200 Hand-Held Applicators

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Web Content

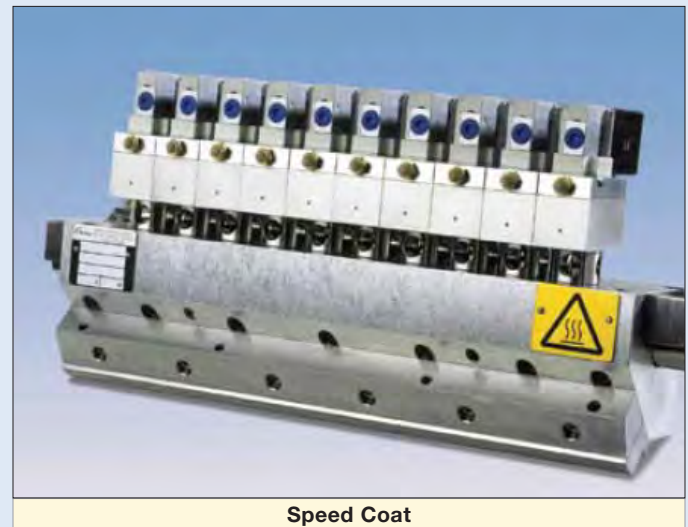


Speed-Coat® Slot Coating Heads

Description

Speed-Coat applicators combine the latest Nordson technology and manufacturing techniques to meet today's high-speed production and application accuracy requirements. The applicator's robust design simplifies set-up, delivers long life operation and produces a highly repeatable pattern, maximizing productivity.

Its flexible design enables the applicator to be customized according to application requirements and its compact design is smaller than other comparable slot applicators, helping to ensure it fits easily on any production line. Speed-Coat applicators are the successor to the popular EP11 and EP12 slot coating product offerings.



Speed Coat

Features

- Optimized retract on close (“snuff-back”) control module supports significant increases to line speeds and delivers precise adhesive cutoff, minimizing contamination between patterns.
- Quick-change module and filter assemblies maximize productivity by reducing replacement time by 50 percent.
- Nozzle design simplifies applicator set-up and ensures application quality when web routing or web tension is not optimized.
- Self-cleaning nozzle minimizes contamination and clogging during application, maximizing uptime.
- Integrated module and applicator body delivers fastest response time in the industry.
- Unique applicator design is milled precisely, helping to ensure exceptionally uniform distribution across the web.
- Optional ant-stick coating simplifies applicator maintenance and allows processing of reactive hot melt adhesives.
- Recirculation modules are available for applications with long gaps between patterns, or to keep adhesive circulating through system during machine stops.
- Double module design (DM), with alternating module actuation, enables extremely short gaps between patterns.

Speed-Coat[®] Slot Coating Heads

Specifications

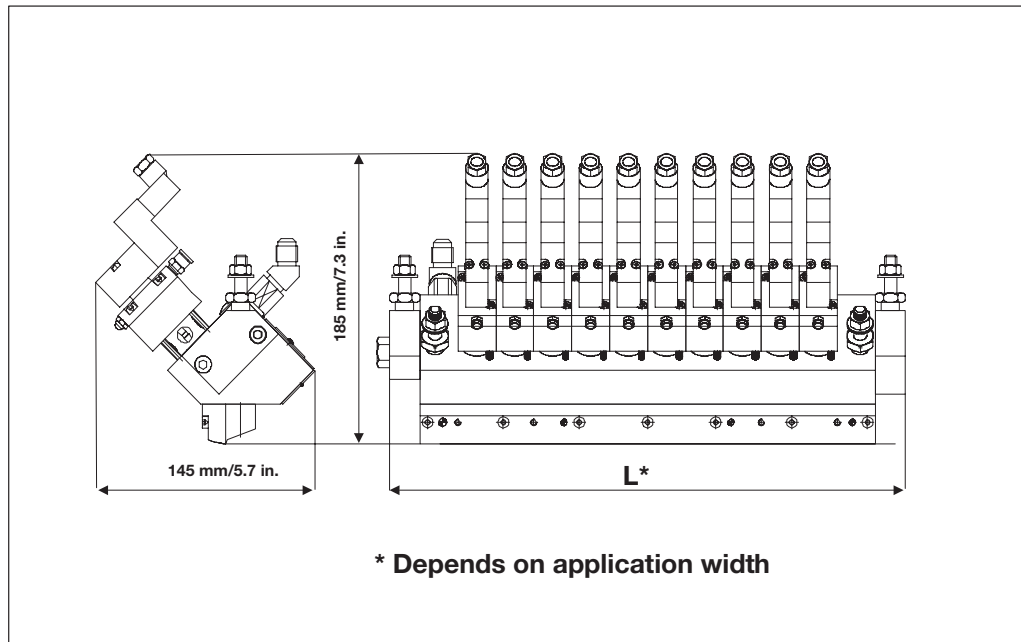
Parameter	Specification
Operating speed ⁽¹⁾	Up to 9,000 cycles/minute
Operating temperature	200°C (392°F) maximum
Application Width ⁽²⁾	up to 500 mm/19.5 in.
Temperature sensors	Ni-120 or Pt100, FeCuNi
Control Type	Electro Pneumatic
Operating air pressure MPa (psi) ⁽³⁾	0.5-0.6 (72.5 -87.0)
Electrical service	230 VAC, 50/60 Hz
Control voltage	23.5 - 28 VDC
Supply current (control)	2.0 A per standard solenoid

⁽¹⁾ Maximum number of cycles depends on operating and control air pressure, as well as adhesive viscosities.

⁽²⁾ Wider application widths are available upon request.

⁽³⁾ Oil-free air must be used.

Dimensions



Speed-Coat® Slot Coating Heads

Configuration Chart

Box	1-2	3-4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Code	SC		-		-						/							

Box 3-4	Applicator Design	Code
	Single Module Design	SM
	Double Module Design	DM

Box 6	Nozle Width (mm)	Code

Box 8	Temperature Sensor	Code
	J-type Thermocouple	J
	Pt100 Platinum RTD	P
	Ni-120 Nickel RTD	N

Box 9	Shimplate	Filter Mesh Size	Code
	0.10 mm	0.08 mm	1
	0.15 mm	0.08 mm	8
	0.20 mm	0.10mm	2

Box 10	Nozzle Style	Code
	NW Application	A
	CT Application	B
	Abrasive Resistant (NW)	R
	No Nozzle Assembly Included	X

Box 11	Solenoid Control	Code
	Via hose (6)	C
	Direct	D

Box 12	Hose Fitting	Code
	8 mm, 5/16 in., 45 Deg, 9/16 UNF	3
	13 mm, 1/2 in., 45 Deg, 3/4 UNF	4
	16 mm, 5/8 in., 45 Deg, 11/16 UNF	5
	8 mm, 5/16 in., Straight, 9/16 UNF	7
	13 mm, 1/2 in., Straight, 3/4 UNF	8
	16 mm, 5/8 in., Straight, 11/16 UNF	9

Box 14	Body Options	Code
	Chemcoated Body	C
	Steel Body (Chemcoat®)	F
	Standard	X

Box 15	Solenoid	Code
	Overdrive Capable	Z
	Standard	X

Box 16	Hydraulic Option	Code
	One Filter / Module Per Bead	O
	Grouped Hydraulic Zones	M
	One hydraulic zone for all modules (Standard)	X

Box 17	Needle Stroke Detection	Code
	Without Needle Stroke Detection (Standard)	X

Boxes 18-20	Reserved	Code
	Reserved	X

Speed-Coat® Slot Coating Heads

Part Numbers

Control Module

Part Number	Description
7103660	Control Module, SC, 24V Booster Complete
7103670	Control Module, SC, 24/48V, ES 70, Complete

Filters

Part Number	Description
465447	Filter Bayonet SC-SM(20), Mesh Size 0.08, Complete
465703	Filter Bayonet SC-SM(20), Mesh Size 0.1, Complete
462998	Filter Sleeve, Mesh Size 0.08, With Spring
206461	Filter Sleeve, Mesh Size 0.1, With Spring

Nozzle Seal

Part Number	Description
401853	Quad Ring, 8.2 x 1.78

Web Content



TrueCoat® Slot Coating Heads

Description

TrueCoat high-performance, configurable slot applicators deliver precise continuous or intermittent coatings. Precision crafted and extremely reliable, the TrueCoat applicator's body and nozzle design offer exceptional thermal performance and application accuracy.

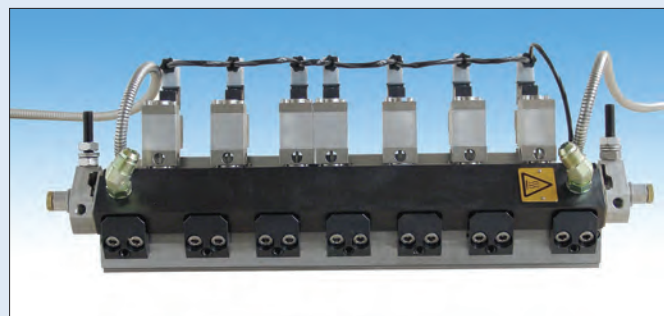
The flange-on solenoid and quick-change filter and nozzle deliver fast pattern changes and quick, easy maintenance.

The TrueCoat nozzle and body length can be configured in 30 mm (1.18 in.) increments (starting with base module of 100 mm, the smallest configurable version is 130 mm). In addition, a 70 mm 'Minibody' exists that cannot be extended. The TrueCoat heads are used for intermittent applications at medium line speeds, or high-precision continuous coatings. The nozzle and body length along with the new body shape provide compact overall size for installation in tight machine spaces.

TrueCoat applicators are available in standard application widths up to 720 mm (28 in.), or larger upon special request. TrueCoat applicators are the successor to the popular EP45 and EP51/52 slot coating product offerings.

Features

- One technology can be configured for continuous or intermittent applications, reducing spare parts inventory.
- Redesigned, quick-change, replaceable slot nozzle drastically reduces time required to change application widths/formats.
- Quick-change filter cartridges and flange-on solenoids enable quick, easy maintenance.
- Compact body design allows installation in tight spots.
- Optional anti-stick surface coating eases cleaning and maintenance.



TrueCoat Slot Applicator



Watch Video

TrueCoat® Slot Coating Heads

Specifications

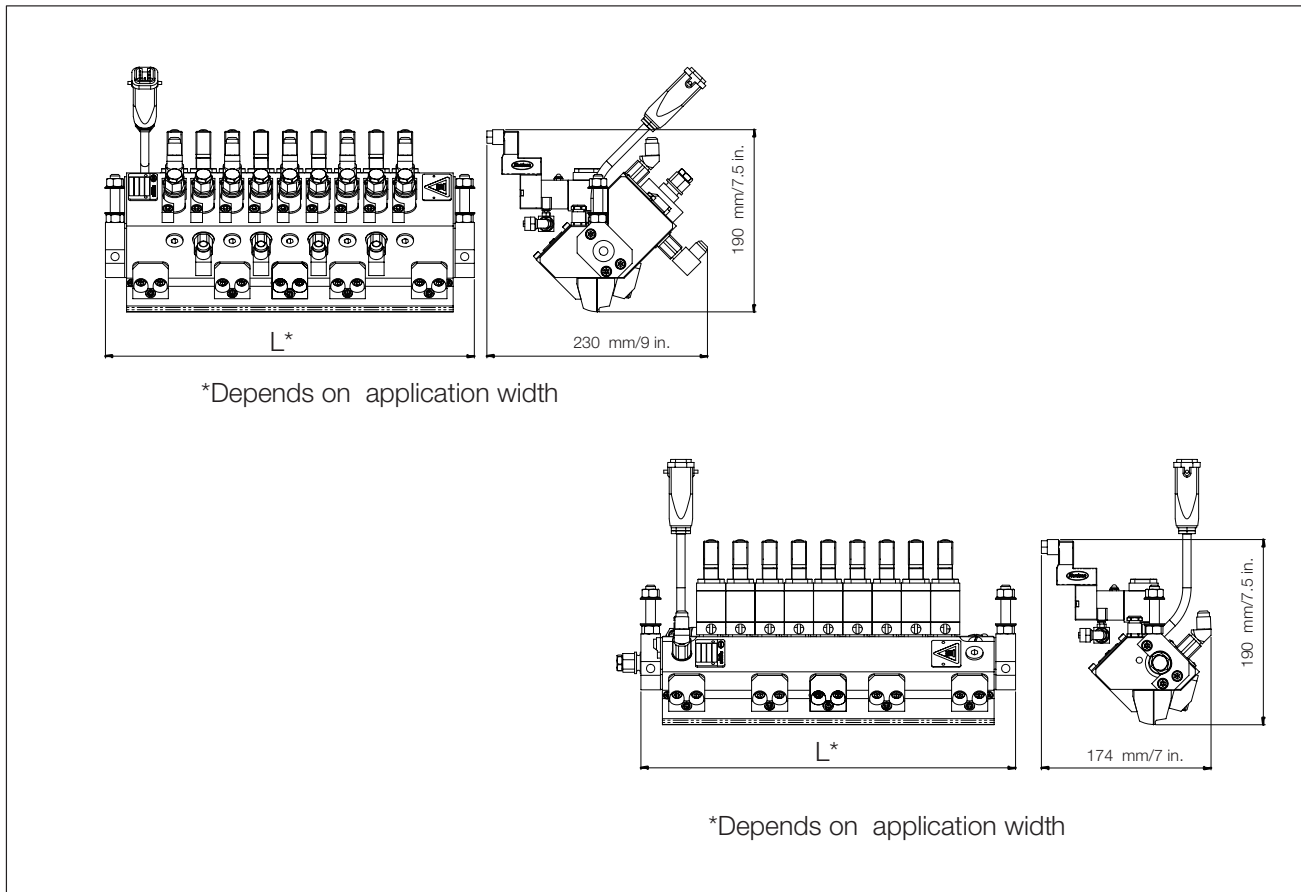
Parameter	Specification
Operating speed ⁽¹⁾	Up to 4,000 cycles/minute
Operating temperature	200°C (392°F) maximum
Application width ⁽²⁾	up to 720 mm / 28 in.
Temperature sensors	Ni-120 or Pt100, FeCuNi
Control type	Electro Pneumatic
Operating air pressure MPa (psi)	0.5-0.6 (72.5 -87.0)
Electrical service	230 VAC, 50/60 Hz
Control voltage	24 VDC

⁽¹⁾ Maximum number of cycles depends on operating and control air pressure, as well as adhesive viscosities.

⁽²⁾ Wider application widths are available upon request.

⁽³⁾ Oil-free air must be used.

Dimensions



TrueCoat® Slot Coating Heads

Configuration Chart

Box	1-3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Code	KTC	-			-						/							

Box 5	Nozzle Width (mm)	Code
	Nozzle Width (mm)	# mm

Box 7	Body Type	Code
	Minibody (70 mm)	M
	Normal	X

Box 8	Temperature Sensor	Code
	J-type Thermocouple	J
	Pt100 Platinum RTD	P
	Ni-120 Nickel RTD	N

Box 9	Filter	Code
	No Filter	X
	Mesh Size 0.1 mm	1
	Mesh Size 0.2 mm	2

Box 10	Shimplate	Filter Mesh Size	Code
	0.2 mm	0.1 mm	2
	0.3 mm		3
	0.4 mm		4
	0.5 mm		5
	No Shim		X

Box 11	Nozzle Style	Code
	Intermittent Application	A
	Continuous Application	B
	No Nozzle Assembly Included	X

Box 12	Solenoid Control	Code
	Via Hose	C
	Direct	D

Box 13	Hose Fitting	Code
	8 mm	1
	13 mm	2
	16 mm	2

Box 15	Body Options	Code
	Chemcoated Body	C
	Standard	X

Box 16	Steel Body	Code
	Steel Body (browned)	F

Box 17	Reserved	Code
	Reserved	X

Box 18	Hydraulic Option	Code
	One Filter / Module	O
	One Hydraulic Zone For All Modules (Standard)	X

Box 19	High-Flow Modules	Code
	High-Flow Modules	H

Box 20	Reserved	Code
	Reserved	X

TrueCoat® Slot Coating Heads

Part Numbers

Control Module

Part Number	Description
7103612	Control Module DC-D3 Fixed Stroke W/Valve
7103613	Control Module DC-D5 Adjustable Stroke W/Valve

Filters

Part Number	Description
465703	Filter Bayonet MW0,1 W/Pressure Relief
7106789	Filter Bayonet MW0,2 W/Pressure Relief
7103614	Filter Bayonet MW0,1 W/Pressure Relief L100 mm
7103616	Filter Bayonet MW0,2 W/Pressure Relief L100 mm
206461	Filter Sleeve, Mesh Size 0.1, W/Spring
7103625	Filter Sleeve, MW0, 2 W/Spring
7103615	Filter Sleeve, MW0, 1 100 mm Long W/Spring
7103617	Filter Sleeve, MW0, 2 100 mm Long W/Spring

Nozzle Seal

Part Number	Description
401853	Quad Ring, 8.2 x 1.78

Web Content



TrueCoat® FS Slot Coating Applicator

Description

TrueCoat FS slot applicators combine consistent, reliable performance with application flexibility to improve product quality and production efficiency. The TrueCoat FS applicator can apply a variety of adhesives in continuous operation to a wide range of substrates, including paper, veneers, foils or films. These coated substrates are then applied to different types of boards (including chipboard, honeycomb panels, etc.) used in numerous furniture and woodworking applications.

The TrueCoat FS applicator delivers a consistent application of adhesive to the web in both cross-web and machine directions. Application (add-on) weights and coating width, using a patented coating width adjustment design, can be adjusted even during production. The motor-driven width adjustment from either side facilitates frequent application width changes and reduces operational risk by delivering the correct input signal for the grammage control software. Precise metering and accurate temperature control reduce adhesive consumption and improve product quality.

TrueCoat FS applicators are designed for consistent application in continuous operation.

Features

- Optimized, uniform adhesive distribution yields high product quality and reduces adhesive consumption.
- Automatic, motor-driven width control supports quick, easy applicator setup and changeovers.
- Optional add-on control software tied to application width and speed.
- Quick-exchange filters and solenoids make maintenance faster and easy.
- Specially-designed, compact body fit allows installation into tight spots and supports better web routing.
- Quick-exchange slot nozzle reduces the time needed for maintenance and increases machine uptime.
- Coating width geometry with increased lifetime due to enhanced contact surface.



TrueCoat FS Slot Applicator

TrueCoat® FS Slot Coating Applicator

Specifications

Parameter	Specification
Nozzle slot size	0.4 mm
Coating speed	10 to 60 m/min (32.8 to 196.85 ft/min)
Operating temperature	230°C (446°F) maximum
Temperature sensors	Ni-120
Operating air pressure ⁽¹⁾	4 to 6 bar (58 to 87 psi)
Maximum adhesive pressure ⁽²⁾	30 bar (435 psi)
Electrical service	230 VAC, 50/60 Hz, 1 phase
Degree of protection	IP50

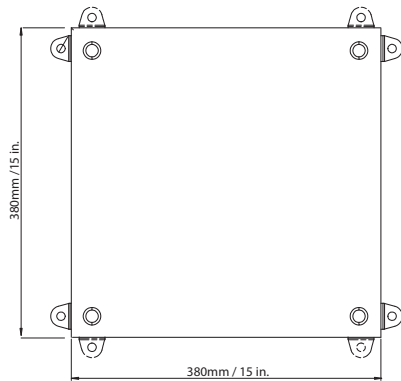
⁽¹⁾ Oil-free air must be used.

⁽²⁾ Maximum pressure for this application; 100 bar is the maximum the applicator can safely handle.

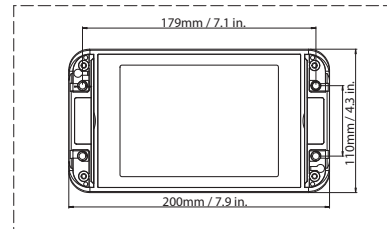
Parameter	Polyurethane (PUR)	Ethylene Vinyl Acetate (EVA) Polyolefin (PO)
	Application width	100 to 700 mm (3.94 to 27.56 in.) 200 to 1,000 mm (7.87 to 39.37 in.) 200 to 1,400 mm (7.87 to 55.12 in.)
Coating weight	30 to 80 g/m ²	40 to 80 g/m ² EVA 30 to 80 g/m ² PO
Adhesive viscosity	10,000 to 35,000 mPa*s	10,000 to 50,000 mPa*s

TrueCoat® FS Slot Coating Applicator

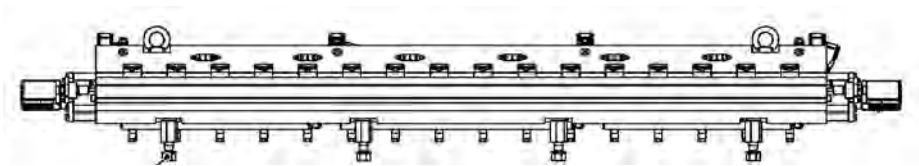
Dimensions



Control box (depth is 210 mm/8.3 in.)



Control panel (depth is 60 mm/2.4 in.)



Applicator dimensions vary depending on configuration.

Part Numbers

TrueCoat FS Slot Applicator

The TrueCoat FS slot applicator includes the applicator and both drives (1), the control box (2), the control panel (3), and connection cables (4).

(1) Applicator and Drives		(2) Control Box	(3) Control Panel	(4) Cables
Material	Coating Width (mm)			
PUR	100–700	P/N 7189191 - TC-FSPUR standard ⁽¹⁾	P/N 7157980 Control panel for flat lamination	P/N 7150059 Control cable set
	200–1000	P/N 7186020 - TC-FSPUR grammage current ⁽²⁾		
	200–1400	P/N 7186282 - TC-FSPUR grammage voltage ⁽³⁾		
EVA or PO	100–700	P/N 7157979 - TC-FS1400 EVA standard ⁽¹⁾		
	100–1000	P/N 7157978 - TC-FS1400 EVA fieldbus ⁽⁴⁾		
	100–1400	Control box for grammage control (contact Nordson)		

⁽¹⁾ Without grammage control software.

⁽²⁾ Includes grammage control: 4–20 mA line speed input and 0–10V signal output to supplying melter/pump.

⁽³⁾ Includes grammage control: 0–10V line speed input and 0–10V signal output to the supplying melter/pump.

⁽⁴⁾ Fieldbus CANopen communication (ProfiNet available)

TrueCoat® FS Slot Coating Applicator

Control Module

Part Number	Description	Contents
7144345	Control module, TC-D5, fixed, lift w/valve	Complete control module
460246	Solenoid valve, 3/2 way, 24V, 2.5 W, NC fig.	Solenoid valve
7143146	Service kit, sealing, TC module, D5	Seals, O-rings, and quad ring

Filters

Part Number	Description	Contents
7167051	Filter, bayonet, MW 0.2, w/pressure relief, L150	Complete filter assembly
7150049	Service kit, filter sleeve, MW 0.2, L150	Filter sleeve and O-rings

Web Content



EZ Coat™ Slot Applicators

Description

EZ Coat slot applicators are designed for safe processing, long cycle life and repeatable application patterns in continuous or intermittent operation. Based on proven technology and optimized with advanced flow and thermal analysis tools, EZ Coat applicators offer reliable performance and simplified set-up.

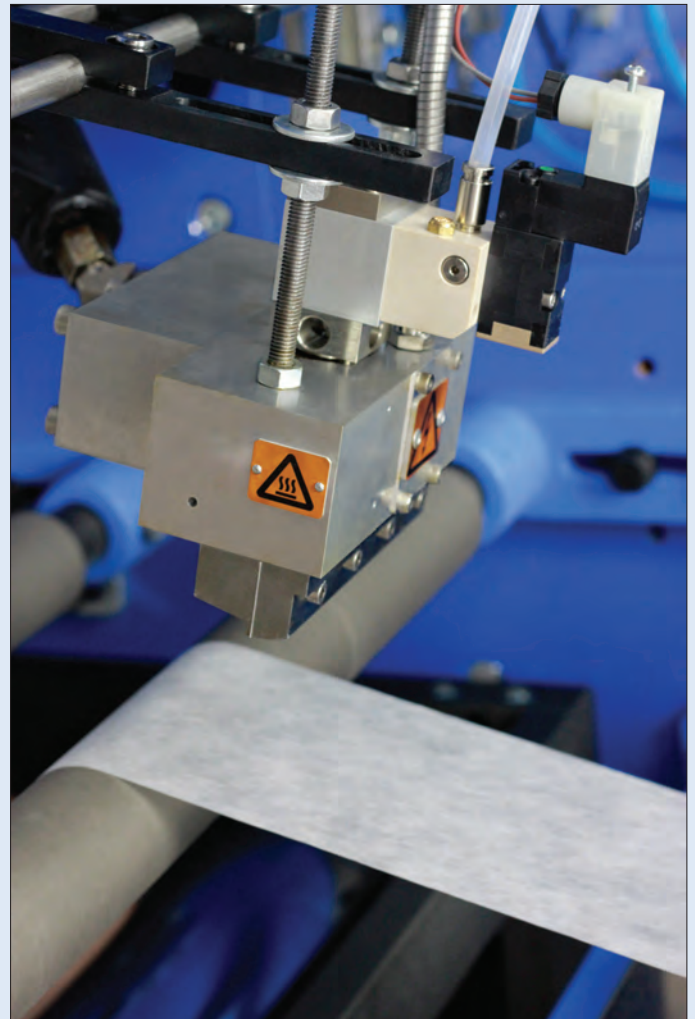
Three blank shims of varying thicknesses are provided with each EZ Coat applicator for customer customization. These slot applicators provide flexibility in positioning relative to the substrate for added pattern control.

Quick-change solenoids and an optional quick-change filter enable fast, easy maintenance. A compact body design and single adhesive inlet facilitate installation in constrained spaces.

A variety of application widths are available for patterns up to 320 mm.

Features

- Provide easy, reliable slot coating technology to meet application requirements in low- to mid-speed adhesive bonding processes.
- Simplify set-up and maintenance
- Deliver reliable coating application



EZ Coat Slot Applicator

EZ Coat™ Slot Applicators

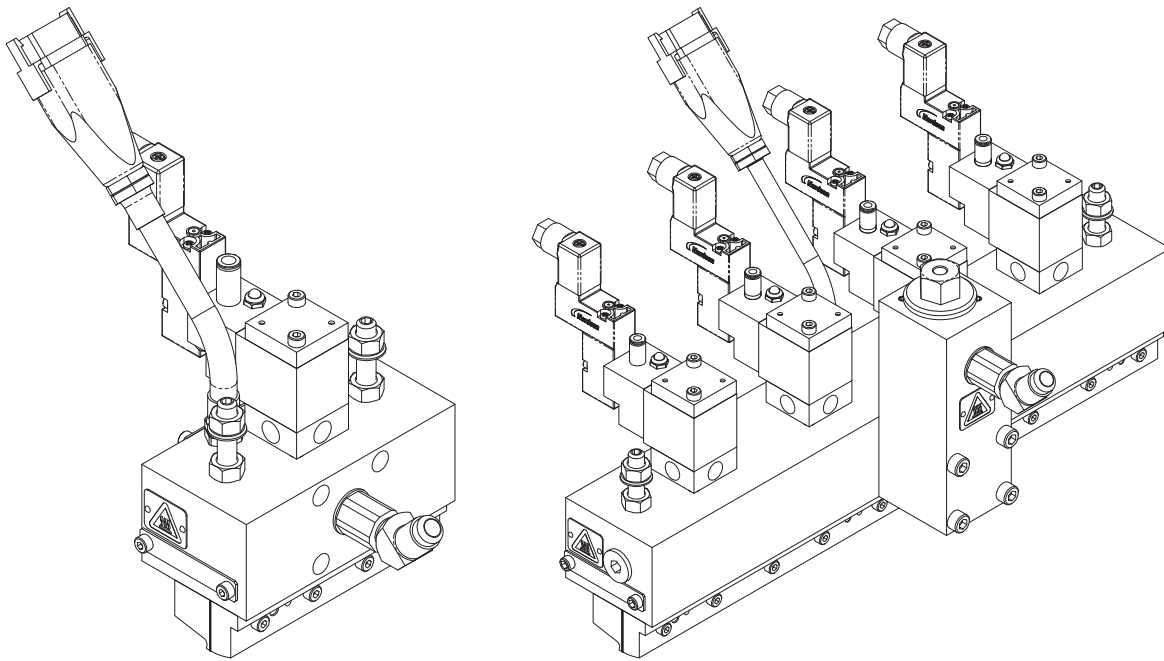
Specifications

Parameter	Specification
Maximum Intermittent Cycles ⁽¹⁾	Up to 3,000 cycles/minimum
Operating Temperature	200 °C (392 °F) maximum
Maximum Application Width	320 mm (12.6 in.)
Maximum Adhesive Viscosity	10,000 cps/mPAS
Temperature Sensors	Ni120
Module Actuation Air Pressure ⁽²⁾	4 to 6 bar (58 to 87 psi)
Electrica	230 VAC, 50/60 Hz, 1 phase
Control Voltage	24 VDC

⁽¹⁾ The number of cycles may vary depending on operating pressure and control air pressure, as well as adhesive viscosities.

⁽²⁾ Oil-free air must be used.

Dimensions



Applicator dimensions vary depending on configuration.

EZ Coat™ Slot Applicators

Part Numbers

EZ Coat Applicators

Part Number	Description ⁽¹⁾	Nozzle Width (mm)	Maximum Application Width (mm)
7410388	EZCOAT-1-N-080-040	80	40
7410387	EZCOAT-1-N-120-080	120	80
7410386	EZCOAT-2-N-200-160	200	160
7410385	EZCOAT-3-N-280-240	280	240
7410384	EZCOAT-4-N-360-320	360	320

⁽¹⁾ Configuration legend:

EZCOAT = EZ Coat applicator

1-4 = Number of control modules

N = Ni120 temperature sensor

080-360 = Nozzle width (mm)

040-320 = Application width (mm)

Coating Nozzles

Part Number	Description	Nozzle Width (mm)	Maximum Application Width (mm)
7186735	Kit, Coating Nozzle, EZ Coat-1 DL080 AB040	80	40
7186734	Kit, Coating Nozzle, EZ Coat-1 DL120 AB080	120	80
7186733	Kit, Coating Nozzle, EZ Coat-2 DL200 AB160	200	160
7186732	Kit, Coating Nozzle, EZ Coat-3 DL280 AB240	280	240
7186731	Kit, Coating Nozzle, EZ Coat-4 DL360 AB320	360	320

Control Module

Part Number	Description	Note
7103612	Control Module, TC-D3, fixed lift, w/valve	For intermittent and continuous applications.

Filter Assembly

Part Number	Description
7410389	Kit, Filter Assembly, MW 0.08, EZ COAT

EZ Coat™ Slot Applicators

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Web Content



AltaSlot™ Applicators

AltaSlot-c and AltaSlot-i

Description

AltaSlot applicators offer continuous (AltaSlot-c) or intermittent (AltaSlot-i) configurations designed for safe processing, long cycle life and repeatable application patterns. Based on long-proven thermal and hydrodynamic technology, AltaSlot applicators offer reliable performance and simplified set-up.

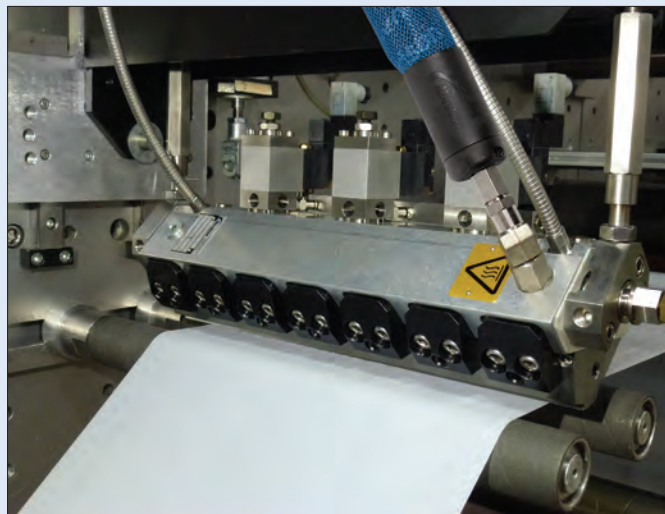
In addition to a pre-cut shim, a blank shim is provided with each AltaSlot applicator for customer customization. These slot applicators provide flexibility in positioning relative to the substrate for added pattern control.

Quick-change filter cartridges and solenoids enable fast, easy maintenance. A compact body design and single adhesive inlet facilitate installation in constrained spaces.

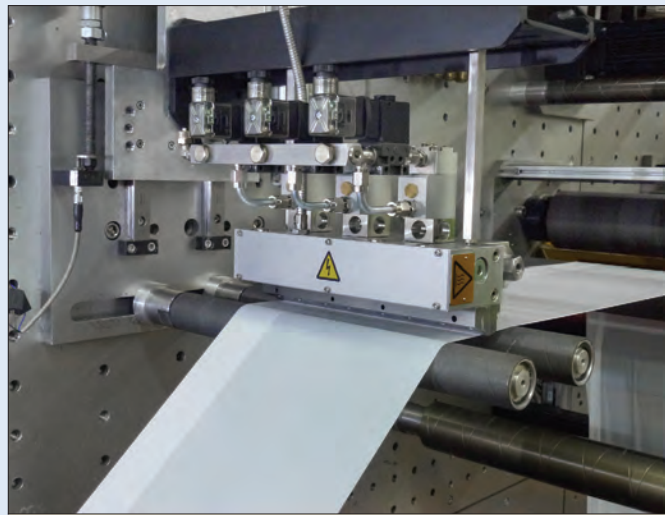
A variety of application widths are available as is a choice between nickel or platinum RTD sensors.

Features

- Choose continuous or intermittent operation
- Simplify set-up and maintenance
- Reliable coating application



AltaSlot-c Applicator



AltaSlot-i Applicator

AltaSlot™ Applicators

AltaSlot-c and AltaSlot-i

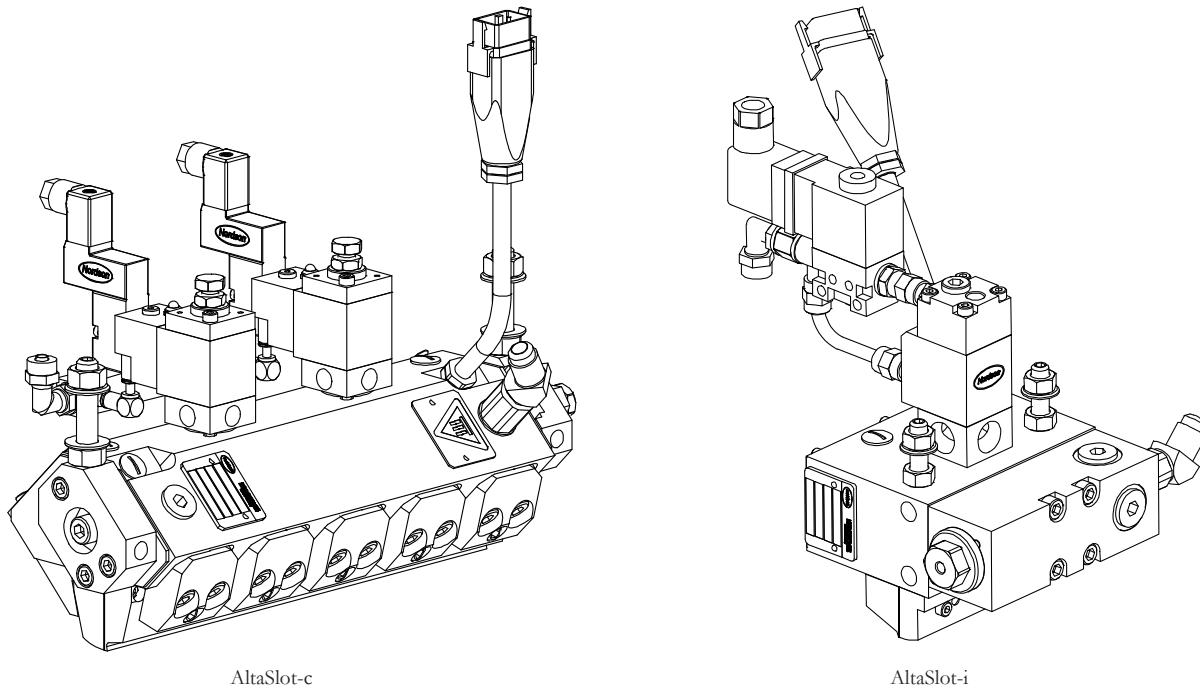
Specifications

Parameter	Specification
Maximum Intermittent Cycles ⁽¹⁾	Up to 4,000 cycles/min
Operating Temperature	200 °C (392 °F) maximum
Maximum Application Width	Continuous: 700 mm (27.56 in.) Intermittent: 350 mm (13.78 in.)
Maximum Adhesive Viscosity	Continuous: 80,000 cps/mPAS Intermittent: 10,000 cps/mPAS
Temperature Sensors	Ni120, PT100
Module Actuation Air Pressure ⁽²⁾	5 to 6 bar (72.5 to 87 psi)
Electrica	230 VAC, 50/60 Hz, 1 phase
Control Voltage	24 VDC

⁽¹⁾ The number of cycles may vary depending on operating pressure and control air pressure, as well as adhesive viscosities.

⁽²⁾ Oil-free air must be used.

Dimensions



Applicator dimensions vary depending on configuration.

AltaSlot™ Applicators

AltaSlot-c and AltaSlot-i

Part Numbers

AltaSlot-c

P/N	Configuration Code	No. of Modules	Sensor	Body/Nozzle Width	Maximum Pattern Width	Number of Heated Zones	Hose Fitting
7147751	AS-c-1-N-160-100	1	Ni120	160 mm	100 mm	1	8 mm
7147752	AS-c-2-N-250-200	2	Ni120	250 mm	200 mm	1	8 mm
7147753	AS-c-3-N-340-300	3	Ni120	340 mm	300 mm	2	8 mm
7147754	AS-c-4-N-460-400	4	Ni120	460 mm	400 mm	2	8 mm
7147755	AS-c-5-N-550-500	5	Ni120	550 mm	500 mm	2	13 mm
7147756	AS-c-6-N-640-600	6	Ni120	640 mm	600 mm	2	13 mm
7147757	AS-c-7-N-760-700	7	Ni120	760 mm	700 mm	3	13 mm
7147741	AS-c-1-P-160-100	1	PT100	160 mm	100 mm	1	8 mm
7147742	AS-c-2-P-250-200	2	PT100	250 mm	200 mm	1	8 mm
7147743	AS-c-3-P-340-300	3	PT100	340 mm	300 mm	2	8 mm
7147744	AS-c-4-P-460-400	4	PT100	460 mm	400 mm	2	8 mm
7147745	AS-c-5-P-550-500	5	PT100	550 mm	500 mm	2	13 mm
7147746	AS-c-6-P-640-600	6	PT100	640 mm	600 mm	2	13 mm
7147747	AS-c-7-P-760-700	7	PT100	760 mm	700 mm	3	13 mm

AltaSlot-i

P/N	Configuration Code	No. of Modules	Sensor	Body/Nozzle Width	Maximum Pattern Width	Number of Heated Zones	Hose Fitting
7121941	AS-i-1-N-110-70	1	Ni120	110mm	70 mm	1	8 mm
7121942	AS-i-2-N-180-140	2	Ni120	180mm	40 mm	1	8 mm
7121943	AS-i-3-N-250-210	3	Ni120	250mm	10 mm	1	8 mm
7121944	AS-i-4-N-320-280	4	Ni120	320mm	280 mm	2	8 mm
7121945	AS-i-5-N-390-350	5	Ni120	390mm	350 mm	2	8 mm
7121951	AS-i-1-P-110-70	1	PT100	110mm	70 mm	1	8 mm
7121952	AS-i-2-P-180-140	2	PT100	180mm	140 mm	1	8 mm
7121953	AS-i-3-P-250-210	3	PT100	250mm	210 mm	1	8 mm
7121954	AS-i-4-P-320-280	4	PT100	320mm	280 mm	2	8 mm
7121955	AS-i-5-P-390-350	5	PT100	390mm	350 mm	2	8 mm

AltaSlot™ Applicators

AltaSlot-c and AltaSlot-i

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Web Content



EB 60 Flex Edge Banding Slot Applicators

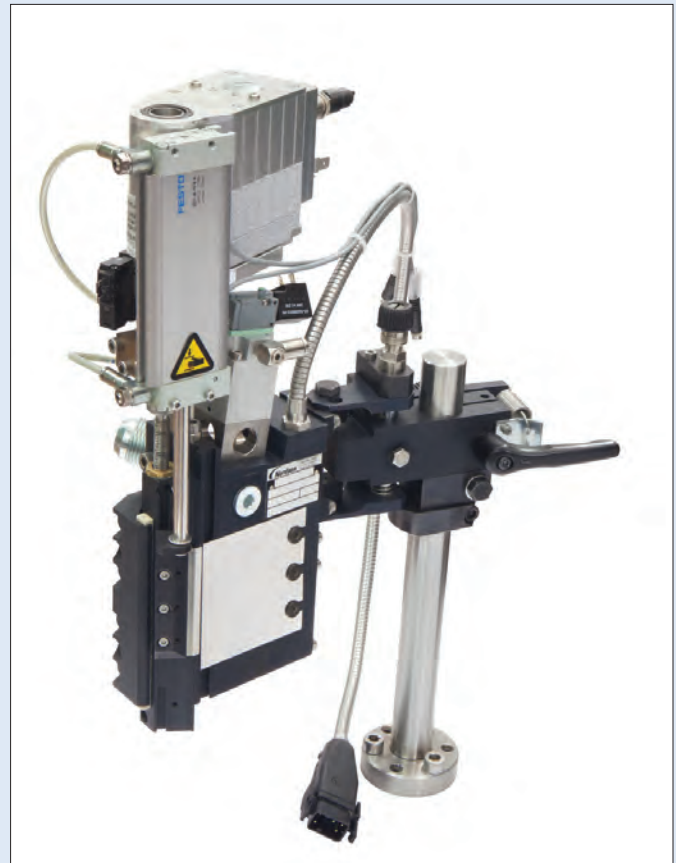
Description

The EB 60 Flex edge banding applicator delivers accurate, consistent hot melt adhesive application to the band or the board/panel for edge banding applications. “Edge-ondemand” technology and volume compensation eliminate excess air or adhesive from being expelled during coating width changes, meaning even the first panel produced is saleable. Manufacturers save material costs, decrease setup and maintenance time, and improve product quality.

Precise control of adhesive application allows use of only the amount of adhesive necessary for the optimum bond without the need for over application and subsequent clean-up.

EB 60 Flex applicators provide flexibility both in the adhesives you can use and the panel shapes that can be supported. Hot melt adhesives can include ethylene vinyl acetate (EVA), polyolefins and reactive polyurethanes (PUR). And, the ability to apply adhesive directly to the band – soft forming – means you are not limited to shapes with flat surfaces or edges.

A motorized version uses a motor to adjust the nozzle width based on input from a touch-screen control panel. The manual adjust version relies on a hand wheel for nozzle width adjustment.



EB 60 Flex Edge Banding Slot Applicator

Features

- Volume compensation for high-quality, saleable product from the first panel
- Automated width adjustment
- Nozzle closing system
- Flexibility in material use and production
- Easy integration to a wide variety of OEM systems and software
- Reduction in material costs and maintenance

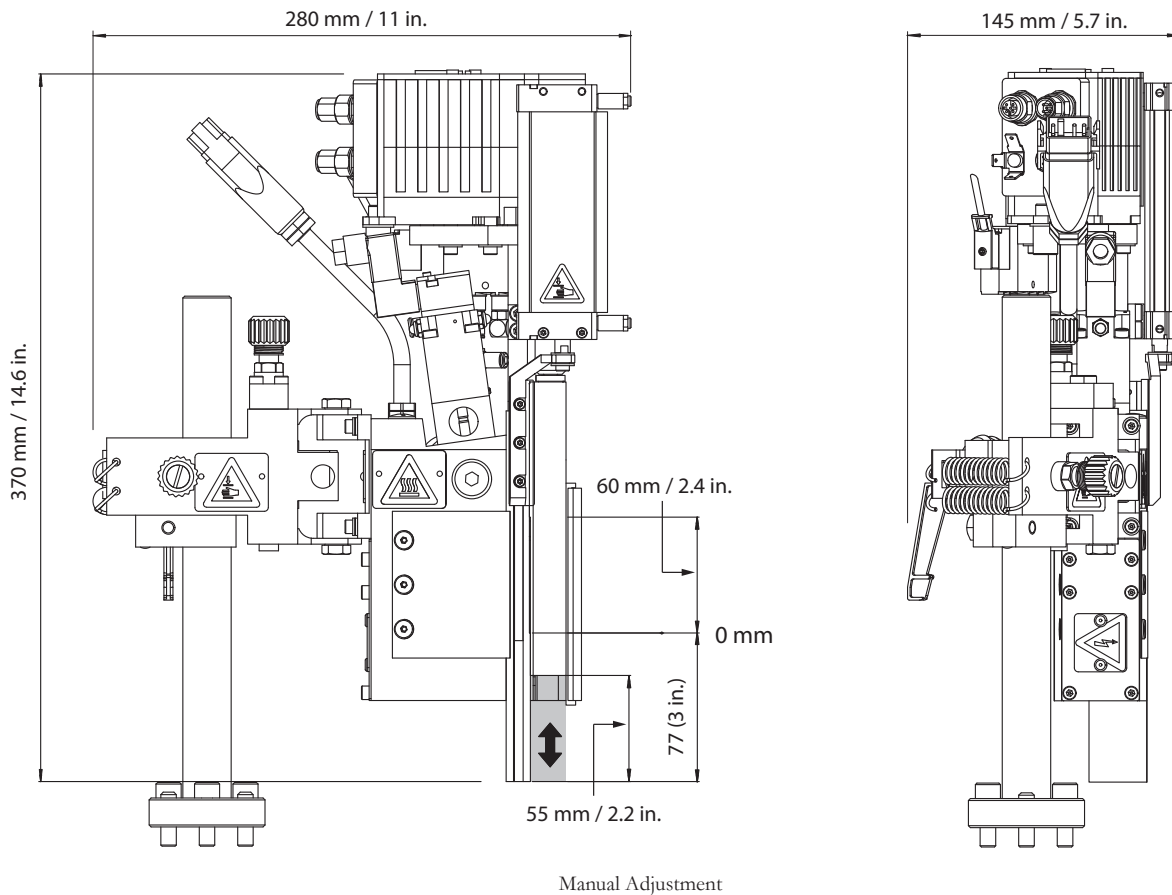
EB 60 Flex Edge Banding Slot Applicators

Specifications

Parameter	Specification
Application/Coating Width	5 to 60 mm (0.2 to 2.4 in.)
Maximum Operating Temperature	200 °C (392 °F)
Maximum Operating Air Pressure	6 bar (87 psi)
Maximum Adhesive Pressure ⁽¹⁾	30 bar (435 psi)
Temperature Sensors	Ni120
Operating Voltage	Motor Control: 230V, 50/60 Hz, 1 phase Motor: 24V
Applicator Weight (approx.)	Manual Version: 6.82 kg (15 lb) Motorized Version: 10 kg (22 lb)
Degree of Protection	IP50

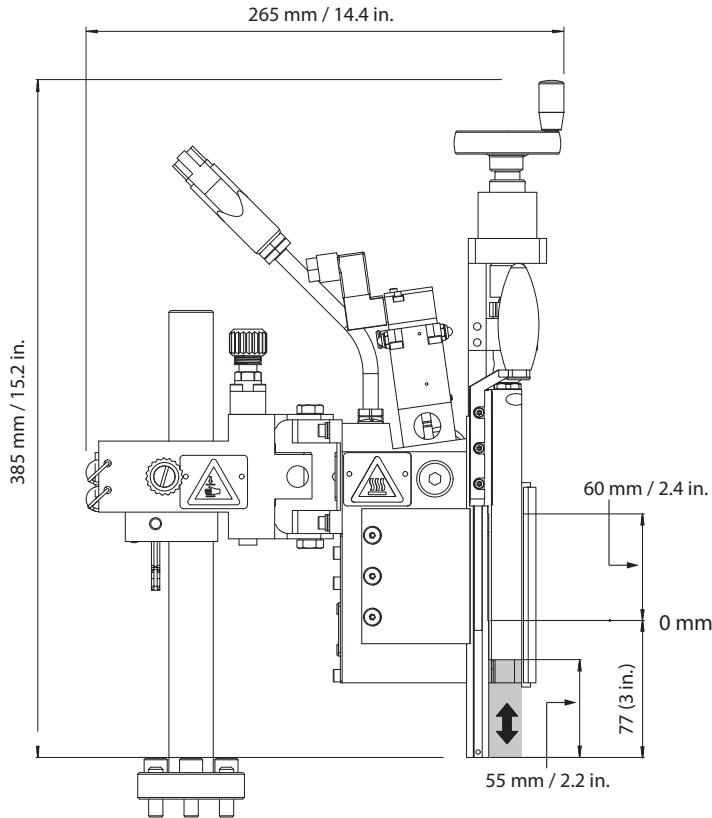
⁽¹⁾ Maximum pressure for this application; 100 bar is the maximum the applicator can safely handle.

Dimensions

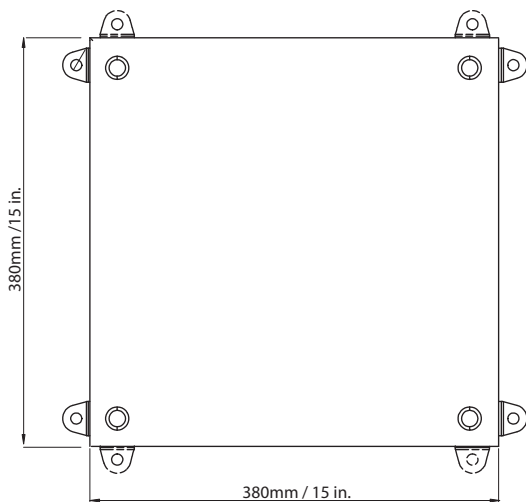
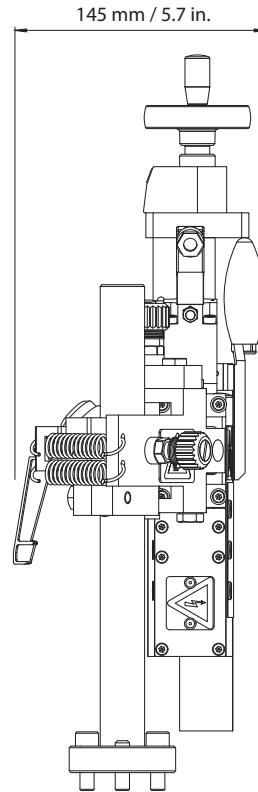


EB 60 Flex Edge Banding Slot Applicators

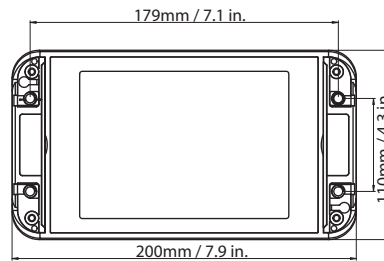
Dimensions *(contd.)*



Motorized Adjustment



Control Box for Motorized Control



Control Panel for Motorized Control

EB 60 Flex Edge Banding Slot Applicators

Part Numbers

EB 60 Flex Applicators

Part Number	Description
7150056	Applicator, EB 60 Flex, LH, Ni120, MAN, 5–60 mm
7150086	Applicator, EB 60 Flex, RH, Ni120, MAN, 5–60 mm
7133515	Applicator, EB 60 Flex, LH, Ni120, DRV, 5–60 mm
7133354	Applicator, EB 60 Flex, RH, Ni120, DRV, 5–60 mm

LH = Left-handed applicator design

RH = Right-handed applicator design

MAN = Manual coating-width adjustment

DRV = Motor-driven coating-width adjustment

5–60 mm = Possible coating width (minimum 5 mm to maximum 60 mm)

Control Box

Part Number	Description
7561646	Control Box, Edge Banding without Gateway
7157958	Control Device, Edge Banding Applicator

Control Module

Part Number	Description
7183068	Control Module, SB60, 3.5 mm Needle Stroke, Flange Valve Module/Solenoid, Tandem

Tandem = dual-needle seal technology

Coating Nozzles

Part Number	Description
7133525	Coating Nozzle, EB 60 Flex, Left-Hand , EB/Right-Hand SF, S, 0.5 mm Slot Opening (shim slot width)
7133351	Coating Nozzle, EB 60 Flex, Right-Hand EB/Left-Hand SF, 0.5 mm Slot Opening (shim slot width)

EB = Edge Banding

SF = Strip-Feed

Web Content



EP 48 PRO Bookbinding Slot Applicators

Description

The EP 48 PRO applicator delivers accurate, consistent hot melt adhesive application to book spines. Precise control of adhesive application allows use of only the amount of adhesive necessary for the optimum bond without the need for over application.

EP 48 PRO applicators provide on-demand adhesive application so even the first book produced after a spine width change is saleable. Changes in adhesive viscosity and/or spine thickness are automatically adjusted for with volume compensation technology. Continuous automatic adjustment for accurate, real-time volumetric PUR application provides consistent, reliable spine gluing: adhesive thickness, width, and length end-to-end of the book.

EP 48 PRO applicators integrate into parent machines including integration into parent machine controls. Volumetric measurement calculates the amount of adhesive needed and the automatically adjusted pump applies the correct adhesive volume.

Intuitive, graphical on-screen programming simplifies production changeovers to accommodate different book specifications and requirements.

The EP 48 PRO applicator is part of a complete Nordson solution, the PURePro™ system. The combination of Nordson's applicator, hose and slug melter protect adhesive from exposure to the moisture in air that can cause premature curing of the PUR adhesive.

Features

- No need to purge between spine width changes as volume is equalized inside the applicator to avoid squeeze-out or introduction of air into the nozzle.
- Increased productivity with shorter changeover time and less maintenance.
- Higher-quality bond and appearance with little or no squeeze-out or inconsistent book spines.
- Reduced adhesive use, so cost, due to precise, consistent adhesive application.
- Efficient, effective PUR adhesive use due to the closed dispensing system.



EP 48 PRO Bookbinding Slot Applicator

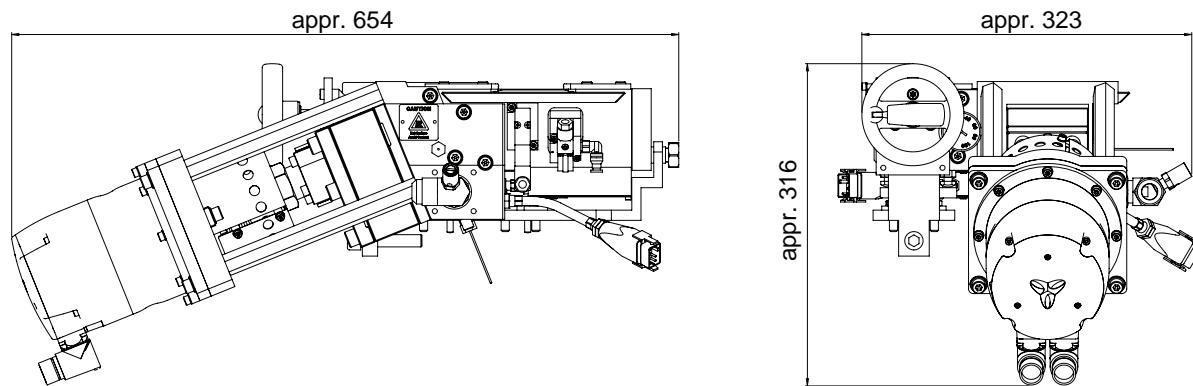
EP 48 PRO Bookbinding Slot Applicators

Specifications

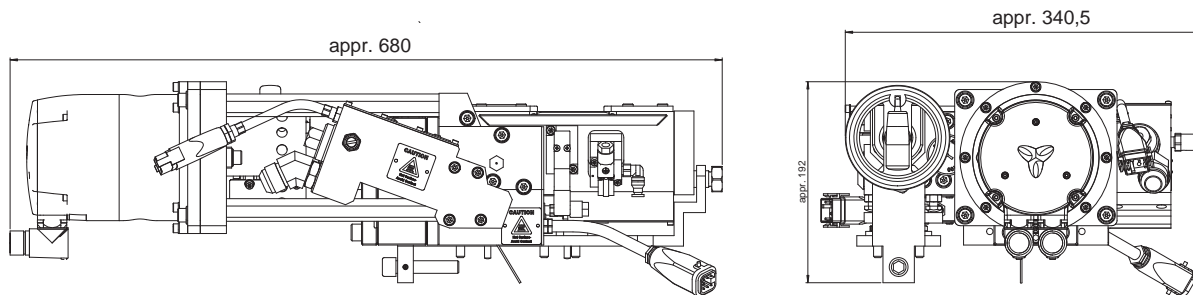
Parameter	Specification
Application Width	1.5–60 mm (0.06–2.4 in.)
Maximum Operating Temperature	180 °C (356 °F)
Operating Adhesive Pressure	40 bar/4 MPa (580 psi)
Maximum Operating Air Pressure	6 bar/0.6 MPa (87 psi)
Maximum Adhesive Viscosity ⁽¹⁾	8,000 cps/MPas (8 Ms/m ²)
Operating Voltage	230 VAC, 50/60 Hz, single phase
Temperature Sensor	Ni120
Weight (approx.)	53 kg (117 lb)
Degree of Protection	IP54

⁽¹⁾ Additional adhesives are being and will be evaluated.

Dimensions (mm)



Automated Adjust EP 48 PRO Applicator with Angled Motor Adapter (shown without filter)



Manual Adjust EP 48 PRO Applicator with Straight Motor Adapter (shown with filter)

EP 48 PRO Bookbinding Slot Applicators

Part Numbers

EP 48 PRO Applicators

Part Number	Description	Width Adjustment	Pump Adapter Design	Filter Assembly
7561640	Applicator, EP 48, PRO, 1-60 BoD AUT ANG	Automatic	Angled	No
7561641	Applicator, EP 48, PRO, 1-60 BoD, MAN STR	Manual	Straight	No
7561642	Applicator, EP 48, PRO, 1-60 BoD, MAN ANG	Manual	Angled	No
7561643	Applicator, EP 48, PRO, 1-60 BoD, AUT ANG wF	Automatic	Angled	Yes
7561644	Applicator, EP 48, PRO, 1-60 BoD, MAN STR wF	Manual	Straight	Yes
7561645	Applicator, EP 48, PRO, 1-60 BoD, MAN ANG wF	Manual	Angled	Yes

BoD = Book on Demand

Control Cabinet

Part Number	Description	Note
7566431	Control Cabinet, EP 48 PRO	

Plates for Side-Gluing

Part Number	Description
735427	Service Kit, EP48-BoD, Guide Plate, Side-Gluing, 1 x 1
7568130	Service Kit, EP48-BoD, Guide Plate, Side-Gluing, 1 x 2
735626	Service Kit, EP48-BoD, Guide Plate, Side-Gluing, 1 x 3

EP 48 PRO Bookbinding Slot Applicators

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Web Content



Precision Bead Nozzles

Description

Nordson precision nozzles provide superior control of pattern placement and bead width to maximize product quality and reduce rejects. Flow accuracy and consistency increase application control and reduce adhesive usage. Wide tip design increases durability and cut-off control.

- Close-tolerance machining of new bright-finish adapters provides bead placement accuracy within
- $\pm 4^\circ$ from centerline, improving product quality and reducing adhesive costs. In comparison, typical nozzles can vary up to $\pm 19^\circ$ from centerline.
- Precision manufacturing and close-tolerance control of nozzle-insert inside diameter and engagement maximize deposition control for adhesive pattern consistency of $\pm 5^\circ$, compared to $\pm 35^\circ$ with typical nozzles.
- Controlled bore and engagement provide accurate, consistent flow that results in uniform patterns and long-term adhesive savings without jeopardizing bond quality.
- Controlled engagement delivers uniform velocity, permitting up-firing and through-rail delivery while maintaining bead placement with minimal splashback.
- Wide tip design resists substrate-contact damage for long service life.
- Improved heat transfer to tip provides cleaner cut-off with packaging-grade hot melts.
- Accessories include nozzle cleaning kits and replacement probes to help extend nozzle life and preserve pattern performance.

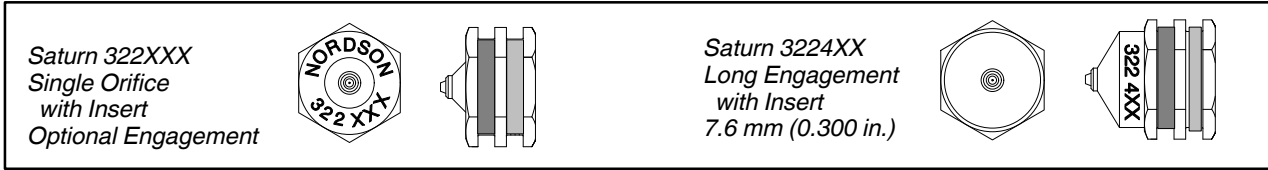
Saturn® Precision Nozzles

Saturn precision nozzles provide visual identification of orifice diameter and engagement length via color-coded rings. These rings are your guarantee of a genuine Nordson Saturn nozzle. Unique Nordson color-coding simplifies nozzle replacement, reduces risk of incorrect nozzle installation and decreases downtime. Saturn nozzles provide the same superior control of pattern placement and bead width as all Nordson precision nozzles.

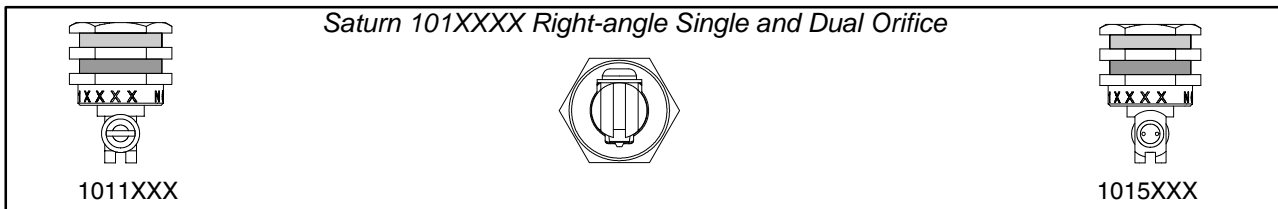
- Two color-coded Saturn rings on the nozzle circumference identify orifice diameter and engagement length for quick reference.
- Visual color reference helps eliminate incorrect nozzle replacements.
- Peel-off label identifiers shipped with each nozzle affix to the gluing station for an additional reference that indicates color codes, part number and actual dimensions.
- Proper nozzle replacement maintains product quality and eliminates downtime caused from incorrect or inferior nozzles.
- Patented Saturn precision nozzles directly replace series 237XXX nozzles and right angle nozzles used on Blue Series, E-350 and E-380 models. Choose Saturn right angle nozzles for low-profile applicators.

Precision Bead Nozzles

Nozzles for Best Choice, MiniBlue II BAS, and E400 Electric Applicators



322XXX Saturn Single Orifice	Engagement mm (in.) Top Ring	Orifice Diameter mm (in.) Bottom Ring									
		0.20 (0.008) Purple	0.25 (0.010) Blue	0.31 (0.012) Green	0.36 (0.014) Yellow	0.41 (0.016) Orange	0.46 (0.018) Red	0.51 (0.020) Beige	0.53 (0.021) Brown	0.61 (0.024) Gray	0.71 (0.028) Black
Brass Adapter, Stainless Steel Insert	1.3 (0.050) Purple	322008	322010	322012	322014	322016	322018	322020		322024	
	1.9 (0.075) Brown		322110	322112	322114	322116	322118	322120		322124	
	2.5 (0.100) Blue			322212	322214	322216	322218	322220		322224	
	3.8 (0.150) Green			322312	322314	322316	322318	322320		322324	1058927
	7.6 (0.300) Black			322412	322414	322416	322418		322421	322424	322428



	Nozzle Angle	Orifice Diameter mm (in.) Bottom Ring										
		0.20 (0.008) Purple	0.25 (0.010) Blue	0.31 (0.012) Green	0.36 (0.014) Yellow	0.41 (0.016) Orange	0.46 (0.018) Red	0.51 (0.020) Beige	0.61 (0.024) Gray	0.71 (0.032) Black	0.81 (0.032) Gold	1.02 (0.040) Turquoise
Brass Adapter, Stainless Steel Insert	Single 90° Purple	1011008	1011010	1011012	1011014	1011016	1011018	1011020	1011024	1011028	1011032	1011040
	Dual 15° Brown			1015812	1015814	1015816	1015818	1015820	1015824	1015828		
	Dual 30° Blue			1015912	1015914	1015916	1015918	1015920	1015924	1015928		

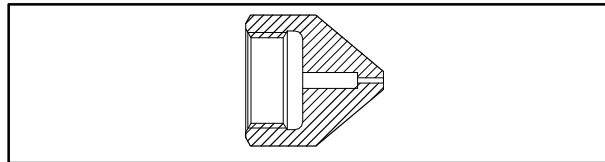
Precision Bead Nozzles

Multi Orifice Nozzle Bead Spacing Table

Distance from Substrate (inches)	Angle Between Nozzles					
	19	22.5	15	30	60	90
	Resulting Bead Spacing in Inches					
0.125	0.04	0.05	0.03	0.07	0.14	0.25
0.250	0.08	0.10	0.07	0.13	0.29	0.50
0.375	0.13	0.15	0.10	0.20	0.43	0.75
0.500	0.17	0.20	0.13	0.27	0.58	1.00
0.625	0.21	0.25	0.16	0.33	0.72	1.25
0.750	0.25	0.30	0.20	0.40	0.87	1.50
0.875	0.29	0.35	0.23	0.47	1.01	1.75
1.000	0.33	0.40	0.26	0.54	1.15	2.00
1.125	0.38	0.45	0.30	0.60	1.30	2.25
1.250	0.42	0.50	0.33	0.67	1.44	2.50
1.375	0.46	0.55	0.36	0.74	1.59	2.75
1.500	0.50	0.60	0.39	0.80	1.73	3.00
1.625	0.54	0.65	0.43	0.87	1.88	3.25
1.750	0.59	0.70	0.46	0.94	2.02	3.50
1.875	0.63	0.75	0.49	1.00	2.17	3.75
2.000	0.67	0.80	0.53	1.07	2.31	4.00
2.125	0.71	0.85	0.56	1.14	2.45	4.25
2.250	0.75	0.90	0.59	1.21	2.60	4.50
2.375	0.79	0.94	0.63	1.27	2.74	4.75
2.500	0.84	0.99	0.66	1.34	2.89	5.00
2.625	0.88	1.04	0.69	1.41	3.03	5.25
2.750	0.92	1.09	0.72	1.47	3.18	5.50
2.875	0.96	1.14	0.76	1.54	3.32	5.75
3.000	1.00	1.19	0.79	1.61	3.46	6.00
3.125	1.05	1.24	0.82	1.67	3.61	6.25
3.250	1.09	1.29	0.86	1.74	3.75	6.50
3.375	1.13	1.34	0.89	1.81	3.90	6.75
3.500	1.17	1.39	0.92	1.88	4.04	7.00
3.625	1.21	1.44	0.95	1.94	4.19	7.25
3.750	1.26	1.49	0.99	2.01	4.33	7.50
3.875	1.30	1.54	1.02	2.08	4.47	7.75
4.000	1.34	1.59	1.05	2.14	4.62	8.00
4.125	1.38	1.64	1.09	2.21	4.76	8.25
4.250	1.42	1.69	1.12	2.28	4.91	8.50
4.375	1.46	1.74	1.15	2.34	5.05	8.75
4.500	1.51	1.79	1.18	2.41	5.20	9.00

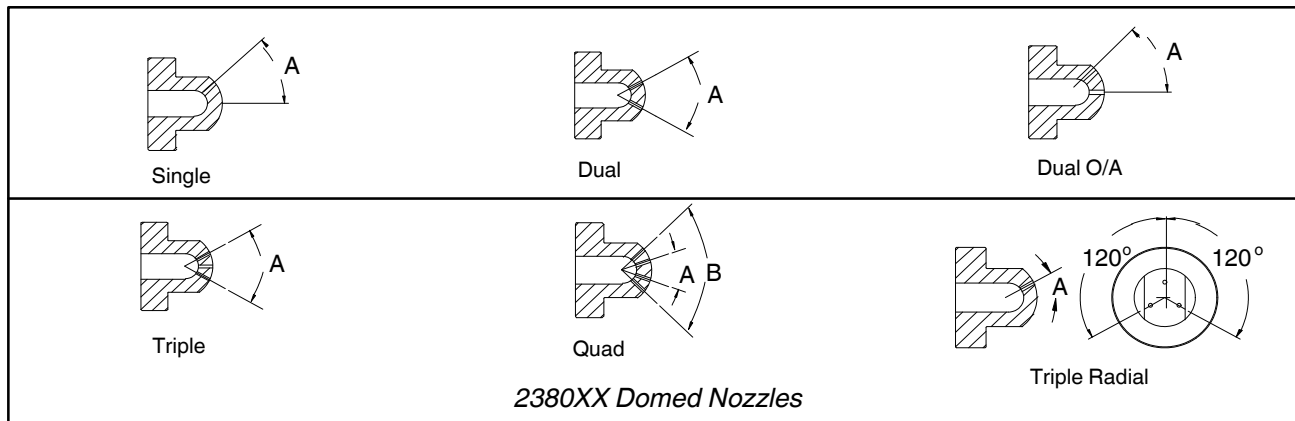
Precision Bead Nozzles

2380XX Domed Nozzles



2380XX Drilled Single Orifice

2380XX Single Orifice, One Piece	Engagement mm (in.)	Orifice Diameter mm (in.)								
		0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.51 (0.020)	0.76 (0.030)	0.89 (0.035)	1.02 (0.040)	1.27 (0.050)
Brass	2.54 (0.1)	238004	238005	238006	238007	238008	238009	238058	238010	
Stainless Steel		238011	238012	238002	238013	238000	238001	238057		238003



2380XX Domed Nozzles

238XXX Domed Nozzles Phosphor Bronze ⁽¹⁾	Orifice Diameter mm (in.)								
	020 (0.008)	0.25 (0.010)	0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.51 (0.020)	0.61 (0.024)	0.76 (0.030)
Single 15°		703299	706078		238015	704891	702927		238016
Single 30°		704542	714977		238017		238018	804520	238019
Single 45°		703464	705512	702598	238020	707218	238021		238022
Single 60°			706057		238023		238024		238025
Dual 15°		238059	238053	238063	238054	130495	238055		238056
Dual 20°		238060	238062	715190	114927	238067			
Dual 30°	804871	703270	238506	704936	114928	805512	238500	238026	238501
Dual 45°	238534	238525	238526	238527	238528	238529	238530	238027	238531
Dual 60°		238061	709371	238064	238028	238068	238029		238030
Dual 0/15°			805397	715462	238031		238032		238033
Dual 0/45°		119360	804761	132567	238034	715872	238035		238036
Triple 30°			238037	238065	238038	238069	238039	238071	238040
Triple 45°			238041	238066	238042	238070	238510	238072	
Triple 60°			238043	807506	238044	708028	238045		238046
Triple Radial 30°	805257		238047		238048		238049		238050
Quad 40/90°		709479	714855	714856	808696		238051		238052

⁽¹⁾ Use with retainer P/N 152926.



Precision Bead Nozzles

Nozzles for H-20, E-100XT, EM-100, M-100, and Series 700 Electric Applicators

These nozzles are comparable to the 73233 Series. They have a .050 in engagement and are 5/32 in. larger.

232XXX and 226XXX Single Orifice Nozzles



232XXX Single Orifice With Insert	Engagement mm (in.)	Orifice Diameter mm (in.)									
		0.20 (0.008)	0.25 (0.010)	0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.51 (0.020)	0.61 (0.024)	0.81 (0.032)	1.03 (0.040)
Brass Adapter, Stain- less Steel Insert ⁽¹⁾⁽²⁾	1.3 (0.050)	232000	232001	232003	232007	232011	232015	232019	232023		
	1.9 (0.075)		232002	232004	232008	232012	232016	232020	232024		
	2.5 (0.100)			232005	232009	232013	232017	232021	232025		
	3.8 (0.150)			232006	232010	232014	232018	232022	232026	226744	226745

⁽¹⁾ Use standard 232XXX and 226XXX nozzles for all applications except those requiring the nozzle guard feature of 231XXX nozzles.

⁽²⁾ Use with retainer 152290.

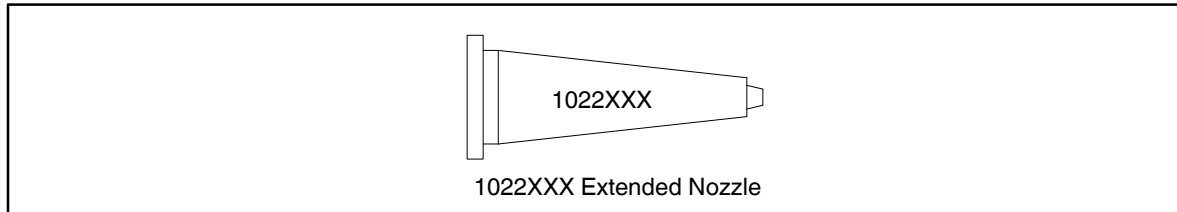
226XXX Single Orifice With Insert	Engagement mm (in.)	Orifice Diameter mm (in.)						
		0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.53 (0.021)	0.61 (0.024)	0.71 (0.028)
Brass Adapter, Stainless Steel Insert ⁽¹⁾⁽²⁾	7.6 (0.300)	226727	226728	226729	226730	226731	226732	226733

⁽¹⁾ Use with retainer 152290.

⁽²⁾ Comparable to the 65289-0XX Series single orifice nozzle for the E100XT, M-100 and EM-100 applicators.

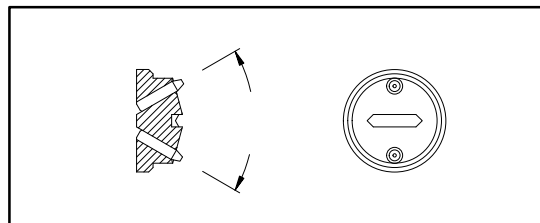
Precision Bead Nozzles

1022XXX Extended Nozzles



1022XXX Extended Nozzles	Engagement mm (in.)	Orifice Diameter mm (in.)							
		0.25 (0.010)	0.38 (0.015)	0.51 (0.020)	0.64 (0.025)	0.76 (0.030)	1.27 (0.050)	1.52 (0.060)	2.29 (0.090)
For E-100XT, M-100 and EM-100 Modules	3.8 (.150)	1022638	1022639	1022640	1022641	1022642	1022648	1022660	1022661

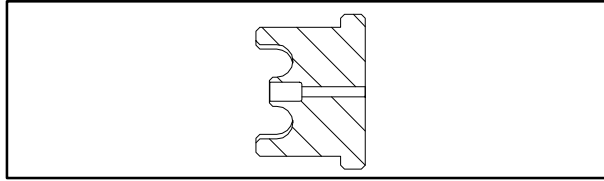
65089 Series Multi-Orifice Cone Nozzles (0.030 Engagement)



Part Number	No. of Orifice	Diameter mm (in.)	Pattern Angle
1022665	2	0.46 (0.018)	60°
1022666	2	0.53 (0.021)	60°
1022667	2	0.31 (0.012)	60°
1022668	2	0.71 (0.028)	45°
1022669	2	0.71 (0.028)	60°
1022670	2 (dual)	0.53 (0.021)	45° and 30°
1022671	2	0.46 (0.018)	30°
1022672	2	0.53 (0.021)	30°
1022673	3	0.46 (0.018)	45°
1022674	3	0.41 (0.016)	45°
1022675	8	0.46 (0.018)	45°

Precision Bead Nozzles

231XXX Single Orifice Nozzles



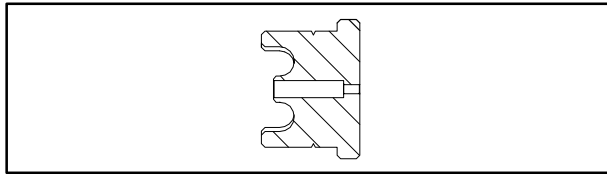
Comparable to 65006 series nozzles

231XXX(1) Single Orifice With Insert	Engagement mm (in.)	Orifice Diameter mm (in.)						
		0.20 (0.008)	0.25 (0.010)	0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.51 (0.020)
Brass Adapter, Stainless Steel Insert ⁽²⁾	1.3 (0.050)	231208	231210	231212	231214	231216	231218	231220
	1.9 (0.075)		231621	231312	231314	231316	231318	231320
	2.5 (0.100)			231412	231414	231416	231418	231420
	3.8 (0.150)			231612	231614	231616	231618	231620

⁽¹⁾ Use standard 232XXX and 226XXX nozzles for all applications except those requiring the nozzle guard feature of 231XXX nozzles.

⁽²⁾ Use with retainer 152290.

2310XX Long Engagement Nozzles



231XXX Single Orifice, Long Engagement (no insert shown)

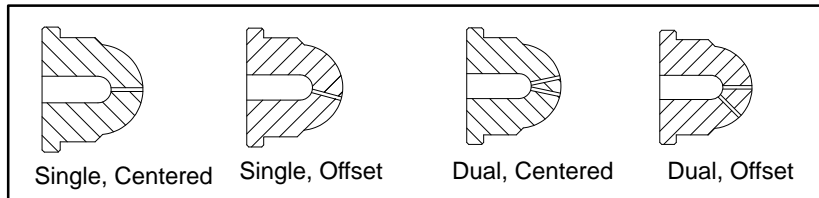
2310XX(1) Single Orifice With Insert, Long Engagement	Engagement mm (in.)	Orifice Diameter mm (in.)						
		0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.53 (0.021)	0.61 (0.024)	0.71 (0.028)
Brass Adapter, Stainless Steel Insert ⁽²⁾	7.6 (0.300)	231003	231005	231008	231018	231027	231040	231060

⁽¹⁾ Use standard 232XXX and 226XXX nozzles for all applications except those requiring the nozzle guard feature of 231XXX nozzles.

⁽²⁾ Use with retainer 152290.

Precision Bead Nozzles

Long Engagement Domed Nozzles



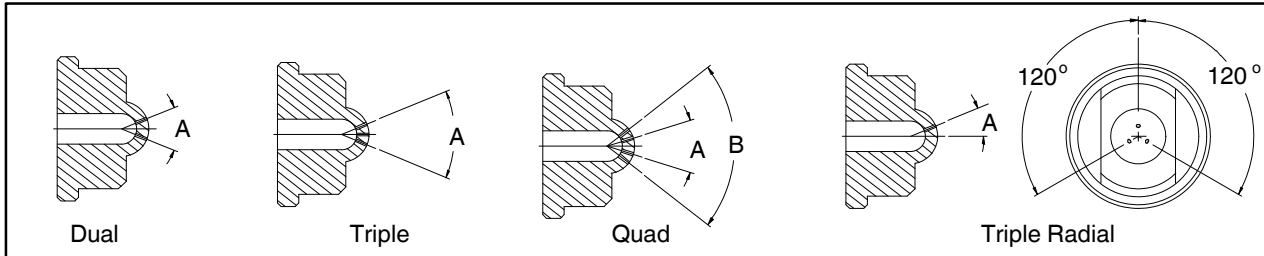
Long Engagement Domed Nozzles ⁽¹⁾⁽²⁾	Engagement mm (in.)	Orifice Diameter mm (in.)			
		0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.51 (0.020)
Steel, Black Oxide-coated					
Single, 0°, Centered	0.36 (0.150)		301959	724771	301969
Single, 15°, Offset	0.36 (0.150)		301960	724671	301970
Single, 22.5°, Offset	0.36 (0.150)		301961	724788	301971
Dual, 0°, 45°, Offset	0.31 (0.100)	234878			
Dual, 0°, 45°, Offset	0.36 (0.150)	234876	301965	724770	301975
Dual, 16°, Offset	0.36 (0.150)		301962	301967	301972
Dual, 24°, Centered	0.36 (0.150)		301963	301968	301973
Dual, 30°, Centered	0.31 (0.100)		226773	226774	301980
Dual, 30°, Centered	0.36 (0.150)		301964	189174	301974
Dual, 45°, Centered	0.36 (0.150)		301966	724789	301976
Dual, 60°, Centered	0.31 (0.100)	226784	301979	725017	301981
Triple, 45°, 0°, 45°, Centered	0.36 (0.150)		234877		
Phosphor Bronze					
Dual, 24°, Centered	0.36(0.150)		301977	228827	301978

⁽¹⁾ Used to increase hydraulic pressure range in gear-to-line and run-up applications. Requires at least 2413.16 kPa (350 psi) for clean cut-off.

⁽²⁾ Use with retainer 152290.

Precision Bead Nozzles

220XXX Domed Nozzles



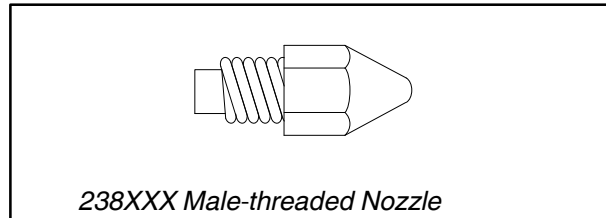
220XXX ⁽¹⁾ Domed Nozzles 1.3 mm (0.050 in.) Engagement	Orifice Diameter mm (in.)						
	0.20 (0.008)	0.25 (0.010)	0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.51 (0.020)
Phosphor bronze⁽²⁾							
Dual 16°	132488		220019	705831	220053		703684
Dual 24°	709983		220009		705205		220045
Dual 30°	702681	703661	220007	220067	702948	706743	808255
Dual 45°	220000	220001	220002	220003	220004	220005	220006
Dual 60°	712230	712231	703669		220046		220047
Triple 30°			220048	704115	220049		804487
Triple 45°	220010	220011	220012	220013	220014	220015	220016
Triple 60°	704380		220050		100651		220051
Radial Triple 22.5°		704113	220034	703469		804760	220052
Quad 35/76°	220020	220021	220022	220023	220024	220025	220026
Steel, black oxide coated⁽²⁾							
Dual 16°			220060	231151	231156	220066	231158
Dual 24°			220059	231152	231157	220077	231159
Dual 30°			220058	220071	159417	220078	220080
Dual 45°			220054	220055	220056	220057	220081
Triple 30°			220068	220072	220073	220079	220082
Triple 45°			220064	231153	220074		
Radial Triple 22.5°			220069	231154	220075		
Quad 35/76°			220061	220062	220076		
Radial Quad 22.5°			220070	231155	220065		

⁽¹⁾ Comparable to the 73262 Series button nozzles. Additional sizes are available. Contact Nordson for more information.

⁽²⁾ Use with retainer 152290.

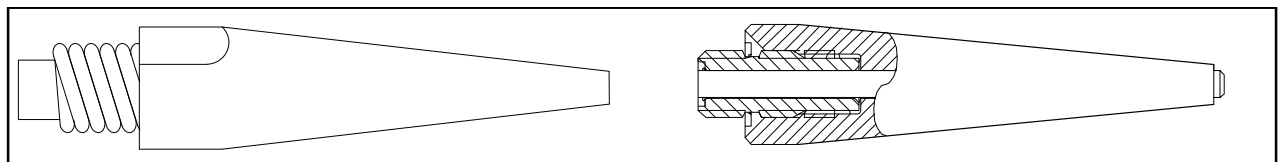
Precision Bead Nozzles

Male-Threaded Nozzles for AD-31 and L4, AD-41, L5, and L7 Extrusion Hand-Held Applicators



238XXX Male-threaded Stainless Steel	Orifice Diameter mm (in.)				
	0.50 (0.020)	0.78 (0.030)	1.02 (0.040)	1.52 (0.060)	2.29 (0.090)
AD-31 A, C, D, L, T, TL AD-41 Standard and Top Feed ⁽¹⁾ Single Orifice	238252	238253	238254	238256	238259

⁽¹⁾ Standard AD-41 hand-held applicators have a small ball-and-seat design (SBS).



Male-threaded Extended Nozzle

Male-threaded Extended Nozzles	Orifice Diameter mm (in.)							
	1.07 (0.042)	1.55 (0.061)	1.57 (0.062)	2.29 (0.090)	2.36 (0.093)	3.18 (0.125)	3.30 (0.130)	3.96 (0.156)
AD-31 A, C, D, L, T, TL AD-41 Standard and Top Feed ⁽¹⁾ Copper Body, Stainless Steel Insert, Brass Fitting	274968	274969		274970			274971	
P/N ID	4	6		9			12	
AD-31 B, K ⁽²⁾ AD-41 LBS ⁽³⁾ Copper			804387		271683	271684		271685
P/N ID			6		9	12		15

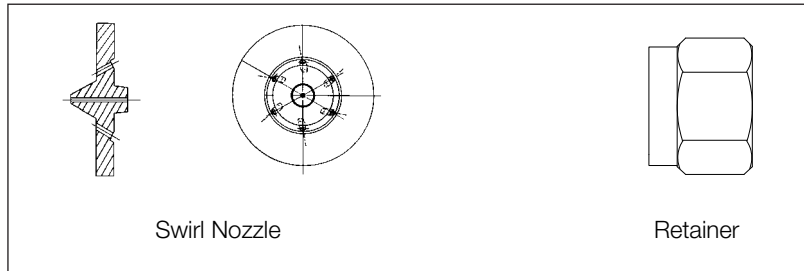
⁽¹⁾ Standard AD-41 hand-held applicators have a small ball-and-seat design (SBS).

⁽²⁾ Engagement is 64.8 mm (2.55 in.).

⁽³⁾ LBS signifies a large ball-and-seat configuration.

Specialty Nozzles

AD-31 and AD-41 Swirl and Wide Pattern Swirl Hand-held Applicators, FP-200 Hand-held Applicators



Special Nozzle	Orifice Diameter mm (in.)											
	0.20 (0.008)	0.25 (0.010)	0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.51 (0.020)	0.64 (0.025)	0.76 (0.030)	1.02 (0.040)	1.17 (0.046)	1.27 (0.050)
Wide Pattern Swirl(1)								125607	131998		131635	
Swirl(2)	104100	104101	860548	860574	860575	860226	860435	100728	810381	810382		810300

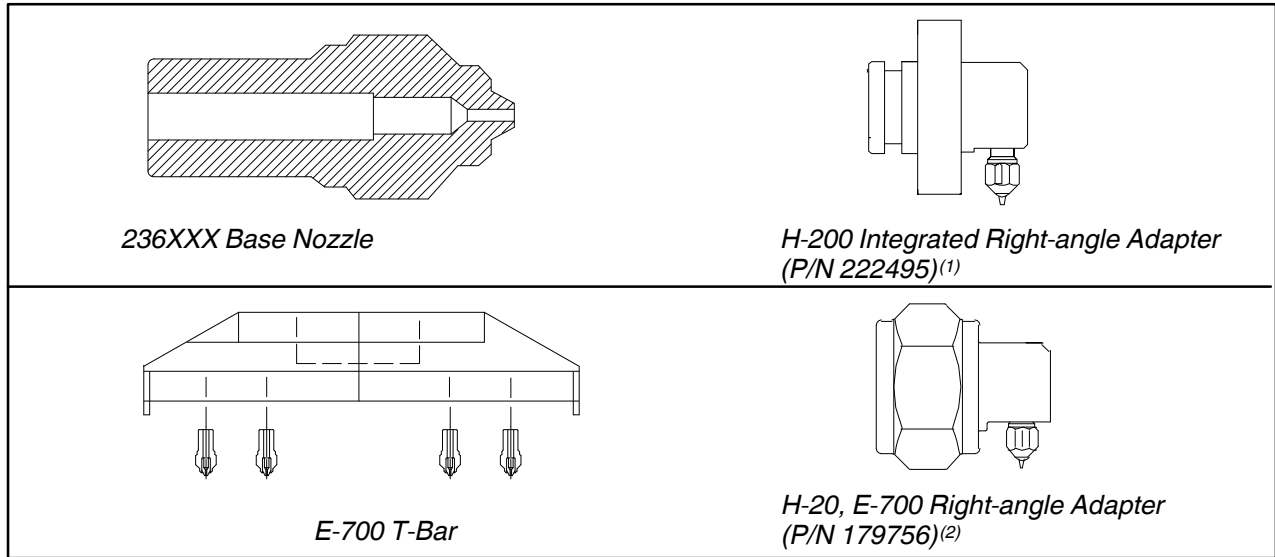
⁽¹⁾ Single-piece.

⁽²⁾ Use retainer 119202 (H-200) or 102406 (AD-31).

FP-200 Nozzles	Orifice Diameter mm (in.)				
	0.64 (0.025)	1.07 (0.042)	1.55 (0.061)	2.29 (0.090)	4.75 (0.187)
Extended Extrusion	710245	709018	710246	724268	703223

Specialty Nozzles

Nozzles for H-20 Automatic Applicators with Right-Angle Adapter



⁽¹⁾ H-200 integrated right-angle sold as a module only, 222495. Purchase 236 series nozzles separately.

⁽²⁾ Order retainer P/N 152290 and 236 series nozzles separately. P/N 152290 is the standard retainer nut for H-20 and E-700 applicators.

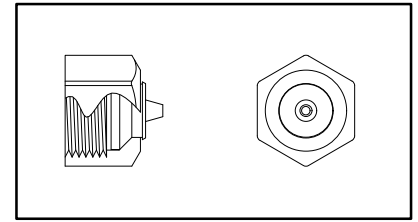
236XXX Specialty Nozzles Single Orifice With Insert	Engagement mm (in.)	Orifice Diameter mm (in.)						
		0.20 (0.008)	0.25 (0.010)	0.31 (0.012)	0.36 (0.014)	0.41 (0.016)	0.46 (0.018)	0.51 (0.020)
Stainless-steel Adapter With Insert	1.3 (0.050)	236208	236210	236212	236214	236216	236218	236220
	1.9 (0.075)		236621	236312	236314	236316	236318	236320
	2.5 (0.100)			236412	236414	236416	236418	236420
	3.8 (0.150)			236612	236614	236616	236618	236620
Nozzle Blank	—	098403						

2360XX Specialty Nozzles Single Orifice, One Piece	Engagement mm (in.)	Orifice Diameter mm (in.)				
		0.41 (0.016)	0.46 (0.018)	0.53 (0.021)	0.61 (0.024)	0.71 (0.028)
Brass	7.6 (0.300)	236008	236018	236027	236040	236060

Specialty Nozzles

Nozzles for E-900 and EM-900 Modules

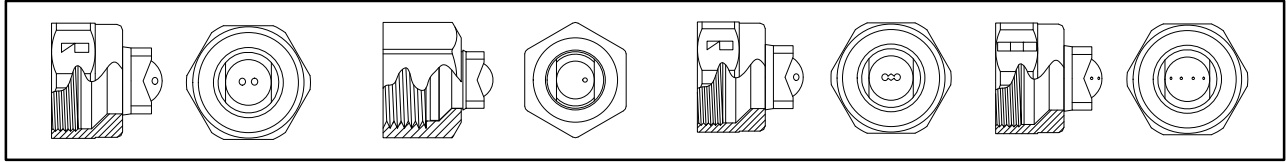
Straight Orifice Nozzles



Part Number	Orifice Size mm (in.)	Engagement mm (in.)
1026682	0.41 (0.016)	7.62 (0.300)
1026683	0.46 (0.018)	7.62 (0.300)
1026684	0.51 (0.020)	7.62 (0.300)
1026685	0.64 (0.025)	7.62 (0.300)
1026686	0.89 (0.035)	7.85 (0.309)
1026687	1.27 (0.050)	0.000
1026688	0.20 (0.008)	1.27 (0.050)
1026689	0.25 (0.010)	1.27 (0.050)
1026700	0.30 (0.012)	1.27 (0.050)
1026701	0.25 (0.010)	1.91 (0.075)
1026702	0.30 (0.012)	1.91 (0.075)
1026703	0.36 (0.014)	1.91 (0.075)
1026704	0.41 (0.016)	1.91 (0.075)
1026705	0.46 (0.018)	1.91 (0.075)
1026706	0.51 (0.020)	0.000
1026707	0.30 (0.012)	3.81 (0.150)
1026708	0.46 (0.018)	3.81 (0.150)
1026709	0.51 (0.020)	3.81 (0.150)
1026710	0.64 (0.025)	3.81 (0.150)
1026711	0.76 (0.030)	3.81 (0.150)
1026712	0.89 (0.035)	3.81 (0.150)
1026713	1.02 (0.040)	3.81 (0.150)

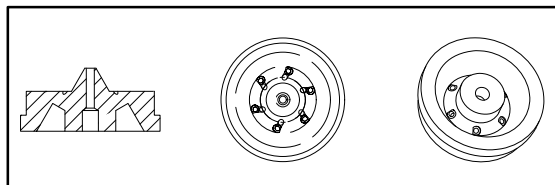
Specialty Nozzles

Button Nozzles



Part Number	Number of Orifice	Orifice size mm (in)	Pattern Degree
1026714	1	0.51 (0.020)	30
1026715	2	0.30 (0.012)	30
1026716	2	0.41 (0.016)	30
1023717	2	0.41 (0.016)	90
1026718	2	0.46 (0.018)	30
1026719	2	0.46 (0.018)	45
1026720	2	0.51 (0.020)	30
1026721	2	0.51 (0.020)	45
1026722	2	0.64 (0.025)	45
1026723	2	0.64 (0.025)	90
1026724	3	0.51 (0.020)	30
1026725	3	0.64 (0.025)	60
1026726	4	0.51 (0.020)	90 and 45

Swirl Nozzles



Part Number	Description
1026094	Nozzle and Nut, Fine Swirl, 0.025 in. Orifice
1026090	Nozzle and Nut, 0.030 in. Orifice
1026091	Nozzle and Nut, 0.046 in. Orifice
1026093	Nozzle and Nut, 0.055 in. Orifice
1026087	Kit, Swirl Adapter

Specialty Nozzles

Right Angle Nozzles



Part Number ⁽¹⁾	Number of Orifice	Orifice Size mm (in.)
1026727	1	0.71 (0.028)
1026728	1	0.30 (0.012)
1026729	1	0.36 (0.014)
1026730	1	0.41 (0.016)
1026731	1	0.46 (0.018)
1026732	1	0.51 (0.020)
1026733	1	0.64 (0.025)
1026734	1	0.76 (0.030)
1026735	1	1.02 (0.040)
1026736	2	0.36 (0.014)
1026737	2	0.41 (0.016)
1026738	2	0.46 (0.018)
1026739	2	0.51 (0.020)
1026740	2	0.64 (0.025)
1026741	2	0.76 (0.030)
1026742	2	1.02 (0.040)
1026743 ⁽²⁾	2	0.30 (0.012)
1026744 ⁽²⁾	2	0.36 (0.014)
1026745 ⁽²⁾	2	0.41 (0.016)

⁽¹⁾ These are not interchangeable with E350 Nozzles. E-900 and EM-900 threads are 1/2-24, while E350 threads are 3/8-24 UNF-2B.

⁽²⁾ 90 degree pattern width.

Specialty Nozzles

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Nozzle Accessories

Nozzle Accessories

Component	Part Number	Description	Comment
Nozzle Cleaning Kit	901915	Cleaning kit	Includes pin vise, three vials of nozzle probes (25 probes per vial) and wooden box. Items may be ordered individually.
	901925	• Tool Box Assembly	
	901916	• Pin Vise	
	901922	• Probe, 0.12 mm (.007 in.) Diameter	
	901923	• Probe, 0.28 mm (.011 in.) Diameter	
	901924	• Probe, 0.36 mm (.014 in.) Diameter	
E-100 nozzle Cleaning Kit	1031803	Cleaning Kit	All vials in the cleaning kit include 10 probes unless noted otherwise.
	909222	• Probe, 0.12 mm (.007 in.) Diameter	25 probes per vial
	901923	• Probe, 0.28 mm (.011 in.) Diameter	
	901924	• Probe, 0.36 mm (.014 in.) Diameter	
	1032002	• Probe, 0.46 mm (.018 in.) Diameter	10 probes per vial
	1032003	• Probe, 0.58 mm (.023 in.) Diameter	
	1032004	• Probe, 0.71 mm (.028 in.) Diameter	
	1032005	• Probe, 0.97 mm (.038 in.) Diameter	
	1032006	• Probe, 1.22 mm (.048 in.) Diameter	
	1032007	• Probe, 1.5 mm (.059 in.) Diameter	
	1019233	• Tools, Pin Vises	
Adapter/Nut Pair	804204	Adapter	Use with H-20 nozzles on H-200 applicators.
	804205	Retaining Nut	Use with P/N 804204.

Nozzle Accessories

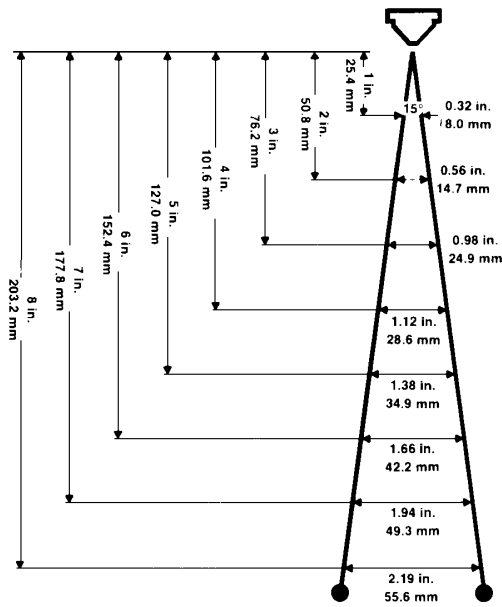
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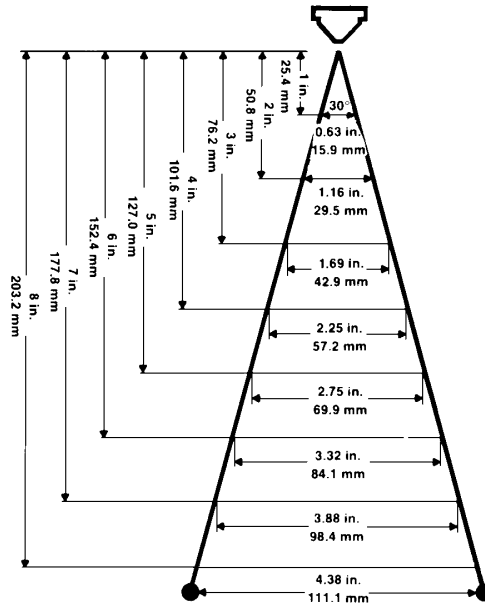
Pattern Width Graphs

Pattern Width Graphs

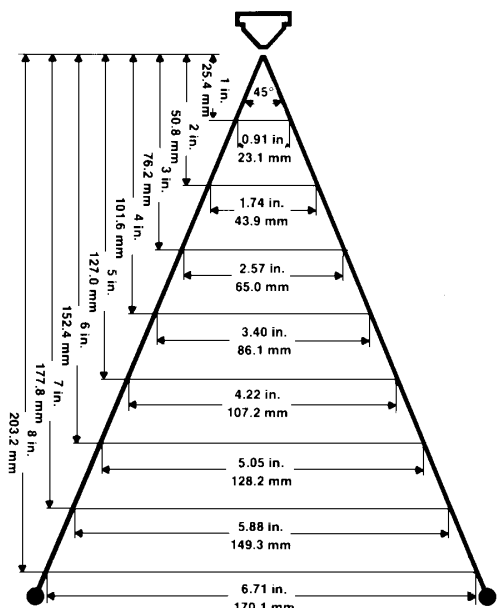
Approximate pattern widths at 25 mm (1 in.) increments from nozzle tip for automatic applications using standard and custom multi-orifice nozzles.



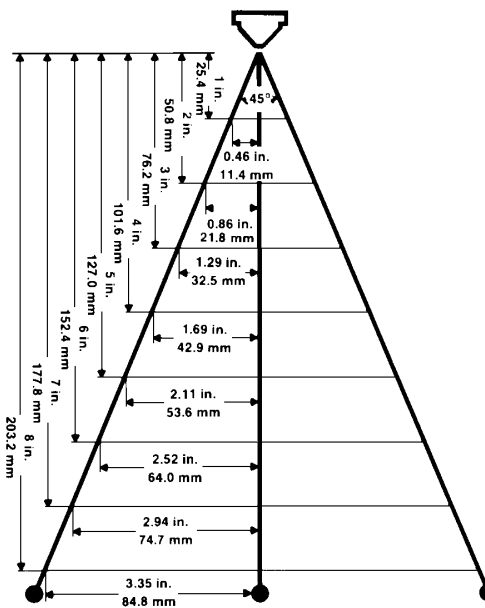
Two Orifice — 15°



Two Orifice — 30°



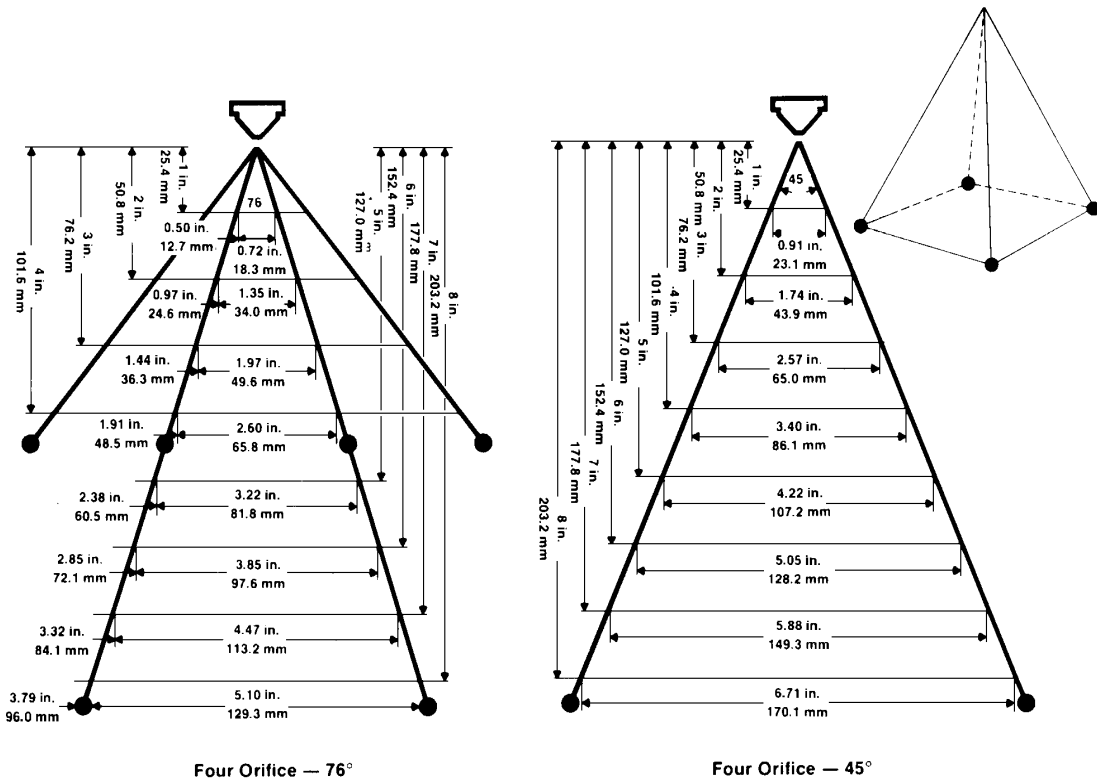
Two Orifice — 45°



Three Orifice — 45°

Pattern Width Graphs

Pattern Width Graphs *(contd.)*



Web Content



Advanced Technology Hot Melt Hoses

Description

Nordson advanced-technology hot melt hoses are the industry standard for consistent temperature control and safe operation. Advanced-technology hoses extend performance and durability using (Nomex®) aramid insulation. This feature, along with thermal-sensing accuracy, automated manufacturing and parallel ground paths, provides unmatched performance, durability and safety.

- Aramid insulation significantly improves chemical resistance and moisture sensitivity.
- Chlorine-free materials eliminate hardware corrosion caused by emissions at elevated temperatures.
- Insulation retains hose flexibility, and electrical and mechanical properties well beyond system operating temperatures. Insulation will not melt or support combustion in the air.
- Four layers of overlapped aramid-felt insulation increase thermal efficiency, control heat loss, improve durability and reduce external temperature.
- Nordson RTD-style and TC Series Pt100 (RTD) hoses feature area sensors that use temperature averaging over a set hose length to generate a reliable reading of hot melt temperature.

- TC Series thermocouple (TC) hoses use point sensors at a discrete point. Automated manufacturing maintains consistent thermocouple positioning for accurate and consistent temperature readings.
- Precision fabrication and calibration prior to assembly ensure that resistance and control values match, eliminating the need for temperature control calibration at installation.
- Low watt-density heating elements reduce hot spot potential that can cause char.
- Closely spaced wraps deliver efficient and uniform heat transfer for controlled startup and consistent flow rates.
- Two separate ground paths protect personnel from injury and equipment from damage.
- Dedicated low-resistance ground reduces the possibility of high-impedance faults.
- Electrical connections use make-first, break-last pins at the applicator and unit ends to prevent powering the hose or applicator without ground connection.
- Nordson RTD-style water-wash hoses have improved water resistance and greater flexibility for tight installation. Plugs are rated to IP67 with the Nordson hose/applicator rated IPX6.
- Accessories include brackets, inline filters, fittings, hose protector, and suspension support.

NOTE: Refer to information shipped with the hose for electrical connector data.

Nomex is a registered trademark of E.I. DuPont de Nemours and Company

Minimum Radii for Hoses

Medium-Pressure (“Standard”) Hoses

Industry Standard Size	Hose "Dash" Number	Inside Diameter (inches)	Core Bend Radius	Hose Bend Radius
0.25	4	0.187	2.0	6.0
0.31	5	0.250	2.5	6.5
0.37	6	0.312	4.0	8.0
0.5	8	0.406	4.6	9.0
0.62	10	0.500	5.5	10.0
0.75	12	0.625	6.5	11.0
1	16	0.875	9.0	14.0
1.25	20	1.125	----	17.0

High-Pressure (“Standard”) Hoses

Industry Standard Size	Hose "Dash" Number	Inside Diameter (inches)	Core Bend Radius	Hose Bend Radius
0.25	4	0.222	1.50	5.5
0.37	6	0.308	2.50	6.5
0.5	8	0.401	2.875	7.5
0.62	10	0.495	3.25	8.0
0.75	12	0.617	3.875	9.375
1	16	0.867	5.00	10.0
1.25	20	1.118	12.00	17.0
1.5	24	1.375	14.00	19.0

Advanced Technology Hot Melt Hoses

Specifications

Parameter	Specification
Maximum operating temperature	230 °C (450 °F)
Maximum hydraulic pressure ⁽¹⁾ 5/16 in., 1/2 in., MPa (psi) 1-1/8 in. MPa (psi) 5/8 in. MPa (psi)	10.34 (1,500) 8.27 (1,200) 6.894 (1,000)
Electrical service	240 VAC, 200 VAC, 50/60 Hz
Approvals and certifications	UL, CUL, TÜV, CE (RTD versions only)
Estimated hose weight with adhesive	5/16 in. hose, appx. 1/2 pound per foot 5/8 in. hose appx. 1 pound per foot

⁽¹⁾ Varies with hose diameter.

Wattage Calculations for Hoses and Applicators on the PA2500 System

Pump Type	Wattage for Hoses and Applicators	=	Hose Wattage	+	Applicator
Piston	900 Watts (Max.)		(ft/Hose) X 30 W for HP hoses (450 °F Max.) OR (ft/Hose) X 20 W for Standard (375 °F Max.)		Applicator Wattage ⁽¹⁾
Gerotor	645 Watts (Max.)		(ft/Hose) X 30 W for HP Hoses (450 °F Max.) OR (ft/Hose) X 20 W for Standard (375 °F Max.)		Applicator Wattage ⁽¹⁾

⁽¹⁾Applicator Wattages:
 AD-31 80 W CF-201 150 W
 AD-41 100 W FP-200 160 W
 SolidBlue S 150 W

Wattage Calculations for Manual Applicators and Hoses for 120V DuraBlue Melters

Max. Wattage for Any Hose or Applicator	Max. Wattage for a Hose/ Applicator Pair	Total Wattage Limitation for all Hoses and Applicators		=	Hose Wattage	+	Applicator
		Max. Wattage	Melter Model				
500 W	600 W	1045 W	D4L and D10L (22 kg/hr)		Length (ft) X 30 W/ft for HP Hose (450 °F max) OR		AD-41 - 100 W
		985 W	D10L and D16L (45 kg/hr)		Length (ft) X 20 W/ft for Standard Hose (375 °F max)		FP-200 - 160W

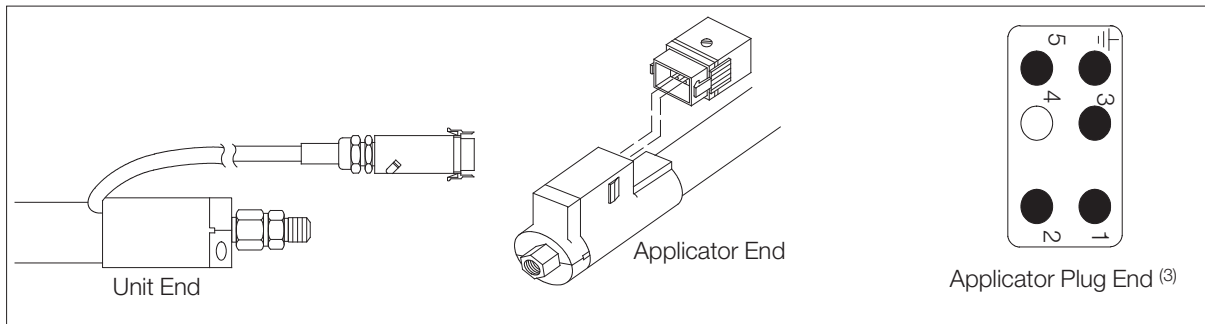


Advanced Technology Hot Melt Hoses

Hose Selections

Hoses are listed by type, diameter, control type and melter. Sensors vary by melter type. Nordson extends advanced-technology construction to the entire product line.

Blue Series™ RTD-Style Automatic Applicator Hoses 5/16 in. Diameter: Blue Series, FoamMelt 200 Processors, and SureFoam



Blue Series hoses ship with permanent hose mounts as indicated in chart.

Description	Part Number	Watts	Length		No. of Hangers
			M	FT	
Automatic, 240V 5/16 in. Dia.	274790	56	0.6	2	0
	274791	120	1.2	4	1
	274792	184	1.8	6	2
	274793	248	2.4	8	3
	274794	312	3.0	10	3
	274795	376	3.6	12	4
	274796	504	5.0	16	5
	223836	632	6.0	20	7
	274797	760	7.4	24	8
Automatic, 240V, Water Wash ⁽¹⁾ 5/16 in. Dia. Use with all Nordson RTD-style water-wash hand-held applicators. NOTE: <i>The unit end cordset is not compatible with the AquaGuard system.</i>	276739	51	0.6	2	0
	276740	120	1.2	4	1
	276741	184	1.8	6	2
	276742	248	2.4	8	3
	276743	312	3.0	10	3
	143300	340	3.6	12	4
	276744	456	5.0	16	5
	223837	572	6.0	20	7
	276745	688	7.4	24	8

Continued...

Advanced Technology Hot Melt Hoses

Blue Series™ RTD-Style Automatic Applicator Hoses 5/16 in. Diameter: Blue Series, FoamMelt 200 Processors, and SureFoam (contd.)

Description	Part Number	Watts	Length		No. of Hangers
			M	FT	
Automatic, 240V, Hi-Flex ⁽²⁾ 5/16 in. Dia. NOTE: <i>HiFlex is distinguished by a blue nylon thread in the outer braid.</i>	107288	120	1.2	4	1
	107286	184	1.8	6	2
	107287	248	2.4	8	3
	107289	312	3.0	10	3
	107310	376	3.6	12	4
	104008	504	5.0	16	5
	223838	632	6.0	20	7
	100832	760	7.4	24	8
Automatic, 240V, Water Wash ⁽¹⁾ Hi-Flex ⁽²⁾ 5/16 in. Dia. Use for all Blue Series melters. NOTE: <i>The unit end cordset is not compatible with the AquaGuard system.</i>	155183	109	1.2	4	1
	155184	167	1.8	6	2
	155185	224	2.4	8	3
	155186	282	3.0	10	3
	155187	340	3.6	12	4
	155188	456	5.0	16	5
	223839	572	6.0	20	7
	155189	688	7.4	24	8
Automatic, 120V, Low Watt 5/16 in. Dia.	309396	355	5.0	16	5
	307016	445	6.0	20	7
	309397	535	7.4	24	8
Automatic, 120V, Standard Watt ⁽⁴⁾ 5/16 in. Dia.	307006	246	2.4	8	3
	307007	373	3.6	12	4
	307008	500	5.0	16	5
	307009	627	6.0	20	7
	307010	754	7.4	24	8
Automatic, 200V 5/16 in. Dia.	276150	47	0.6	2	0
	276151	120	1.2	4	1
	276152	184	1.8	6	2
	276153	248	2.4	8	3
	276154	312	3.0	10	3
	276155	376	3.6	12	4
	276156	504	5.0	16	5

Continued...

Advanced Technology Hot Melt Hoses

Description	Part Number	Watts	Length		No. of Hangers
			M	FT	
Automatic, 200V, Hi-Flex ⁽²⁾ 5/16 in. Dia.	129556	100	1.2	4	1
	129557	153	1.8	6	2
	129559	206	2.4	8	3
	129561	259	3.0	10	3
	129562	313	3.6	12	4
	129564	419	5.0	16	5
Automatic, 20V, water wash ⁽¹⁾ Hi-Flex ⁽¹⁾ 5/16 in. Dia.	296908	100	1.2	4	1
	296909	153	1.8	6	2
	296910	206	2.4	8	3
	296911	259	3.0	10	3
	296912	313	3.6	12	4
	296913	419	5.0	16	5

⁽¹⁾ Use standard Nordson water-wash hoses with RTD-style H-21 hand-held applicators.

⁽²⁾ Hi-Flex construction hoses must be used in moving applicator applications. Contact Nordson for details about Hi-Flex hoses.

⁽³⁾ Standard plug shown. Water-wash plugs are round Amphenol® connectors.

⁽⁴⁾ Consider the wattage available for hoses and applicators on 120V melters. Contact Nordson to ensure that available system wattage is not exceeded.

Advanced Technology Hot Melt Hoses

RTD-Style Automatic Applicator Hoses 5/8 in. Diameter: Blue Series, FoamMelt 200 Processors, SureFoam, VersaDrum, VersaPail, DuraDrum, and DuraPail

Description	Part Number	Watts	Length	
			M	FT
Automatic, 200 V, Hi-Flex ⁽¹⁾ 5/8 in. Dia.	129566	123.75	1.2	4
	129568	189.75	1.8	6
	129569	255.75	2.4	8
	129571	321.75	3.0	10
	129572	387.75	3.6	12
	1123925	519.75	5.0	16
Automatic, 240 V, Hi-Flex ⁽¹⁾ 5/8 in. Dia.	129575	123.75	1.2	4
	129576	189.75	1.8	6
	1123928	255.75	2.4	8
	129578	321.75	3.0	10
	1123929	387.75	3.6	12
	1123926	519.75	5.0	16
	1010811	660	6.0	20
1010813	831	7.4	24	

⁽¹⁾Hi-Flex construction hoses must be used in moving applicator applications. Contact Nordson for more information.

RTD-Style e.dot Hoses

Description	Part Number	Watts	Length	
			M	FT
Electric, 240V, 1/4 in. Dia.	1040295	189	2	6
	1056635	238	2.5	8
	1040296	337	3.5	12
	1040297	485	5.0	16

Advanced Technology Hot Melt Hoses

Automatic Applicator Hoses, 5/16, 5/8, 1-1/8 in. Diameter, RTD Control: BM 20/ BM 200 Drum Melters

Description	Part Number	Watts	Length	
			M	FT
Automatic, 230V, Hi-Flex ⁽¹⁾ 5/16 in. Dia.	276946	225.99	3.0	10
	276947	365.49	5.0	16
	276948	551.26	7.4	24
	276949	689.94	9.1	30
Automatic, 230V 5/8 in. Dia.	276934	348.73	3.0	10
	276935	594.51	5.0	16
	276936	858.1	7.4	24
	276937	972.87	9.1	30
Automatic, 230V 1 1/8 in. Dia.	100706	460.64	3.0	10
	100707	699	5.0	16

⁽¹⁾Hi-Flex construction hoses must be used in moving applicator applications. Contact Nordson for more information.

Advanced Technology Hot Melt Hoses

RTD-Style AD-31 Hand-Held Applicator Hoses 5/16 in. Diameter: Blue Series, FoamMelt 200 Processors, and SureFoam

Description	Part Number	Watts	Length	
			M	FT
Hand-held Applicator, AD-31, 240V, Corrugated Cover ⁽¹⁾ 5/16 in. Dia	274798	224	2.4	8
	115833	282	3.0	10
	130785	340	3.6	12
	274799	456	5.0	16
	101354	688	7.4	24
Hand-held Applicator, AD-31, 240V, DuraBraid Cover ⁽²⁾⁽³⁾ 5/16 in. Dia.	133913	224	2.4	8
	138927	282	3.0	10
	1044277	340	3.6	12
	1044278	456	5.0	16
Hand-held Applicator, AD-31, 200V, Corrugated Cover ⁽¹⁾ 5/16 in. Dia.	276533	206	2.4	8
	276534	419	5.0	16
Hand-held Applicator, AD-31, 120V, Corrugated Cover ⁽¹⁾⁽³⁾ 5/16 in. Dia.	307011	246	2.4	8
	307012	373	3.6	12
	307013	500	5.0	16
	307014	627	6.0	20
	307015	754	7.4	24
Hand-held Applicator, AD-31, 120V, Corrugated Cover ⁽¹⁾ 5/16 in. Dia. Low Watt Design ⁽⁴⁾	309398	174	2.5	8
	309399	264	3.6	12
	309400	355	5.0	16
	307017	445	6.0	20
	309401	535	7.4	24
Hand-held Applicator, AD-31, 120V, DuraBraid Cover ⁽²⁾ 5/16 in. Dia.	1039676	246	2.5	8
	1039677	373	3.6	12
	1039678	500	5.0	16

⁽¹⁾ Semi-rigid molded cover provides additional abrasion protection.

⁽²⁾ DuraBraid covering for better wear resistance. Use only with corrugated-style hand-held applicators.

⁽³⁾ AD-31 RTD-style hand-held applicators use a pivot sleeve shell that locks to the hose corrugated cover. This is designed for use with braided cover hoses and is not compatible with corrugated cover hoses. Conversion kits to permit use of corrugated cover hoses with thermostat hand-held applicators are available. Consult a Nordson representative for conversion kits.

⁽⁴⁾ For multiple hose systems.

Advanced Technology Hot Melt Hoses

AD-31 (LBS, B, C, K) Hand-Held Applicator Hoses 5/16, 5/8, 3/4, 1-1/8 in. Diameter, RTD Control: BM 20/BM 200 Drum Melters

Description	Part Number	Watts	Length	
			M	FT
Hand-held Applicator, 240V 5/16 in. Dia.	276950	282.39	3.0	10
	276951	456.17	5.0	16
	276952	687.87	7.4	24
	276953	697.50	9.1	30
Hand-held Applicator, 230V 5/8 in. Dia.	276938	348.73	3.0	10
	276939	594.51	5.0	16
	276940	858.1	7.4	24
	276941	972.87	9.1	30
Hand-held Applicator, 230V, Corrugated Cover ⁽¹⁾ 5/16 in. Dia.	120958	259	3.0	10
	120959	419	5.0	16
Hand-held Applicator, 230V, High Pressure ⁽²⁾⁽³⁾ 3/4 in. Dia.	346048	361	3.0	10
	346049	583	5.0	16
	346050	879	7.4	24

⁽¹⁾ Semi-rigid molded cover provides additional abrasion protection.

⁽³⁾ BM units with 42:1 pumps must use high pressure hoses only.

⁽²⁾ Round, MS connector (8 pin) on applicator end.

AD-41 (LBS, B, C, K) Hand-Held Applicator Hoses 5/16, 5/8, 3/4, 1-1/8 in. Diameter, RTD Control: BM 20/BM 200 Drum Melters

Description	Part Number	Watts	Length	
			M	FT
Hand-held Applicator, AD-41, 240V, DuraBraid ⁽¹⁾ 5/16 in. Dia.	325763	224	2.4	8
	325764	340	3.6	12
	325765	456	5.0	16
	325766	572	6.0	20
	325767	688	7.4	24
Hand-held Applicator, AD-41, 200V, DuraBraid ⁽¹⁾ 5/16 in. Dia.	1031728	206	2.5	8
	1031729	313	3.6	12
	1031740	419	5.0	16
Hand-held Applicator, AD-41, 120V, DuraBraid ⁽¹⁾⁽²⁾ 5/16 in. Dia.	307001	246	2.4	8
	307002	373	3.6	12
	307003	500	5.0	16
	307004	572	6.0	20
	307005	754	7.4	24
Hand-held Applicator, AD-41, 120V, DuraBraid ⁽¹⁾⁽²⁾ 5/16 in. Dia. Low Watt Design, 190 °C (375 °F) Maximum	325779	174	2.5	8
	325780	264	3.6	12
	325781	355	5.0	16
	325782	445	6.0	20
	325783	535	7.4	24

⁽¹⁾ DuraBraid covering for better wear resistance. Use only with corrugated-style hand-held applicator.

⁽²⁾ For multiple hose systems.

Advanced Technology Hot Melt Hoses

Transfer Hoses 5/16, 5/8, 1-1/8 in. Diameter RTD Control: BM 20/BM 200 Drum Melters

Description	Part Number	Watts	Length	
			M	FT
Transfer, BM, RTD, 230V 5/16 in. Dia.	160263	365	5.0	16
	160264	551	7.4	24
	160265	690	9.1	30
Transfer, BM, RTD, 230V 5/8 in. Dia.	276942	348.73	3.5	10
	276943	594.51	5.0	16
	276944	858.1	7.4	24
	276945	972.87	9.1	30
Transfer, BM, RTD, 230V 1 1/8 in. Dia.	100704	460.64	3.0	10
	100705	699	5.0	16
	304559	1080	7.4	24

Automatic Applicator Hoses 5/8 in. Diameter Thermistor Control: 150 Series FoamMelt Processors

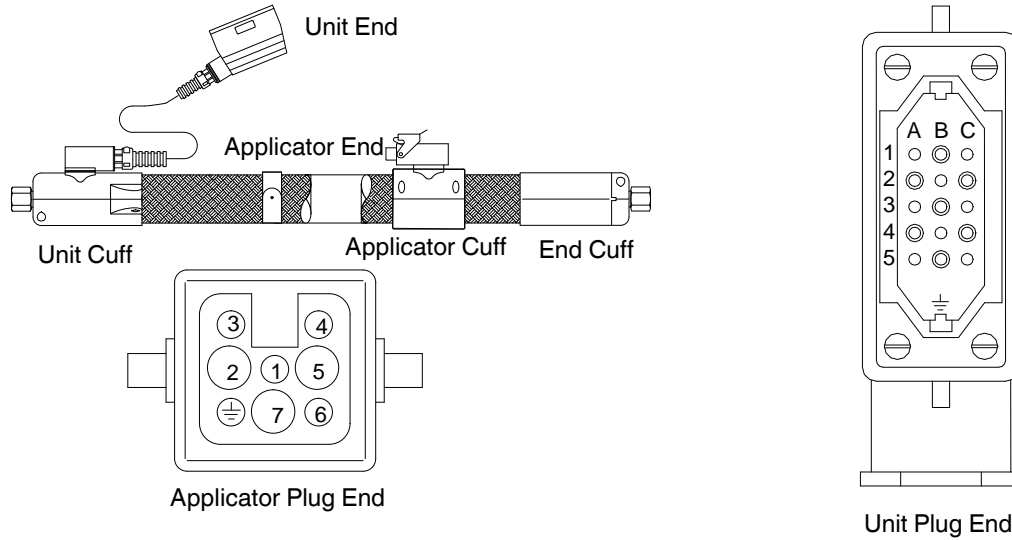
Description	Part Number	Watts	Length	
			M	FT
Automatic, 240V 5/8 in. Dia.	719033	214.3	1.8	6
	719022	348.6	3.0	10
	719030	526.4	5.0	16

Automatic Applicator Hoses 5/8 in. Diameter RTD Control: 190 Series FoamMelt Processors

Description	Part Number	Watts	Length	
			M	FT
Automatic, 230V 5/8 in. Dia.	111094	189.8	1.8	6
	111095	312.8	3.0	10
	111096	519.8	5.0	16

Advanced Technology Hot Melt Hoses

VersaBlue Series High Temperature Hoses, Pt100 Control



Description	Part Number	Watts	Length	
			M	FT
Automatic, 240 V, Pt100, HT, High Pressure 5/16 in. (8 mm) Dia..	1040712	123	1.2	4
	1040713	186	1.8	6
	1040714	250	2.4	8
	1040715	313	3.0	10
	1040716	411	4.0	13
	1040717	516	5.0	16
	1040718	621	6.0	20
	1040719	827	8.0	26
Automatic, 240 V, Pt100, HT, High Pressure 5/8 in. Dia..	1040720	238	1.8	6
	1040721	319	2.4	8
	1040722	400	3.0	10
	1040723	525	4.0	13
	1040724	659	5.0	16
	1040725	793	6.0	20

Advanced Technology Hot Melt Hoses

TC-8 Series Automatic Applicator Hoses Thermocouple Control: MX Series Melters

Description	Part Number	Watts	Length	
			M	FT
Automatic, 230 V, Thermocouple, 8 mm (0.312 in.) ID				
TC-12-8 Thermocouple	222771	117	1.2	4
TC-18-8 Thermocouple	149102	179	1.8	6
TC-24-8 Thermocouple	149103	240	2.4	8
TC-30-8 Thermocouple	149104	304	3.0	10
TC-40-8 Thermocouple	149105	408	4.0	13
TC-50-8 Thermocouple	149106	513	5.0	16
TC-60-8 Thermocouple	149107	616	6.0	20
TC-70-8 Thermocouple	222772	720	7.0	23
TC-74-8 Thermocouple	222773	762	7.4	24
TC-80-8 Thermocouple	222774	824	8.0	26
TC-90-8 Thermocouple	222775	928	9.0	29
TC-100-8 Thermocouple	222776	1032	10.0	33
TC-110-8 Thermocouple	222820	1137	11.0	36
TC-120-8 Thermocouple	222821	1240	12.0	39
TC-130-8 Thermocouple	222822	1344	13.0	43

TC-8 Series Automatic Applicator Hose Pt100 Control: MX Series Melters

Description	Part Number	Watts	Length	
			M	FT
Automatic, 230 V, Pt100, 8 mm (0.312 in.) ID				
TC-12-8 Pt100	222797	117	1.2	4
TC-18-8 Pt100	222813	179	1.8	6
TC-24-8 Pt100	222777	240	2.4	8
TC-30-8 Pt100	222778	304	3.0	10
TC-40-8 Pt100	222779	408	4.0	13
TC-50-8 Pt100	222780	513	5.0	16
TC-60-8 Pt100	222781	616	6.0	20
TC-70-8 Pt100	222782	720	7.0	23
TC-74-8 Pt100	222783	762	7.4	24
TC-80-8 Pt100	222784	824	8.0	26
TC-90-8 Pt100	222799	928	9.0	29
TC-100-8 Pt100	222800	1032	10.0	33
TC-110-8 Pt100	222823	1137	11.0	36
TC-120-8 Pt100	222824	1240	12.0	39
TC-130-8 Pt100	222825	1344	13.0	43

Advanced Technology Hot Melt Hoses

TC-13 Series Automatic Hoses Thermocouple Control: MX Series Melters

Description	Part Number	Watts	Length	
			M	FT
Automatic, 230 V, Thermocouple, 13 mm (0.500 in.) ID				
TC-12-13 Thermocouple	222801	117	1.2	4
TC-18-13 Thermocouple	222802	179	1.8	6
TC-24-13 Thermocouple	222803	240	2.4	8
TC-30-13 Thermocouple	222804	304	3.0	10
TC-40-13 Thermocouple	222805	408	4.0	13
TC-50-13 Thermocouple	222806	513	5.0	16
TC-60-13 Thermocouple	222807	616	6.0	20
TC-70-13 Thermocouple	222808	720	7.0	23
TC-74-13 Thermocouple	222809	762	7.4	24
TC-80-13 Thermocouple	222810	824	8.0	26
TC-90-13 Thermocouple	222811	928	9.0	29
TC-100-13 Thermocouple	222812	1032	10.0	33
TC-110-13 Thermocouple	222814	1137	11.0	36
TC-120-13 Thermocouple	222815	1240	12.0	39
TC-130-13 Thermocouple	222816	1343	13.0	43

TC-13 Series Automatic Hoses, Pt100 Control: MX Series Melters

Description	Part Number	Watts	Length	
			M	FT
Automatic, 230 V, Pt100, 13 mm (0.500 in.) ID				
TC-12-13 Pt100	222785	117	1.2	4
TC-18-13 Pt100	222786	179	1.8	6
TC-24-13 Pt100	222787	240	2.4	8
TC-30-13 Pt100	222788	304	3.0	10
TC-40-13 Pt100	222789	408	4.0	13
TC-50-13 Pt100	222790	513	5.0	16
TC-60-13 Pt100	222791	616	6.0	20
TC-70-13 Pt100	222792	720	7.0	23
TC-74-13 Pt100	222793	762	7.4	24
TC-80-13 Pt100	222794	824	8.0	26
TC-90-13 Pt100	222795	928	9.0	29
TC-100-13 Pt100	222796	1032	10.0	33
TC-110-13 Pt100	222817	1137	11.0	36
TC-120-13 Pt100	222818	1240	12.0	39
TC-130-13 Pt100	222819	1343	13.0	43

Advanced Technology Hot Melt Hoses

Select Series Hoses

The Select Series Hoses provide Nordson quality hoses to fit melters from ITW/DynatecM, Hot Melt Technologies (HMT®) or Robatech. These hoses are equipped with the proper electrical/hydraulic connectors for easy installation on other manufacturers' melters.

ITW - 5/16 in. Automatic Hose for Dynapro and Dynaplus

Part Number	Voltage	Watts	Description
297901	240	109	Hose, 4 ft, DYP
297900	240	167	Hose, 6 ft, DYP
297899	240	224	Hose, 8 ft, DYP
297898	240	282	Hose, 10 ft, DYP

ITW - 5/16 in. Automatic Hose for Dynamelt and Dynamini with Dynacontrol

Part Number	Voltage	Watts	Description
297881	240	109	Hose, 4 ft, DYC
297882	240	167	Hose, 6 ft, DYC
297883	240	224	Hose, 8 ft, DYC
297884	240	282	Hose, 10 ft, DYC
1073291	240	456	Hose, 16 ft, DYC
1074081	240	688	Hose, 24 ft, DYC

Robatech - 5/16 in. Automatic Hose for Robatech Concept 4

Part Number	Voltage	Watts	Description
297904	240	99.75	Hose, 4 ft, RB
297905	240	152.95	Hose, 6 ft, RB
297906	240	206.15	Hose, 8 ft, RB
297907	240	259.35	Hose, 10 ft, RB
1021829	240	312.55	Hose, 12 ft, RB
1022010	240	418.95	Hose, 16 ft, RB
1087514	240	525.35	Hose, 20 ft, RB

HMT - Hand-held Applicator Hoses for HMT ProFlex

Part Number	Voltage	Watts	Description
1001369	115	300	Hose, AD-31, HMT, 12 ft
330980	115	200	Hose, AD-41, HMT, 8 ft
725816	115	300	Hose, AD-41, HMT, 12 ft
330982	115	393	Hose, AD-41, HMT, 16 ft
1013992	115	494	Hose, AD-41, HMT, 20 ft



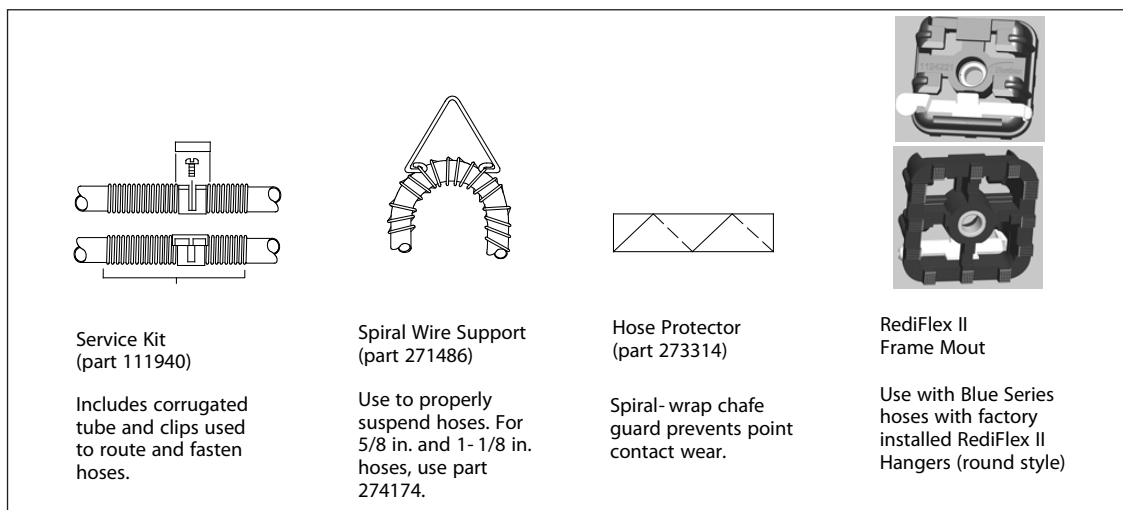
Advanced Technology Hot Melt Hoses

Accessories

Hose Mounting and Installation Accessories

The use of proper support brackets and correct installation techniques can significantly extend the life of Nordson hot melt hoses. Accessories are for 5/16 in. advanced technology hoses unless otherwise noted.

Accessories	Part Number	Description	Comments
Mounting accessories	111940	Service kit	Molded corrugated tube and clips used to route and fasten hoses.
	271486	Spiral wire support, 5/16 in. hoses	Use to properly suspend hoses.
	274174	Spiral wire support, 5/8 in. and 1 1/8 in. hoses	
	273314	Hose protector	Spiral-wrap chafe guard prevents point contact wear.
	1034380	Leaf spring support (all widths)	
	1034369	Hose hanger kit	Suitable for 5/16 in. and 5/8 in. hoses.
	1047408	Hose separator kit	Maintains distance between two hoses for maximum heat transfer efficiency.
	142512	Hose straps (hangers), 51 mm x 356 mm (2 in. x 18 in.)	
	142513	Hose straps (hangers), 51 mm x 457 mm (2 in. x 14 in.)	
	1124221	Kit, frame mount, Rediflex II System, 2 pc.	For use with Blue Series hoses with factory installed RediFlex II Hangers (round style)
1124712	Kit, frame mount, Rediflex II System, 50 pc.		
Insulating cuffs	273634	Insulated cuff, 64 mm (2.5 in.) long	Use to insulate joint connections between hose and melter.
	273635	Insulated cuff, 51 mm (2 in.) long	
	274429	Insulated cuff, 44 mm (1.75 in.) long	
	307000	Insulator fitting	Use with AD41 hand-held applicators.
	1024083	Insulated cuff, 90° fitting	Use to insulate joint connections between hose and applicator.
	1024084	Insulated cuff, 45° fitting	
Extension Cords	115576	Cord, hose, 0.6 m (2 ft), 6000, FM, 130/170	Hose extension cordsets compatible with TC200.
	115581	Cord, hose, 9.1 m (30 ft), 6000, FM, 130/170	
Other	328967	Cable assembly, Vista, shield, 7.3 m (24 ft).	Hose extension cordset compatible with 3000V melters.
	902514	Heat protective gloves	
	132998	Service kit, corrugated hose cover 5.2 m (17 ft)	



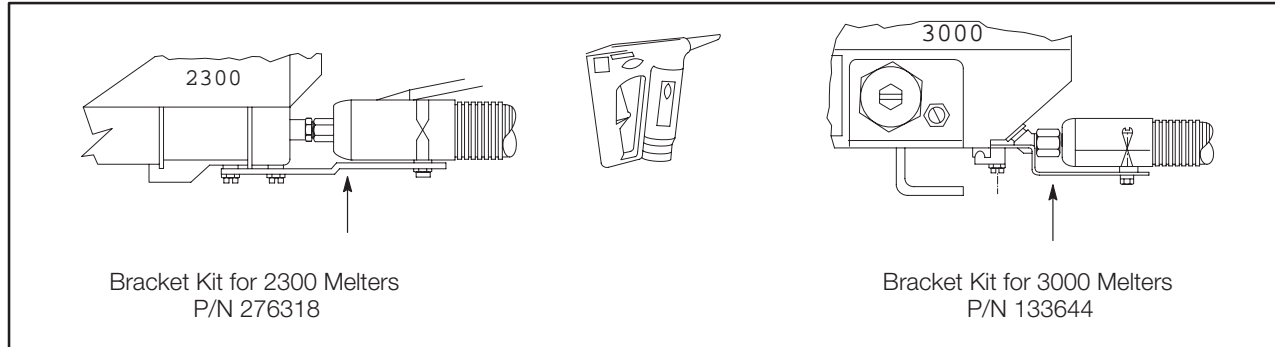
Advanced Technology Hot Melt Hoses

Hose Fittings

Part Number		Description	Comments
Pipe Thread Fitting	O-Ring Fitting		
972051	972628	Straight	Applicator to automatic hose; melter to automatic or hand applicator hose
	972657		Compact hose-to-applicator fitting to minimize cold joint at applicator
973411	973574	Pipe Plug	Extra ports on applicator or melter
972200	274180	90° Elbow	Applicator to automatic hose
	972646		Melter to automatic or hand applicator hose
972618	274179	45° Elbow	Applicator to automatic hose
	972647		Melter to automatic or hand applicator hose
—	310281	Straight	FM 150 to hose
—	719023		FM 150 to 5/8 in. hose
—	719024		Applicator to 5/8 in. hose
—	719047	45° Elbow	Applicator to 5/8 in. hose
—	816162		5/8 hose to manifold with 7/8-14 threaded port
—	945025		O-ring For 7/8-14 threaded port

Advanced Technology Hot Melt Hoses

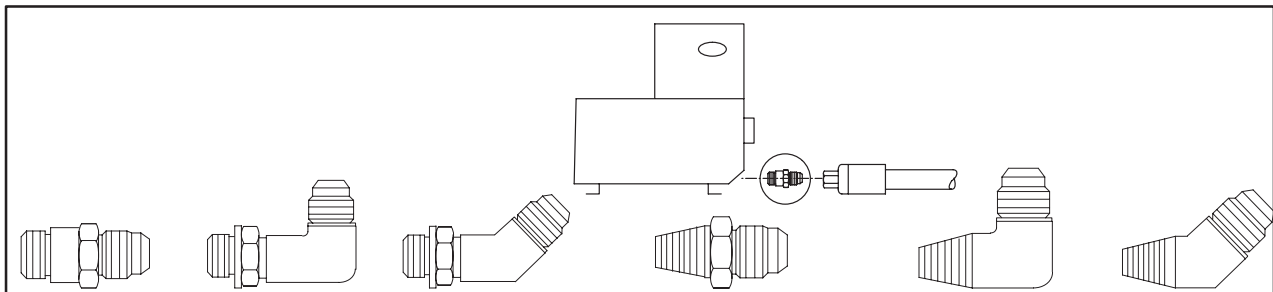
Hand-Held Applicator Bracket Kits



Part Number	Description	Comments
133644	Bracket Kit, Hand-Held Applicator	Series 3000, tank end
276318	Bracket Kit, Hand-Held Applicator	Series 2300, tank end

Melter-End Hose Fittings

For more information on fittings, see Section 13.



O-Ring Fitting			Pipe-Thread Fitting (NPT)		
Straight	90	45	Straight	90	45
972628	972646	972647	972051	972200	972618

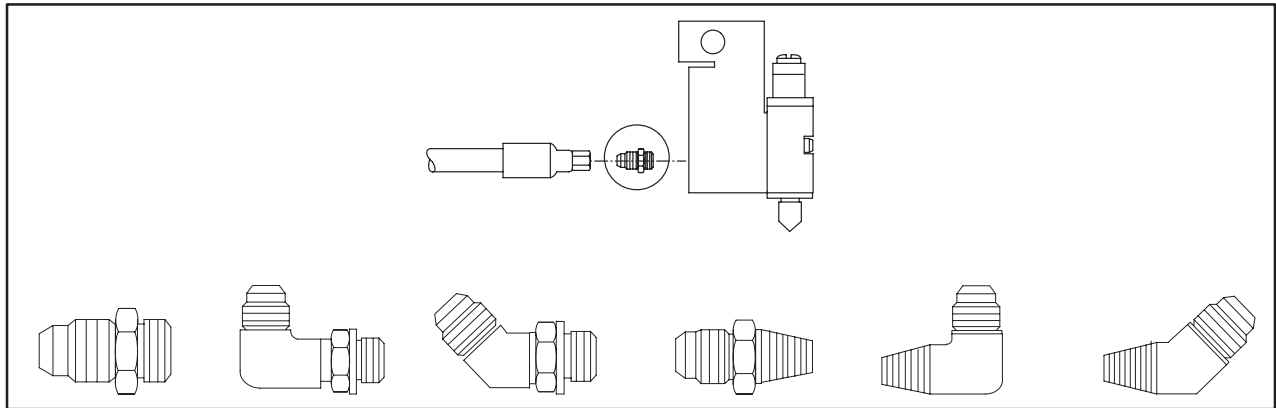
KB and LS Melter Hose Fittings

Part Number	Description
973137	LS 10/20 and KB 10/20 from Flow Control Valve to Hose, KB 30/50/100 Hose Manifold to Hose
1029243	LS 10/20 With Filter Block To Hose, KB 10/20 With Filter Block or v3 or v4 With T block
1032999	From #6 Hose to Automatic Applicator 90° Elbow
1028578	From #6 Hose to Automatic Applicator 45° Elbow

Advanced Technology Hot Melt Hoses

Applicator-End Hose Fitting

For more information on fittings, see Section 15.

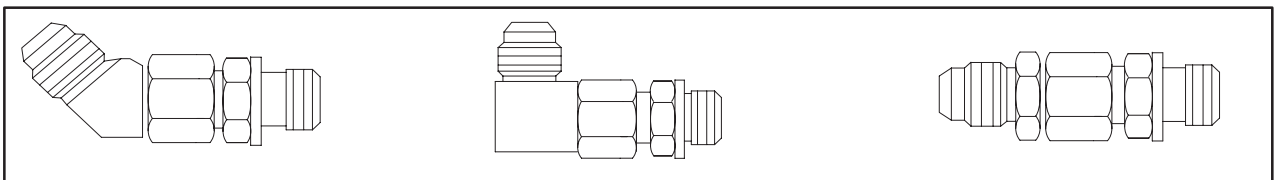


O-Ring Fitting			Pipe-Thread Fitting (NPT)		
Straight	90	45	Straight	90	45
972657	274180	274179	972051	972200	972618

NOTE: Hose applicator fittings vary in dimensions and thread specifications. Consult Nordson for compatible TC Series fittings and connectors.

Non-Heated Inline Filters

For more information on inline filters, see Section 15.



Mesh Size	Straight	90	45
50 mesh	271658	273415	804123
100 mesh	271659	273414	274988
200 mesh	271595	273413	804125

Multi-Plane Swivels

Contact PPA Application Engineering for robotic installation assistance.

Part Number	Description
139091	Swivel, Applicator, SP, SAE-6, Elbow
139093	Swivel, Hose, SP, SAE-6/JIC-6, 5/16 in., Straight
139096	Swivel, Hose, SP, SAE-6/JIC-12, 5/8 in., Straight.

Web Content



Spectra™ 30 Control System

Description

The innovative Spectra 30 control system reduces system complexity and downtime while improving production efficiency and product quality. Available as either a time- or a distance-based controller, Spectra 30 systems use Nordson's Optix graphical touchscreen interface to reduce the need for operator training.

A unique slide-on bracket with a flexible VESA standard mounting interface makes installation quick and easy, while a setup wizard guides technicians step-by-step through the setup process.

On-screen visual pattern programming allows operators to “see” the adhesive pattern prior to application, while complete system status is displayed in real-time right on the home screen. Your Spectra control system will display only the components installed on your line to minimize potential operator confusion.

Minimize product changeover by taking advantage of the 50-recipe memory storage capacity. Pattern flexibility supports a wide variety of applications, with up to four (4) trigger inputs, four (4) pattern channel outputs, twenty-four (24) beads per channel, and an array of pattern types including: dotted, EcoBead™ (stitch), random length, and mirrored.

The built-in USB port provides a convenient method of backing up system settings for safe storage. Also use a flash drive to quickly and easily upgrade the software with new features as new releases become available.



Spectra 30 Pattern Control



Watch Video

Your Spectra 30 system has the ability to expand as your needs expand. Convert a time-based system to a distance-based system when variable line speeds become a requirement. Add other features like pressure run-up and remote recipe recall whenever they are needed without any hardware changes.

Features

- Simple, visual Optix™ pattern programming interface minimizes operator training.
- Detailed diagnostics, advanced circuit protection, built-in self-test, and on-screen troubleshooting tips help keep your line up and running.
- Fast and flexible installation and an automatic setup wizard get your system up and running quickly.
- System security is provided by password protection and system backups through the front-mounted USB port.

Spectra™ 30 Control System

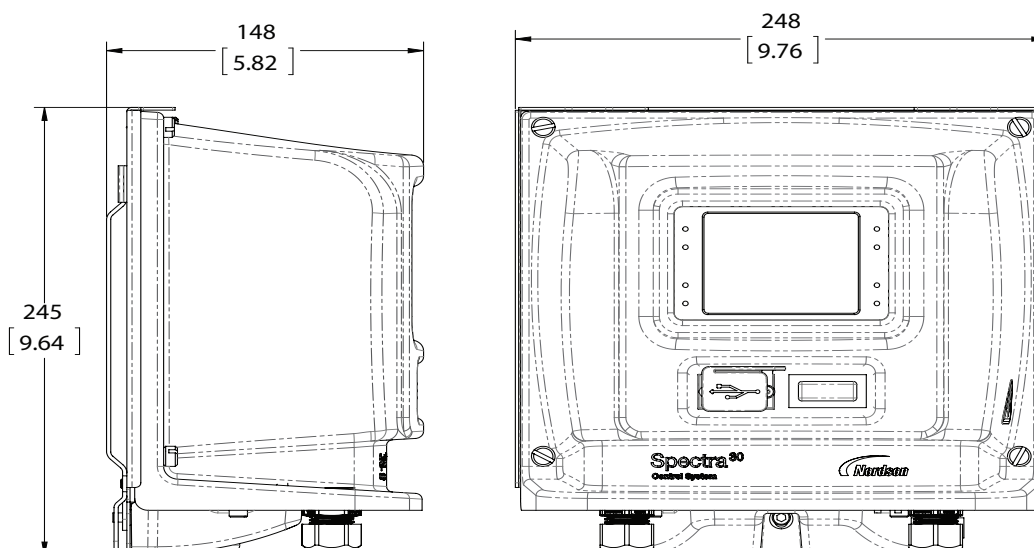
Specifications

Parameter	Specification
Standard System Configurations	Time Mode, Standard (no license required) Distance Mode (encoder license included) Distance Mode with Two Pressure Run-up Outputs & Remote Recipe Recall (Run-up & Remote Recall (license included) Remote Display with Pressure Run-up and Recipe Recall
Independent Pattern Channels	4 channels, 24 beads per channel
Independent Trigger Inputs	4 independently assignable (NPN, PNP, or line driver)
Maximum Line Speed	300 m/min (985 ft/min)
Pattern Resolution/Accuracy	1 mm (0.2 in.)
Pattern Types	Standard: Normal, dotted, EcoBead stitch, random length, mirror Optional: Continuous, random dot, auto dot
Encoders	1 (quadrature or pulse, 24 VDC, 250 mA max.)
Pressure Run-up Outputs	2 (4–20 mA and 0–10 VDC)
Digital Input/Outputs	Ready & Alert Outputs (24 VDC), Fault/Machine Stop Output (SPDT), Enable Input (24 VDC)
Recipe Memory	Up to 50 recipes
Input Voltage	100–240 VAC 1 Phase 50/60 Hz, 1.6 Amp Maximum
Ambient Temperature Range⁽¹⁾	0 to 40 °C (0 to 104 °F)
Enclosure Rating	IP44 ⁽²⁾

⁽¹⁾ 0–50 °C (0–122 °F) with optional fan kit

⁽²⁾ IP54 with optional sealing kit

Dimensions



Spectra™ 30 Control System

Parts and Accessories

Spectra Control System

Description	Details	Part Number
Spectra 30 Time Only	Spectra 30, Time-based operation only (replaces EPC-15 P/N 342315)	1123742
Spectra 30 Time Plus Remove Recipe	Spectra 30, Time-based operation plus license (replaces EPC-15 P/N 342315)	1125169
Spectra 30 Distance	Spectra 30, Distance-based operation with encoder license (replaces EPC-30 P/N 772003)	1123743
Spectra 30 Distance, I/O and 2 Run-up	Spectra 30, Distance-based operation with encoder license plus 2 pressure run-up outputs and remote recipe recall (replaces EPC-30 P/N 772004)	1124670
Spectra 30 Remote Display, Distance, I/O and 2 Run-up	Spectra 30, Remote display, with distance, run-up, and remote recipe recall (replaces EPC-30 P/Ns 772000, 772001, 772002)	1124676

Cut and Stack Cabinets

Description	Details	Part Number
Control Cabinet, 1 Spectra 30, 2 ProBlue melters	Cabinet designed for cut and stack labeling applications; door-mounted Spectra 30 remote display plus 2 run-up transducers	735705
Control Cabinet, 1 Spectra 30, 1 ProBlue melter	Cabinet designed for cut and stack labeling applications; door-mounted Spectra 30 remote display plus 1 run-up transducer	735706

Spectra™ 30 Control System

Customer Documentation Language Packs

Note: *The English language printed documentation pack and a product manual CD (with all languages) are included with each controller. Order additional language pack(s) as required.*

Description	Details	Part Number
Spectra 30 Documentation Pack, Chinese	Quick Reference Guide, Installation Guide and Safety Section	1124767
Spectra 30 Documentation Pack, Dutch	Quick Reference Guide, Installation Guide and Safety Section	1124769
Spectra 30 Documentation Pack, English	Quick Reference Guide, Installation Guide and Safety Section	1124770
Spectra 30 Documentation Pack, French	Quick Reference Guide, Installation Guide and Safety Section	1124768
Spectra 30 Documentation Pack, German	Quick Reference Guide, Installation Guide and Safety Section	1124771
Spectra 30 Documentation Pack, Italian	Quick Reference Guide, Installation Guide and Safety Section	1124772
Spectra 30 Documentation Pack, Japanese	Quick Reference Guide, Installation Guide and Safety Section	1124773
Spectra 30 Documentation Pack, Portuguese	Quick Reference Guide, Installation Guide and Safety Section	1124775
Spectra 30 Documentation Pack, Spanish	Quick Reference Guide, Installation Guide and Safety Section	1124776
Spectra 30 Documentation Pack, Polish	Quick Reference Guide, Installation Guide and Safety Section	1124774
Quick Reference Guide, English	Quick Reference Guide, English	1124633
Quick Reference Guide, Chinese	Quick Reference Guide, Chinese	1124727
Quick Reference Guide, Dutch	Quick Reference Guide, Dutch	1124728
Quick Reference Guide, French	Quick Reference Guide, French	1124729
Quick Reference Guide, German	Quick Reference Guide, German	1124730
Quick Reference Guide, Italian	Quick Reference Guide, Italian	1124731
Quick Reference Guide, Japanese	Quick Reference Guide, Japanese	1124732
Quick Reference Guide, Portuguese	Quick Reference Guide, Portuguese	1124733
Quick Reference Guide, Spanish	Quick Reference Guide, Spanish	1124734
Quick Reference Guide, Polish	Quick Reference Guide, Polish	7560257
Spectra 30 Product Manual CD	Contains all currently available language translations	1124632
Spectra 30 English Manual	Printed & Bound, Full Color, English Version	1124631
Instruction Sheet, Spectra 30, Remote Mount	Addendum to manual for remote display version	1124935

Software License Keys (Aftermarket)

Description	Details	Part Number
Encoder License Key (distance operation)	Add encoder function to a time-based system	1123914
Pressure Run-up License Key	Add pressure run-up function (requires encoder license)	1123915
Remote Recipe Recall License Key	Add remote recipe recall function to any system (for PLC recipe selection)	1123916
Extra Feature Bundle License Key	Add pattern types, other advanced features	1124590

Spectra™ 30 Control System

Encoders/Cables

Description	Details	Part Number
Encoder, metric, 500 ppr	Encoder, 500 pulses/revolution, metric flange, M3 screw holes, and 10 mm shaft	772050
Encoder, English 500 ppr	Encoder, 500 pulses/revolution, US standard flange, 0.220 in. screw taps, and 3/8 in. shaft	772051
Encoder, metric, 1000 ppr	Encoder, 1000 pulses/revolution, metric flange, 10 mm shaft	772055
Encoder, English, 1000 ppr	Encoder, 1000 pulses/revolution, US standard flange, 3/8 in. shaft	772056
Encoder, metric, 2500 ppr	Encoder, 2500 pulses/revolution, metric flange, 10 mm shaft	1022679
Encoder, English, 2500 ppr	Encoder, 2500 pulses/revolution, US standard flange, 3/8 in. shaft	1022678
Encoder Cable, standard	Encoder Cable, water tight cable assembly with MS type connector, 30 ft	772052
Encoder Cable, water-wash	Encoder Cable, water tight cable assembly with MS type connector with water-wash seals, 30 ft	772053
Encoder Wheel, 10 mm shaft x 250 mm circ	Friction Wheel, 250 mm circumference, 10 mm diameter center hole with rubber coated OD (Bracket: Use P/N 313370)	7302371
Encoder Wheel, 10 mm shaft x 500 mm circ	Friction Wheel, 500 mm circumference, 10 mm diameter center hole with rubber OD (Bracket: Use P/N 313370)	311453
Encoder Wheel, 10 mm shaft x 500 mm circ	Friction Wheel, 500 mm circumference, 10 mm diameter center hole with metal OD (Bracket: Use P/N 313370)	311454
Encoder Wheel, 3/8 in. shaft x 500 mm circ	Friction Wheel, 500 mm circumference, 3/8 in. diameter center hole	296144
Encoder Splitter Cable, 30 ft	Can be used with encoders 772050 or 772051	1032422
Encoder Bracket, Simple, Slotted	Can be used with encoders 772050 or 772051	1086111

Spectra™ 30 Control System

Trigger Sensors

Description	Details	Part Number
Diffuse reflective photosensor	Sensor for proximity detection with LED modulated beam. Needs reflective substrate for detection. Comes with mounting brace.	131476
Retro-reflective photosensor	Sensor for retro-reflective detection with LED modulated beam. Includes reflector and mounting brace.	131474
Polarized retro-reflective photosensor	Sensor for polarized retro-reflective detection where shiny surfaces must be detected. Includes reflector and mounting brace.	131475
Bifurcated fiber optic cable, 3 foot length, 1/8 inch diameter bundle, stainless steel fittings	Fiber optic conversion converts P/N 131476 to fiber optic operation. Requires P/N 145279 also.	145278
Fiber Optic Cable, single, 3 ft	3 ft Fiber Optic cable for P/N 131476 - requires 2 cables plus 145279	1020483
Fiber Optic Cable, single, 6 ft	6 ft Fiber Optic cable for P/N 131476 - requires 2 cables plus 145279	1020484
Replacement cover for Nordson sensor P/N 131 476	Required for fiber optic conversion.	145279
Lens Kit	Provides retroreflective capability for fiber optic conversion of P/N 131476	145974
Complete Fiber Optic Sensor Kit, 3 ft fiber, 6 ft cable	Kit, Photosensor, 3 ft Fiber Optic, 6 ft cable	1020500
Complete Fiber Optic Sensor Kit, 6 ft fiber, 6 ft cable	Kit, Photosensor, 6 ft Fiber Optic, 6 ft cable	1020501
Complete Fiber Optic Sensor Kit, 3 ft fiber, 15 ft cable	Kit, Photosensor, 3 ft Fiber Optic, 15 ft cable	1020502
Complete Fiber Optic Sensor Kit, 6 ft fiber, 16 ft cable	Kit, Photosensor, 6 ft Fiber Optic, 15 ft cable	1020503
Complete Fiber Optic Sensor Kit, 3 ft fiber, 20 ft cable	Kit, Photosensor, 3 ft Fiber Optic, 20 ft cable	1020504
Complete Fiber Optic Sensor Kit, 6 ft fiber, 20 ft cable	Kit, Photosensor, 6 ft Fiber Optic, 20 ft cable	1020505
Complete Fiber Optic Sensor Kit, 3 ft fiber, 25 ft cable	Kit, Photosensor, 3 ft Fiber Optic, 25 ft cable	1020506
Complete Fiber Optic Sensor Kit, 6 ft fiber, 25 ft cable	Kit, Photosensor, 6 ft Fiber Optic, 25 ft cable	1020507

Spectra™ 30 Control System

Run-Up

Description	Details	Part Number
Pressure Run-up Assembly (4–20 mA)	Pressure transducer, 4–20 mA, regulator, filter assembly, 10 m cable	1123923
Pressure Run-up Assembly (0–10V)	Pressure transducer, 0–10V, regulator, filter assembly, 10 m cable	1123960
Pressure Run-up Tubing and Fittings Kit	Contains all the fitting and tubing commonly needed for run-up installation	1124026
Replacement Filter/Regulator	Filter/Regulator, 3/8 G Port, Auto Drain (spare part)	1124258
Replacement Transducer, 4–20 mA	Regulator, Electro-pneumatic, 4–20 mA (spare Part)	1124259
Replacement Transducer, 0–10V	Regulator, Electro-pneumatic, 0–10V (spare Part)	1124260
Run-up Cable Hard-Wired, 2 m	Cable, Run-up, Hard-Wired, 2 m	377385
Run-up Cable Hard-Wired, 10 m	Cable, Run-up, EPC-30/Hard-Wired, 10 m	7300642
Run-up Extension Cable, 5 m	Cable, External, Repeat, Encoder, Straight, 5 m	377228
Run-up I/P Transducer (IP66 WW)	Water-wash I/P transducer for regulating air pressure in piston pumps, 4–20 mA. Comes with DIN rail mounting brackets, fittings, and 30 ft leads.	154890

Other System Accessories

Description	Details	Part Number
Bracket, VESA Mount, Basic Tilt	Tilt-only VESA bracket	1124687
Bracket, VESA Mount, Basic Tilt	Basic tilt/swivel VESA bracket	1124688
Bracket, VESA Mount, Extension Arm, Tilt, Swivel	VESA bracket on an extendable arm (4–16 in. or 100–400 mm extension range)	1124689
Bracket, VESA Mount, Pole Adapter, 42–50 mm	Pole-mount VESA bracket for poles ranging from 42–50 mm in diameter	1124691
Bracket, VESA Mount, Pole Stand, 750 mm	VESA bracket mounted on 750 mm long pole stand with flange mount	1124690
Stylus, Resistive Screen, Tethered, 3 pack	Tethered stylus for Spectra 30 screen (3 pack)	1124379
Kit, External Power, Enclosed, Spectra 30	IP67 power supply, 240 W, 24 VDC with 300 mm leads each end	1124320
Kit, External Power, Open, Spectra 30	Open-frame power supply, 200 W, 24 VDC	1124321
Line Simulator for Spectra 30	1 Encoder, 2 Trigger, 4 Applicators	1124020

Spectra™ 30 Control System

Service Kits

Description	Details	Part Number
Fan Kit	Kit to increase operating temperature range to 50 °C	1123815
IP54 Sealing Kit	Kit to increase dust protection from IP44 to IP54	1124814
Power Supply Service Kit	Replacement 24 VDC power supply	1123816
Touchscreen Service Kit	Replacement touchscreen with software loaded	1123817
Touchscreen for Remote Touchscreen	Replacement touchscreen with software loaded but without LED overlay	1124679
Controller Board Service Kit	Comes with all license keys enabled	1124812

Web Content



Concert™ Series Controllers

Description

The Concert Series flow and temperature controllers were developed to provide economical, updated controllers to meet the needs of diverse markets.

Concert series controllers feature expanded functionality and capabilities. This includes an advanced, yet intuitive, color touch screen LCD control, the Nordson Optix™ user interface, which enables features such as graphing, data logging, and local language support.

Both Concert flow and temperature controllers offer vast improvements in ease-of-use and performance. These controllers can be part of an initial adhesive system investment or added as a retrofit solution for customers looking to expand or improve process capabilities.

The Concert flow controller enables flow monitoring and closed-loop functionality when used with the new TruFlow™ meter. It can also be used with other members of the TruFlow portfolio: TruFlow dividers and applicators. The Concert temperature controller expands the number of heating zones for a single melter, increasing the equipment utilization of existing melters.

Concert Series controllers offer a basic temperature controller with six-temperature-zone capability and a basic flow controller with two-flow monitoring/control-circuit capability. Each is available with a nickel RTD or platinum RTD sensor, standard for compatibility with the vast majority of current and legacy equipment.



Flow Control

Temperature Control



Watch Video

Features

- Intuitive, color touch screen controls (Optix user interface)
- Availability of temperature control channels in the flow controller to support heating of TruFlow devices and additional hoses
- On-screen graphing and data logging
- User settable limits (upper and lower) for warnings and faults (pressure, temperature and flow)
- Local language support

Benefits

- Installs quickly with simple, no-hassle set-up.
- Displays system status at-a-glance with graphical control panel that simplifies set-up and operation.

Concert™ Series Controllers

Specifications – Basic Flow Controller

Parameter	Specification
Number of flow channels	Supports up to 2
Control modes	Manual, Pressure, Gear to Line, Flow w/Pressure Build
Pressure transducer inputs	Supports up to 2
Pressure transducer options	0-10 VDC, 4-20 mA
Line speed reference inputs	1
Line speed reference outputs	0-10 VDC, 4-20 mA
Operating temperature range	40 to 204 °C (100 to 400 °F)
Ambiet temperature range	0 to 50 °C (32 to 122 °F)
Temperature control stability	±1 °C (2 °F)
Temperature control sensor options	Nickel 120 Ohm RTD, Platinum 100 Ohm RTD
Maximum heating capacity Channel 1,2 (each) Channel 3	1,200 watts per channel/1,000 watts per zone 2,800 watts per channel/1,800 or 1,000 watts per zone
Electrical requirements	200/240 VAC 50/60 Hz, single-phase 240 VAC 50/60 Hz, 3-phase
Input/Output capability	4 inputs/3 outputs
Weight (approx.)	30 lb
Ingress protection	IP33

Specifications – Basic Temperature Controller

Parameter	Specification
Number of channels	3
Operating temperature range	40 to 204 °C (100 to 400 °F)
Ambiet temperature range	0 to 50 °C (32 to 122 °F)
Temperature control stability	±1 °C (2 °F)
Temperature control sensor options	Nickel 120 Ohm RTD, Platinum 100 Ohm RTD
Maximum heating capacity Channel 1,2 (each) Channel 3	1,200 watts per channel/1,000 watts per zone 2,800 watts per channel/1,800 or 1,000 watts per zone
Electrical requirements	200/240 VAC 50/60 Hz, single-phase 240 VAC 50/60 Hz, 3-phase
Input/Output	4 inputs/3 outputs
Weight (approx.)	30 lb
Ingress protection	IP33

Parts and Accessories

Controllers

Part Number	Description
1121832	Concert Temp/Flow Ctrl, Pt100 Basic
1121833	Concert Temp Ctrl, Pt100 Basic
1121834	Concert Temp/Flow Ctrl, N120 Basic
1121835	Concert Temp Ctrl, N120 Basic

Optional Boards

Part Number	Description
1053300	Kit, Circuit Board, PROFIBUS Card
1053288	Kit, Circuit Board, DeviceNet Card
1053289	Kit, Circuit Board, Ethernet Card

DeviceNet is a registered trademark of ODVA, Inc.

PROFIBUS is a registered trademark of PROFIBUS & PROFINET International.

Service Kits

Part Number	Description
1121882	Service Kit, Board, Main W/Ht Sink Assy, Concert
1121883	Service Kit, PCA, Expansion, Concert
1121884	Service kit, lcd w/frame, assembly, Concert
1121885	Service Kit, Motor Control, Concert
1121886	Service Kit, PCA, Press/Flow Cntrl, Concert
1121887	Service Kit, PCA Power Supply, 24VDC
1121888	Service Kit, PCA Board, 10V, Motor Supply

Sales Collateral

Part Number	Description
NWL-13-5817	Concert Series Flow Controller Data Sheet
NWL-13-5816	Concert Series Temperature Controller Data Sheet
1121717	Concert Series Flow Controller Technical Manual
1121734	Concert Series Temperature Controller Technical Manual

Concert™ Series Controllers

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Web Content



LogiComm® Control System

Description

Nordson's integrated LogiComm control system offers a comprehensive, easily-installed adhesive pattern control and verification system. Multiple, remote touch-screens can be positioned virtually anywhere on the parent machine for easy operation. This modular system offers a building block approach, allowing installation of either pattern control or verification initially, with the capability to easily integrate the other function as needed.

The programmable pattern control provides quick pattern development and changeovers to accommodate even short runs on complex applications. Pattern control features include:

- Multiple applicator control and trigger inputs
- Selection of bead choices
- Pressure control across full machine speed range
- Multiple program memory
- Integral applicator drivers



LogiComm Screen and Module

Verification capabilities enhance on-line quality assurance by monitoring adhesive pattern and placement accuracy without the need for adhesive additives. Additionally, the LogiComm system inspects product features for presence and integrity. The easy-to-program system can simultaneously detect and verify numerous parameters, including:

- Accuracy of hot melt and liquid adhesive deposition
- Overlapped and skewed substrates
- Bar codes, recognized in diverse formats and codes
- Security tags
- Faulty folds, flaps and inserts
- Cellophane windows
- Liquid adhesive volume sensing on side seam applications
- Tracking and ejection of defects

LogiComm® Control System

Specifications

Parameter	Specification
Maximum line speed m/min (ft/min)	1200 (3937)
Pattern accuracy mm (in.)	± 0.25 (0.01)
Display type	15 in. XGA touch-screen
Encoder resolution	up to 30 pulses/min
Encoder frequency	100 KHz maximum
Electrical service	Universal 80-256 VAC, 1Ø
Program memories	Virtually unlimited (via Flash Memory Card)
Encoders	1 or 2 per system
Pattern channels	4 or 8 per control module (up to 32/standard system)
Applicator outputs	4 or 8 per connectors per module (one applicator connector per pattern channel)
Applicator drivers	
Universal applicator driver low voltage Driver	80 W maximum per applicator driver (4 applicators) (160 W per module) 80 W per module
Verification channels	6 or 12 per control module (up to 48 sensors per standard system)
Pressure outputs	2 or 4 per control module (up to 16 run-up channels)
Independent triggers	4 or 8 per control module (up to 32 per standard system) Adaptable to PNP or NPN type
Parent machine I/O	4 in, 4 out programmable
Machine control outputs	Ejector Batch kicker Delivery table

Parts and Accessories

A minimal LogiComm system includes one master and one XGA touch screen. Maximum system capacity includes one master control module, three expansion modules, three XGA touch screens and one ethernet hub.

LogiComm® Control System

Master Modules

Part Number	Description
1053710	4 Channel Pattern Master, UGD
1067345	4 Channel Pattern Master, LVD
1053711	8 Channel Pattern Master, UGD / UGD
1067346	8 Channel Pattern Master, UGD / LVD
1067347	8 Channel Pattern Master, LVD / LVD
1053712	6 Channel Verification Master
1067361	6 Channel Verification Logic Master
1053713	12 Channel Verification Master
1067362	12 Channel Verification Logic Master
1053715	4 Channel Pattern and 6 Ch Verification Combination Master, UGD
1067360	4 Channel Pattern and 6 Ch Verification Combination Logic Master, UGD
1067348	4 Channel Pattern and 6 Ch Verification Combination Logic Master, LVD
1067349	4 Channel Pattern and 6 Ch Verification Combination Master, LVD

Expansion Modules

Part Number	Description
1053716	4 Channel Pattern Expansion, UGD
1067363	4 Channel Pattern Expansion, LVD
1053718	8 Channel Pattern Expansion, UGD
1067364	8 Channel Pattern Expansion, UGD / LVD
1067365	8 Channel Pattern Expansion, LVD / LVD
1053719	6 Channel Verification Expansion
1053720	12 Channel Verification Expansion
1053721	4 Channel Pattern and 6 Channel Verification Combination Expansion, UGD
1067366	4 Channel Pattern and 6 Channel Verification Combination Expansion, LVD

Data Communication Cables and Accessories

Part Number	Description
1066052	Cable, Ethernet, 2m
1056039	Cable, Ethernet, 5m
1056040	Cable, Ethernet, 10m
1078616	Cable, Ethernet, 15m
1120058	Cable, Ethernet, 20m
1091421	Control Module System Link Connection or Ext, 1.5 m, Multi-module Systems Only
1034149	Control Module System Link Connection or Ext, 4.4 m, Multi-module Systems Only
1078614	Control Module System Link Connection or Ext, 15 m, Multi-module Systems Only
1078615	Control Module System Link Connection or ext, 50 ft, Multi-module Systems Only

LogiComm[®] Control System

Touch Screen Display

Part Number	Description
1082706	XGA Touch-Screen Module W/ 5 m Power Cable
1060755	Cable, 24V ext., 5 m (16.4 ft), for Touch Screen
1057332	Kit, Panel Pivot Wall Mount
7302679	Holder for Touch Screen, VESA Mount

Accessories

Part Number	Description
1068176	Connector Kit
1059609	Remote Purge Box (2 pattern banks) 8 Channel
1098889	Wireless Remote Purge Kit, 8 Channel
1061035	Cable, Remote Purge, 5 m Extension
1092078	Cable, Remote Purge, 1.5 m Extension
1060380	Light Tower W/Siren and 5 ft. Cable
1059621	Light Tower Extension Cable, 5 m
1062957	Siren With 25 ft. Cable (1063802 Required)
1063802	Siren Box Splitter Cable
1059607	Cable, Remote I/O, Pigtails, 5 m
1034147	Cable, Remote I/O, 4.4 m Extension
1063801	Machine Stop Relay Adapter With 4.4 m Cable
377227	Encoder Repeater Splitter Cable (4 pin to 2 x 12 pin)
377228	Encoder Repeater Extension
1067730	External Panel Power Supply, 24V

LogiComm® Control System

Applicator Cables - Electric Applicators

Part Number	Description
7302530	Cable, LA825/LA820, 2.5 m (new conn on 820)
7302531	Cable, LA825/LA820, 5 m (new conn on 820)
7302330	Cable, LA825/LA820, 7.5 m (new conn on 820)
7302532	Cable, LA825/LA820, 10 m (new conn on 820)
7302533	Cable, WM801, 2.5 m
7302534	Cable, WM801, 5 m
7302535	Cable, WM801, 10 m
1060587	Cable, LA822, 2.5 m
1059608	Cable, LA822, 5 m
1060588	Cable, LA822, 10 m
1063858	Cable, E400, 5 m
1100667	Cable, E400, 12 m
1041835	Cable, e.dot (LogiComm to e.dot hose), 10 m
1074921	Cable, EM 100/900, 240V, 5 m
1076423	Cable, EM 100/900, 120V, 5 m
1074922	Cable, E701, 5 m
1074923	Cable, M70x/E35x-1 coil/Sure Seal, 5 m
1075924	Splitter Cable, M70x/E35x-1 Coil/Sure Seal

Applicator Cables - Pneumatic Applicators*

Part Number	Description
7302536	ClassicBlue/SolidBlue/SureBead, 2.5 m
7302537	ClassicBlue/SolidBlue/SureBead, 5 m
7302538	ClassicBlue/SolidBlue/SureBead, 10 m
1055875	MiniBlue I and II, Standard With SD or SP Solenoid (LogiCom applicator connector only,cable included with applicator)
7133035	MiniBlue With SG Solenoid, 2 m
7165491	MiniBlue With SD or SP Solenoid, 2 m
7133036	MiniBlue With SG Solenoid, 5 m
7165492	MiniBlue With SD or SP Solenoid, 5 m
7133037	MiniBlue With SG Solenoid, 10 m
7165493	MiniBlue With SD or SP Solenoid, 10 m
7302536	Other Pneumatic 20 x 27 mm Housing Solenoid, 2.5 m
7302537	Other Pneumatic 20 x 27 mm Housing Solenoid, 5 m
7302538	Other Pneumatic 20 x 27 mm Housing Solenoid, 10 m
7302539	Other Pneumatic 16 x 16 mm Housing Solenoid, 2.5 m
7302540	Other Pneumatic 16 x 16 mm Housing Solenoid, 5 m
7302541	Other Pneumatic 16 x 16 mm Housing Solenoid, 10 m

*Solenoids with built in Boost must use the Low Voltage DC Driver

*Solenoids with MOV caps should be replaced by: 20 x 27 mm Solenoid Cap with LED, Part 1058523

16 x 16 mm Solenoid Cap with LED, Part 7131860

LogiComm® Control System

Applicator Cables - Miscellaneous

Part Number	Description
7302542	Discrete Wire, Any Applicator, 10 m
1059606	Cable, Applicator, Ext, 5 m
375353	Applicator Connector, Male, 3-Pole+PE Screw
7301617	Adapter, 2 Applicator Splitter, Series, 0.2 m
7320545	Adapter, 2 Applicator LVD, Parallel, 0.1 m
377239	LA825 to LA 404, LVD, 0.15 m

Encoders

Part Number	Description
7302430	Quadrature Pkg w/ 10 m Cable, Bracket and Small Wheel (2 ppmm), Metric Shaft Encoder
1064710	Quadrature Pkg w/ 10 m cable, Bracket and Wheel (1.5 ppm), English Shaft Encoder
7302447	Hi Res Quadrature Pkg w/ 5 m cable, Bracket and Wheel (10 ppmm)
1085052	Quadrature Encoder, 5 m Cable, Wheel and Small Body (1 ppmm)
727240	Mounting Arm For Small Body Encoder
372759	Cable, Ext, Encoder, 5 m
772050	Quadrature Encoder, 10 mm Shaft, 500 Pulse (EPC 30-metric)
7302121	Quadrature Encoder, Hi Res, 10 mm
7302113	Cable, Quadrature Encoder, 5 m
7301432	Cable, Quadrature Encoder, 10 m
7161820	Cable, Quadrature Encoder, 20 m
7302371	Friction Wheel, 10mm Diameter x 250 mm Circumference, Rubber OD
311453	Friction Wheel, 10 mm Diameter x 500 mm Circumference, Rubber OD
311454	Friction wheel, 10 mm Diameter x 500 mm Circumference, Metal
7301037	Quadrature Encoder, 2000 Pulse
7301038	Cable, Quadrature Encoder, 20 m
7301985	Cable, Quadrature Encoder, 40 m
772051	Quadrature Encoder, 3/8 inch, 500 Pulse (EPC 30-English)
296144	Friction Wheel, 3/8 inch Diameter x 500 mm Circumference, Rubber OD
1064634	Encoder Wheel, 3/8 inch Shaft (requires 727879)
727876	Rubber O-Ring for 1064634 (1.5 ppmm)
727133	Single Phase Encoder With Bracket, 1 ppmm
377222	Cable, Single Phase Encoder, 5 m
727940	Cable, Single Phase Encoder, 20 feet
727941	Cable, Single Phase Encoder, 30 feet
377228	Cable, Encoder Repeater, 5 m Extension
277227	Cable, Splitter, Encoder, Repeat, Str, (4 pin to 2 x 12 pin), 5 m
377221	Cable, Quadrature Encoder, 5 m

LogiComm® Control System

Photocell

Part Number	Description
7302981	La650 Photocell, Laser
7303071	Bracket, LA650, Vertical Drop Bar
7303072	Bracket, LA650, Horizontal Drop Bar
7301645	Basic Drop Bar With Photo Eye Bracket
738443	Photocell, PZ With 0.3 m Pigtail
377269	Photocell kit, fiber optic, 2 m cable
313376	Bracket, Fiber Optic Photocell
738463	Cabel, Ext, Photocell, 3 m
377219	Cable, Ext, Photocell, 5 m
7301988	Cable, Ext, Photocell, 7 m
7303052	Cable, Ext, Photocell, 10 m
7302802	Cable, Ext, Photocell, 15 m
738464	Cable, Ext, Photocell, 20 m
738465	Cable, Ext, Photocell, 30 m
738351	Trigger Combination Box (2 in 1 out)
1502499	Ace-cable, Splitter, Sensor, Trigger, LogiComm
7301974	Cable, Adapter, Photocell to HHS Timer
7302375	Adapter, Photocell to Sensor Input

I/P Transducer

Part Number	Description
377188	1 in 1 out (with 2 m cable), Transducer Assembly
7303400	1 in 1 out to flow (with 3 m cable), Transducer Assembly
377189	1 in 2 out (W/ 2 m cable), Transducer Assembly
377641	Cable, Run-up Output, 5 m
377642	Cable, Run-up Output, 10 m
377228	Cable, Extension, 5m
377733	Kit, Installation, Run-up, 1 in 1 out
377734	Kit, Installation, Run-up, 1 in 20 out
772033	Transducer, Run-up, Piston Pump, DIN Mount, with 30 ft. cable
154890	Transducer, Run-up, Piston Pump, DIN Mount, IP66
1025168	LogiComm Run-up Connector, Solder Type
7170916	Cable, Key-to-Line, LogiComm, VersaBlue, 2 m
7170917	Cable, Key-to-Line, LogiComm, VersaBlue, 5 m
7170918	Cable, Key-to-Line, LogiComm, VersaBlue, 10 m
7173642	Cable, Key-to-Line, LogiComm, PURBlue 4, 2 m
7173643	Cable, Key-to-Line, LogiComm, PURBlue 4, 5 m
7173644	Cable, Key-to-Line, LogiComm, PURBlue 4, 10 m

LogiComm[®] Control System

GD200 Verification Sensor for Liquid Adhesive

Part Number	Description
1094546	GD200-S LA Sensor, Integrated
1097296	Cable, GD200-S, 2.5 m
1094547	Cable, GD200-S, 5.0 m
1097297	Cable, GD200-S, 7.5 m
1094548	Cable, GD200-S, 10 m
7303071	Bracket Assembly for LA 650, Vertical Drop Bar
7303072	Bracket for LA650, Plus Horiz. Bar
7302890	Drop Bar Adapter for GD200S
1084633	GD200-F18 LA Sensor, Fiber 18"
1084634	GD200-F32 LA Sensor, Fiber 32"
1106454	GD200-F32 LA Sensor, Fiber 32", 3.6 mm Spot
727142	Cable, GD200-F, 3.0 m
1067046	Cable, GD200-F, 7.6 m
7301636	Drop Bar Adapter for GD200F/GD100
1084029	GD200F-18 Sensor Only (spare part)
1084090	GD200F-32 Sensor Only (spare part)
1106607	GD200F-32 3.6 mm Spot Sensor Only (spare part)
1094867	Adaptor GD200S DIN to GD200F/GD100 9 Pin

HD-100 Hot Melt Verification Sensor (High Speed)

Part Number	Description
1067705	HD-100 Package (Universal Bracket, cable and sensor)
377499	Sensor, HD-100, Hot Melt
377498	Sensor, HD-100 and 10 m Cable
377500	Cable, HD-100, 10 m
7303737	Cable, HD-100, 30 m
1074713	Waveguide, HD100
7303071	Bracket Assembly for LA 650, Vertical Drop Bar
7303072	Bracket for LA650, Plus Horiz. Bar
7302000	Drop Bar Adapter for HD100

LogiComm® Control System

HD-80 Hot Melt Verification Sensor (Low Speed)

Part Number	Description
1120178	HD-80 Ext. Reach HM and Drop Bar Assembly
727142	Cable, for HD-80, 3.0 m
1067046	Cable for HD-80, 7.6 m
1101509	Amplifier with Connector, 2 m
1120177	Sensor Head, HD-80

HD-70 Hot Melt Verification Sensor (Medium Speed)

Part Number	Description
1091351	HD-70 Sensor Package (includes sensor, bracket, 10 m cable)
1090391	HD-70 Sensor
1078804	Cable for HD-70, 5 m
1078807	Cable for HD-70, 10 m
1087199	Cable for HD-70, 10 m Right Angle
1095399	Parabolic Mirror

UV Sensors

Part Number	Description
1054179	GD 400, UV Luminance Sensor Package (includes cable and drop bar assembly)
1103846	GD 400, UV Luminance Sensor Only
1069171	Cable for GD 400, 5 m

Barcode Sensors

Part Number	Description
1073415	BC5100 Smart Sensor Barcode Scanner
1091891	BC5100 Smart Sensor Barcode Scanner, Raster
1059564	Cable for BC5100 Barcode Scanner, 15 ft
1072674	Cable for BC5100 Barcode Scanner, 25 ft
727267	Basic Drop Bar Mounting Assembly
727268	Top Mount Bracket Assembly
7303367	CBC5100 Color Barcode System (includes sensor, controller, encoder pkg and cables)

LogiComm[®] Control System

GD500 Sensors

Part Number	Description
7303180	GD500 Smart Sensor
7302954	Cable for GD500, 7 m
7303034	Bracket For Wheels, Straight, GD500
7303036	Rectangular Bracket
7303223	Straight-line Bracket Assembly
-	*GD500 Corrugated System with Control Box (includes sensor, controller, and cables)
7303714	Cable, for GD500 Corrugated System, 10 m

**This product is configurable. Please contact your Nordson representative for the correct part number.*

Other Sensors

Part Number	Description
1067729	Cello Position Sensor, 18 in DB Package (includes 2 m cable and drop bar assembly)
1025941	Cello position Sensor Without Drop Bar
1067931	Cello Position Sensor, 23 in DB Package (includes 2 m cable and drop bar assembly)
738253	Cello Position Sensor Head (spare Part)
1067709	Cello Presence Sensor, 18 in DB Package (includes 2 m cable and drop bar assembly)
1067708	Cello Presence Sensor, 23 in DB Package (includes 2 m cable and drop bar assembly)
727120	Cello Presence Sensor Only (without Drop Bar)
1055183	RGB Fiber Optic Sensor, 18 in. Drop Bar Package (includes 2 m cable and drop bar assembly)
1057311	RGB Trigger Amplifier with Sensor Connector
727949	RGB Sensor, Fiber Optic (spare part)
1096080	Insert Edge Detection Sensor, Optical
1067704	Security Tag Sensor, 18 in DB Package (includes 2 m cable and drop bar assembly)
738605	Security Tag Sensor Only
1067707	Security Tag Sensor, 24 in DB Package (includes 2 m cable and drop bar assembly)
1103811	Double Sheet Detector With Mounting Bracket
1104335	Double Sheet Detector Without Mounting Bracket
1104336	Bracket for Double Sheet Detector
727142	Cable, Sensor, Extension, 10 ft.
1067046	Cable, Sensor, Extension, 25 ft.

LogiComm® Control System

Reject, Marking, and Batch Control Equipment

Part Number	Description
377491	Ejector, Rotary, 230VAC, CE
377490	Ejector, Rotary, 400-460VAC, CE
738562	Ejector, Rotary, 115VAC, CW ROT, W/MC Control
727664	System, Ink Marking, ENVL, W/20 ft Cable (US)
727119	Pusher, Pneumatic (w/regulator and hose)
7302542	Cable, Solenoid, 10 m
727183	Ejection, Mounting Bracket, Bobst
727185	Ejection, Mounting Bracket, Jagenbert F.G.
7302114	Cable, Cube Interface, 10 m
7302372	Cable, Cube Panel to Encoder Input, 1 m
727188	Batch Control, Mounting Bracket, Bobst-Media D&A

LogiComm[®] Control System

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Web Content



LA 404-2 Pattern Control System

Description

The distance-based LA 404-2 pattern control offers application flexibility and easy operation. With up to four channel capability and a choice of several different bead types, the control fits a broad range of high-end packaging or folding carton, envelope, and bag and sack manufacturing requirements.

In addition to quick connection cabling, the integrated applicator driver board and tip sealing activators simplify installation. The multi-language, menu-driven operator interface with scrollable LCD display simplifies programming. A 100-program memory delivers quick, easy changeovers.

Four independent triggers allow broad pattern flexibility. An integrated driver controls up to eight liquid adhesive electric applicators (two per channel via splitter cable) or up to 24 pneumatic applicators (six 5.8-watt solenoids per channel via splitter cable).

The LA 404-2 control provides a number of bead choices including dot, autospot, or continuous patterns. With four bead events per channel, the system delivers the flexibility to achieve a wide variety of gluing patterns.



LA 404-2 Pattern Controller

Features

- Highly accurate applicator control on four independent channels.
- Selection of bead choices meets a broad range of application requirements. Choices include: normal, continuous, random length, random dot, dot, and autospot.
- Quick-connect cables deliver rapid, easy installation.
- One hundred-program memory allows rapid pattern changeover.
- Four trigger inputs provide application flexibility.
- Programmable applicator driver board settings accommodate a wide range of compatible applicators.
- Run-up control minimizes adhesive waste during start-up or shutdown.
- Integrated tip seal system helps prevent nozzle from drying out.

LA 404-2 Pattern Control System

Specifications

Parameter	Specification
Maximum line speed m/min (ft/min)	600 (1969)
Pattern accuracy (@ max. line speed) mm (in.)	±1 (0.04) ⁽¹⁾
Program memory	Up to 100
Independent channels	4
Applicator load Liquid adhesive electric Pneumatic ⁽²⁾	8 (2 per channel via splitter cable) 24 (6 per channel via splitter cable)
Independent trigger inputs	4
Input voltage requirement	85-265 VAC; 47-63 Hz
Encoders	1
Encoder resolution	0.1-20 pulses/mm ⁽³⁾
Pressure curves	2 (2 point linear)
Maximum beads per channel	4

⁽¹⁾ 1 pulse/mm quadrature encoder, < ±2 m/sec² acceleration; 2 ms applicators.

⁽²⁾ 24V, 5.8 watt solenoid

⁽³⁾ 1-10 pulses/mm recommended for most applications.

Dimensions

Dimension	mm (in.)
Height	205 (8.07) including feet
Width	310 (12.20)
Depth	270 (10.63)

LA 404-2 Pattern Control System

Parts and Accessories

Controller

Part Number	Description
7301861	LA 404-2

Photocell

Part Number	Description
7301990	LA650 Photocell, NPN/PNP
7301645	Bracket, LA650
377219	Cable, Ext, Photocell, LCOMM/LA404-2, 5m
7301988	Cable, Ext, Photocell, LCOMM/LA404-2, 7m

Encoder

Part Number	Description
7302112	Kit, Quadrature Encoder W/ 5m Cable, Bracket & Wheel (metric)
772050	Encoder, Quadrature (EPC 30-metric)
772051	Encoder, Quadrature (EPC 30-english)
377221	Cable, Quadrature Encoder, 5 m
372759	Cable, Ext, Encoder, 5 m
311454	Wheel, Friction, Encoder, 10 mm Diameter
296144	Wheel, Friction, Encoder, 3/8 in Diameter
313370	Bracket, Quadrature Encoder (metric)

I/P Transducer

Part Number	Description
377188	Transducer, I/P, 1 in 1 out (w/ 2 m cable)
377189	Transducer, I/P, 1 in 2 out (w/ 2 m cable)
377641	Cable, Runup Output, 5 m
377642	Cable, Runup Output, 10 m
377228	Cable, Ext, Runup, 5 m
377733	Kit, Installation, Runup, 1 in 1 out
377734	Kit, Installation, Runup, 1 in 2 out

LA 404-2 Pattern Control System

Applicator Cables - Electric Applicators

Part Number	Description
1059608	Cable, LA822, 5 m
1060587	Cable, LA822, 2.5 m
1060588	Cable, LA822, 10 m
377377	Cable, LA820 to LA404-2/WM408, 5 m
377380	Cable, LA820 to LA404-2/WM408, 10 m

Applicator Cables - Pneumatic Applicators

Part Number	Description
7302542	Cable, Applicator, Discrete Wire Termination, 10 m

Applicator Cables - Miscellaneous

Part Number	Description
7302543	Cable, Adapter, Applicator, LA 404-2 to LA 404
7302544	Cable, Splitter, Applicator, LA 404-2 to LA 404
7302545	Cable, Splitter, Applicator, LA 404-2 to LA 404-2, 4-pin parallel
1059606	Cable, Applicator, Ext, 5 m
375353	Connector, Applicator

Accessories

Part Number	Description
1059609	Assy, Box, Remote Purge, LCOMM/LA404-2
377230	Cable, Remote Outputs, 10 m
1042100	Cable, Remote Inputs, 10 m
738011	Kit, Solenoid, Tip Seal
738208	Cable, Tip Seal Output, 6m (20 ft)
738334	Cable, Extension, Tip Seal Output, 2 m (7 ft)
738335	Cable, Extension, Tip Seal Output, 7 m (24 ft)
375256	Cable, Tip Seal Output, Pigtail, 20 m
1023676	Cable, Power, IEC, 120V US, 9.8 ft
371943	Cable, Power, IEC, 240V EU, 3 m
727142	Cable, Ext, 9 pin D-Sub, 3 m (10 ft)
1034146	Cable, Ext, 9 pin D-Sub, 4.5 m (15 ft)
1067046	Cable, Ext, 9 pin D-Sub, 7.6 m (25 ft)
377225	Cable, Adapter, Encoder, LA404 to WM408
374871	Cable, Adapter, Photocell, LA404 to WM408

Web Content



Seal Sentry® Series 10 Bead Detection System

Description

The new Seal Sentry Series 10 bead detection system delivers basic hot melt adhesive bead detection for packaging, converting and product assembly applications. This innovative system confirms the presence of hot melt adhesive beads prior to compression on constant speed and limited speed change packaging machines. Adhesive bead verification improves productivity and quality by detecting substandard product immediately.

The Seal Sentry Series 10 system utilizes quick disconnect cables and an internal power supply to simplify installation. The infrared hot melt bead sensors feature a sealed housing with a fixed field of view. The sensors' attached mounting hardware eliminates the need for separate brackets. The Seal Sentry Series 10 system does not use encoders or resolvers so installation is fast and easy.

The Seal Sentry Series 10 system can be programmed quickly and easily. The bead detection system uses only two buttons for set-up and programming. LED indicators clearly indicate the setting for each bead sensor and the desired sensitivity level.

- Dynamic calibration automatically establishes hot melt adhesive bead reference levels.
- Two-button operator interface simplifies set-up and operation.
- Infrared bead sensors simplify installation with integral mounting and fixed field of view.
- Dual photo-trigger inputs provide two-station bead monitoring.
- Stand-alone, fully integrated system has an internal power supply and is compatible with most packaging machines.
- Fault output is configurable for normally open or normally closed operation.
- Infrared sensors eliminate the need for adhesive additives or UV light.



Seal Sentry 10

Specifications

Parameter	Specification
Input	85-260 VAC
Maximum output	4 A, 230 VAC
Minimum bead size*	1.5 mm @ 20 m/min
Maximum line speed*	300 m/min with a 60 mm bead
Bead sensors	Infrared with 12-18 mm field of view
Fault output	Single NPN or PNP

*Based on bead size of 3 mm @ 175 °C application temperature (0.125 in. @ 350 °F)

Seal Sentry® Series 10 Bead Detection System

Parts and Accessories

Console

Part Number	Description
377051	SS10 Controller

Photocell

Part Number	Description
7301990	LA650 Photocell, Laser
377219	Cable, Ext, Photocell, 5 m
7302023	Cable, Adapter, LA650, 0.1 m

Photocell Bracket

Part Number	Description
7301645	Bracket, LA650

Verification Sensor

Part Number	Description
377052	Sensor, Bead Detect
377067	Cable, Bead Sensor 1.5 m, Straight
377068	Cable, Bead Sensor, 3 m, Straight
313783	Cable, Ext, Bead Sensor, 5 m, Straight

Web Content



Accubar™ Barcode Verifier

Description

Nordson's Accubar barcode verifier monitors and validates symbol accuracy in high-speed packaging and converting operations. Unacceptable codes can trigger an alarm, machine stop, ejector or marker. Product quality is protected against faulty codes and mixed lots that can increase operating costs.

The microprocessor-based control provides efficient scanning using advanced laser technology. Capable of operating at line speeds over 400 meters per minute (1400 ft/min), the Accubar verifier accommodates high-output production of folding carton manufacturing, case sealing, and container filling.

Further efficiency is provided with pre-programmed barcode formats, adding product changeover flexibility without complicated format programming. The control's comprehensive decoding feature recognizes diverse formats. These include black, colored and fine code lines; truncated codes; and ladder or picket-fence scanning.

- Programming a specific code to memory is easy. Operators simply align the bar-coded product to the photocell, focus the laser on the barcode and press the memory button. The symbol in memory becomes the decode default that the scanner verifies.
- When combined with the G-NET Verification System, you can increase productivity through automatic tracking and ejection. The G-NET system also accepts additional glue detectors, cellophane detectors and other end-product inspection sensors.
- Efficient scanning technology enhances on-line quality management.
- Microprocessor-based control accurately scans and verifies barcodes at line speeds up to 425 meters per minute (1400 ft/min).
- Diverse format decoding accepts black, colored, and fine code lines; truncated codes; and ladder or picket-fence scanning.
- Comprehensive barcode formats are pre-programmed for quick setup and line start.
- Instantaneous faulty code detection triggers an alarm, machine stop, ejector or marker for immediate notification, removal or identification.
- Compact console and scanner install easily on parent machines in tight mounting spaces.
- Convenient RS232 computer interface allows configuration and monitoring from a remote location.
- Tracking and ejection capability consolidates reject removal or marking



Accubar Barcode Verifier

Accubar™ Barcode Verifier

Specifications

Parameter	Specification
Scanning parameters	Rotating polygon uni-directional 1400 sweeps/second, picket-fence or ladder operation
Decoding capabilities	Codebar, code 3 of 9, interleaved 2 of 5, code 93, code 128, UPC/EAN, pharmacode
Light source	Laser diode
Photocell	12 VDC @ 250 mA, open collector input 5-pin 180° IDIN connector
Relay contacts	220 VAC @ 10A form C
External link output	Open drain 500 mA sink, 50 VDC maximum
Electrical service	24 VDC or 115 VAC, 50/60 Hz, 2 A
Temperature rating	0-60 °C (32-140 °F)
Safety class	Class II

Parts and Accessories

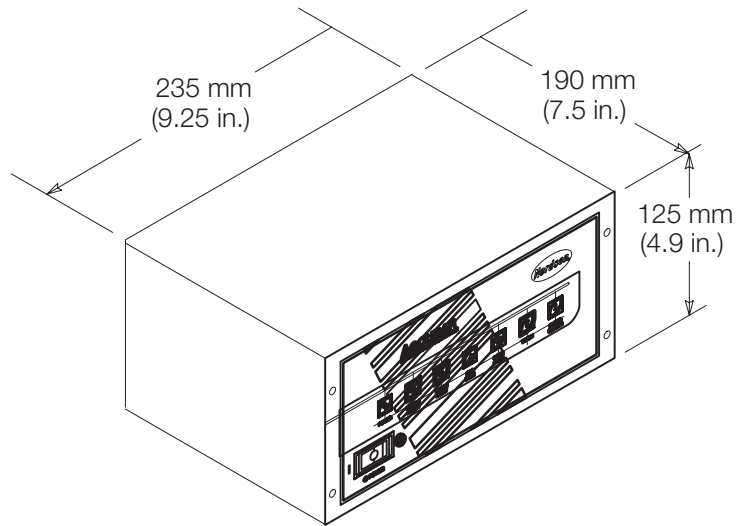
Part Number	Description
738180	LA 5100 Scanning Head/USA Codes
727646	Accubar Console
727648	LA 5100 Connection Cable, 3.66 m (12 ft)
727658	LA 5100 Connection Cable, 7.32 m (24 ft)
727173	Mounting Bracket, Clamp And Pole
727174	Mounting Bracket, 30 mm (1.18 in.) Bracket And Pole
727129	Fault Cable, 9.14 m (30 ft)
727657	Fault Cable, 15.24 m (50 ft)
727109	Machine Stop Cable, G. SITE
727647	Machine Stop Cable, Standalone
727268	Mounting Assembly, Top Mount
727161	Mounting Brackets, 3/4 in. Bar
727163	Mounting Brackets, 30 mm Bar
727267	Barcode Upgrade Kit ⁽¹⁾

⁽¹⁾ Contact Nordson Engineering for details.

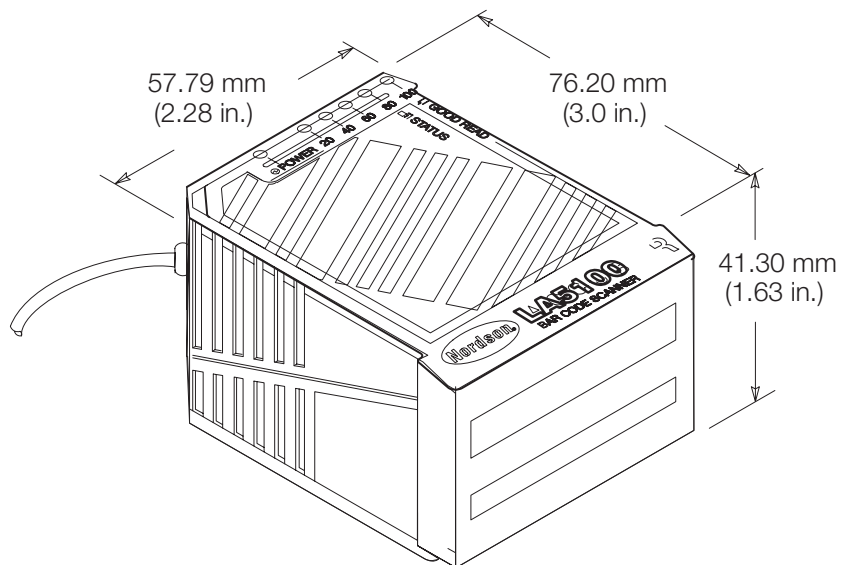
Accubar™ Barcode Verifier

Dimensions

Accubar



LA-5100



Accubar™ Barcode Verifier

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Applicator Driver Selection Chart

Mounting Configuration	e.dot+, e.dot		All Other Applicators		
	Single Channel	2-4 Channels	Single Channel	1-4 Channels	5-8 Channels
DIN Rail — OEM Cabinet Mounting	e driver* 1043759	LogiComm OEM Driver** 1079694	e driver* 1043759	LogiComm OEM Driver** 1079694	LogiComm OEM Driver** 1079694
Stand Alone — Connectors	LogiComm Driver 4 CH Conn 1074653	LogiComm Driver 4 CH Conn 1074653	LogiComm Driver 4 CH Conn 1074653	LogiComm Driver 4 CH Conn 1074653	LogiComm Driver 8 CH Conn 1074654
Stand Alone — Terminal Blocks (IP54)	LogiComm Driver 4 CH TB 1074651	LogiComm Driver 4 CH TB 1074651	LogiComm Driver 4 CH TB 1074651	LogiComm Driver 4 CH TB 1074651	LogiComm Driver 8 CH TB 1074652

*e driver is pre-programmed for the e.dot applicator. Order programming kit for other applicators.

**LogiComm OEM Driver is pre-programmed for e.dot+ applicator. Use included programming kit to change for other applicators.

Applicator Driver Comparison Chart

	LogiComm OEM Applicator Driver Board	LogiComm Applicator Driver	e driver
Electrical:			
Input Voltage	Supply #1: 110–240 V VAC Supply #2: 20–28 VDC	100–240V, 48–62 Hz	200–240 VAC, 50/60 Hz
Input Current	3A	3A	3A
Input Trigger	18–30 VDC, PNP	Opto-Isolated (NPN or PNP, source or sink) 10–30 VDC	Opto-solated, 5 VDC logic, 10–30 VDC
Spike Duration	0.6–2.0 ms	0.1–12.7 ms	1.35 ms
Hold Current	0.0–1.5 A	0–1.0 A	0.75 A
Pull-in Current	0.0–3.0 A	0.1–3.1 A	2.85 A
Fault Output Contact	Potential-free contact rated at 0.25 A @ 24 VDC. Opens on output fault (open circuit, short circuit, terminal)	1 form C potential-free contact, fail safe design. Contact rating 0.5 A @ 250 VAC	Normally open-potential-free contact, closes on output fault
Enclosure:			
Enclosure Rating	IP20	IPX4: Terminal Block Version IP30: Connector Version	IP 20
Dimensions (WxHxD)	78 mm x 105 mm x 73 mm	327 mm x 311 mm x 163 mm	63.5 mm x 203 mm x 147 mm
Mounting	DIN	Wall	DIN
Operating Temperature	0–50 °C	0–50 °C	0–50 °C
<i>Continued...</i>			

Applicator Driver Selection Chart

	LogiComm OEM Applicator Driver Board	LogiComm Applicator Driver	e driver
Features:			
Applicators	e.dot+, e.dot, E-400, LA 820, WM 801	All hot melt and liquid adhesive electric applicators	e.dot
Outputs	4	4 or 8	1
Coils Per Channel	1–2 in series	Varies per applicator	1–3 in series
Input Triggers	4	4	1
Normal Mode	Yes	Yes	Yes
Dot Mode	Yes	Yes	Yes
Dot Time	0.05–4.95 ms	0.05–12.70 ms	0.05–4.95 ms
Purge	Yes	Yes	Yes
Flush	Yes	Yes	Yes
Hammering	Yes	Yes	Yes
Programming:			
Spike Amplitude	Software	LCD / Keypad	Software
Spike Duration	Software	LCD / Keypad	Software
Hold Duration	Software	LCD / Keypad	Software
# Coils	Wire in series	LCD / Keypad	Wire in series
User Interface:			
Interface	Diagonistic LEDs — power (230V and 24V), enable, fault (short/open circuit) Diagnostic LEDs per channel — trigger, output, fault, dot mode/ purge	Backlit LCD graphic with keypad and on/off switch. 4 LEDs for triggers, 4 to 8 LEDs for outputs, LED for power, LED for fault, and LED for alarm. Purge button and buttons to scroll through LCD	LEDs: power, trigger, output, 3 thermal LEDs (fault warning or OK), open, short, dot, for each channel; purge button (press in); two knobs for adjusting dot time.
Connections	Terminal Block	Terminal block or Connector	Terminal Block
Other:			
Special Features	Modbus TCP communication Ready output — potential free contact rated at 0.25 A @ 24 VDC, closes on unit ready	Presets for all legacy applicators, current mode and HD mode	Port for software to set applicator settings
Software Upgrades	Software utility	USB 2.0 and 1.1 via NCM	None
Major Replacement Parts	Full set of service kits	Full set of service kits	None

Web Content



LogiComm® Applicator Driver

Description

The LogiComm Applicator Driver is a high performance electric applicator driver for either hot melt or liquid adhesive applications that supports all Nordson Adhesives electric applicators, eliminating the need for different drivers for different applicators. It has four trigger inputs to interface to a pattern control, PLC or other device. The driver is available in four or eight channel models, each with either convenient external quick disconnect connectors or with traditional terminal blocks where IPX4 water protection is needed.

Each output is independently programmable to respond to any trigger input and can control a different type of applicator on each channel. The LogiComm applicator driver makes set-up a snap. The user only needs to select the applicator type from menu and the correct pre-defined settings for that applicator are loaded automatically. The flexible design also allows the driver to be programmed with customized applicator output settings.

Set-up and troubleshooting are aided by LED indicators as well as sophisticated diagnostics. In addition an alarm signal can be sent to a remote device such as a PLC.

Future driver firmware upgrades are performed via the internal USB port.

Features

- Four- and eight-channel models available
- Two I/O connection styles:
 - quick-disconnect electrical connectors speed installation and maintenance
 - internal two-piece terminal blocks provide water protection and preserve wiring labor in the event of a unit change
- Each output can:
 - select which trigger input to respond to
 - be enabled or disabled for product changes
 - drive a different type of applicator
 - be activated using the purge button for testing, purging or flushing
- Fully programmable to support future Nordson applicators and competitive applicators
- Two trigger modes: normal/bead and dot (fixed time duration)
- Operator panel displays status as well as simplifying installation and setup
- Self-diagnostics coupled with the display and indicators simplify troubleshooting
- Status indicators: eight outputs, four triggers, power, alarm and fault
- USB connection for firmware upgrades and to save/restore settings (electrically isolated from internal power circuitry)
- Internal 24 VDC power supply eliminates the need for a separate power supply for EPC pattern controller
- Input line filter helps withstand high levels of noise, permitting reliable operation in industrial and factory environments
- Hinged enclosure simplifies internal access when required
- AC power switch for convenience



LogiComm Applicator Driver

LogiComm[®] Applicator Driver

Specifications

Parameter	Specification
Applicator outputs	4 or 8 channel
Applicator series supported	All Nordson electric applicators including: E3xx, E400, E700, EM100, EM900, e.dot, LA82x, LA9xx and WM8xx
Applicator drivers	80 W maximum per 4 channel driver (160 W total)
Independent triggers	4 opto-isolated (NPN or PNP; source or sink)
Trigger levels	10–30 VDC
Dot mode time range	0.05–12.75 mSec
Manual purge/test	Purge or flush; either mode available with “hammering”
Alarm output contact	1 form C potential-free contact “Failsafe” design; Active when OK; Inactive when fault, power off or disconnected; contact rating: 0.5 A at 250 VAC
Display type	Backlit LCD graphic
Maximum power requirement	200 W (2 A)
Electrical Service	170–264 VAC typical; 50/60 Hz; 1 phase 90–132 VAC and 170–200 VAC at reduced applicator performance
Ambient temperature range	0–50 °C (32–122 °F)
Approvals and certifications	UL and CE
Environmental	IP X4: Terminal Block version; IP 30: Connector version
Mounting	Cast mounting feet with 2 holes (top) and 2 slots (bottom)
Dimensions (approx)	330 mm (width) x 305 mm (height) x 178 mm (depth) 12 in. (width) x 12 in. (height) x 7 in. (depth)

LogiComm® Applicator Driver

Parts and Accessories

Applicator Driver with Connectors

Part Number	Description
1074653	LogiComm Applicator Driver, 4 Channel, Connector
1074654	LogiComm Applicator Driver, 8 Channel, Connector

Applicator Cables for Connector Version

Part Number	Description
7302530	Cable, LA820, 2.5 m (new conn on 820)
7302531	Cable, LA820, 5 m (new conn on 820)
7302532	Cable, LA820, 10 m (new conn on 820)
1059608	Cable, LA822, 5 m
1060587	Cable, LA822, 2.5 m
1060588	Cable, LA822, 10 m
7302533	Cable, WM801, 2.5 m
7302534	Cable, WM801, 5 m
7302535	Cable, WM801, 10 m
1063858	Cable, E400, 20 ft
1041835	Cable, e.dot (LogiComm to e.dot hose), 10 m
1059606	Cable, Applicator, Ext, 5 m
1074921	Cable, EM100/EM900, 5 m
1074922	Cable, E701, 5 m
1074923	Cable, M70X & E35X, 5 m
1074924	Cable, M70X & E35X, 2 coil, 5 m

Other Cables for Connector Version

Part Number	Description
1089003	Cable, Trigger, 20 m, LGD
1074925	Cable, Alarm to Pigtail, 10 m, LGD
1044019	Cable, EPC to LogiComm Driver (with 24 VDC power supply), 20 m
1089004	Cable, LA404-2 to LogiComm Driver, 2 m
1089061	Cable, Trigger Extension, 5 m

LogiComm® Applicator Driver

Applicator Driver with Terminal Block

Part Number	Description
1074651	LogiComm Applicator Driver, 4 Channel, Terminal Block
1074652	LogiComm Applicator Driver, 8 Channel, Terminal Block

Applicator Cables for Terminal Block Version

Part Number	Description
1041830	e.dot, 15m
1015173	E400, 20ft
1039761	E400, 12 m
1037535	E400, 25 m
1032902	EM100/EM900, 4.6 m, 240V
1046343	EM100/EM900, 4.6 m, 120V
1032904	EM100/EM900, 9.1 m, 240V
1046344	EM100/EM900, 9.1 m, 120V
1032447	EM100/EM900, 4.6 m, Water-wash, 240V
1032448	EM100/EM900, 9.1 m, Water-wash, 240V
183542	M70X & E35X, 18ft (included w/ applicator)
220764	M70X & E35X, Water-wash, 20ft (included w/ applicator)
111934	E701, 10 ft (included w/ applicator)
371189	WM801, 5 m
377379	LA820, 5 m
931158	Cable, 3 Conductor, 50 ft (trigger)

Web Content



LogiComm® OEM Applicator Driver Board

Description

The LogiComm OEM applicator driver board is a high-performance, four-trigger, four-output channel electric applicator driver that easily installs in an OEM control cabinet to interface with a PLC. The driver comes programmed with settings for the e.dot® series electric applicator but can be reprogrammed via a computer to drive many other hot melt or liquid adhesive electric applicators.

LogiComm OEM applicator drivers support communication to the PLC via the digital I/O. The customer can reset the driver to a fault condition or enable the driver. Additionally, a driver contact is opened upon a fault such as an open or short coil or a thermal fault.



LogiComm OEM Applicator Driver Board

Features

- Program driver settings via computer
- Four trigger inputs and four output channels
- Small driver size, DIN rail mounting and two-piece plug type connectors facilitate installation in an OEM control cabinet
- Each output can be:
 - programmed to drive different applicator types
 - tested independently via a purge button or a signal from a PLC
- Two trigger modes are available: normal/bead and dot
- Four status LEDs for trigger, output, dot mode and fault (short and open coil detection)
- Fully programmable to support current and future Nordson applicators
- Fully serviceable
- USB connection:
 - allows field software upgrades
 - allows uploading of new settings through software
 - allows ability to back up settings
- Digital I/O:
 - enable/disable driver or reset the driver from a fault condition
 - fault contact opened if an open/short coil is detected or a thermal fault
- Modbus TCP communications

LogiComm[®] OEM Applicator Driver Board

Specifications

Parameter	Specification
Ambient temperature range	0–50 °C (32–122 °F)
Power supply high voltage	110–240 VAC (fuse-protected) max. 450 W depending on the load
Power supply low voltage	20–28 VDC, 5 W
Enclosure rating	IP20
Driver electrical output capacity (current-controlling peak followed by a reduced holding level)	Each Output 1 electrical applicator at full performance 2 electrical applicators in series at reduced performance
Driver operational modes	Bead: the driver electrical output corresponds to the input trigger signal Dot: the input trigger signal activates the driver electrical output for a programmable, fixed time (0.05–4.95 ms)
Trigger input	Opto-isolated by driver, PNP
Trigger level	18–30 VDC
Number of channels	4
Diagnostic LEDs	POWER 230 VAC POWER 24 VDC ENABLE FAULT (short circuit/open circuit)
Diagnostic LEDs per channel	TRIGGER OUTPUT FAULT (short circuit/open circuit) DOT MODE/PURGE
Fault output	Potential-free contact rated at 0.25 A @ 24 VDC, opens on output fault (open circuit, short circuit, or thermal)
Ready output	Potential-free contact rated at 0.25 A @ 24 VDC, closes on unit ready
Programming	Programming of the driver is accomplished by connecting a USB Type-B PC interface cable to a port on the driver and using the shipped with service software. (CD)
Terminal block connections	Quick-disconnect
Mounting	DIN rail, 35 mm
Dimensions	178 mm x 105 mm x 73 mm 7.01 in. x 4.13 in. x 2.87 in.

Driver Software Parameter Ranges

Parameter	Description	Range
Peak Current	Target Current Level For Initial Peak	0.0–3.0 A
Hold Current	Target Current Level For Hold	0.0–1.5 A
Time	Time for initial Peak	0.6–2.0 ms



LogiComm® OEM Applicator Driver Board

Parts and Accessories

Applicator Driver with Connectors

Part Number	Description
1079694	LogiComm OEM Applicator Driver Board, 4 Channel, Terminal Block

Applicator Cables for Terminal Block Version

Part Number	Description
1041830	e.dot, 15 m
1015173	E400, 20 ft
1039761	E400, 12 m
1037535	E400, 25 m
1032902	EM100/EM900, 4.6 m, 240 V
1032904	EM100/EM900, 9.1 m, 240 V
1032447	EM100/EM900, 4.6 m, Water-wash, 240 V
1032448	EM100/EM900, 4.6 m, Water-wash, 240 V
1046343	EM100/EM900, 4.6 m, 120 V
1046344	EM100/EM900, 9.1 m, 120 V
183542	M70X & E35X, 18ft (included w/ applicator)
220764	M70X & E35X, Water-wash, 20ft (included w/ applicator)
111934	E701, 10ft (included w/ applicator)
371189	Cable, WM 801, 5 m
377379	Cable, LA 820 LogiComm, 5 m

Other Cables for Terminal Block Version

Part Number	Description
931158	Cable, Signal, 3-Conductor, 50 ft.

Service Kits (Terminal Block)

Part Number	Description
1079695	PCA, Main, LGD, OEM
1079696	PCA, Amplifier, LGD, OEM

Spare Parts (Terminal Block)

Part Number	Description
939955	Fuse, 2 A, Time Lag, 5 x 20

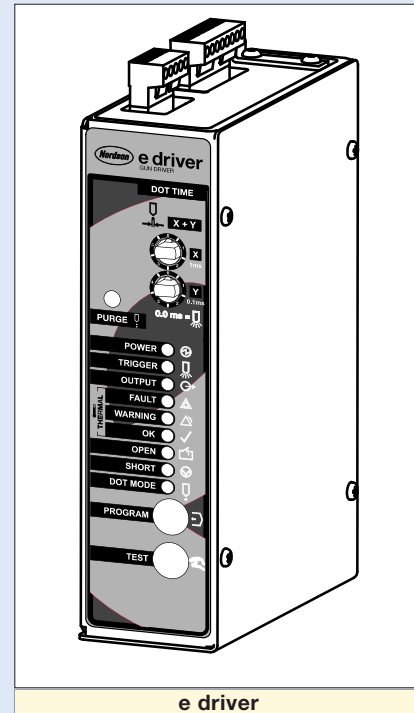
LogiComm[®] OEM Applicator Driver Board

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Description

The e driver is a high-performance, current-controlling, single-channel electric applicator driver designed for use with an e.dot electric applicator. The e driver controls coil current, which is the driving force behind the actuation of the dispensing module on the applicator. The driver's electrical output is a spiked waveform that applies a high-peak current to actuate the module rapidly, followed by a lower holding current to reduce power dissipation.

- Fully programmable: spike and hold current, spike time
- Two operating modes: normal and dot
- Troubleshooting indicators: power, trigger, output and thermal fault LEDs



Parts and Accessories

Part Number	Description
1043759	e driver, Single Box
1041830	Cable, 15 m (49.2 ft), e.dot+ Hose to e driver
1041835	Cable, 10 m (32.8 ft), e.dot+ Hose to LogiComm/e driver
1041831	Cable Extension, e.dot+ Hose to P/N 1041830 or P/N 1041835, 10 m (33 ft)
1018155	Kit, Driver Programming

e driver

Specifications

Parameter	Specification
Ambient temperature range	0–50 °C (32–122 °F)
Voltage	200–240 VAC (+10%–15%), 3 A, 50/60 Hz (fuse- and transient-protected)
Enclosure rating	IP20
Driver electrical output capacity (current-controlling peak followed by a reduced holding level)	1 e.dot applicator at full performance 2 or 3 e.dot applicators in series at reduced performance
Driver operational modes	Standard (spray, bead, strand): the driver electrical output corresponds to the input trigger signal Dot: the input trigger signal activates the driver electrical output for a short programmable time (0.1–9.9 ms)
Trigger input	Opto-isolated by driver
Number of channels	1
Trigger levels	5 VDC logic 10–30 VDC
Diagnostic LEDs	POWER TRIGGER OUTPUT Thermal (OK, WARNING, FAULT) OPEN (open circuit) SHORT (short circuit) DOT MODE
Alarm output	Potential-free contact rated at 0.25 A @ 24 VDC, closes on output fault (open circuit, short circuit, or thermal)
Terminal block connections	Two-piece, quick-disconnect
Mounting	DIN rail
Dimensions	64 mm (width) x 216 mm (height) x 147 mm (depth) 2.50 in. (width) x 8.50 in. (height) x 5.78 in. (depth)

Web Content



Nitrogen Generation System & Booster Pump

Description

The Nordson nitrogen generation system and nitrogen booster pump were developed to help customers achieve a simple, cost-effective nitrogen supply to:

- produce a closed cell foam when using Nordson foaming technology;
- create a nitrogen blanket when using Nordson tank melters or extruders with reactive hot melt materials or materials prone to char.

The Nordson booster pump is necessary to boost the nitrogen gas pressure when high-pressure gas is required, as when used in conjunction with a SureFoam system.

Foaming Applications

While plant air, or a variety of inert gases, can be used with Nordson foaming systems to create the closed cell foam, nitrogen gas is considered best. Nitrogen gas supply is clean; relatively inexpensive; truly inert (non reactive with adhesives or sealants being formed); and creates small, consistent bubbles.

Tank Blanketing

Inert gas protects adhesives/materials in a holding or processing tank from exposure to oxygen and/or air (and most specifically in the case of reactive polyurethane adhesives, the moisture in air). Referred to as a “nitrogen blanket,” a constant supply of gas serves to fill up any “empty” space in a tank, thereby displacing oxygen/air. The blanket helps maintain the adhesive’s bonding integrity, prevents char development and in the case of moisture-cure adhesives, prevents premature curing. Virtually any of Nordson’s tank melters can be fitted with a tank blanketing system if desired/needed.

Nitrogen Gas Generation Process

While nitrogen gas is often supplied in cylinders, they are cumbersome and require special handling/storage; require frequent change-out on the production line; and must be refilled/replenished regularly.



Nitrogen Generation System & Booster

On-site production of nitrogen gas can be instituted relatively inexpensively and easily with the Nordson nitrogen generation system.

Plant air is the raw material that feeds the nitrogen generation process. A two-stage filtration process removes contaminants and moisture. The dry, purified air then passes into the membrane separation section of the nitrogen generator. The membrane construction allows the nitrogen molecules to proceed through to the end of the bundle of hollow tubes while the other air components, including oxygen and argon, pass through the tube membrane and vent to the outside atmosphere. The end result is an uninterrupted supply of nitrogen gas that is 95-99.5% pure.

Nitrogen Generation System & Booster Pump

Features

Nitrogen Generation System

- Ability to produce and have available nitrogen gas as needed for production
- Continuous, in-line process so no need to shutdown production to replace cylinders
- Easy-to-use, including immediate start-up and shutdown
- Compact system allows placement as close to the application point as desired
- Easy installation with no electric requirement
- Very little maintenance required with no moving parts and filter replacement only every 4-6 months
- 80-90% lower cost than nitrogen gas provided in pressurized cylinders
- Eliminates the need for special storage/handling and appropriate training required to handle pressurized cylinders
- Produces 95-99.5% pure nitrogen

Nitrogen Booster Pump

- Ability to produce and have available nitrogen gas as needed for production
- Continuous, in-line process so no need to shutdown production to replace cylinders
- Easy-to-use, including immediate start-up and shutdown
- Compact system allows placement as close to the application point as desired
- Easy installation with no electric requirement
- Very little maintenance required with no moving parts and filter replacement only every 4-6 months
- 80-90% lower cost than nitrogen gas provided in pressurized cylinders
- Eliminates the need for special storage/handling and appropriate training required to handle pressurized cylinders
- Produces 95-99.5% pure nitrogen

Objectives

- Provide customers with a relatively safe, easy source of nitrogen gas to simplify use of Nordson foam technology and tank melters for reactive adhesives/materials.
- Foster the use of nitrogen gas rather than other inert gases for foaming adhesives as nitrogen gas creates the “best foam.” Nitrogen gas is truly inert/non-reactive with adhesives/materials; has no oxygen component that can cause char; and produces a small and consistent bubble.
- Replace cumbersome, expensive nitrogen gas cylinders that some customers do not want to deal with. Cylinders require special storage and handling; must be replenished; and are often too bulky to be placed near the point of application.

Nitrogen Generation System & Booster Pump

Specifications

Generator Specifications

Parameter	Specification
Nitrogen purity	95.0-99.5%
Maximum pressure	7 bar (100 psi)
Maximum flow rate (per hour)	137 liters
Atmospheric dewpoint	-50 °C (-58 °F)
Recommended ambient temperature	200 °C (68 °F)
Maximum pressure drop (@99%N2 purity, 125 psig)	10 psig
Maximum inlet air temperature	43 °C (110 °F)
Dimensions (L x H x D)	473 x 361.5 x 150 mm (18.62 x 14.23 x 5.91 in.)
Weight (approx)	9.5 kg (21 lb)

Booster Specifications

Parameter	Specification
Maximum pressure	138 bar (2000 psi)
Dimensions (L x H x D)	307 x 274 x 174 mm (12.1 x 9.4 x 6.8 in.)
Weight (approx)	110 kg (24 lb)
Designation	CE

Part Numbers

Part Number	Description
1106554	Nitrogen Generator
1105945	Amplifier, Booster, Air/Nitrogen
1108292	Kit, regulator, Nitrogen Blanket, 10 psi, W/Timer
1108290	Kit, Regulator, Low Pressure 3000-10-0 psi, W/Timer (used with 3000 psi bottle)
1108291	Kit, Regulator, High Pressure 6000-10-0 psi, W/Timer (used with 6000 psi bottle)

Nitrogen Generation System & Booster Pump

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Web Content



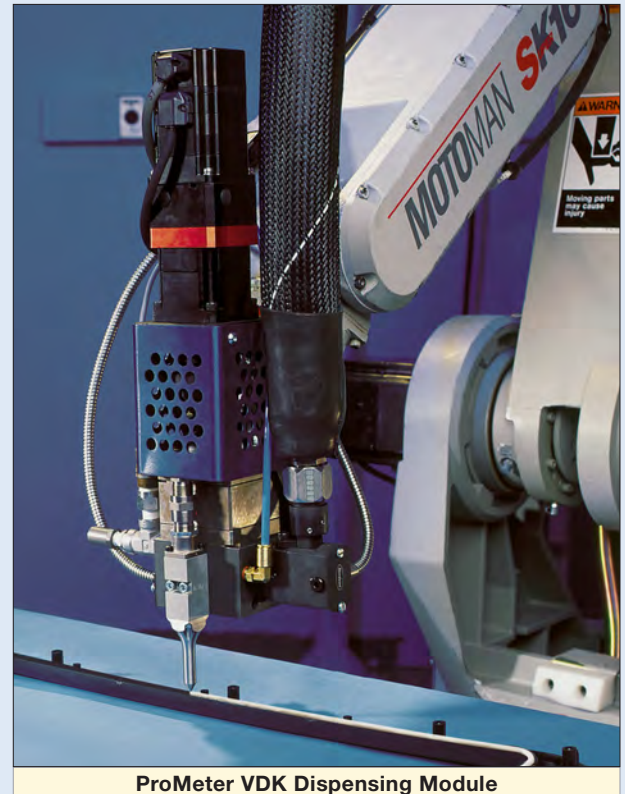
ProMeter® VDK Dispense Head

Description

Compact ProMeter VDK dispense heads provide gear metering technology to deliver precision and control for form-in-place gasketing, bonding and sealing operations. It is ideal for high-viscosity silicones, butyls, epoxies, and hot melt materials.

Features

- Metering technology delivers precise bead profiles, shot weights, and gasket sizes, resulting in material savings and dispense-control accuracy to within ± 1 percent.
- Material metering close to the application point minimizes the effects of pressure variations, material viscosity changes, and pressure drops due to material output.
- Design provides faster response time than pressure-fed systems when changing flow rates and output.
- Positive-displacement spur gear pumps link to an encoder-feedback servo drive within the head, providing precise volumetric output.
- Spur gear design eliminates side loads that can lead to premature wear.
- External-speed input reference signals synchronize with automation speed when mounted on a robot or used in a stationary position, resulting in deposition uniformity regardless of robot or line-speed changes.
- Module retrofits to Nordson and non-Nordson supply and processing units to improve output control.
- Choice of ambient, temperature-conditioned, and heated configurations provides application versatility.
- Output range of 15 to 600 cc/min meets diverse production requirements.
- Mounting configurations include direct Blue Series, AutoFlo, or AG900+S applicator module attachment, or remote-mount with separate dispense head.
- Standard control provides full functionality, including digital readouts for volumetric-output and system-pressure monitoring and separate alarm signals if pressure, flow rate, or output volume exceeds preset limits.



ProMeter VDK Dispensing Module

ProMeter® VDK Dispense Head

Specifications

Parameter	Specification
Operating temperature Cold Heated	Ambient 38–218 °C (100–425 °F)
Maximum input pressure MPa (psi)	13.79 (2,000)
Maximum pressure difference (outlet-inlet) MPa (psi)	2 (300)
Material output range cc/min	15–600
Dispense control accuracy	±1%
Viscosity range centipoise	1,000–1,000,000
Voltage	240 VAC, 380 VAC
Weight kg (lb)	8.4 (18.5)
Approvals	CE

Dimensions

Dimensions mm (in.)	Module	Basic Controller
Height	525 (21.0)	760 (30)
Width	84 (3.3)	610 (24)
Depth	79 (3.1)	250 (10)

ProMeter® VDK Dispense Head

Parts and Accessories

ProMeter VDK Dispense Applicator Matrix

Pump Size	Module Type	Applicator Part Number	
		Non-heated	Heated
0.15 cc/rev	Remote	1078943	1078947
	SolidBlue	1078944	1078948
	Auto FLOW	1078945	1078949
	AG-900+S	1078946	1078950
0.3 cc/rev	Remote	1079081	1079085
	SolidBlue	1079082	1079086
	Auto FLOW	1079083	1079087
	AG-900+S	1079084	1079088
0.6 cc/rev	Remote	1079089	1079093
	SolidBlue	1079090	1079094
	Auto FLOW	1079091	1079095
	AG-900+S	1079092	1079096
1.2 cc/rev	Remote	1079103	1079108
	SolidBlue	1079102	1079107
	Auto FLOW	1079101	1079125
	AG-900+S	1079106	1079117
2.4 cc/rev	Remote	1079119	1079111
	SolidBlue	1079118	1079110
	Auto FLOW	1079128	1079124
	AG-900+S	1079131	1079132
4.5 cc/rev	Remote	1079105	1079116
	SolidBlue	1079129	1079115
	Auto FLOW	1079126	1079122
	AG-900+S	1079112	1079109
6 cc/rev	Remote	1079130	1079114
	SolidBlue	1079120	1079113
	Auto FLOW	1079127	1079123
	AG-900+S	1079104	1079121

ProMeter® VDK Dispense Head

ProMeter VDK Controllers

Part Number	Description
1123694	Controller, ProMeter VDK, 240V
1123461	Controller, ProMeter VDK, 380V

ProMeter VDK Cables

Cable Type	Length m (ft)			
	3 (9.8)	6 (19.7)	9 (29.5)	15 (49.2)
Encoder	1503566	1503567	1503568	1503569
Motor Power	1503562	1503563	1503564	1503565
Applicator Solenoid	1009269	1009360	1009361	1044857
Transducer	1009362	1009363	1009364	1044856
Digital/Analog	N/A	N/A	1013449	1044859
Trigger/Volume	N/A	N/A	1013660	1044848

Web Content

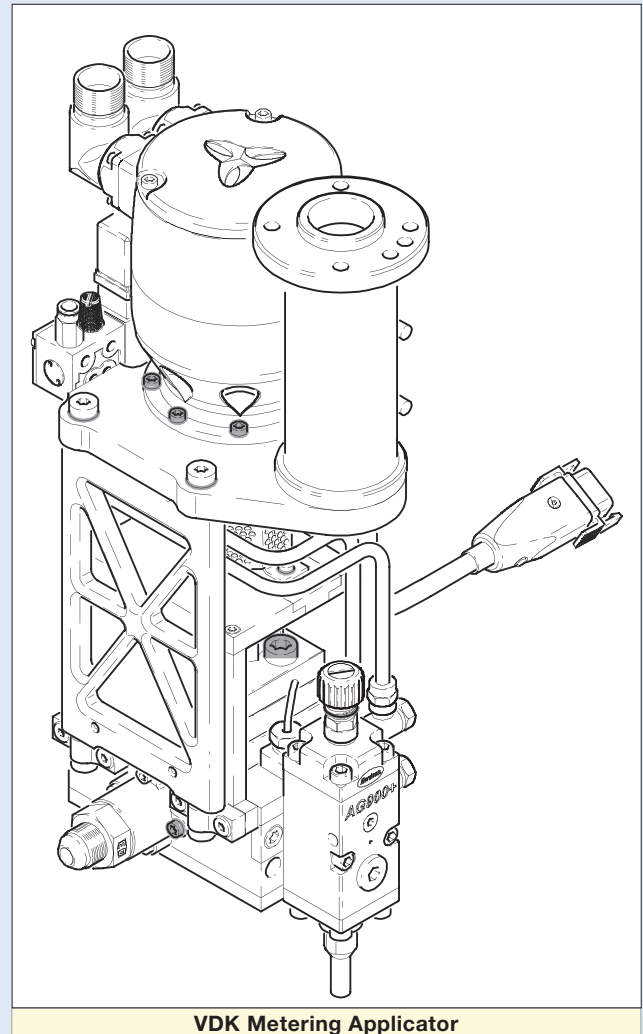


VDK Midi Metering Applicator

Description

Nordson VDK metering applicators provide precision and control for dynamic robot applications such as foam-in-place gasketing, bonding, and sealing. These applicators are ideal for high-viscosity silicones, butyls, epoxies, and hot melt materials.

- Metering technology close to the application point delivers precise dispense accuracy within ± 1 percent.
- High dynamic servo drives provides fast response and volumetric precision.
- PLC control with intuitive touch-screen interface
- PROFIBUS interface for integrated system control
- Freely programmable pressure snuffback to eliminate overpressure and hammerheads
- External-speed input reference signals synchronize with automation speed when mounted on a robot or used in a stationary position, resulting in deposition uniformity regardless of robot or line-speed changes, including programmable output fine adjust factor
- Choice of ambient, temperature-conditioned, and heated configurations provides application versatility.
- Configurations with various Nordson applicator modules possible
- Inlet and outlet pressure control - pressure-controlled material supply possible
- 24V heater on extended nozzle



VDK Metering Applicator

VDK Midi Metering Applicator

Features

- Available with precision gear pumps in selectable capacities
- High dynamic Servo drives
- Available as stand-alone version with separate Siemens® S7 PLC
- Easy integration to existing lines as system retrofit through interfaces to parent machine
- Key-to-line communication with parent machine
- Different temperature sensor choices (Ni-120, PT100)
- Recirculation ports selectable (when in operation with recirculating system)
- Quick installation
- Service-friendly design - easy accessible service parts like pumps and couplings
- Easy to operate with intuitive graphical touch panel user interface
- Configurable product meets specific application needs
- Rigid low vibration design
- Special requirements can be offered as an engineered system on request

Siemens is a registered trademark of Siemens AG.

Specifications

Parameter	Specification*
	VDK midi
Max. output L/hr ⁽¹⁾	33
Approx. weight kg (lb) (incl. Swivel, robot flange)	15 (33)
Temperature °C (°F) Heated cold	40–250 (76–478) ambient
Electrical service ⁽²⁾	230 VAC +PE
Max. adhesive pressure bar (psi)	100 (1,450)
Temperature sensors	PT100 / Ni-120
Pressure control	Inlet and outlet
Hose connections/swivel	8, 13, 16, 20, 32 mm
Re-circulation port	Optional
Applicator modules	AG900+/AN25 SUN/H20 + others on request

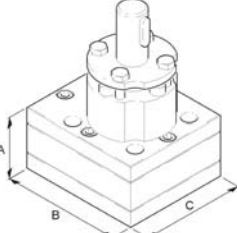
* This is a generic specification. Exact specifications of Engineered Systems are valid with order confirmation only.

⁽¹⁾ Maximum output rate depends on material, foam rate, and selected pump size.

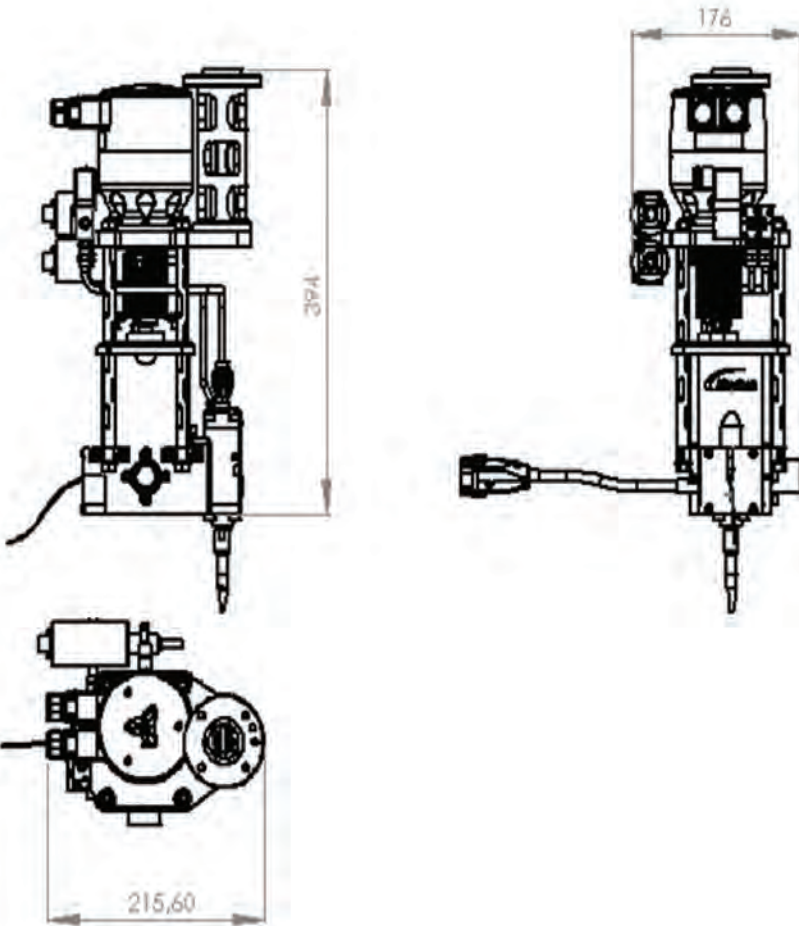
⁽²⁾ Transformer may be needed for any other local power supply.

VDK Metering Applicator

Gear Pump Chart

	Type	Dimensions (mm)			Capacity (cc.rev)	Output @70rpm (L/hr)	
		A	B	C			
VDK midi		Type 1.2	34.0	70	66	1.2	5.04
	Type 1.75	40.5	70	66	1.75	7.35	
	Type 3.0	44.5	70	66	3.0	12.6	
	Type 6.0	63.0	70	66	6.0	25.2	

Dimensions



VDK Metering Applicator

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Web Content



PS Metering Station

Description

Nordson PS Metering Stations maintain consistent application pressure and improve adhesive metering precision. The systems

- act as a booster pump to compensate high pressure/volume losses and maintain system pressure, e.g. with high viscous materials like butyls
- provide multiple adhesive streams to add application points
- move the volumetric adhesive supply unit as close as possible to the point of application to provide consistent and precise adhesive flow

The Nordson PS Metering Station enhances adhesive output streams or improve process efficiency.

The PS Metering Station normally is an integral component of an engineered system but can also be provided as a retrofit solution. The retrofit version has a separate control cabinet with PLC and intuitive touch panel interface for easy integration into existing installations, including key-to-line functionality to be controlled by the parent machine.

Adding a PS Metering Station can be an economical way to extend the adhesive streams rather than investing in a complete new melter.

The compact layout allows metering precision as close to the point of application as possible.

The PS Metering Station optionally features a circulation port, which builds a highly dynamic application system with re-circulating applicators for accurate intermittent applications.

Unwanted hammerheads and inconsistent beads are eliminated.

As a booster pump it will help to maintain a consistent pressure by compensating pressure losses in the system, a problem which is often caused when applying higher viscous materials.

The PS Metering Station is available in two layout versions with 1 to 4 pumps depending on the output capacity. The pumps feature 1 or 2 outputs and high dynamic servo drives.



PS Metering Station



PS Metering Station Control Cabinet

PS Metering Station

Features

- Precision gear pumps in selectable sizes from 0.2 cc/minⁿ to 50 cc/minⁿ
- High temperature applications < 250 °C
- High pressure applications <100 bar
- High dynamic Servo drives
- Available as stand-alone version with separate Siemens® S7 PLC
- PROFIBUS interface
- Key-to-line communication with parent machine
- Different temperature sensor choices (Ni-120, PT100, FeCuNi)
- Recirculation ports selectable (when in operation with recirculating applicators)
- Quick installation
- Very service friendly - easy accessible service parts like pumps and couplings
- Easy integration to existing lines as system retrofit through interfaces to parent machine
- Easy to operate with intuitive graphical touch panel user interface
- Configurable product meets specific application needs
- Special requirements can be offered as an engineered system on request

Siemens is a registered trademark of Siemens AG.

Specifications

Parameter			Specification	
			PS midi	PS maxi
Max. throughput per pump L/hr (lb/hr) ⁽¹⁾			80 (176)	300 (660)
Pumps	Outlets / Pump	Recirculation		
1	1		PS-midi 1x1	PS-maxi 1x1
1	2	√ 1 outlet	PS-midi 1x2	PS-maxi 1x2
2	1		PS-midi 2x1	PS-maxi 2x1
2	2	√ 1 outlet	PS-midi 2x2	PS-maxi 2x2
3	1		PS-midi 3x1	PS-maxi 3x1
3	2	√ 1 outlet	PS-midi 3x2	PS-maxi 3x2
4	1		PS-midi 4x1	PS-maxi 4x1
4	2		PS-midi 4x2	PS-maxi 4x2
Max. operating temperature °C (°F) ⁽²⁾			250 (475)	
Max. adhesive pressure bar (psi)			100 (1,450)	
Pressure control			Inlet and outlet	
Temperature sensors			Ni-120 / PT100	
Electrical service ⁽³⁾			3x 400 VAC +N +PE	
Hose connection fittings INLET			8, 13, 16, 20, 32 mm	
Hose connection fittings OUTLET			8, 13, 16, 20, 32 mm	

⁽¹⁾ Maximum output rate depends on selected pump size.

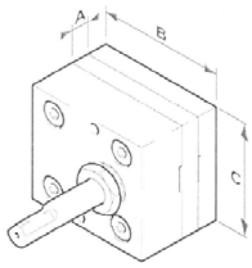
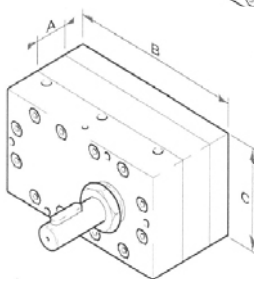
⁽²⁾ Operating temperature depends on adhesive and auxiliary equipment.

⁽³⁾ Transformer may be needed for any other local power supply.



PS Metering Station

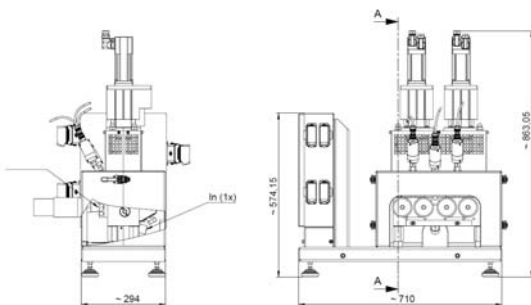
Gear Pump Chart

	Part Number	Type	Dimensions (mm)			Capacity (cc.rev)	Output @100 rpm (L/hr)
			A	B	C		
 <p>PS midi</p>	7521694	GP 03 M0.5	3	76	76	0.2	1.2
	7521751	GP 03 M1	3	76	76	0.4	2.4
	7521755	GP 03 M2	3	76	76	0.8	4.8
	7521703	GP 06 M2	6	76	76	1.7	10.2
	7528130	GP 12 M2	12	76	76	3.5	21
	7521668	GP 25 M2	25	76	76	7	42
	7055336	GP 30 M2	30	76	76	8.4	50.4
	7523855	GP 50 M2	50	76	76	13.3	80
 <p>PS maxi</p>	7053428	GP 100 M1	15	195	120	16.7	100
	7525111*	GP 160 M2	25	195	120	27	162
	7522285*	GP 220 M2	35	195	120	37	222
	7500209*	GP 300 M2	50	195	120	50	300

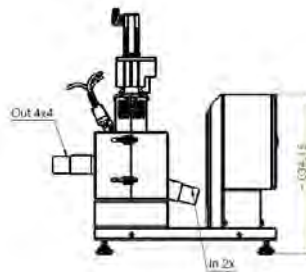
*Additional heating cartridges needed

Dimensions

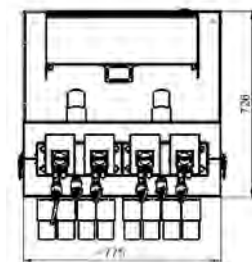
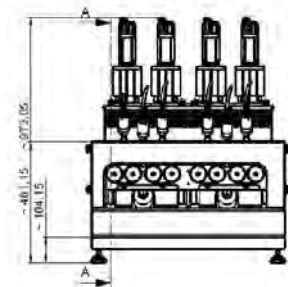
PS midi



PS midi 2x2



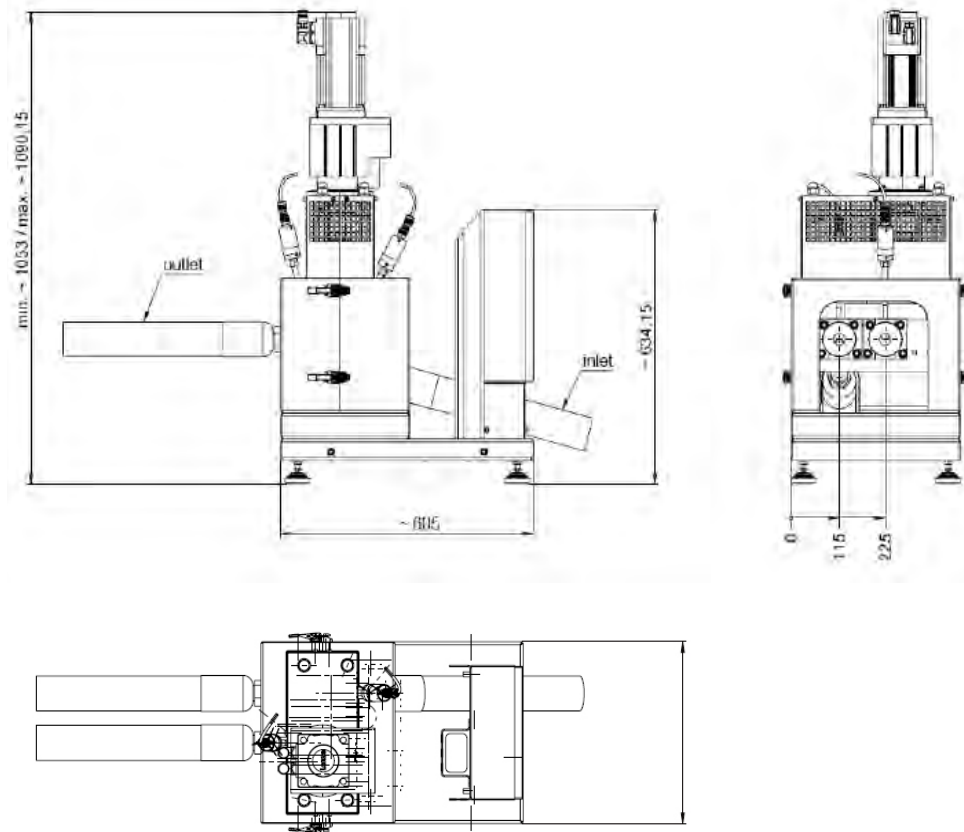
PS midi 4x2



PS Metering Station

Dimensions (contd)

PS maxi



Metering Station Width	X
PS maxi 1x	~405
PS maxi 2x	~625
PS maxi 3x	~845
PS maxi 4x	~1065

Web Content



LA 300 Series Piston Pumps

Description

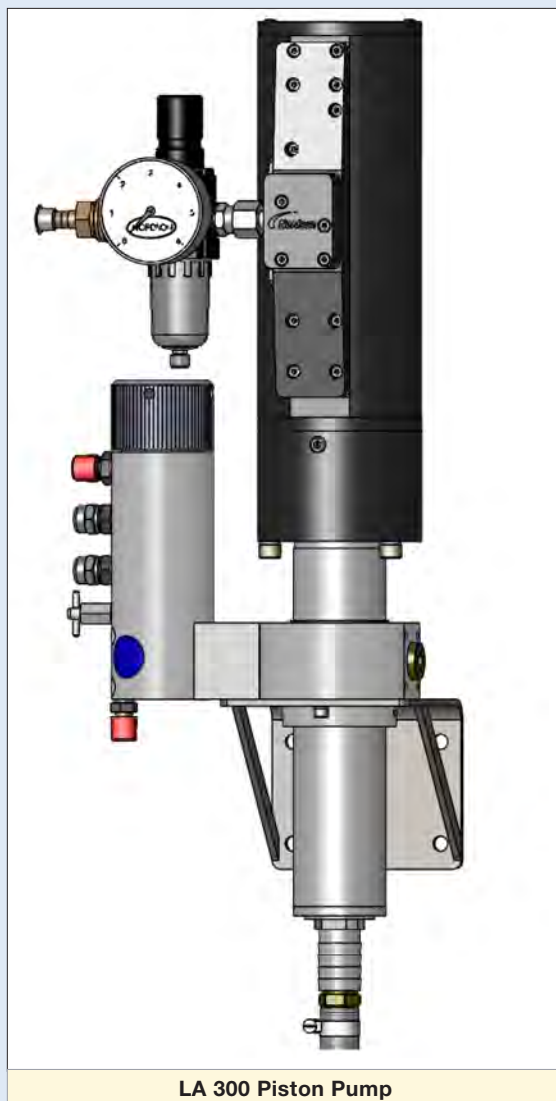
Nordson LA 300 dual-acting piston pumps offer flexibility and consistent high-flow rates of liquid adhesives in paper converting industries such as folding carton, envelope or bag & sack manufacturing.

The filter housing can be rotated around the air motor body, which allows flexible mounting. Further, the filter housing can be moved close to the applicator area by means of an extra wide high pressure hose. Additionally, the LA38x pressure regulators do not need a drain pipe. This allows you to move the regulator and the filter housing close to the applicator area to prevent pressure drops.

Wall-mount, lid-mount and system-trolley configurations are available to meet specific installation requirements.

A 7:1 air-to-fluid ratio delivers precise application when paired with LA 38X pressure regulators. High flow rates allow use of lower pressure, reducing risk of adhesive shearing. Higher flow capability also reduces the need to use multiple pumps in high flow applications.

LA 300 pumps accommodate 20, 30 and 200 liter (5 or 55 gallon) containers. The versatile systems offer both standard and wear-resistant rods to handle a wide range of adhesive and production needs. The pump seals and lubricating oil are US FDA approved, making them acceptable for use in food and tobacco industries.



LA 300 Piston Pump

LA 300 Series Piston Pumps

Specifications

Parameter	Specification
Maximum pump rate/hr l (gal)	120 (31.7)
Maximum hydraulic pressure bar (psi)	42 (600)
Ambient temperature °C (°F)	1-50 (33-122)
Suction lift (wet) @ 3000 mPas m (ft)	4 (13)
Air-to-fluid ratio	7:1
Maximum air consumption Ni/s (scfm)	1.8* (3.8)
Minimum air line ID mm (in.)	8 (5/16)
Sound intensity	<70 dB
Weight kg (lb)	15.5 (34)

*Normal l/sec. at 30 cycles/min

Parts and Accessories

Pumps

Part Number	Description	Comment
7302228	Pump, Piston, LA300, Standard	Standard rod
7302240	Pump, Piston, LA300, Wear Resistant	Wear resistant rod
7302584	LA300-B1FSN, (S=LA382)	Lid mounted, max. 18 Bar, LA 382 Pressure Regulator
7303805	Kit, Upgrade LA300 Pump For Suction Hose 5/8"	upgrade kit for previous pump versions 7300230 & 7300470

Lid Mountings

Part Number	Description	Comment
7300449	315 mm Plastic Lid With Siphon Hose	For 5 gallon pail, wall mount pump
7300450	315 mm Stainless Steel Lid, Through-mount	For 5 gallon pail
7300390	400 mm Plastic Lid With Siphon Hose	For 30 liter pail, wall mount pump
7300418	400 mm Stainless Steel Lid, Through-mount	For 30 liter pail

Pressure Gauge Kits

Part Number	Description	Comment
377985	0-6 bar (90 psi)	Kits include gauge, tee and fittings
377986	0-25 bar (0-350 psi)	
377987	0-60 bar (900 psi)	



LA 300 Series Piston Pumps

Cart Systems and Level Control

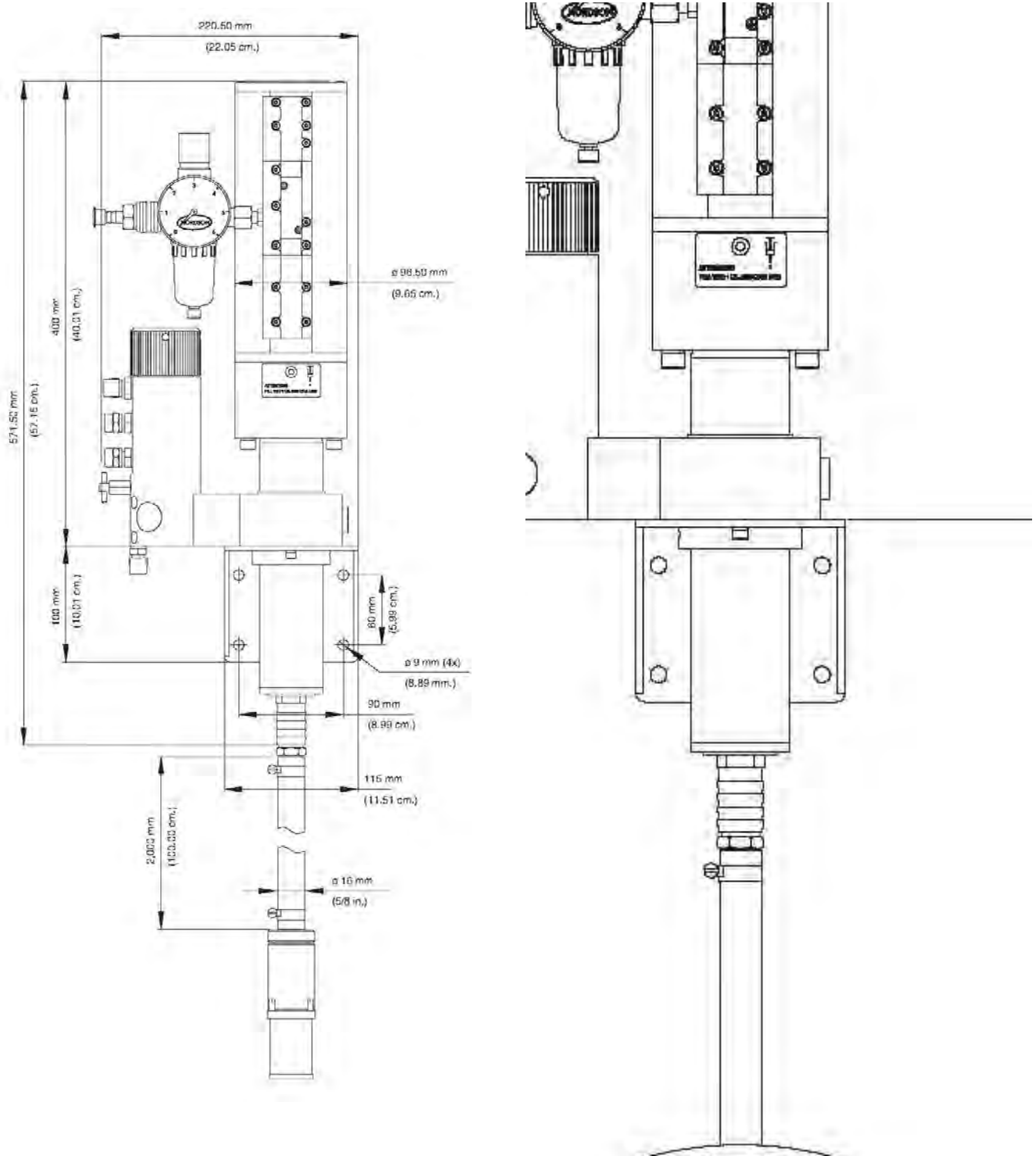
Part Number	Description
K850002	Configurable Cart System - Adhesive System Console (ASC)
7300113	Flush/Return Hose
7302303	Manifold, 1 in 4 out, With Nipples
7302298	Manifold, 1 in 8 out, With Nipples
7302304	Manifold, 1 in 4 out + Nipples And Shutoff Gauge
7302299	Manifold, 1 in 8 out + Nipples And Shutoff Gauge
1054761	Dip Tube Kit for 55 gallon Drums
7301107	Dip Tube Kit for 1000 l Container
377188	Run-up I/P 1 in 1 out, LogiComm, LA Timers
377189	Run-up I/P 1 in 2 out, LogiComm, LA Timers
377733	Mounting Kit for 377188
377734	Mounting Kit for 377189
7304186	Kit, LA100C Level Detection, LA3XX, Wall Mount
7304308	Kit, LA100C Level Detection, LA3XX, Lid Mount

Remote Filter Mounting

Part Number	Description
7300409	Bracket for remote Filter
7300410	Nipple, m 16 x 5
7300411	Hose, 1.5 m (4.9 ft)
7300412	Hose, 3.0 m (9.8 ft)
7300413	Hose, 6.0 m (19.7 ft)
7300414	Hose, 9.0 m (29.5 ft)

LA 300 Series Piston Pumps

Dimensions



Web Content



LA 310 Series Piston Pumps

Description

Nordson LA 310 dual-acting piston pumps offer flexibility and consistent flow rates of liquid adhesives in folding carton, envelope, and bag and sack manufacturing. Whether lid-mount or wall-mount versions, or on Nordson’s adhesive system console, the system offers flexibility for installations in OEM machines or to retrofit existing production lines.

A 5:1 air-to-fluid ratio delivers precise application when paired with LA 380 pressure regulators. High flow rates allow use of lower pressure, reducing risk of adhesive shearing.

LA 380 regulators do not need drain pipes, hoses or glue chambers to relieve glue pressure making it possible to place regulators close to the applicators.

LA 310 pumps and LA 380 pressure regulators use non PTFE seals or parts and the lubricating oil is US FDA approved, making the pumps acceptable for use in food and tobacco industries.



LA 310 Pump Lid Mount on bucket

Specifications

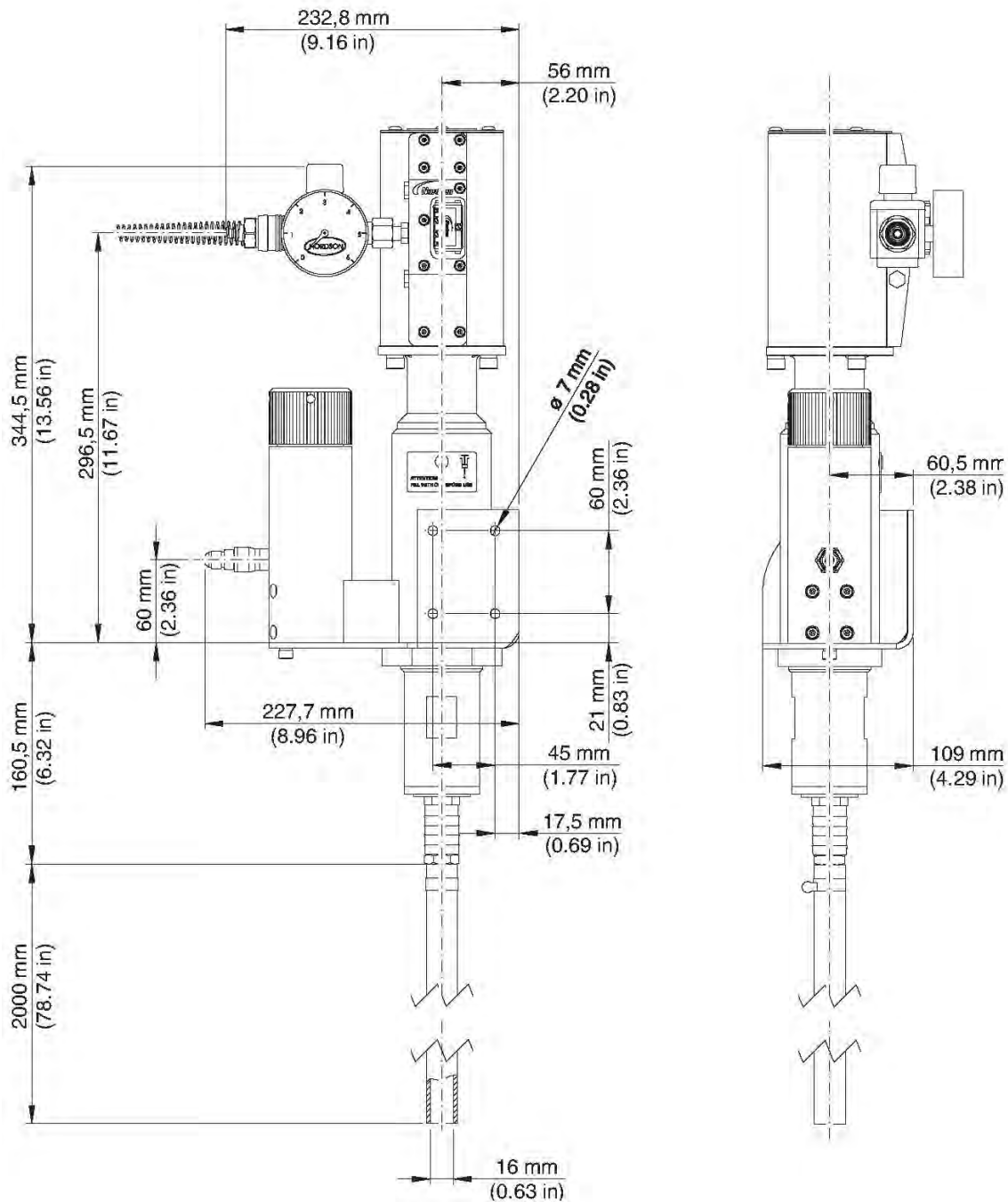
Parameter	Specification
Maximum pump rate/hr l (gal)	48 (12.6)
Maximum hydraulic pressure bar (psi)	30 (435)
Ambient temperature °C (°F)	1-50 (33-122)
Suction lift (wet) @ 3000 mPas m (ft)	2 (7.5)
Air-to-fluid ratio	5:1
Maximum air consumption NL/s	0.53* (1.1)
Sound intensity	<70 dB
Weight kg (lb)	11.4 (25)

*Normal l/sec. at 30 cycles/min

LA 310 Series Piston Pumps

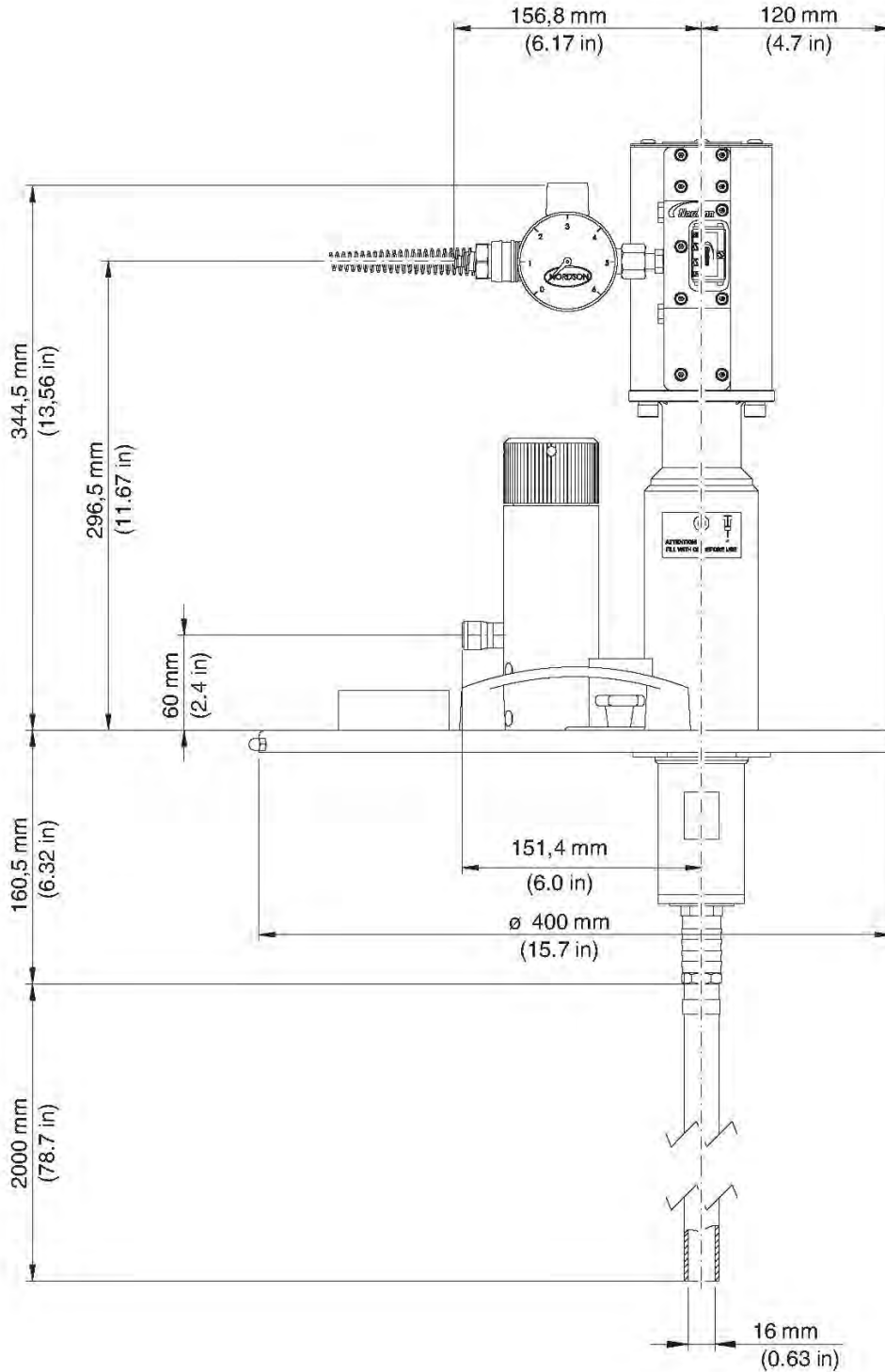
Dimensions

Wall-Mounted



LA 310 Series Piston Pumps

Lid-Mounted



LA 310 Series Piston Pumps

Parts and Accessories

Pumps

Part Number	Description	Comment
7303405	Pump, Piston, LA310	LA310 Piston Pump
7303410	Pump, Piston, LA310, Wall	LA310 Piston Pump, Wall mount
7303420	Pump, Piston, LA310, Lid	LA310 Piston Pump, Lid mount

Cart Systems and Level Control

Part Number	Description
K850002	Configurable Cart System - Adhesives System Console (ASC)
7302303	Manifold, 1 in, 4 out With Nipples
7302298	Manifold, 1 in, 8 out, With Nipples
7302304	Manifold, 1 in, 4 out, With Nipples And Shutoff Gauge
7302299	Manifold, 1 in, 8 out, With Nipples And Shutoff Gauge
1054761	Dip Tube Kit for 55 gallon Drums
7301107	Dip Tube Kit for 1000 liter Container
377188	Run-up I/P, 1 in, 1 out, LogiComm, LA Timers
377189	Run-up I/P, 1 in, 2 out, LogiComm, LA Timers
377733	Mounting Kit for 377188
377737	Mounting Kit for 377189
7304186	Kit, LA100C Level Detection, LA3XX, Wall Mount
7304308	Kit, LA100C Level Detection, LA3XX, Lid Mount

Pressure Gauge Kits

Part Number	Description	Comment
377985	0-6 bar (0-90 psi)	Kits include gauge, tee and fittings
377986	0-25 bar (0-350 psi)	
377987	0-60 bar (0-900 psi)	

Mounting Kits

Part Number	Description	Comment
7303408	Kit, Lid-mount, LA 310	Stainless steel pump lid 400 mm with handles; LA310
7303409	Kit, Wall-mount, LA310	Wall-mount bracket, LA310



Web Content



LA 320 Diaphragm Pumps

Description

Diaphragm pumps maximize delivery of cold liquid adhesives, including PVA, solvent-based, starch and dextrine adhesives.

- Engineered polyamide-based plastics (PTFE) yield high material strength and corrosion resistance.
- Use for low-pressure, constant adhesive delivery of up to 50 liters per minute (13.3 gal/min) with the LA 320.
- Air-to-fluid pressure ratio of 1:1 produces reliable output at low pressures.
- Changeover mechanism reduces pump wink for constant adhesive delivery over a wide viscosity range.
- Metal-free outer casing protects against aggressive, corrosive environments.
- Compact design installs easily on parent machines or lid-mount systems, and interchangeable suction and output connections speed setup.
- PTFE bonded diaphragms, with integrated metal cores, maximize corrosion resistance and delivery response.



LA 320 Diaphragm Pump

Specifications

Parameter	Specification
Pump type	Diaphragm
Air-to-fluid pressure ratio	1:1
Pumping rate, maximum L/min (gal/min)	50 (13.3)
Maximum operating pressure MPa (psi)	0.7 (103)
Air inlet connection	R 1/4
Output threading	1/2 in. NPT(F)
Solid kernel size, maximum mm (in.)	4 (0.16)
Suction lift, meters:	
Dry	1.5
Wet	9.5
Operating temperature:	
Maximum	120°C (248°F)
Ambient	1 to 50°C (33 to 120°F)
Weight kg (lb)	7 (15.4)
Approvals and certifications	CE

LA 320 Diaphragm Pumps

LA 320 Diaphragm Part Numbers

Part Number	Description	Comments
727312	Pump, Diaphragm 1/2 in.	Pump only, no filter, no regulator
373224	LA320 Pump, Diaphragm, No Mounting	Unmounted, with filter
370883	LA320-A1FNN Pump (20L)	Lid mounted (D=314 mm), with filter, no regulator
370871	LA320-B1FNN Pump (30L)	Lid mounted (D=400 mm), with filter, no regulator
373223	LA320-M Pump With Filter	Corrugated versions, unmounted
374425	LA320M-A1FNN	Corrugated versions, lid mounted (D=314 mm)
374300	LA320M-B1FNN	Corrugated versions, lid mounted (D=400 mm)
374426	LA320M-D1FNN	Corrugated versions, lid mounted (D=600 mm)
7302582	LA320-B1FSN, Diaphragm Pump (S=LA381)	Lid mounted (D=400 mm), with filter, LA 381 regulator
1069177	Pump Assembly, Dip Tube, One Zone, L.P.	LA320 pump + accessories
1069178	Pump Assembly, Dip Tube, Two Zone, L.P.	LA320 pump + accessories

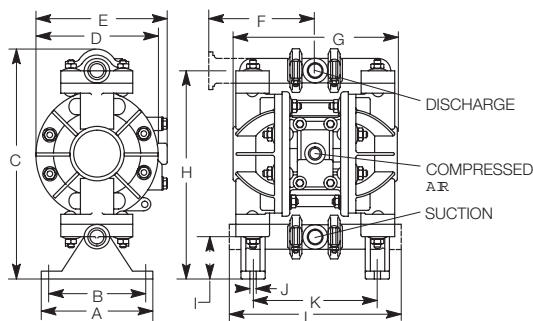
Service Parts

Part Number	Description	Comments
373403	Kit, Air Valve, LA320 Pump	For air motor
373402	Kit, Hydraulic, LA320 Pump	O-Rings, Balls, Diaphragm
312500	Gauge, Pressure, 0-6 bar, G 1/4	Air Pressure Gauge 0-6 bar, G1/4

Auxiliary Components

Part Number	Description	Comments
7300421	Level Detection Kit, Double Probe	For pump lid
7300379	Level Controller, Double Probe	Spare part, Double probe
7300388	Cable, Spiral, Probe to Control Box	Connection cable for probe
1070511	Hose, Assembly, 1 m, 1/2-20 Female, 3/8 ID T	Hose assembly

Dimensions



Dimensions	mm (in.)
A	140 (5.1)
B	124 (4.88)
C	286 (11.25)
D	152 (6)
E	164 (6.46)
F	132 (5.2)
G	191 (7.5)
H	256 (10.08)
I	51 (2)
J	8 (0.31)
K	156 (6.14)
L	213 (8.39)

Web Content



Pressurized Liquid Adhesive Containers

Description

Pressurized adhesive containers feature safety brackets, filter inserts, safety cam locks and mounting screws. Tanks are available in three capacities to meet specific volume demands. Containers provide 3.8, 19 or 38-liter (1, 5, 10 gal) capacities.

Features

- Wetted fittings and tank casing are made of stainless steel to resist corrosion.
- Safety valve releases overpressure tank buildup.
- Wide openings facilitate filling and cleaning.
- Straight-wall design speeds cleaning.
- Standard adhesive pre-filter helps ensure clean adhesive delivery.
- Safety cam locks and quick-release mounting handles provide handling ease.
- Safety-tesed units include safety certificate.



LA 105, LA 120, & LA 140 Pressure Containers

LA 105 Container

Provides 3.8 liter (1 gal) filling capacity for use with high-cost adhesives and lab testing.

LA 120 Container

Provides 19-liter (5 gal) filling capacity for standard adhesive delivery requirements.

LA 140 Container

Provides 38-liter (10 gal) filling capacity for high-volume operations.

NOTE: *Not saleable in Europe.*

LB 120 Container

Provides 15-liter filling capacity for standard adhesive delivery requirements; Non PTFE®

LB 140 Container

Provides 30-liter filling capacity for high-volume operations, Non PTFE

NOTE: *Optional level control is available for all units.*

Pressurized Liquid Adhesive Containers

Specifications

Parameter	LA 105	LA 120	LA 140	LB 120	LB 140
Operating pressure range mPa (psi)	0.05 to 0.38 (7.5 to 56)				
Operating pressure, maximum mPa (psi)	0.38 (56)				
Filling capacity L (gal)	3.785 (1)	18.972 (5)	37.85 (10)	15 (3.962)	30 (7.925)

Selection Chart

Part Number	Description	Comments
377260	Pressurized Adhesive Container, LA 105, 3.8 L (1 gal)	no level control
377261	Pressurized Adhesive Container, LA 120, 18.97 L (5 gal)	no level control
377264	Pressurized Adhesive Container, LA 120, 18.97 L (5 gal)	Includes level control
377262 ⁽¹⁾	Pressurized Adhesive Container, LA 140, 37.85 L (10 gal)	no level control
377265 ⁽¹⁾	Pressurized Adhesive Container, LA 140, 37.85 L (10 gal)	Includes level control
313388	Pressurized Adhesive Container LB120 15L non PTFE	no level control
313389	Pressurized Adhesive Container LB140 30L non PTFE	no level control
313390	Pressurized Adhesive Container, LB140, 30L, LB140	includes level control

⁽¹⁾ LA140 Not Saleable in Europe

Dimensions

Dimensions mm (in.)	LA 105	LA 120	LA 140
Diameter	228.6 (9)		304.8 (12)
Width (overall)	342.9 (13.5)		
Width (base)	245 (9.6)		321 (12.6)
Height	280 (11.6)	636.5 (25.1)	708.2 (27.9)

Web Content



LA 380 Pressure Regulators

Description

The LA 380 Series pressure regulators meet the need of fast pressure adjustment in cold glue application at variable speed. Accurate regulation of pressure during acceleration or deceleration means products receive the right amount of glue more consistently, which helps to eliminate product waste. Because the LA 380 has only one inlet and one outlet, it does not require any dump valve or drain pipe, providing cleaner operation and ease of mounting that lets you locate the regulator close to the source of your needs, which will reduce pressure drop and increase regulation accuracy.

- Regulator controls, corrects and helps provide accurate adhesive flow.
- Metal parts are made of stainless steel, providing long service life even with aggressive glues.
- All seals and lubricants have been approved for use by the tobacco industries and by the US FDA.
- The base plate is compatible with the WM 370 and WM 350 type regulators.
- Regulators can be used with both low and high pressure pumps, or can be connected to a central pumping system to regulate adhesive pressure delivered to each specific machine.



LA 380 Pressure Regulator

Specifications

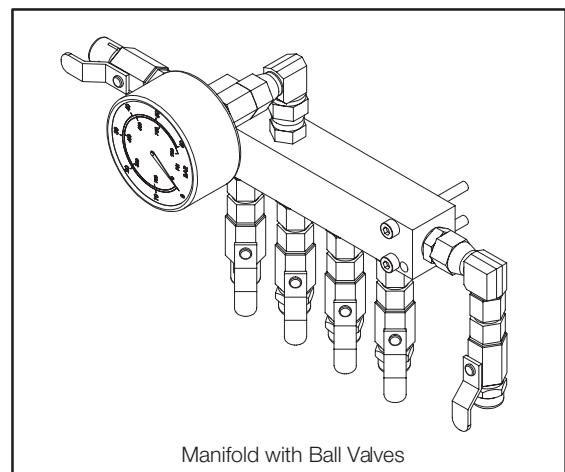
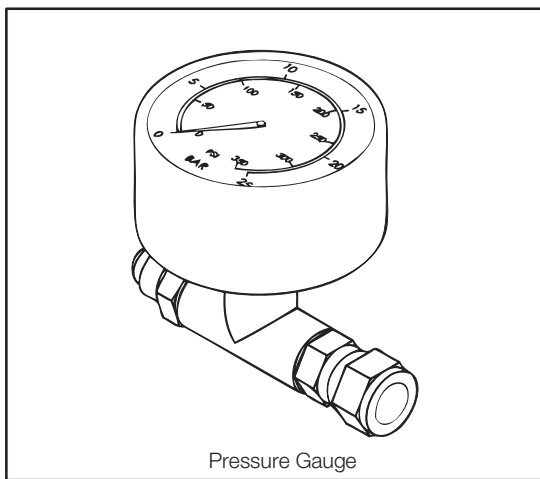
Parameter	LA 381	LA 382	LA 383
Hydraulic pressure range bar (psi)	0-7 (0-100)	0-18 (0-250)	0-48 (0-700)
Control air pressure range bar (psi)	0-6 (0-85)		
Adhesive line connections	1/2-20 UNF		
Compressed air connection	G 1/4 in.		
Ambient temperature range	1-50 °C (33-122 °F)		
Maximum relative humidity	95%		
Noise emission	< 70 dB (A)		
Weight kg (lb)	4.5 (10)	5 (11)	

LA 380 Pressure Regulators

Selection Chart

Part Number	Description
377912	LA 381 Pressure Regulator, 0–7 bar/100 psi
377894	LA 382 Pressure Regulator, 0–18 bar/250 psi
377970	LA 383 Pressure Regulator, 0–48 bar/700 psi

Accessories

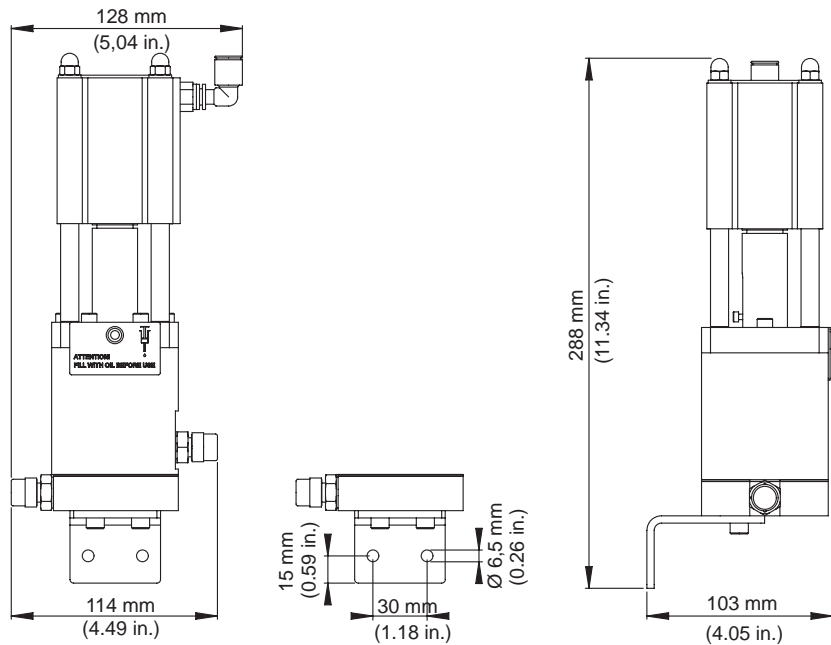


Component	P/N	Description
Pressure Gauge	377985	Kit, Pressure Gauge, 0–6 bar (90 psi), Liquid Filled, Stainless Steel With Tee Connection and Fittings
	377986	Kit, Pressure Gauge, 0–25 bar (350 psi), Liquid Filled, Stainless Steel With Tee Connection and Fittings
	377987	Kit, Pressure Gauge, 0–60 bar (900 psi), Liquid Filled, Stainless Steel With Tee Connection and Fittings
Manifold	7302298	Manifold, 1 in 8 out, With Nipples
	7302299	Manifold, 1 in 8 out + Nipples, Shutoff, Gauge
	7302303	Manifold, 1 in 4 out, With Nipples
	7302304	Manifold, 1 in 4 out + Nipples, Shutoff, Gauge
	7302328	Kit, Pressure Gauge, for Manifold
Lubricant	377933	Oil, FDA Approved, 10 ml With Syringe

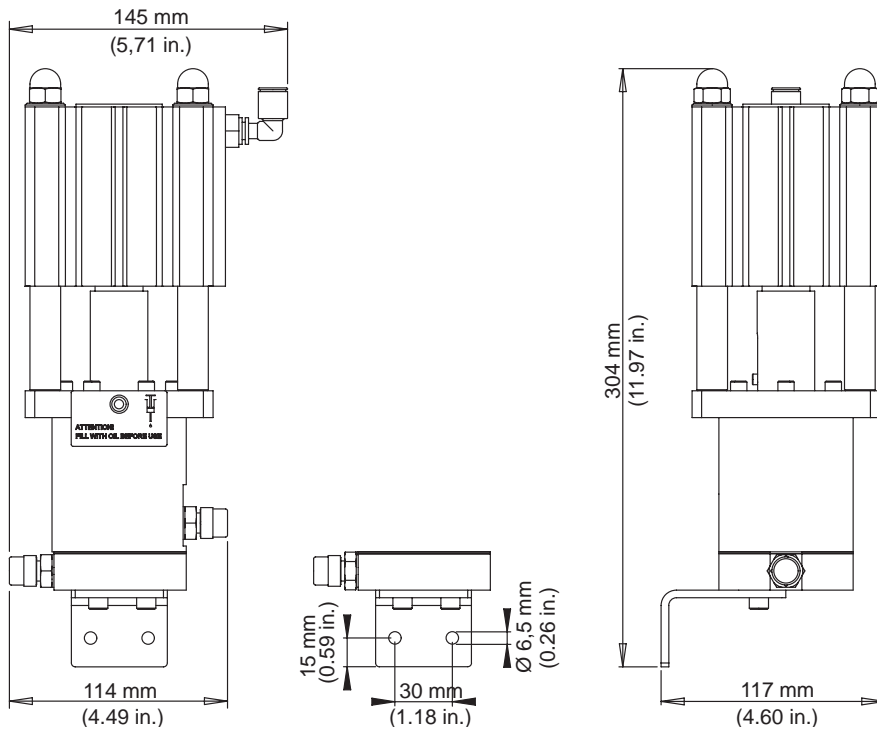
LA 380 Pressure Regulators

Dimensions

LA381



LA 382/383



LA 380 Pressure Regulators

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Web Content



WM 801 Series Electric Applicators

Description

High-cycling WM 801 Electric Applicators maximize flexibility and performance in high-speed, intermittent cold adhesive applications. A choice of applicator styles provides pattern flexibility in contact or production environments with frequent product changeovers.

- Compact applicators deliver high-performance in contact or non-contact operation with a cycle time of 3.0 milliseconds and a minimum service life of 500 million cycles.
- The WM 801-S is a “quick slide plate” applicator. It provides fastest possible pattern plate exchange during production. An additional slide plate allows preparation of one while another is in production, for an instant changeover.
- The WM 801-Q design allows quick-change versatility for contact nozzles or pattern plates. Interchangeable nozzles and pattern plates make changeovers quick and easy.
- Single-piece armature assembly and an efficient coil design permit fast, repeatable adhesive deposition with clean, accurate cut-off.
- Lightweight applicator-mount bracket simplifies installation and a vertical micro-adjust control facilitates critical applicator positioning. Bracket swings up and out to access applicator for cleaning or removal.
- Configurable pattern plates use flow dynamics to provide sharp cut-off, even at changing line speeds, while allowing the flexibility to meet specific deposition needs.
- Corrosion-resistant and stainless steel parts provide durability and help prolong applicator life.

NOTE: *The WM801 Series applicators can be driven by various devices. Refer to the Applicator Driver Selection Chart and the Applicator Driver Comparison Chart in the Controls section for more information.*



LA 801 Applicator with Attached Pattern Plate

WM 801 Series Electric Applicators

Specifications

Parameter	Specification
Working hydraulic pressure MPa (psi)	4.8 (700) maximum
Hydraulic hose connection	1/2-20 UNF
Minimum cycle time ⁽¹⁾ ms	3.0
Nozzle diameter range ⁽²⁾ : Contact mm (in.) Non-contact mm (in.)	0.3–1.0 (0.012–0.039) 0.3–0.7 (0.012–0.028)
Pattern plate sizes ⁽²⁾⁽³⁾ mm (in.)	45 x 34 (1.77 x 1.34) 45 x 45 (1.77 x 1.77) 45 x 60 (1.77 x 2.36)
Pattern plate hole diameters mm (in.)	0.5 (0.020) 0.7 (0.028) 1.0 (0.039)
Electrical service ⁽⁴⁾	Peak current 1.8 A, holding current 0.4 A
Weight kg (lb)	

⁽¹⁾ Cycle time based on an adhesive viscosity of 800 cps. Actual cycle time will vary depending on adhesive viscosity and characteristics.

⁽²⁾ Specify and purchase nozzles and pattern plates separately.

⁽³⁾ Pattern plates are a configurable product. Widths shown represent standard sizes only; custom sizes are available to meet specific application parameters.

⁽⁴⁾ Use with Nordson applicator driver products.

Selection Chart

Part Number	Description	Comment
7301316	Applicator, WM801-Q	without nozzle
7301317	Applicator, WM801-S, + Slide Plate 34 mm	with slide plate (no pattern plate included)
7302932	Applicator, WM801-S, + Slide Plate 45 mm	with slide plate (no pattern plate included)
7300104	WM801-S, Upgrade Kit (retrofit)	Upgrade WM801-Q or WM801-P to WM801-S

WM 801 Series Electric Applicators

Accessories

WM 801 Electric Applicator Nozzles

Part Number	Description	Comment
373076	Bead Nozzle, SE, 0.30 mm (0.012 in.) Dia	short-engagement, non-contact
373083	Bead Nozzle, SE, 0.35 mm (0.014 in.) Dia	
373077	Bead Nozzle, SE, 0.40 mm (0.016 in.) Dia	
373078	Bead Nozzle, SE, 0.50 mm (0.020 in.) Dia	
373079	Bead Nozzle, SE, 0.60 mm (0.024 in.) Dia	
373080	Bead Nozzle, SE, 0.70 mm (0.028 in.) Dia	
374760	Long Engagement Nozzle, SE, 0.30 mm (0.012 in.) Dia	long-engagement, non-contact
374762	Long Engagement Nozzle, SE, 0.35 mm (0.014 in.) Dia	
374764	Long Engagement Nozzle, SE, 0.40 mm (0.016 in.) Dia	
374766	Long Engagement Nozzle, SE, 0.45 mm (0.018 in.) Dia	
374768	Long Engagement Nozzle, SE, 0.50 mm (0.020 in.) Dia	
374770	Long Engagement Nozzle, SE, 0.60 mm (0.024 in.) Dia	
374772	Long Engagement Nozzle, SE, 0.70 mm (0.028 in.) Dia	
374774	Long Engagement Nozzle, SE, 1.0 mm (0.039 in.) Dia	
374741	Contact Nozzle, 0.30 mm (0.012 in.) Dia, Depth 0.2 mm	diameters as noted depth 0.2 mm
7301651	Contact Nozzle, 0.35 mm (0.014 in.) Dia, Depth 0.2 mm, Envelope	
374743	Contact Nozzle, 0.40 mm (0.016 in.) Dia, Depth 0.2 mm	
374745	Contact Nozzle, 0.50 mm (0.018 in.) Dia, Depth 0.2 mm	
374746	Contact Nozzle, 0.60 mm (0.024 in.) Dia, Depth 0.2 mm	
374747	Contact Nozzle, 0.70 mm (0.028 in.) Dia, Depth 0.2 mm	
374748	Contact Nozzle, 1.00 mm (0.039 in.) Dia, Depth 0.2 mm	
313353	Kit, Quick Change Plate, 34 x 45 mm	
313354	Kit, Quick Change Plate, 45 x 45 mm	
313355	Kit, Quick Change Plate, 60 x 45 mm	
312528	Quick Change Plate, 34 x 45 mm	plate only
312530	Quick Change Plate, 45 x 45 mm	
312533	Quick Change Plate, 60 x 45 mm	
371319	Quick Change Plate, 34 x 45 mm, High Flow	
371709	Quick Change Plate, 45 x 45 mm, High Flow	
371049	Slot Nozzle, 34 mm QCP	Needs part 313353
371066	Slot Nozzle, 45 mm QCP	Needs part 313354
375438	Slot Nozzle, 60 mm QCP	Needs part 313355
379960	Shim, Set Blind 4 x 0.2, 4 x 0.3, 4 x 0.4, QCPSN34	
379961	Shim, Set Blind 4 x 0.2, 4 x 0.3, 4 x 0.4, QCPSN45	
379966	Shim, Set Blind 4 x 0.2, 4 x 0.3, 4 x 0.4, QCPSN60	

WM 801 Series Electric Applicators

WM 801 Electric Applicator Brackets

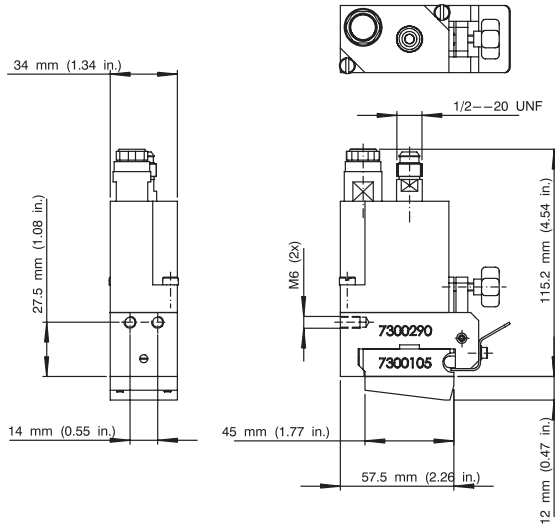
Part Number	Description
372829	Vertical Micro Applicator Mounting
373220	Vertical Macro Applicator Mounting
7301069	Bracket, Straight Line
7301613	Straight Line Bracket, Drive Side
371454	Adapter Block, 801, Straight Line
371365	Kit, Bracket, Bridge, Build Your Own

WM 801 Electric Applicator Cables

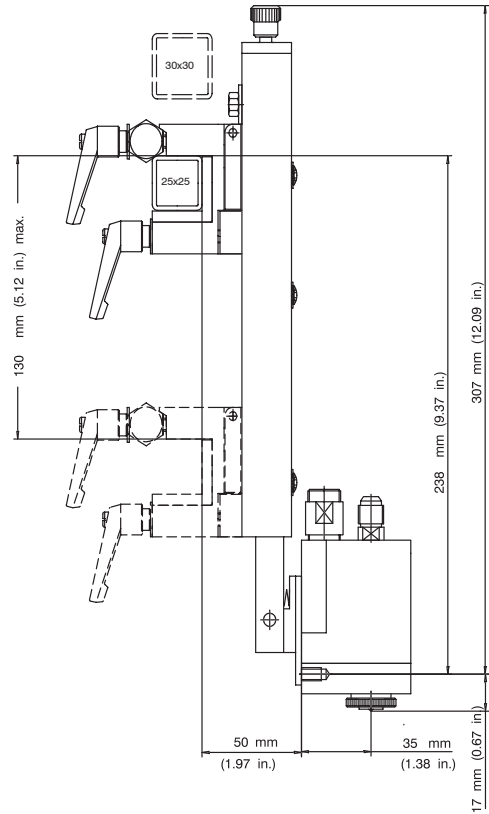
Part Number	Description	Comment
372442	Cable, WM408 to e-applicator	Cable, lockable WM 801 - WM 408 & H. board - 5 m
7302533	Cable, LogiComm to WM801, 2.5 m	
7302534	Cable, LogiComm to WM801, 5 m	
7302535	Cable, LogiComm to WM801, 10 m	
7302037	Cable, WM801 Hard-wired, 18M	hard wiring (EPC30)

WM 801 Series Electric Applicators

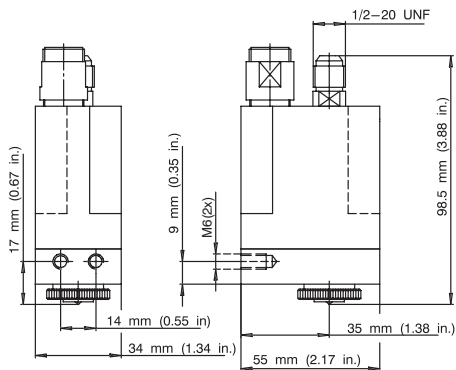
Dimensions



WM-801-S Electric Applicator



WM-801-S Electric Applicator with Bracket



WM-801-Q Electric Applicator

WM 801 Series Electric Applicators

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Web Content



LA 825 Series Electric Applicators

Description

High-speedcycling LA 825 series enhance efficiency and productivity of production process by maintaining an overall high and even bonding quality.

Features

- 250Hz continuous cycle rate
- Sharp cut-off in high frequent dotting mode and clean operation due to new ceramic nozzle insert
- Highly accurate and consistent flow control due to improved stroke adjustment

The LA 825RC with improved RC nozzle geometry offers sharp and cleaner cut-off helping improve product quality and reduce rejects. The elongated nozzle allows positioning closer to carriers, increasing production flexibility.

Independent stroke adjustment for each applicator further increases flexibility particularly when using multiple applicator configurations.

The LA 825 applicator's new design with a single piece stainless steel housing and superior engineered armature increases durability and helps to prolong service life and production uptime.

LA 825 series accommodate a wide range of adhesives and a choice of nozzle sizes is available to meet specific application requirements.

The applicators are also available with an LED for improved actuation visibility.



LA 825RC Applicator

LA 825 Series Electric Applicators

Specifications

Specifications apply to LA 825 and LA 825RC liquid adhesive applicators.

Parameter	Specification
Peak Voltage Duration	
LogiComm (Universal Applicator Driver)	Duration 0.8 ms @ 1.8 A
LA 4XX/LA 404-2	Duration 1.8 ms
WM 408 driver board	Duration 1.6 ms
Holding voltage (VDC)/ Holding current (A):	
LogiComm (Universal Applicator Driver)	0.6 A
LA 4XX/LA 404-2	5.0 VDC
Wm 408 driver board	0.6 A
Adhesive Connection	
LA 825	1/2-20 UNF
LA 825RC	1/2-20 UNF
Viscosity range ⁽¹⁾	0–1500 mPas (Linear to 1200 MPas)
Minimal uptime⁽²⁾	
LogiComm (Universal Applicator Driver)	0.8 ms
LA 4XX/LA 404-2	1 ms
Wm 408 driver board	1 ms
Minimal downtime⁽²⁾	
LogiComm (Universal Applicator Driver)	1 ms
LA 4XX/LA 404-2 , WM 408 driver board	1 ms
Adhesive Pressure Maximum LA 825 (LA 825 RC)	
LogiComm (Universal Applicator Driver)	18 bar/261 psi (23 bar/363 psi)
LA 4XX/LA 404-2	20 bar/290 psi (23 bar/363 psi)
WM 408 driver board	18 bar/261 psi (23 bar/363 psi)
Maximum Continuous Cycle Rate	
LogiComm (Universal Applicator Driver)	
LA 4xxx/LA 404-2	250 Hz
WM 408 driver board	250Hz
Safety rating	IP65

⁽¹⁾ Linearity is dependent upon the rheology of the adhesive. The viscosity is measured according to the Brookfield method.

⁽²⁾ Time is dependent upon the adhesive. Minimum uptime is related to bead length. Minimum downtime is related to the distance between two beads (the stitch).

LA 825 Series Electric Applicators

Parts and Accessories - LA 825 Applicator

Applicator for Use with All Controllers

Part Number	Description
7303130	Applicator, LA 825 - 1/2-20 UNF
7303140	Applicator, LA 825 LED - 1/2-20 UNF

Nozzles - Non-Contact, Short Engagement

Part Number	Description
373076	Bead Nozzle, SE, 0.30 mm (0.012 in.) Dia
373083	Bead Nozzle, SE, 0.35 mm (0.014 in.) Dia
373077	Bead Nozzle, SE, 0.40 mm (0.016 in.) Dia
373078	Bead Nozzle, SE, 0.50 mm (0.020 in.) Dia
373079	Bead Nozzle, SE, 0.60 mm (0.024 in.) Dia
373080	Bead Nozzle, SE, 0.70 mm (0.028 in.) Dia

Nozzles - Non-Contact, Long Engagement

Part Number	Description
374760	0.3 mm, Long Engagement
374762	0.35 mm, Long Engagement
374764	0.4 mm, Long Engagement
374766	0.45 mm, Long Engagement
374768	0.5 mm, Long Engagement
374770	0.6 mm, Long Engagement
374772	0.7 mm, Long Engagement

LA 825 Series Electric Applicators

Parts and Accessories - LA 825 Applicator *(contd)*

Options (Filter Valve)

Part Number	Description
7300530	Filter Assembly ,75 Mesh, 1/8 BSP-1/2-20 UNF
738203	Valve, Swivel Assembly, 1/2-20 X 1/2-20

Cables for LogiComm Applicators

Part Number	Description	Comments
7302530	Cable, LogiComm to LA 825-Cordset, 2.5 m	"LA820 LogiComm" and LA 825 to Logi-Comm (lengths as noted)
7302531	Cable, LogiComm to LA 825-Cordset, 5 m	
7302330	Cable, LogiComm to LA 825-Cordset, 7 m	
7302532	Cable, LogiComm to LA 825-Cordset, 10 m	
7301617	Cable, Splitter, Applicator, 7-Pin Serial	To drive two applicators LA820 LogiComm or LA 825 at one channel
7302978	Harness, 2 m, HP, Remote Conn. Box & LA-404-2	Wire harness, use in combination with ASC
7302979	Harness, 3 m, HP, Remote Conn. Box & LA-404-2	
7302980	Harness, 4.5 m, HP, Remote Conn. Box & LA-404-2	
7303190	Harness, 2 m, HP, LogiComm, GD200S	
7303191	Harness, 3 m, HP, LogiComm, GD200S	
7303192	Harness, 4.5 m, HP, LogiComm, GD200S	

LA 825 Series Electric Applicators

Parts and Accessories - LA 825RC Applicator

Applicators for Use with All Controllers

Part Number	Description
7303153	Applicator, LA 825RC, With Nozzle , 0.30 mm
7303154	Applicator, LA 825RC, With Nozzle , 0.40 mm
7303155	Applicator, LA 825RC, With Nozzle , 0.50 mm
7303163	Applicator, LA 825RC LED, With Nozzle , 0.30 mm
7303164	Applicator, LA 825RC LED, With Nozzle , 0.40 mm
7303165	Applicator, LA 825RC LED, With Nozzle , 0.50 mm

LA 825RC - Common Service Parts

Part Number	Description
7302883	Nozzle, Steel, LA 825RC, 0.30 mm
7302884	Nozzle, Steel, LA 825RC, 0.40 mm
7302885	Nozzle, Steel, LA 825RC, 0.50 mm
7304129	Needle and Nozzle Kit, Steel, LA 825RC, 0.30 mm
7304130	Needle and Nozzle Kit, Steel, LA 825RC, 0.40 mm
7304131	Needle and Nozzle Kit, Steel, LA 825RC, 0.50 mm

Options (Filter Valve)

Part Number	Description
7300530	Filter Assembly, 75 Mesh, 1/8 BSP-1/2-20 UNF
738203	Valve, Swivel Assembly, 1/2-20 X 1/2-20

Brackets for installations in Folder Gluers

Part Number	Description
7303070	Bracket, Folding Carton, With Horizontal Bar, LA82x, LA650
7303069	Bracket, Folding Carton, LA82x, LA650

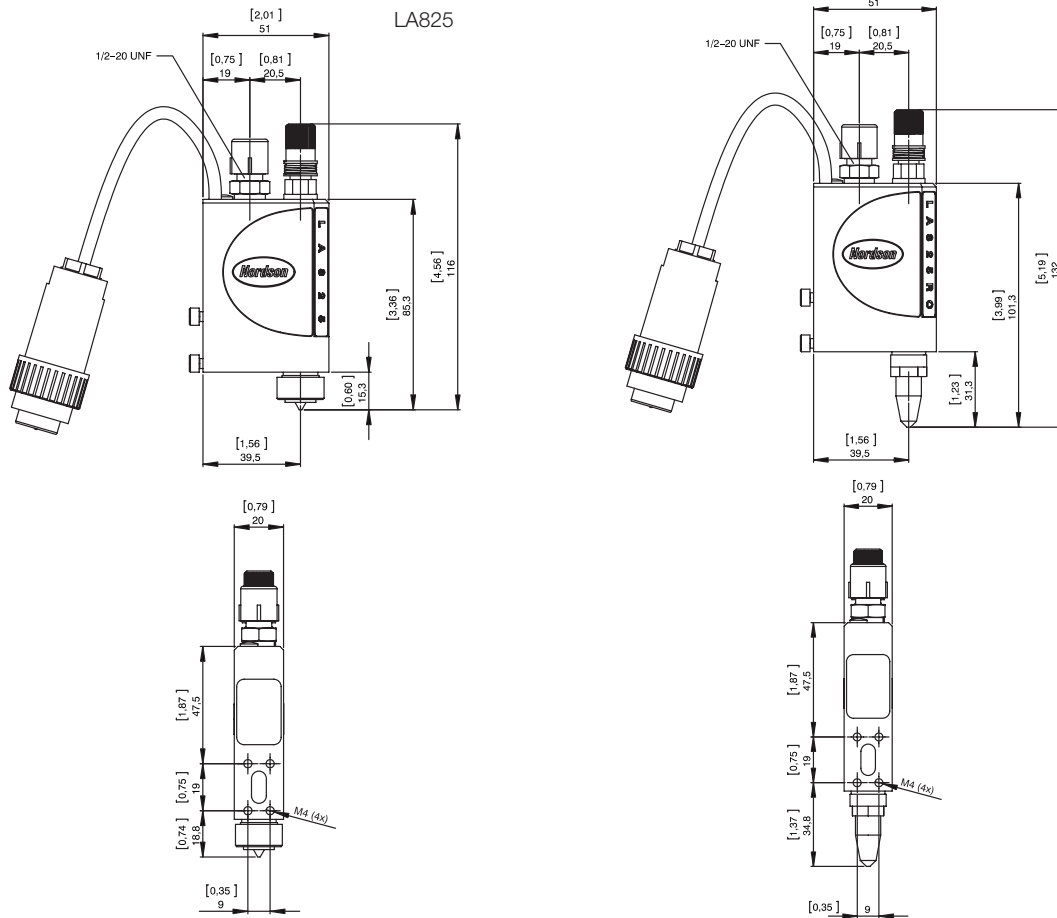
LA 825 Series Electric Applicators

Cables for LogiComm Applicators

Part Number	Description	Comments
7302530	Cable, LogiComm to LA 825-Cordset, 2.5 m	"LA 825 LogiComm" and LA 825 to LogiComm/LA404-2 (lengths as noted)
7302531	Cable, LogiComm to LA 825-Cordset, 5 m	
7302330	Cable, LogiComm to LA 825-Cordset, 7 m	
7302532	Cable, LogiComm to LA 825-Cordset, 10 m	
7301617	Cable, Splitter, Applicator, 7-pin Serial	to drive two applicators LA 825 LogiComm or LA 825 at one channel
7302978	Harness, 2 m, HP, Remote Conn. Box & LA-404-2	Wire harness, use in combination with ASC
7302979	Harness, 3 m, HP, Remote Conn. Box & LA-404-2	
7302980	Harness, 4.5 m, HP, Remote Conn. Box & LA-404-2	
7303190	Harness, 2 m, HP, LogiComm, GD200S	
7303191	Harness, 3 m, HP, LogiComm, GD200S	
7303192	Harness, 4.5 m, HP, LogiComm, GD200S	

LA 825 Series Electric Applicators

Dimensions



LA 825 Series Electric Applicators

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Web Content



Pneumatic Bead Applicators

LV 227 Pneumatic Bead Applicator

Description

- Air-open, air-close actuation resists adhesive build-up.
- Use for non-contact applications.
- Zero-cavity needle design provides precise cut-off and helps prevent adhesive curing on the nozzle.
- Integrated needle-stroke adjustment allows accurate adhesive volume control.
- Quick-disconnect air fitting speeds installation.
- Narrow body profile installs easily on most parent machinery.
- Stainless-steel needle resists corrosion from aggressive liquid adhesives.
- Includes mounted 24 VDC or 110 VAC solenoid.



LV227 Pneumatic Bead Applicator

Specifications

Parameter	LV 227
Maximum hydraulic pressure bar (psi)	48 (700)
Operating air pressure bar (psi)	4 to 6 (47-87)
Cycle time, minimum	13.5 ms
Nozzle diameter range	0.3-1.5 mm (0.012-0.059 in.)
Pattern coating width mm (in.)	n/a
Viscosity range maximum (cps)	3,500
Electrical service	230 VAC, 50/60 Hz, 24 VDC or 110 VAC solenoid
Weight kg (lb)	0.4 (0.88)

Pneumatic Bead Applicators

LV 227 Pneumatic Bead Applicator

Selection Chart

LV 227 Applicators

Part Number				Description	Comment
230 VAC	110 VAC	24 VDC	24 VDC chemical resistant		
373381	372849	372843	377805	0.3 mm (0.012 in.) Dia Nozzle	New design, air-open/air-closed
373382	372850	372844	377806	0.4 mm (0.016 in.) Dia Nozzle	
373383	372851	372845	377807	0.6 mm (0.024 in.) Dia Nozzle	
373384	372852	372846	377808	0.8 mm (0.031 in.) Dia Nozzle	
373385	372853	372847	377809	1.2 mm (0.047 in.) Dia Nozzle	
373386	372854	372848	377810	1.5 mm (0.059 in.) Dia Nozzle	

LV 227 Service Parts

Part Number	Description	Comment
372855	Kit, Needle Plus Nozzle And Seals, 0.3 mm (0.012 in.) Dia	Stainless steel, includes needle, nozzles and O-ring.
372856	Kit, Needle Plus Nozzle And Seals, 0.4 mm (0.016 in.) Dia	
372857	Kit, Needle Plus Nozzle And Seals, 0.6 mm (0.024 in.) Dia	
372858	Kit, Needle Plus Nozzle And Seals, 0.8 mm (0.031 in.) Dia	
372859	Kit, Needle Plus Nozzle And Seals, 1.2 mm (0.047 in.) Dia	
372860	Kit, Needle Plus Nozzle And Seals, 1.5 mm (0.059 in.) Dia	
372873	Seal Kit	
372874	Seal Kit, Chemical Resistant	
771138	Solenoid Valve 45A-L00-DDFJ-1KD, E302	Solenoid LV227/WM710, 24 VDC, 12.7W
771139	Solenoid Valve 45A-L00-DAAJ-1KD, E302	Solenoid LV227/WM710, 115 VAC
771142	Solenoid Valve 45A-L00-DABJ-1KD, E302	Solenoid LV227/WM710, 230 VAC
771307	Solenoid Valve 45A-L00-DDAJ-1KE, E302, 5.4W	Solenoid LV227/WM710, 24 VDC, 5.4W
7302226	Needle Assembly, LV227, 0.4 mm, Corrosion Resistant	

LV 227 Nozzle Covering

Part Number	Description
373568	Nozzle Cover With Solenoid
374026	Nozzle Cover Without Solenoid
374027	Solenoid, 24 VDC
374113	Air Manifold For Nozzle Cover
7302596	Kit, Nozzle Cover, Silicone, RC, 15 Pieces



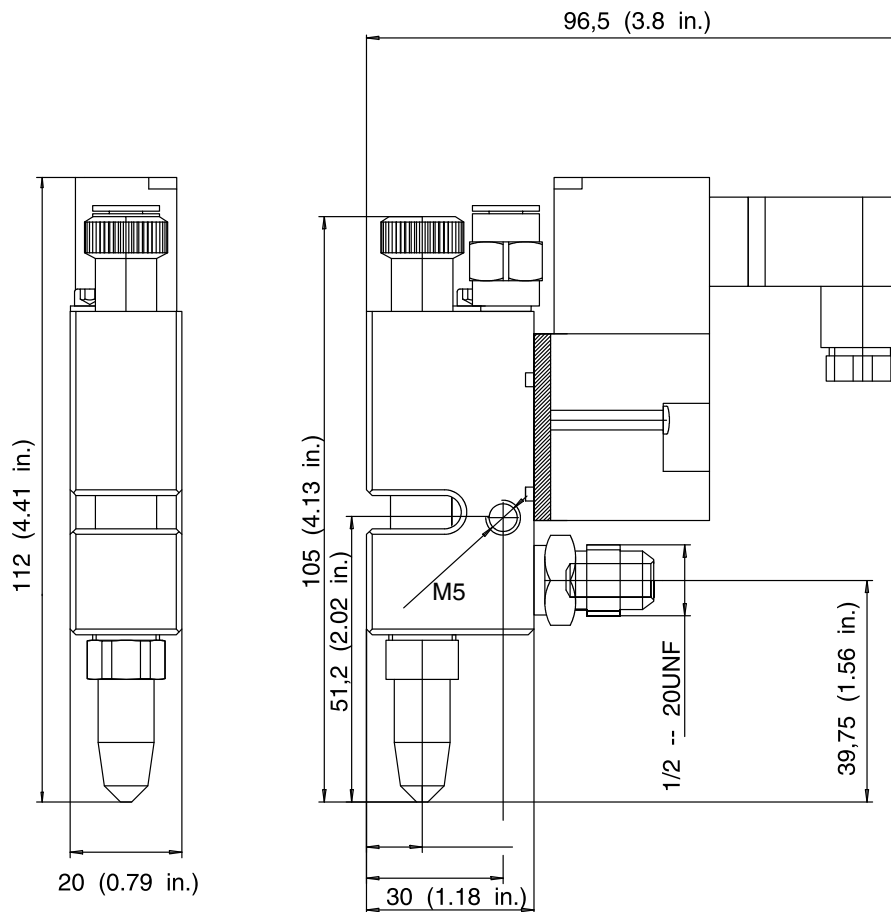
Pneumatic Bead Applicators

LV 227 Pneumatic Bead Applicator

LV 227 Cables

Part Number	Description	Comments
7302542	Cable, Pneumatic Applicator to LogiComm, Hard-wired, 10 m	also suitable for LA404-2, LA302 and WM408
7302539	Cable, LogiComm to Solenoid (16/16) Pneumatic Applicator, 24 VDC, 2.5 m	
7302540	Cable, LogiComm to Solenoid (16/16) Pneumatic Applicator, 24 VDC, 5 m	
7302541	Cable, LogiComm to Solenoid (16/16) Pneumatic Applicator, 24 VDC, 10 m	

Dimensions



Pneumatic Bead Applicators

LV 227 Pneumatic Bead Applicator

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Web Content



Pneumatic Liquid Adhesive Applicators

LA725 Pneumatic Liquid Adhesive Applicator

Description

LA 725 applicators are new, state-of-the-art pneumatic liquid adhesive applicators for use as non-contact and contact bead applicators as well as control valves in liquid adhesive slot applicators.

LA 725 and LA 725-S applicators feature superior module life and increased high-speed capability. Customers benefit from greater productivity, less maintenance and reduced downtime.

- Module – Longer Life – Snuff-back - Better Adhesive Cutoff**
 New, patented hydraulic seal technology (used in MiniBlue® II applicators) delivers operating life more than 2-3 times that of the previous WM 710 or any other competitive offering. The seal features silicone material which makes it resistant to most chemicals used in water-based adhesives. And, the snuff-back technology provides a superior cutoff performance.
- Solenoid – Improved Speed – Consistency – Operating Life**
 New high-speed solenoid technology improves speed, reduces cycle times and delivers longer life with consistent operation over the life of the valve.
- Advanced Module + Innovative Solenoid = Superior Performance**
 Combining the new module and solenoid technology produces:
 - High-speed cycle times of approximately 7.6ms (adhesive dependent)
 - Unmatched operational life since sealing technology is frictionless
 - Superior consistency and performance

LA 725 applicators dispense a standard range of water-based adhesives with viscosities up to 20,000 cps.

The new LA 725 applicator was developed to replace the WM 710 applicator to overcome the known limitations in some target markets regarding lifetime and wear out. Similar to the WM 710, the new applicator has a plunger resulting in a snuff-back effect, which is especially beneficial when used on slot nozzle applications.

Features

- Improved lifetime (2-3x longer) due to use of the new patented seal concept within the modular-designed cartridge.
- Fast cycle times (4.8 ms on/2.8 ms off) provide the opportunity for stitching and dotting application with a pneumatic valve.
- Quick exchange of application module, solenoid with housing or cartridge.
- Mechanically 100% backwards compatible with WM 710-Q & WM 710-S applicators.



LA 725 Pneumatic Liquid Adhesive Applicator



LA 725-S Pneumatic Liquid Adhesive Applicator

Pneumatic Liquid Adhesive Applicators

LA 275 Pneumatic Liquid Adhesive Applicators

Specifications

Parameter	LA 725
Operating Air Pressure	5 - 6 bar (75 - 87 psi)
Oiling of Compressed Air	not needed
Ambient Temperature Range	10 to 50° C (50 to 122° F)
Filtering of Compressed Air	particle filtering with 5µm or better
Minimum Glue Pressure	1 bar (14.5 psi)
Maximum Glue Pressure	42 bar (610 psi)
Minimum Glue Viscosity	>500 cps
Maximum Glue Viscosity	20,000 cps
Recommended PH Value ¹	PH 4 to 7
Solenoid Connector	M8 screwed
Control Voltage	24 VDC +/-10 % / 4 Watt NO SPIKED SIGNALS ALLOWED
Ingress Protection Class	IP 64
Air Pressure Connection	3 - 5 mm (0.118 - 0.196 in.)
Hose Connection Fitting	½ 20 UNF
Minimum On Time ²	4.8 ms
Minimum Off Time ²	2.8 ms

* Actual specification values will vary depending on adhesive type and application parameters.

¹ PH values outside the recommended range may result in corrosion or damage of seals, either of which will reduce the life and performance of the applicator. In case of unexpected corrosion due to adhesive used, the glue supplier needs to be contacted to identify an inhibitor that can be used as an additive to the glue to minimize corrosive effects.

² Actual cycle time will vary depending on adhesive viscosity and characteristic. The minimum "on time" is defined by the bead length, the minimum "off time" is defined by the gap between two beads.

Note: Adhesive used needs to be solvent-free

Note: 1 bar = 14.5 psi = 105Pa

Note: 0.4536 kg = 1 lb Note: $9 \times \text{°C}/5 + 32 = \text{°F}$ Note: 25.4 mm = 1 in.

Note: 1 cps = 1 cP = 1 mPa s = 1 mNs/m²

Pneumatic Liquid Adhesive Applicators

LA 275 Pneumatic Liquid Adhesive Applicators

Selection Chart

LA 725 and LA 725-S Applicators

Part Number	Description
7304677	Applicator, LA 725
7304700	Applicator, LA 725-S, with plate 34 mm

LA 725 and LA 725-S Modules

Part Number	Description
7304298	Module, complete, LA 725, d/a
7304301	Housing LA 725, d/a, w.valve
7304286	Cartridge, LA 725
7304747	Kit, O-ring, cartridge LA 725

LA 725 and LA 725-S Kits

Part Number	Description
7300105	Kit, slide plate, 34mm
7300106	Kit, slide plate, 45mm
7301577	Kit, slide plate, 60mm
7304810	Kit, quick change plate, 34 x 45 mm
7304820	Kit, quick change plate, 45 x 45 mm
7304830	Kit, quick change plate, 60 x 45 mm

LA 725 and LA 725-S Nozzles

Part Number	Description
313043	Bead nozzle, standard, 0.25 mm
313044	Bead nozzle, standard, 0.30 mm
313045	Bead nozzle, standard, 0.35 mm
313046	Bead nozzle, standard, 0.40 mm
313048	Bead nozzle, standard, 0.50 mm
313049	Bead nozzle, standard, 0.60 mm
313050	Bead nozzle, standard, 0.70 mm
313051	Bead nozzle, standard, 0.80 mm
313052	Bead nozzle, standard, 1.00 mm
313092	Contact nozzle 0.3 mm, 0.2 groove
313094	Contact nozzle 0.4 mm, 0.2 groove
313096	Contact nozzle 0.5 mm, 0.2 groove
313097	Contact nozzle 0.6 mm, 0.2 groove
313098	contact nozzle 0.7 mm, 0.2 groove
313099	Contact nozzle 1.0 mm, 0.2 groove

Connection Cables for Hardwiring

Part Number	Description
1100687	Cable assy, sol, m8, 3wire, 5 meters
1100958	Cable assy, sol, m8, 3wire, 10 meters
7304843	Cable assy, m8, 3wire with led, 10 m

Connection Cables for Use with LogiComm

Part Number	Description
7304844	Cable assy, m8, LogiComm to gun, 5 m with connectors
7304845	Cable assy, m8, LogiComm to gun, 10 m with connectors

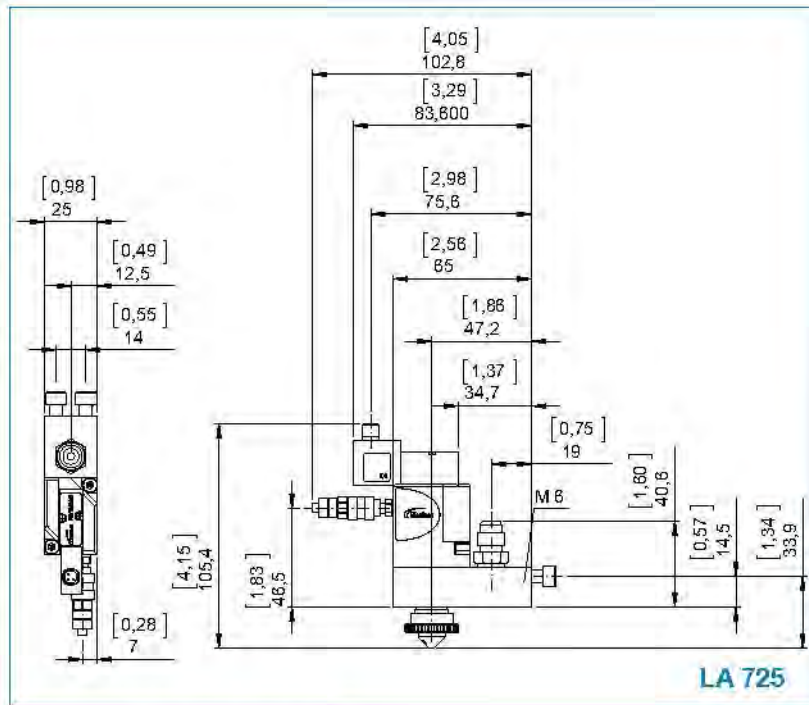
Connection Cables for Use with LA 404-2

Part Number	Description
7304846	Cable assy, m8, LA 404-2 to gun, 5 m with connectors
7304847	Cable assy, m8, LA 404-2 to gun, 10 m with connectors

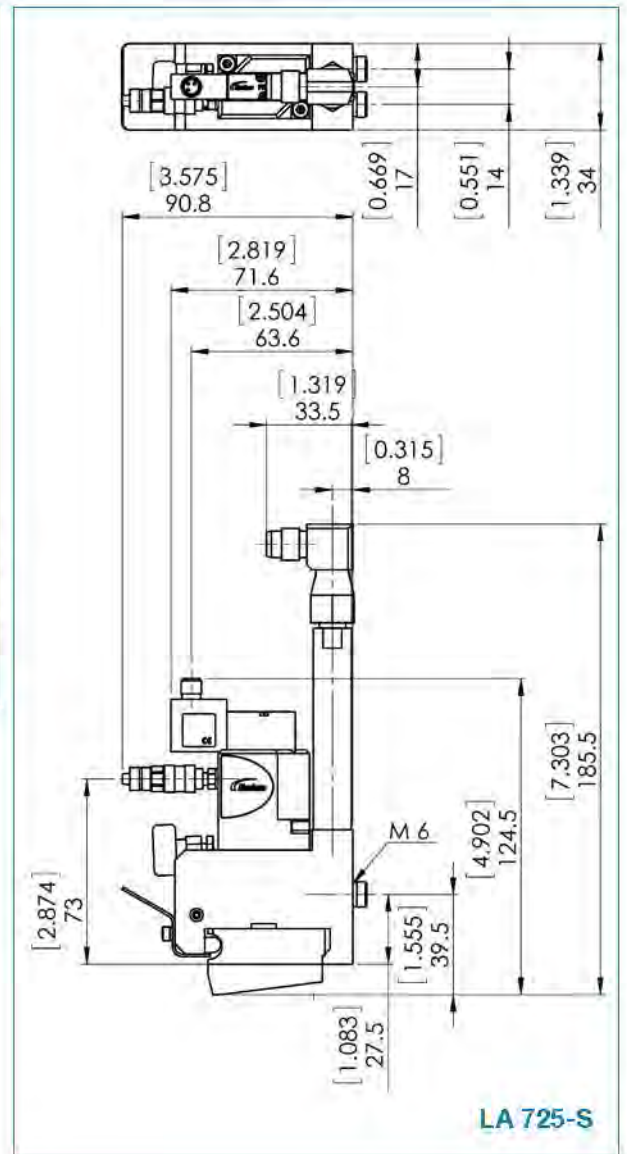
Pneumatic Liquid Adhesive Applicators

LA 275 Pneumatic Liquid Adhesive Applicators

Dimensions



Dimensions shown in mm [in.]



Web Content



Liquid Adhesive Coating Applicators

Description

Coating of liquid adhesives whether in paper converting or product assembly applications always ask for unique coating patterns and precise application depending on the substrate and adhesive used.

Nordson offers a range of Liquid Adhesive Coating Applicators featuring customized pattern die sets or coating slot nozzles.

Depending on the specific process parameters like application speed, adhesive viscosity and application patterns, Nordson provide the right Liquid Adhesive Coating Applicator which serves with evenness and high precision, whether it is an intermittent or continuous application.

Nordson offers standard slot nozzles, that quickly mount to a standard LA applicator via a Quick Change Plate (QCP) or the patented Slide Plate, as well as customized multi-module coating applicators which are offered as an engineered system.

Features

- Standard or customized applicators to meet specific needs
- Pneumatic or electric applicator modules available depending on process parameters (LA725 and WM801)
- Compact & Service friendly design
- Common or individual module control
- Optimized adhesive channel geometries provide even glue distribution for fast and precise application
- Choice of machined pattern sets or shims for higher flexibility



VarioCoat



WM 801 with attached pattern plate

Liquid Adhesive Coating Applicators

Specifications

Parameter	Specifications	
	WM 801	LA725
Applicator modules	WM 801	LA725
Actuation	Electric	Pneumatic
Min. cycle time /application speed ¹	3 ms	7.6 ms
Operating adhesive pressure	48 bar	25 bar
Adhesive viscosity	< 4500 cps	< 6000 cps
Application width		

¹⁾ Maximum cycles rate depends on applicator module, hydraulic and control air pressure, as well as adhesive viscosities.

²⁾ Wider slot nozzles are available upon request.

NOTE: Liquid Adhesive Multi-Module Slot Applicators are configurable and quoted per RFQ.

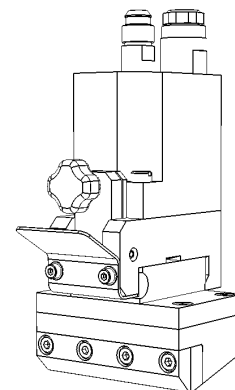
Pattern Plates

Configurable pattern plates provide complex pattern flexibility specific to individual deposition requirements. Please contact your Nordson representative for more information regarding pattern plates.

Liquid Adhesive Coating Applicators

Standard Slot Nozzles (w/o Applicator) for Use with LA725 and WM 801 Applicators

Part Number	Description	Comment
371049	Slot Nozzle, 34 mm QCP	Shims not included
371066	Slot Nozzle, 45 mm QCP	Shims not included
375438	Slot Nozzle, 60 mm QCP	Shims not included
379960	Shim Set, Blind, 4X0.2, 4X0.3, 4X0.4, QCPSN34	
379961	Shim Set, Blind, 4X0.2, 4X0.3, 4X0.4, QCPSN45	
379966	Shim Set, Blind, 4X0.2, 4X0.3, 4X0.4, QCPSN60	
313353	Kit, Quick Change Plate, 34X45 mm	
313354	Kit, Quick Change Plate, 45X45 mm	
313355	Kit, Quick Change Plate, 60X45 mm	
312528	Quick Change Plate, 34X45 mm	
312530	Quick Change Plate, 45X45 mm	
312533	Quick Change Plate, 45X60 mm	
371319	Quick Change Plate, 34X45 mm, high flow	
371709	Quick Change Plate, 45X45 mm, high flow	



WM 801 with 34 mm Slide plate and 60 mm slot nozzle

Special Slot Nozzles (w/o Applicator) for Use with QPC and Slide Plates

Part Number	Description	Comment
7301441	Slot Nozzle, 90 mm QCP60	blind shim
7302171	Slot Nozzle, 95 mm QCP60	90 mm coat; Wear resistant
7302185	Slot Nozzle, 70 mm QCP34	60 mm coat
7302414	Slot Nozzle, 34 mm, Ceramic	10 mm coat, Ceramic mouthpiece
7303356	Slot Nozzle, 135 mm (AB=130 mm) for QCP60	130 mm coat; Wear resistant

NOTE: Other customized Slot nozzles are available upon request

Liquid Adhesive Coating Applicators

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Web Content



Pneumatic Liquid Adhesive Applicators

VarioCoat™ Liquid Adhesive Dispensing Applicator

Description

VarioCoat applicators are new state-of-the-art pneumatic liquid adhesive applicators for contact slot applications using medium to high viscosity adhesives. VarioCoat applicators can be used for continuous or intermittent operation for a range of patterns from simple to complex.

VarioCoat applicators use patented LA 725 modules for reliability and superior performance. LA 725 modules have advanced hydraulic seal technology and frictionless operation to extend service life thereby reducing maintenance. Fast cycle times and snuffback technology improve productivity and uniformity of pattern appearance.

There are two variants of VarioCoat applicators. The VarioCoat-S is a single module applicator with either a slide plate or a quick-exchange plate for a maximum application width of 80 mm. The VarioCoat-M is a multi-module applicator, up to 22 modules, for application widths up to 600 mm.

VarioCoat applicators are fully configurable to meet specific customer requirements in a timely fashion.

Features

- Longer lifetime reduces downtime
- Quick-exchange modules and pattern plates increase productivity and decrease downtime
- Snuffback technology provides clean cutoff and pattern consistency
- Reliable adhesive delivery optimizes adhesive use and reduces waste



VarioCoat-M Applicator



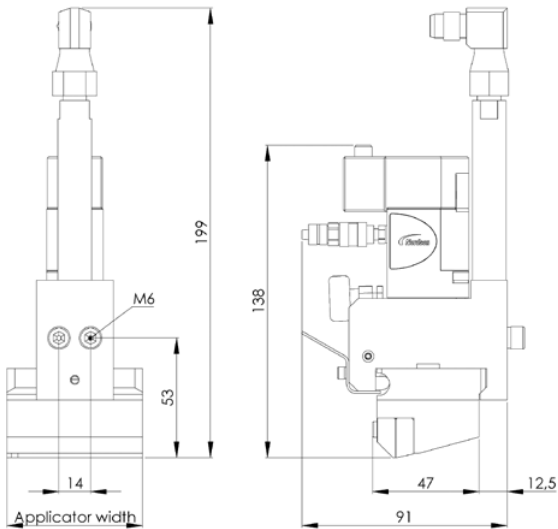
VarioCoat-S Applicator

Pneumatic Liquid Adhesive Applicators

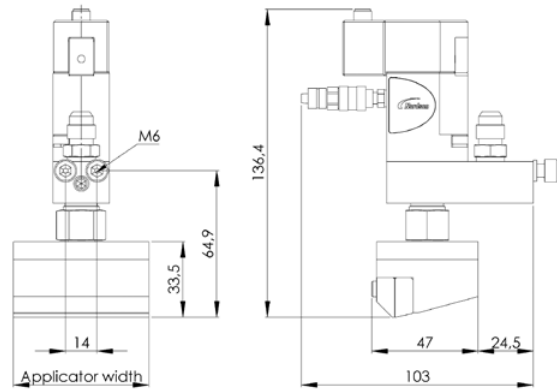
VarioCoat™ Liquid Adhesive Dispensing Applicators

Dimensions

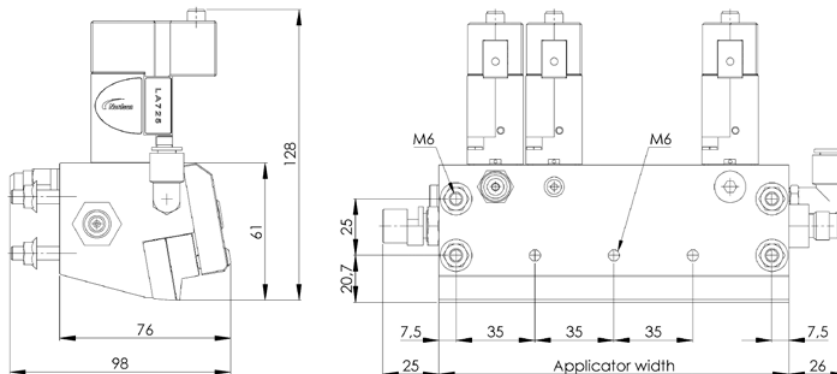
VarioCoat-S
with slide plate



VarioCoat-S
with Quick Change Plate



VarioCoat-M



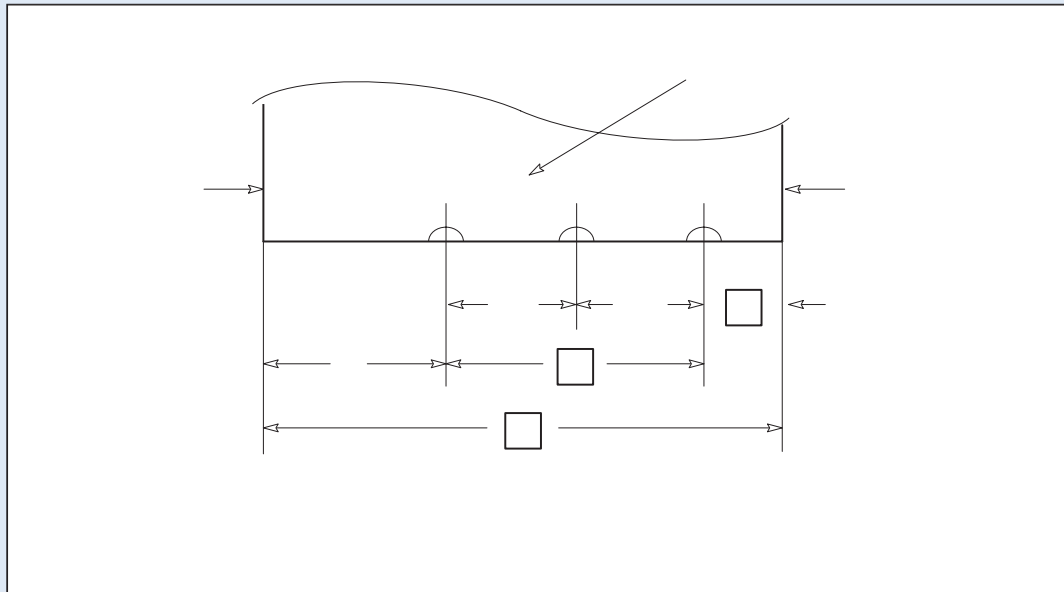
Pattern Plates

Description

Configurable pattern plates provide complex pattern flexibility specific to individual deposition requirements. We only recommend this for very complex patterns.

Various Pattern Plate options are available through your Nordson Representative. Please contact them for assistance.

Sample Pattern Plate:



Quick Change Kits

Part Number	Description	Comment
313353	34 x 45 mm	Includes guide.
313354	45 x 45 mm	
313355	60 x 45 mm	

Pattern Plates

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Web Content



LS 373 Pneumatic Spray Applicator

Description

The pneumatic spray applicator features an innovative nozzle design that delivers controlled spray patterns. Individual adjustment screws allow control of air pressure and adhesive volume.

- Dual air-spray capabilities provide wider spray patterns, even with higher viscosity adhesives.
- Needle design permits use of a wide viscosity range.
- Integrated needle-stroke adjustment allows accurate adhesive volume control.
- Quick-disconnect air fitting speeds installation.
- Narrow body profile installs easily on most parent machinery.
- Use of nickel-plated steel resists corrosion from aggressive liquid adhesives.
- Includes mounted solenoid.
- Includes 12.7 mm (0.5 in.) round mounting clamp for easy installation.

Specifications

Parameter	Specification
Operating air pressure	4–6 bar (57–87 psi)
Max. adhesive operating pressure	48 bar (57–87 psi)
Cycle time, minimum	6.5 ms
Solenoid Valve Control voltage / power	24 VDC, - 8.5 W 110 VAC 220 VAC
Air connection	8 mm (0.314 in.)
Adhesive connection	1/8 BSP-1/2-20 UNF SS
Minimum up-time ⁽¹⁾	6.5 ms
Minimum down-time ⁽¹⁾	9 ms
Weight	1.1 kg (2.42 lbs)
Dimensions	
Width	85 mm (3.346 in.)
Height	190 mm (7.400 in.)
Depth	120 mm (4.724 in.)
⁽¹⁾ Times measured using:	
Adhesive viscosity	700 mPa s
Control air pressure	5 bar
Solenoid valve	24Vdc/ 8.5 W

⁽¹⁾ Maximum achievable pattern width depends on adhesive characteristics.

LS 373 Pneumatic Spray Applicator

Parts and Accessories

LS 373 Applicators

Part Number				Description
24 VDV	24 VDC Corrosion Resistant	220 VAC	110 VAC	
313423	7303021	373671	373674	0.3 mm (0.012 in.) Dia Nozzle
313424	7303022	314851	373675	0.6 mm (0.024 in.) Dia Nozzle
313425	7303023	373672	373676	1.2 mm (0.047 in.) Dia Nozzle
313426	7303024	373673	373677	2.0 mm (0.079 in.) Dia Nozzle

LA 373 Needle and Nozzle Kits

Part Number	Orifice Size	Comment
264481	Nozzle Set, 0.3 mm (0.012 in.) Diameter	Kit, needle & nozzle, LS 373 (sizes as stated)
257499	Nozzle Set, 0.6 mm (0.024 in.) Diameter	
257722	Nozzle Set, 1.2 mm (0.047 in.) Diameter	
264482	Nozzle Set, 2.0 mm (0.079 in.) Diameter	
7302833	Kit, Nozzle, 0.3 mm (0.012 in.) Diameter, Corrosion Resistant	Needle and nozzle kit, wear resistant needle
7302834	Kit, Nozzle, 0.6 mm (0.024 in.) Diameter, Corrosion Resistant	
7302835	Kit, Nozzle, 1.2 mm (0.047 in.) Diameter, Corrosion Resistant	
7302836	Kit, Nozzle, 2.0 mm (0.079 in.) Diameter, Corrosion Resistant	

Air Spray Caps

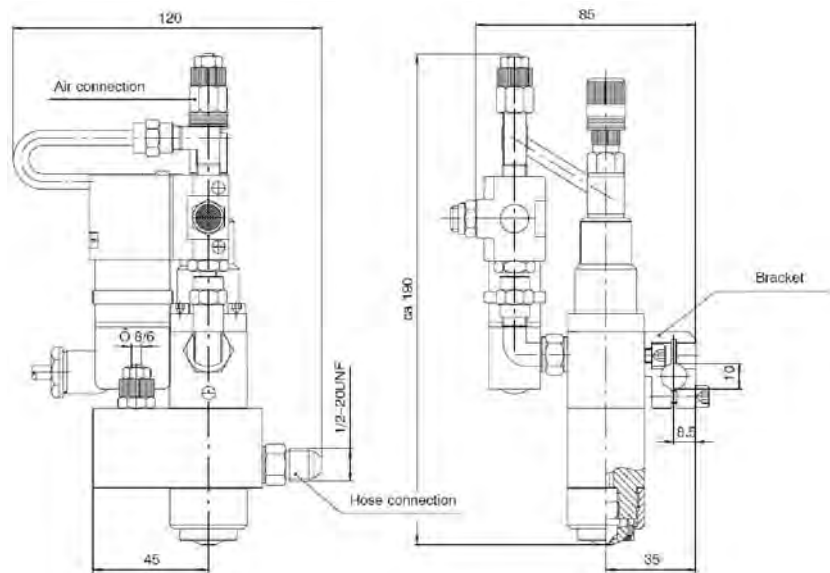
Part Number	Description
254354	0.3–0.6 mm (0.012/0.024 in.) Dia, Standard (cw)
254656	1.2–2.0 mm (0.047/0.079 in.) Dia, Standard (cw)
315698	0.3–0.6 mm (0.012/0.024 in.) Dia, Special (ccw)
315699	1.2–2.0 mm (0.047/0.079 in.) Dia, Special (ccw)

Seal Kits

Part Number	Description
257209	Seal Kit
257501	PTFE Seal Kit

LS 373 Pneumatic Spray Applicator

Dimensions



LS 373 Pneumatic Spray Applicator

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High Pressure Hoses

Nordson liquid adhesive high pressure hoses use corrosion-resistant stainless steel fittings and a specially engineered plastic tubing that does not allow air to reach the adhesive material, which minimizes changes to the adhesive that could adversely affect system performance. All liquid adhesive high pressure hoses are fitted with 1/2-20 UNF fittings.

Part Number	Length m (ft.)
312255	0.15 (0.5)
312256	0.25 (0.8)
312257	0.5 (1.6)
312258	0.75 (2.5)
312259	1.0 (3.3)
312264	1.25 (4.1)
312265	1.5 (4.9)
312266	2.0 (6.6)
312267	2.5 (8.2)
312268	3.0 (9.8)
312270	4.0 (13.1)
312271	5.0 (16.4)
312272	5.5 (18.0)
312273	6.0 (19.7)
312274	7.0 (23.0)
312275	8.0 (26.3)
373066	10.0 (32.8)
312263	12.0 (39.4)
373960	18.0 (59.0)

NOTE: Other sizes are available on request.

PTFE Metal Braided Hoses

Part Number	Description
842072	Hose, PTFE, 0.25 ID, 1.83 m (6 ft.)
842096	Hose, PTFE, 0.25 ID, 2.44 m (8 ft.)
842120	Hose, PTFE, 0.25 ID, 3.04 m (10 ft.)
1078713	Hose, PTFE, 0.25 ID, 4.56 m (16 ft.)
842300	Hose, PTFE, 0.25 ID, 7.61 m (25 ft.)

High Pressure Hoses

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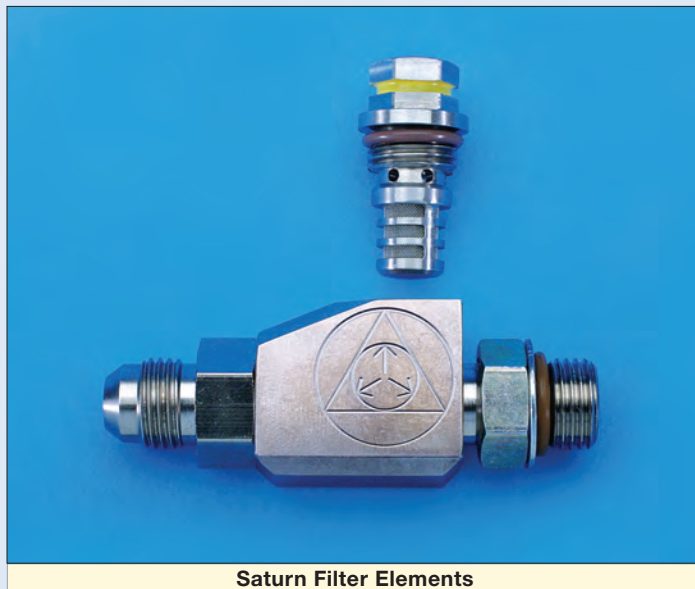
In-Line Filters

Saturn In-Line Filters

The Saturn in-line filter assembly delivers easy access and simplifies filter maintenance. Used to reduce nozzle clogging and subsequent downtime, Saturn in-line filters can be easily and efficiently replaced as part of routine, scheduled maintenance.

The in-line filter assembly can be installed in straight, 45 and 90 degree configurations to permit filter accessibility. The inside-out disposable filter is replaced without having to disconnect the hose from the applicator. The disposable filter is a threaded element that simply screws in or out for easy removal or installation on a pressure-purged hotmelt adhesive system. Use of color-coded rings allows you to select the correct replacement filter every time.

- Filter replacement without disconnecting the hose and applicator.
- Filter can be positioned for easy accessibility.
- Disposable filter element.
- Inside-out flow traps contaminants for discard with the disposable filter cartridge.
- Color-coded Saturn identification rings for accurate filter replacement.



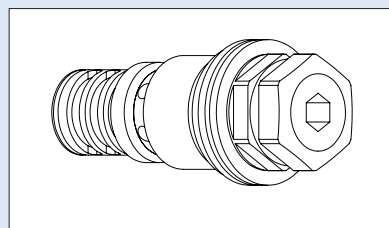
Saturn Filter Elements

Specifications

Parameter	Specification
Maximum working pressure	103.4 bar (1500 psi)
Maximum recommended adhesive viscosity	10,000 cps

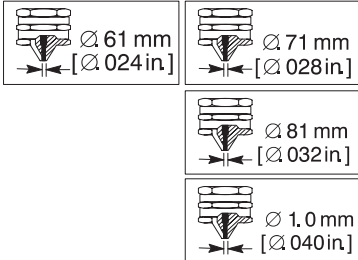
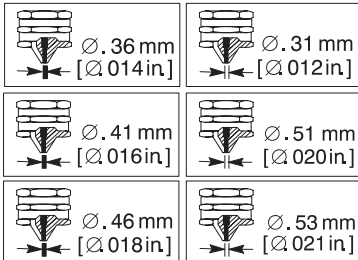
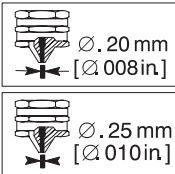
Saturn Integrated Applicator Filters

The Saturn integrated applicator filter is inserted into a specially-ported applicator manifold to ensure uninterrupted adhesive flow by trapping particles that may cause nozzle clogging. It is designed for use with low viscosity (under 10,000 centipoise) adhesive.

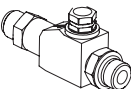
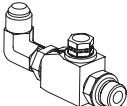
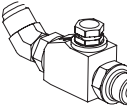



In-Line Filters

Part Numbers

If the Nozzle Orifice Diameter is...	...use a filter with a...
	<p>50 Mesh (.30 mm) Screen (Red ring)</p>
	<p>100 Mesh (.15 mm) Screen (Gold ring)</p>
	<p>200 Mesh (.07 mm) Screen (Purple ring)</p>

Saturn In-Line Filters

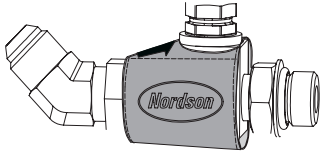
Component	Part Number	Description
 <p>Straight</p>	1007033	0.30 mm (0.0117 in.), 50 Mesh
	1007034	0.15 mm (0.0059 in.), 100 Mesh
	1007035	0.07 mm (0.0029 in.), 200 Mesh
 <p>90 degree</p>	1007230	0.30 mm (0.0117 in.), 50 Mesh
	1007231	0.15 mm (0.0059 in.), 100 Mesh
	1007232	0.07 mm (0.0029 in.), 200 Mesh
 <p>45 degree</p>	1007233	0.30 mm (0.0117 in.), 50 Mesh
	1007234	0.15 mm (0.0059 in.), 100 Mesh
	1007235	0.07 mm (0.0029 in.), 200 Mesh
 <p>No Filter Inlet Fitting</p>	1120049	0.30 mm (0.0117 in.), 50 Mesh
	1120050	0.15 mm (0.0059 in.), 100 Mesh
	1120051	0.07 mm (0.0029 in.), 200 Mesh

In-Line Filters

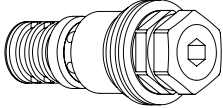
Replacement In-Line Filters

Part Number	Description
1007372	Filter Element, 0.30 mm (0.0117 in.), 50 Mesh, 5 Pack
1007373	Filter Element, 0.15 mm (0.0059 in.), 100 Mesh, 5 Pack
1007374	Filter Element, 0.07 mm (0.0029 in.), 200 Mesh, 5 Pack

In-Line Filter Accessories

Component	Part Number	Description
	1056296	Saturn In-line Filter Insulator Kit

Saturn Integrated Applicator Filter

Component	Part Number	Description
	1123661	Kit, Filter, 50 Mesh, Saturn, 5 pack
	1123662	Kit, Filter, 100 Mesh, Saturn, 5 pack
	1123663	Kit, Filter, 200 Mesh, Saturn, 5 pack

In-Line Filters

Heated In-line Filters

Inserted between the hose and applicator, the heated in-line filter provides final adhesive filtering immediately before applicator deposition. It helps balance temperature swings in extreme environments and removes char or contaminants that can cause nozzle clogging. The filter consists of a large surface-area filter screen assembly contained in a heated aluminum body.

- Use with high-viscosity hot melts over 10,000 centipoise.
- Cartridge heater and button thermostat provide independent heat and temperature control. Nordson does not recommend combining the thermostatically-controlled filter with RTD-style hoses and applicators.
- Choice of thermostat settings ranges from 50° to 230°
- °C (120 to 450 °F) to maintain operating temperature consistency throughout the system. Specify required thermostat when ordering; otherwise, a 175 °C (350 °F) thermostat is standard.
- Selection of filter screen mesh sizes matches application requirements to maximize filtration. Each filter includes a 0.15 mm (0.006 in.) screen. Order different mesh sizes separately.
- Filter screen is readily accessible for removal and cleaning. Drain valve flushes loose contamination out of the body during filter-screen removal.
- Filter is wired in parallel with the applicator and includes two armored cordsets; one attaches the filter to the hose, while the other replaces the standard applicator cordset and attaches the applicator to the filter.
- When used with H-200 applicators and Series 2000 applicators, discard the upper filter cordset (P/N 242077) and replace with the applicator cordset to connect the filter to the hose. The lower filter cordset connects the filter to the applicator.

Specifications

Parameter	Specification
Electrical service	240 VAC 50/60 Hz 120 VAC, 50/60 Hz (includes 145 W heater)

Parts and Accessories

Part Number	Description	Comment
309100	Filter, 240 VAC	
803124	Filter, 120 VAC	Includes heater, 145 W, 120 VAC, P/N 803123.
803231	Filter, Drum Melters, 240 VAC	Attaches to 5/16 in. hose fitting at manifold and uses 5/8 in. hose fitting on the output side.
249954	Filter Screen, 0.05 mm (0.002 in.)	
161133	Filter Screen, 0.10 mm (0.004 in.)	
161130	Filter Screen, 0.15 mm (0.006 in.)	Shipped with filter.
161134	Filter Screen, 0.23 mm (0.009 in.)	

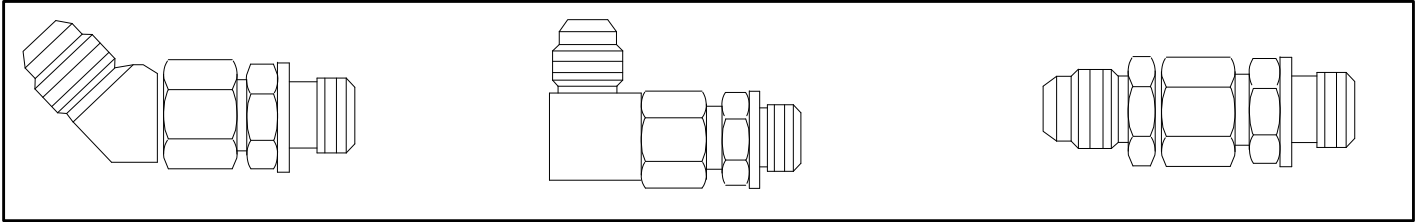
Dimensions

Dimension	mm (in.)
Height	141 (5.6)
Depth	64 (2.5)
Width	51 (2.0)



In-Line Filters

Non-Heated In-Line Filters



Description	Fitting Type	
	O-Ring	1/4 NPT
In-line Filter Assemblies		
Straight Filter, 0.28 mm (0.011 in.), 50 Mesh	274290	271658
Straight Filter, 0.15 mm (0.006 in.), 100 Mesh	274291	271659
Straight Filter, 0.08 mm (0.003 in.), 200 Mesh	274292	271595
45° Filter, 0.28 mm (0.011 in.), 50 Mesh	274989	804123
45° Filter, 0.15 mm (0.006 in.), 100 Mesh	274990	274988
45° Filter, 0.08 mm (0.003 in.), 200 Mesh	274991	804125
90° Filter, 0.28 mm (0.011 in.), 50 Mesh	274287	273415
90° Filter, 0.15 mm (0.006 in.), 100 Mesh	274288	273414
90° Filter, 0.08 mm (0.003 in.), 200 Mesh	274289	273413
In-line Replacement Filters		
Filter Element, 0.28 mm (0.011 in.), 50 Mesh	—	271598
Filter Element, 0.15 mm (0.006 in.), 100 Mesh	—	271599
Filter Element, 0.08 mm (0.003 in.), 200 Mesh	—	271600

In-Line Filters

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Web Content



Solenoid Valves

Saturn Solenoid Valves

Saturn® Platinum Solenoid for Single or Independent Air Actuated Applicators

New high-speed Saturn Platinum (SP) solenoid technology improves speed, reduces cycle times and delivers longer life with consistent operation over the life of the valve.

Saturn Platinum solenoid reduces the performance gap between pneumatic and electric applicators.

Maximum speed and response is achieved when one solenoid operates one module. Single or Independent Actuated module applicators will benefit the most using the Saturn Platinum Solenoid.

NOTE: Spiked voltage of any type will destroy the solenoid electronics. Only a constant 24 VDC should be use



Saturn Platinum Solenoids

Solenoid Valves

Saturn Solenoid Valves

Saturn Platinum Solenoids

Application	Valve Type	Inner Ring	Outer Ring	Applicator Connection Ports	Kit PN	PN on Solenoid (for reference only)
MiniBlue II, AO/AC, Single Module	4 way, 5 port, Reverse Function	Yellow	White	2 ports, M5, 10mm ctrs	1095800	1095809
MiniBlue II, AO/AC, Multi Module	4 way, 5 port, Reverse Function	Yellow	Purple	2 ports, 1/8 NPT, 15mm ctrs	1120826	1120824
BestChoice, AO/SC, Single Module	3 way, 3 port, Standard Function	Yellow	White	1 port, 1/8 NPT	1095801	1095810
BestChoice, AO/AC, Single Module	4 way, 5 port, Standard Function	Yellow	White	2 ports, 1/8 NPT, 15mm ctrs	1095802	1095811
BestChoice, AO/AC or AO/SC, Multi Module	4 way, 5 port, Standard Function	Yellow	Purple	2 ports, 1/8 NPT, 15mm ctrs	1120875	1120878

Yellow = 24VDC

White = Single Module

Purple = Multi Module

Spare Parts

Solenoid Cabling

Part Number	Description	Notes
1100687	Cable Assy, Solenoid, M8, 3-wire, 5 m	
1100688	Cable Assy, Solenoid, 90 deg, M8, 3-wire, 5 m	
1100958	Cable Assy, Solenoid, M8, 3-wire, 10 m	
1100959	Cable Assy, Solenoid, 90 deg, M8, 3-wire, 10 m	
1121990	Kit, Cable, Splitter	Connects one extension cable to 2 solenoids

Solenoid Accessories and Spare Parts

Part Number	Description	Kit Contents
734262	Muffler, M5	
1100452	Muffler, 1/8 in. NPT, Plastic, Compact	
1058058	Muffler, 1/8 in. NPT, Polyethylene	
1106321	Muffler Restrictor Service Kit	Used when ashesvie viscosity is below 700 cps
1082500	Muffler, R1/8	Used when reduced noise is required (<85 dB)
1106320	Applicator Solenoid Field Wireable M8 Female Connector	
1123073	Kit, Replacement Electrical Connect	10 pieces - Solenoid M8 connectors

Solenoid Valves

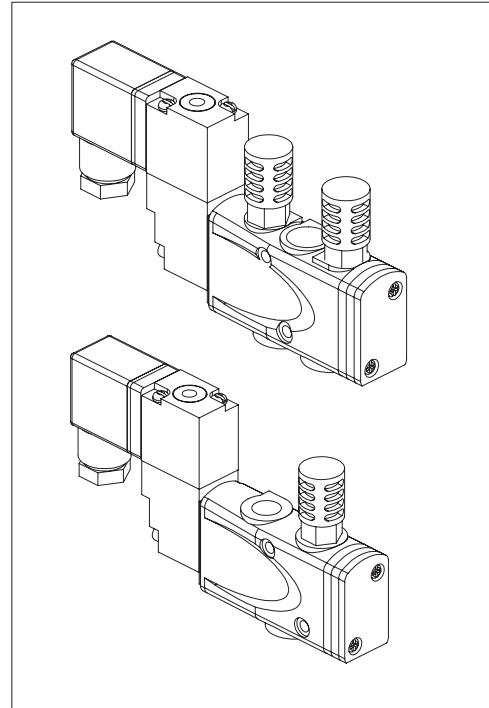
Saturn Solenoid Valves

Standard Saturn Solenoid Valves for Multi-Module Common Air Applicators

Saturn solenoids are designed specifically for Nordson pneumatic hot melt adhesive dispensing applicators. These balanced, 3- and 4-way piloted valves deliver maximum shifting force in both directions by alternately supplying air to each end of the spool. Equal shifting forces at energization and de-energization result in resistance-free shifting, increased reliability and faster, more consistent response times.

Color-coded rings allow you to select the correct replacement solenoid every time. Rings are a trademark of Nordson Corporation and are your assurance of genuine Nordson quality.

Saturn solenoids are compatible with all Nordson pneumatic air-open/air-close (AO/AC) and air-open/spring-close (AO/SC) applicators.



- Meets Nordson requirements for hot melt adhesive application, providing peak dispensing applicator performance.
- Improved valve life and reduced maintenance.
- High-temperature seals and components withstand temperatures of 93 °C (200 °F).
- Eliminates guesswork and minimizes risk. Saturn solenoids are designed specifically for use with Nordson pneumatic hot melt dispensing applicators.
- Color coded rings identify voltage and air flow.
- Durable, high-temperature seals deliver excellent performance in demanding applications.
- Air flow supports single and multi-module applicator applications.

Solenoid Valves

Saturn Solenoid Valves

Saturn Ring Identification

First Ring Color	Voltage
Yellow	24 VDC
Green	12 VDC
Blue	24 VAC
Brown	48 VAC
Red	100 VAC
Beige	120 VAC
Gold	200 VAC
Grey	240 VAC
Second Ring Color	Air Flow (Cv)
Blue	1.0
Green	1.5
White	0.18

Platform Comparisons

Description	Large Cv Saturn Solenoid	Small Cv Saturn Solenoid	Saturn Platinum Solenoid
Cycle Life	40 million cycles	40 million cycles	100 million cycles
Minimum On/Off Time	15 ms	15 ms	3 ms
Pattern Variation Over Life of Valve	2.5 ms	2.5 ms	1 ms
Cv Value	1.0 to 1.5	.18	.25
Amps/Solenoid	.25	.25	.25
Multi-Module Use	√	√	No

Large Cv Saturn Solenoid Part Numbers

Part Number	Description
1053894	4-way, AO/AC, 24VDC, Q.D. Plug With LED Light (yellow, blue) Not Mounted to Applicator ¹
1055480	4-way, AO/AC, 24VDC, Q.D. Plug Without LED Light (yellow, blue) Not Mounted to Applicator ¹
1055483	4-way, AO/AC, 24VDC, MOV, Q.D. Plug With LED Light (yellow, blue)
1069020	4 way, AO/AC, 24VDC, Q.D. Plug Without LED Light, reverse function (yellow, green)
1074634	4 way, AO/AC, 240VAC, Q.D. Plug Without LED Light (grey, green)
1056119	3-way, AO/SC, 24VDC, Q.D. Plug With LED Light (yellow, green) Not Mounted to Applicator ¹
1055481	3-way, AO/SC, 24VDC, Q.D. Plug Without LED Light (yellow, green) Not Mounted to Applicator ¹
1056273	3-way, AO/SC, 100VAC, Q.D. Plug Without LED Light (red, green)
1056120	3-way, AO/SC, 120VAC, Q.D. Plug Without LED Light (beige, green)
1056274	3-way, AO/SC, 200VAC, Q.D. Plug Without LED Light (gold, green)
1056121	3-way, AO/SC, 240VAC, Q.D. Plug Without LED Light (grey, green)
1062017	3-way, AO/SC, 24VDC, MOV, Q.D. Plug With LED Light (yellow, green)

⁽¹⁾ Requires 1/4 NPT fitting, not included.

Solenoid Valves

Saturn Solenoid Valves

Small Cv Saturn Solenoid Part Numbers

Part Number	Description
1069250	4-way, AO/AC, 24VDC, Q.D. Plug With LED Light (yellow, white) Not Mounted to Applicator ¹
1069209	4-way, AO/AC, 24VDC, Q.D. Plug Without LED Light (yellow, white) Not Mounted to Applicator ¹
1069257	4-way, AO/AC, 120VAC, Q.D. Plug Without LED Light (beige, white)
1069258	4-way, AO/AC, 240VAC, Q.D. Plug Without LED Light (grey, white)
1069208	3-way, AO/SC, 24VDC, Q.D. Plug With LED Light (yellow, white) Not Mounted to Applicator ¹
1069207	3-way, AO/SC, 24VDC, Q.D. Plug Without LED Light (yellow, white) Not Mounted to Applicator ¹
1069206	3-way, AO/SC, 12VDC, Q.D. Plug Without LED Light (green, white)
1069251	3-way, AO/SC, 24VAC, Q.D. Plug Without LED Light (blue, white)
1069252	3-way, AO/SC, 48VAC, Q.D. Plug Without LED Light (brown, white)
1069253	3-way, AO/SC, 100VAC, Q.D. Plug Without LED Light (red, white)
1069254	3-way, AO/SC, 120VAC, Q.D. Plug Without LED Light (beige, white)
1069255	3-way, AO/SC, 200VAC, Q.D. Plug Without LED Light (gold, white)
1069256	3-way, AO/SC, 240VAC, Q.D. Plug Without LED Light (grey, white)

⁽¹⁾ Requires 1/8 NPT fitting, not included.

Standard Saturn Solenoid Spare Components Part Numbers

Part Number	Description
Connectors	
1123073	Kit, Repl Elec Connector, SP, 10pc
1058522	Standard Black No LED
1058523	Clear With LED
1058524	Clear LED 120 VAC
1058525	Clear With LED MOV
Mufflers	
1058058	Muffler 1/8 in. NPT
1058059	Muffler 1/4 in. NPT

NOTES: 3-way solenoids are used for air-open/spring-closed (AO/SC) applicators such as Best Choice, SolidBlue S & SureBead S.
 All Saturn solenoid valves can be used in water wash applications.
 Large CV Saturn solenoid valves contain 1/8 x 1/4 in. pipe bushings, mufflers, and universal inlet fitting.
 Small CV Saturn solenoid valves contain mufflers, and universal inlet fitting.

Solenoid Valves

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Fittings and Connectors

Description

Nordson adhesive and sealant equipment serves an international customer base. To facilitate equipment installation, Nordson offers a variety of pneumatic and hydraulic connectors, and miscellaneous plugs and adapters.

- Equipment built prior to 1983 has pipe-thread fittings.
- Most newer hydraulic applications use SAE standard fittings.

- Outside North America, ISO threads are the standard for connecting equipment to input air sources.
- Listings represent common fittings only.

Contact a Nordson representative for additional recommendations pertaining to use and application.

Fitting Usage and Comparison

Fitting	Where Used	Pipe Thread Fitting P/N	O-ring Fitting P/N
Straight Connector	Applicator to automatic hose; melter to automatic or hand-held applicator hose	972051	972628 (972657) ⁽¹⁾
	FM 150 to hose	-	310281
	FM 150 to 5/8 in. hose	-	719023
	Applicator to 5/8 in. hose	-	719024
Pipe Plug	Extra ports on applicator or melter	973411	973574
90° Elbow	Applicator to automatic hose	972200	274180
	Melter to automatic or hand-held applicator hose	972200	972646
45° Elbow	Applicator to automatic hose	972618	274179
	Melter to automatic or hand-held applicator hose	972618	972647
	Applicator to 5/8 in. hose	-	719047

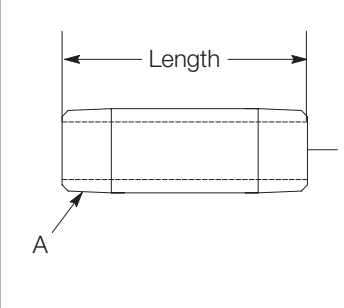
⁽¹⁾ Compact hose-to-applicator fitting minimizes cold joint at the applicator.

Fittings and Connectors

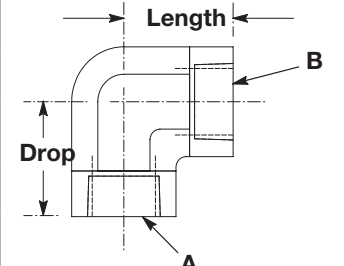
Fitting Part Numbers

Pneumatic Connectors

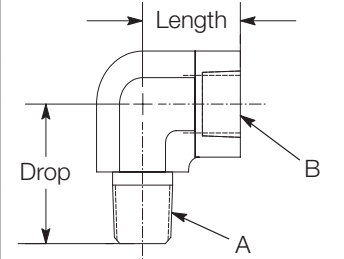
Pipe Nipples

	Pipe Nipple	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.	
	973000	1/8-NPT	N/A	19.1	0.75	N/A	N/A	
973002	38.1			1.50				
973001	63.5			2.50				
973032	1/4-NPT			63.5	2.50			
973004	1/8-NPT			76.2	3.00			

Pipe Elbows, 90°

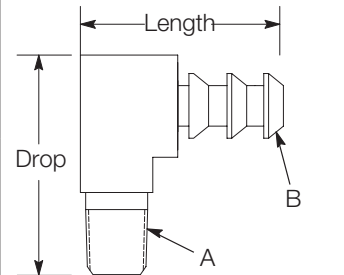
	Pipe Elbow, 90°	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.	
	973152	1/4-NPT	1/4-NPT	20.3	0.80	20.3	0.80	
973158	1/8-NPT		19.1	0.75	19.1	0.75		
973179	3/8-NPT	3/8-NPT	26.0	1.02	26.0	1.02	Zinc-plated Steel	

SAE 90° Elbow

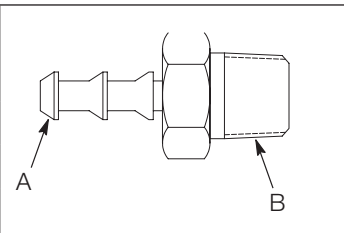
	SAE 90° Street	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.	
	973151	1/4-NPT	1/4-NPT	22.4	0.88	27.7	1.09	
973154	Stainless Steel							

Fittings and Connectors

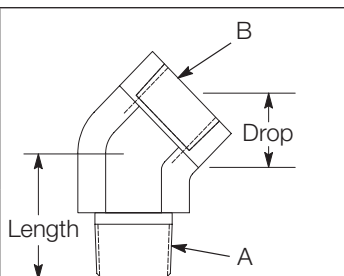
90° Male Elbow Barbed Coupling

	90° Male Elbow Barbed Coupling		Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.		
	972623	0.25 tubing	1/8-NPT	17.5	0.69	16.0	0.63	Brass	

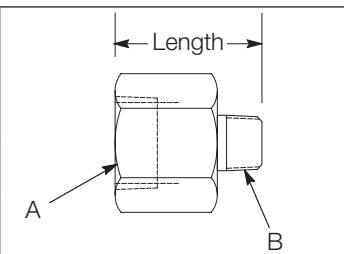
Straight Barbed Coupling

	Straight Barbed Coupling		Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.		
	972584	0.25 tubing	1/8-NPT	N/A	N/A	N/A	N/A	Brass	
972586	1/4-NPT								

SAE 45° Street

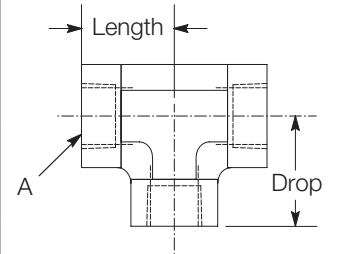
	SAE 45° Street		Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.		
	973129	1/4-NPT	1/4-NPT	19.1	0.75	19.1	0.75	Galvanized Steel	

SAE Adapter, Straight

	SAE Adapter, Straight		Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.		
	973953	1/4-NPT	1/8-NPTF	27.0	1.06	N/A	N/A	Brass	

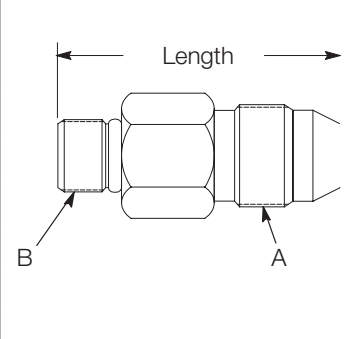
Fittings and Connectors

SAE Adapter, Tee, 3 Ports

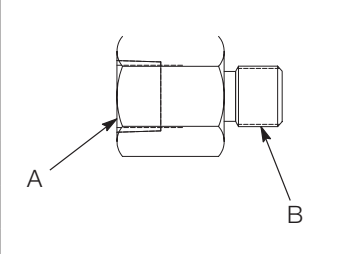
	SAE Adapter, Tee, 3 Ports	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.	
	973250	1/8-NPTF	N/A	16.8	0.66	16.8	0.66	
973260	1/4-NPTF	22.4		0.88	22.4	0.88		

Hydraulic Connectors

SAE 37° Straight Connector

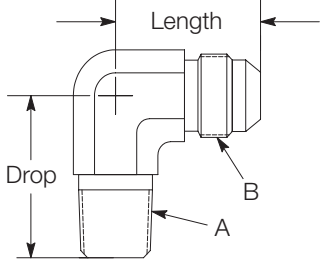
	SAE 37° Straight Connector	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.	
	972628	9/16-18	9/16-18	44.5	1.75	N/A	N/A	
310281	9/16-18	7/8-14	38.1	1.50				
719024	1	9	43.7	1.72				
719023	11/16-12	7/8-14	45.7	1.80				
972505	11/16-12	11/16-12	54.9	2.16	Zinc-plated Steel			

SAE Hydraulic Flareless Female Tube Connector

	SAE Hydraulic Flareless Female Tube Connector	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.	
	971164	7/16-20	1/4-NPTF	N/A	N/A	N/A	N/A	
971157	9/16-18							

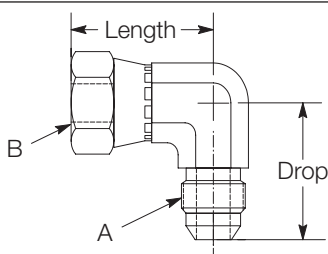
Fittings and Connectors

SAE 90°, 37° Flare Male Elbow



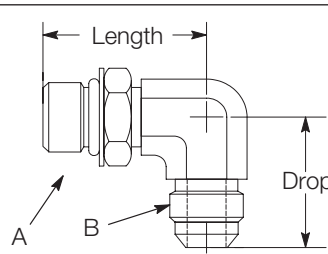
SAE 90°, 37° Flare Male Elbow	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	
972176	1/2-20	1/4-NPTF	24.1	0.95	27.7	1.09	Zinc-plated Steel
972200	9/16-18		27.0	1.06			

SAE 90°, 37° Flare Swivel



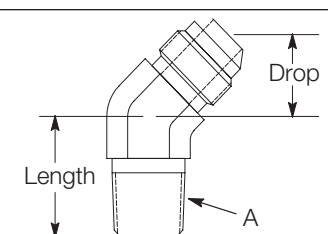
SAE 90°, 37° Flare Swivel	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	
972400	9/16-18	9/16-18	31.75	1.25	27.0	1.06	Zinc-plated Steel
271449	1/4-NPT	9/16-18	N/A	N/A	N/A	N/A	

SAE 90°, 37° Male Connector



SAE 90°, 37° Male Connector	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	
274180	9/16-18	9/16-18	38.1	1.50	27.0	1.06	Brass, O-ring
972646			45.7	1.80			
816163	7/8-14	11/16-12	46.2	1.82	42.2	1.66	

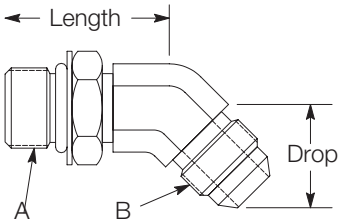
SAE 45° Male Tube Elbow



45° Male Tube Elbow	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	
972618	9/16-18	1/4-NPTF	21.1	0.83	21.8	0.86	Brass

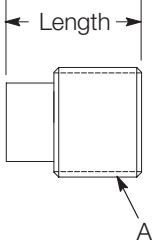
Fittings and Connectors

SAE 45°, 37° Connector Elbow

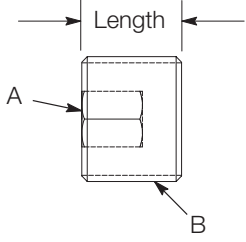
	SAE 45°, 37° Connector Elbow	Port/Thread		Length		Drop		Comments
	P/N	A	B	mm	in.	mm	in.	
	972647	9/16-18	9/16-18	43.2	1.70	14.5	0.57	Brass, O-ring
	719047		11/16-12	45.7	1.80	15.2	0.60	
	274179		9/16-18	29.0	1.14	14.4	0.57	
	719046		9/16-18	43.2	1.70	21.1	0.83	
	816162	7/8-14	11/16-12	39.9	1.57	32.5	1.28	

Miscellaneous Plugs, Adapters, and Parts

Pipe Plug, SAE Square Head

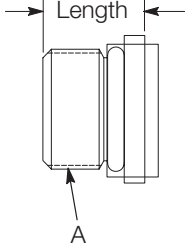
	Pipe Plug, SAE Square Head	Port/Thread		Length		Comments
	P/N	A	B	mm	in.	
	973400	1/8-NPTF	N/A	15.2	0.60	Steel
	973414	1/4-NPTF		20.8	0.82	Zinc-plated Steel

Pipe Plug, Socket Head

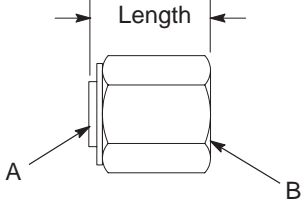
	Pipe Plug, Socket Head	Port/Thread		Length		Comments
	P/N	A	B	mm	in.	
	973410	0.25 socket	1/4-NPTF	11.2	0.44	Zinc-plated Steel
	973402	0.19 socket	1/8-NPTF	6.4	0.25	

Fittings and Connectors

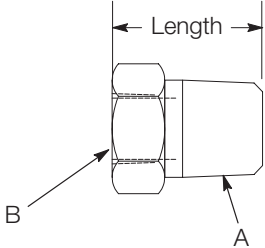
O-Ring Pipe Plug

	O-ring Pipe Plug	Port/Thread		Length		Comments
	P/N	A	B	mm	in.	
	973574	9/16-18	N/A	12.2	0.48	

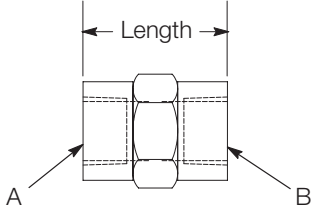
SAE 37° Flare Tube Cap

	SAE 37° Flare Tube Cap	Port/Thread		Length		Comments
	P/N	A	B	mm	in.	
	972359	0.30 OD	1/2-20	15.5	0.61	

Pipe Bushing

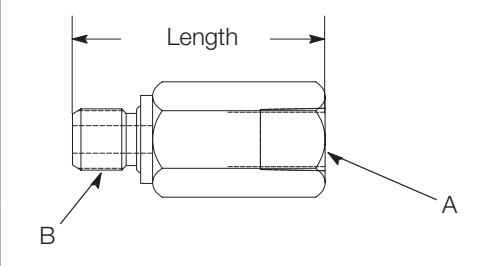
	Pipe Bushing	Port/Thread		Length		Comments	
	P/N	A	B	mm	in.		
	973372	1/4-NPT	1/8-NPT	21.6	0.85		Zinc-plated Steel
	973562	3/8-NPT	1/4-NPT				

Pipe Coupling

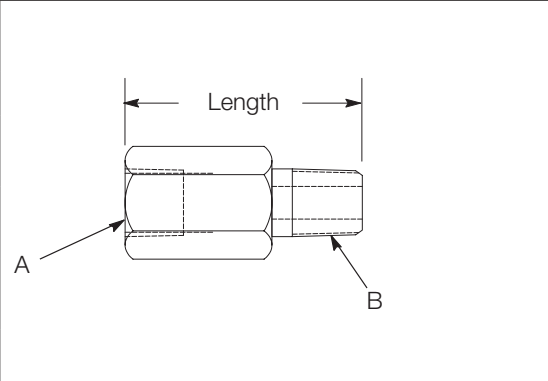
	Pipe Coupling	Port/Thread		Length		Comments
	P/N	A	B	mm	in.	
	973500	1/4-NPTF	1/4-NPTF	28.7	1.13	

Fittings and Connectors

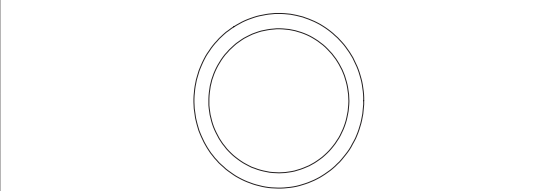
Hydraulic Hose Adapter

	Hydraulic Hose Adapter	Port/Thread		Length		Comments
	P/N	A	B	mm	in.	
	972352	1/2-20 NF-2	1/4-NPS	22.4	0.88	
972650	1/4 NPTF	9/16-18 male	30.9	1.22	O-ring	

Pneumatic Adapter

	Pneumatic Adapter	Port/Thread		Length	
	P/N	A	B	mm	in.
	972662	1/8-NPT female	1/8-BSP male	27.7	1.09
	972663	1/4-NPT female	1/4-BSP male	36.1	1.42
	972664	1/8-ISO female	1/8-NPT male	27.7	1.09
972665	1/4-ISO female	1/4-NPT male	36.1	1.42	

O-Ring Replacement

	O-Ring Replacement	Port/Thread		Length		Comments
	P/N	A	B	mm	in.	
	945032	9/16 -18	N/A	N/A	N/A	

Hydraulic System Accessories

A selection of hydraulic system components is available to tailor system operation to the application.

Flow Control Valve

Use alone or in combination to balance adhesive flow from multiple applicators or from multiple hoses supplied from the same melter.

Part Number	Description
276060	Valve, Use On Applicator Models With O-Ring Fittings
901134	Valve, Use On Applicator Models With NPT Fittings

Hydraulic System Pressure Gauge Kit

Use with any hot melt system. Install in series with hose to monitor system pressure.

Part Number	Description	Comment
274428	In-line Pressure Gauge Kit	Includes gauge and hardware.
274425	Gauge and Protector	Included in above kit.
816084	Dead-end Pressure Gauge Kit	Fit to unused hose port on manifold.

O-Rings

Use Kalrez® O-rings in applications where rapid O-ring failure occurs as a result of incompatibility between the adhesive and standard Viton® O-rings. Use Viton O-rings in applications with operating temperatures up to 230°C (450°F).

Kalrez P/N	Viton P/N	O-ring Size
709773	940101	0.250 ID X 0.375 OD
710742	940111	0.312 ID X 0.437 OD
709774	940121	0.375 ID X 0.500 OD
709775	940133	0.437 ID X 0.562 OD
711012	940112	0.437 ID X 0.625 OD
710021	N/A	0.500 ID X 0.688 OD
709776	940161	0.625 ID X 0.750 OD
709777	940181	0.750 ID X 0.875 OD

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Hydraulic System Accessories

Best Choice Extension Cords (Ni-120 Receptacles)

Part Number	Description
135972	6 pin, T-style Low Power Applicator, 7.3 m (24 ft)
108946	6 pin, T-style Low Power Applicator, 4.9 m (16 ft)
115576	12 pin, T-style Low Power Hose/Applicator, 0.6 m (2 ft)
115577	12 pin, T-style Low Power Hose/Applicator, 1.8 m (6 ft)
115578	12 pin, T-style Low Power Hose/Applicator, 3.7 m (12 ft)
115579	12 pin, T-style Low Power Hose/Applicator, 5.5 m (18 ft)
115580	12 pin, T-style Low Power Hose/Applicator, 7.3 m (24 ft)
115581	12 pin, T-style Low Power Hose/Applicator, 9.1 m (30 ft)

Extension Cables

Extension cables are used when a applicator has two cordsets and only one hose will be used.

Part Number	Description
108946	Cable, Extension, Applicator to melter, 4.9 m (16 ft)
728023	Cable, Extension, Water Wash Applicator to Melter, 5.5 m (18 ft)
728093	Cable, Extension, Water Wash Applicator to AquaGuard Melter, 6.1 m (20 ft)
124992	Cable, Extension, Applicator to Bulk Melter, 4.3 m (14 ft)

Best Choice Splitter Cables (Ni-120 only)

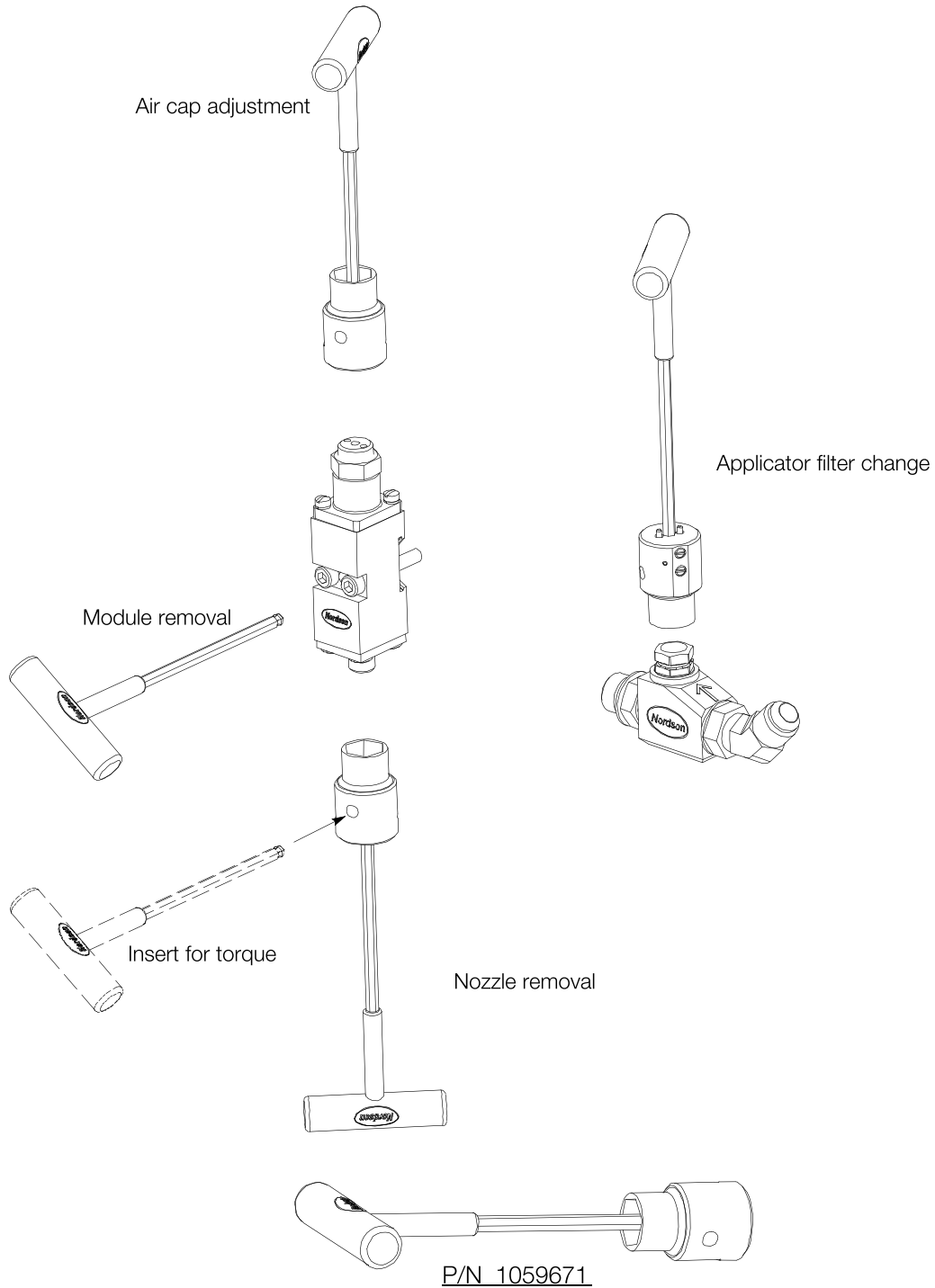
Part Number	Description
113543	Two 108946 or 135972 Extension Cords, Splitter at Unit
116998	Two 6-pin Low Wattage Applicators, Splitter at Applicators

Equipment Accessories

Part Number	Description
902514	Heat Protective Gloves
1054187	Melter Flush Kit
270755	Type R Fluid, 1 gallon
1054215	Safety Glasses With Shields
132426	Hose/Applicator Diagnostic Device

Multi-Service Device

The multi-service device is used for Blue Series modules. Use the multi-service device for air cap adjustment, module removal, nozzle removal and applicator filter removal.



Multi-Service Device

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Conversion Formulas and Tables

Maximum Required Delivery Rate (MRDR)

$$MRDR = \left(\frac{kg}{hr}\right) = \sum (BCA(mm^2)) \times \text{Line Speed} \left(\frac{m}{min}\right) \times r \left(\frac{kg}{m^3}\right) \times 0.00006 \left(\frac{m^2 \cdot min}{mm^2 \cdot hr}\right)$$

$$MRDR = \left(\frac{lb}{hr}\right) = \sum (BCA(in^2)) \times \text{Line Speed} \left(\frac{ft}{min}\right) \times r \left(\frac{lb}{in^3}\right) \times 720 \left(\frac{in \cdot min}{ft \cdot hr}\right)$$

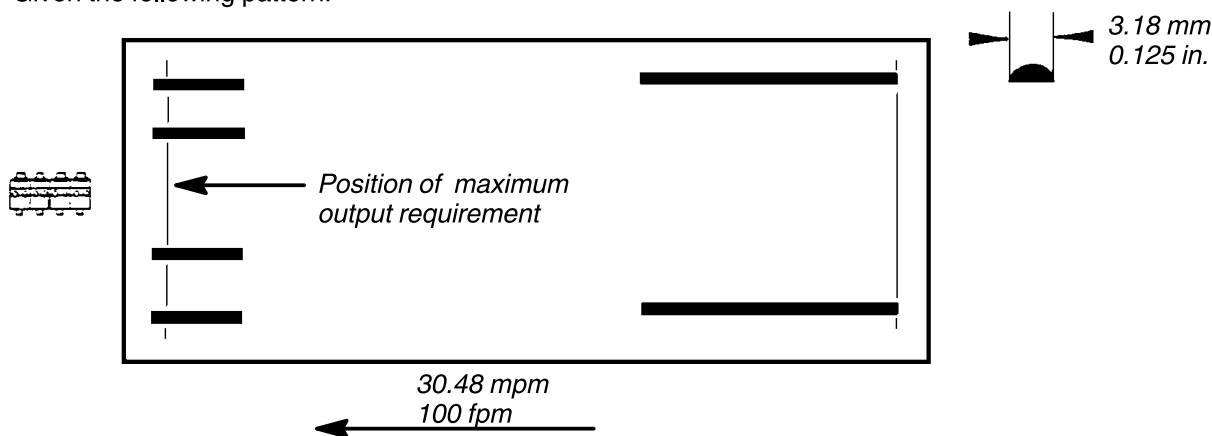
where: BCA = Bead Cross Sectional Area (see Bead Cross Sectional Area (BCA))

\sum BCA = Sum of Bead Cross Sectional Area

ρ = Adhesive density

Example of Maximum Required Delivery Rate (MRDR)

Given the following pattern:



BCA = 2.374 mm² or
0.00368 in² per bead

\sum BCA = 9.50 (2.374 x 4) or
0.01472 (0.00368 x 4)

ρ = 829 (kg/m³) or
0.030 (lb/in³)

therefore!

MRDR = (kg/hr) = 9.50 mm² x 30.48 mpm x 829 kg/m³ x 0.00006 = 14.40 kg/hr

MRDR = (lb/hr) = 0.0147 in² x 100 fpm x 0.030 lb/in³ x 720 = 31.75 lb/hr

NOTE: 16 kg/hr x 2.2 = 36.30 lb/hr
(2.2 kg/hr = 1 lb./hr)

Conversion Formulas and Tables

Bead Cross Sectional Area (BCA) Calculations

Round Bead Circular Sector		Web Usage		
$BCA = \frac{\pi \times D^2}{4} \times (.3)$		$BCA = \text{Slot Thickness} \times \text{Slot Width}$		
Bead Diameter mm (in.)	BCA mm ² (in ²)	Width mm (in.)	Thickness mm (in.)	BCA mm ² (in ²)
1.59 (1/16)	0.594 (0.00092)	25.4 (1)	0.051 (0.002)	0.051 (0.002)
1.98 (5/64)	0.929 (0.00144)	25.4 (1)	0.102 (0.004)	0.102 (0.004)
2.38 (3/32)	1.335 (0.00207)	25.4 (1)	0.152 (0.006)	0.152 (0.006)
2.78 (7/64)	1.819 (0.00282)	25.4 (1)	0.203 (0.008)	0.203 (0.008)
3.18 (1/8)	2.374 (0.00368)	25.4 (1)	0.254 (0.010)	0.254 (0.010)
4.76 (3/16)	5.342 (0.00828)	25.4 (1)	0.305 (0.012)	0.305 (0.012)
6.35 (1/4)	9.503 (0.01473)	25.4 (1)	0.406 (0.016)	0.406 (0.016)
7.94 (5/16)	14.845 (0.02301)	25.4 (1)	0.508 (0.020)	0.508 (0.020)
9.53 (3/8)	21.374 (0.03313)	25.4 (1)	0.635 (0.025)	0.635 (0.025)
11.11 (7/16)	29.097 (0.04510)	25.4 (1)	0.762 (0.030)	0.762 (0.030)
12.70 (1/2)	38.000 (0.05890)	25.4 (1)	0.762 (0.030)	0.762 (0.030)

Required Melt Rate (MR)

$$MR \left(\frac{\text{kg}}{\text{hr}} \right) = \frac{\sum [BCA \text{ (mm}^2\text{)} \times BL \text{ (mm)}]}{(1) \text{ Prod}} \times \frac{\text{Prod}}{\text{(min)}} \times \rho \left(\frac{\text{kg}}{\text{m}^3} \right) \times .00000006 \left[\frac{\text{m}^3 \cdot \text{min}}{\text{mm}^3 \cdot \text{hr}} \right]$$

$$MR \left(\frac{\text{lb}}{\text{hr}} \right) = \frac{\sum [BCA \text{ (in}^2\text{)} \times BL \text{ (in.)}]}{(1) \text{ Prod}} \times \frac{\text{Prod}}{\text{(min)}} \times \rho \left(\frac{\text{lb}}{\text{in}^3} \right) \times 60 \left(\frac{\text{min}}{\text{hr}} \right)$$

where:

BCA = Bead Cross Sectional Area

BL = Bead Length on the product

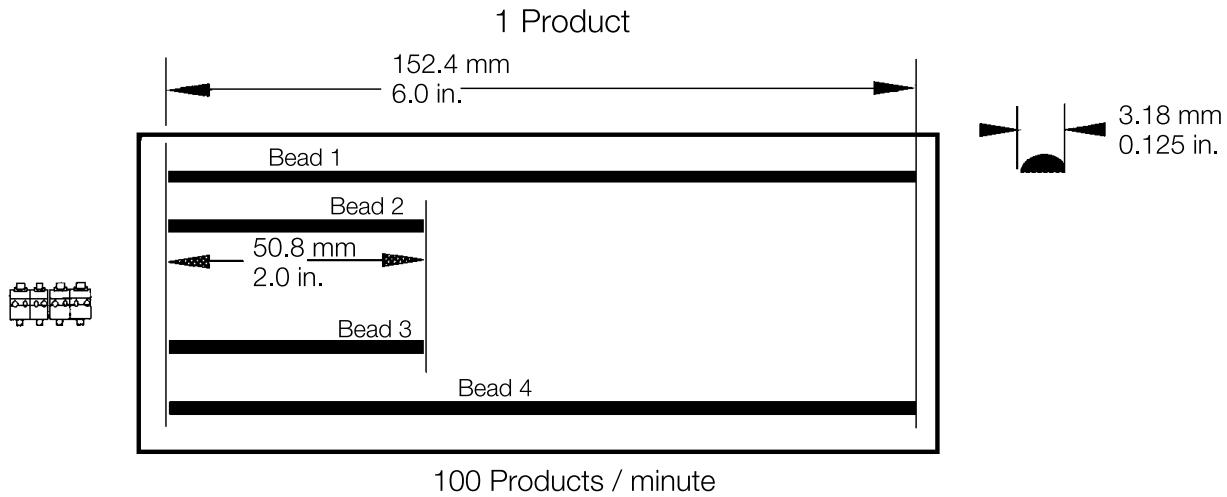
$\sum [BCA \times BL]$ = Total volume of adhesive on product

p = Adhesive density

Conversion Formulas and Tables

Example of Melt Rate

Given the following pattern:



$$\begin{aligned}
 \text{BCA} &= && 2.374 \text{ mm}^2 & \text{ or } && 0.00368 \text{ in}^2 \text{ per bead} \\
 \sum [\text{BCA} \times \text{BL}] &= && & && \\
 & \text{Bead 1} && 2.374 \times 152.4 & && 0.00368 \times 6.0 \\
 & \text{Bead 2} && 2.374 \times 120.6 & && 0.00368 \times 2.0 \\
 & \text{Bead 3} && 2.374 \times 120.6 & && 0.00368 \times 2.0 \\
 & \text{Bead 4} && 2.374 \times 152.4 & && 0.00368 \times 6.0 \\
 & && \hline
 & && 964.80 \text{ mm}^3 & && 0.0589 \text{ in}^3 \\
 \rho &= && 829 \text{ (kg/m}^3\text{)} & \text{ or } && 0.030 \text{ (lb/in}^3\text{)}
 \end{aligned}$$

therefore:

$$\text{MR} = \text{kg/hr} = 964.80 \text{ mm}^3 \times 100 \text{ products/min} \times 829 \text{ kg/m}^3 \times 0.00000006 = 4.80 \text{ kg/hr}$$

$$\text{MR} = \text{lb/hr} = 0.0589 \text{ in}^3 \times 100 \text{ products/min} \times 0.030 \text{ lb/in}^3 \times 60 = 10.60 \text{ lb/hr}$$

Spray Usage Rate (SUR)

$$\text{SUR} \left(\frac{\text{kg}}{\text{hr}} \right) = \text{Coat Weight} \left(\frac{\text{mg}}{\text{mm}^2} \right) \times \text{Number of Modules} \times \text{Line Speed} \left(\frac{\text{m}}{\text{min}} \right) \times 1.524 \left(\frac{\text{min} \cdot \text{mm} \cdot \text{kg}}{\text{hr} \cdot \text{m} \cdot \text{mg}} \right)$$

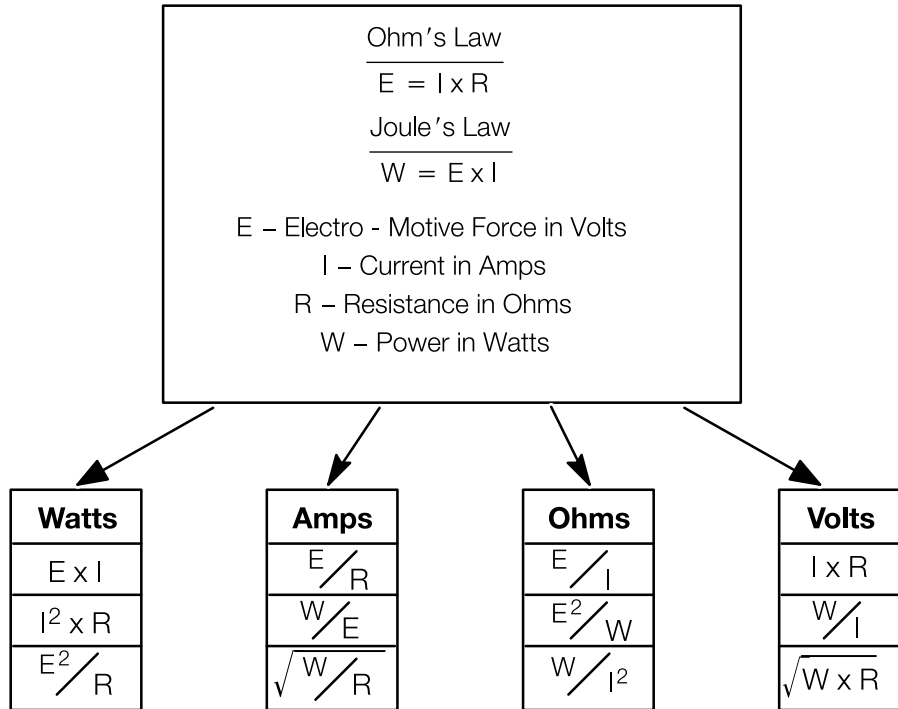
Assume 25.4 mm width per module.

$$\text{SUR} \left(\frac{\text{lb}}{\text{hr}} \right) = \text{Coat Weight} \left(\frac{\text{mg}}{\text{in}^2} \right) \times \text{Number of Modules} \times \text{Line Speed} \left(\frac{\text{ft}}{\text{min}} \right) \times 0.001589 \left(\frac{\text{min} \cdot \text{in} \cdot \text{lb}}{\text{hr} \cdot \text{ft} \cdot \text{mg}} \right)$$

Assume 1.00 in. width per module.

Conversion Formulas and Tables

Electrical



Time

$$ms = \frac{5000 \times \text{inches}}{\text{ft/min}}$$

$$\text{inches} = \frac{\text{ft/min} \times ms}{5000}$$

$$\text{ft / min} = \frac{ms}{5000 \times \text{inches}}$$

Response Time

Phototransistor = 2 ms

Retroreflective = 5 ms

Proximity Sensor = 3 ms

Pull-In (Applicator Open) and Drop-Out (Applicator Close) Time

	H-20	H-200	E-700
Pull In	17 ms	12 ms	18 ms
Drop Out	14 ms	14 ms	18 ms

Conversion Formulas and Tables

Adhesive Mileage

Extend adhesive mileage by using only enough material at the appropriate bead size for consistent, repeatable results.

Bead Size	Mileage ⁽¹⁾
1.59 mm (1/16 in.) diameter =	2,004 m/kg (2,982 ft/lb), or 200 cm/g (35,783 in/lb)
1.98 mm (5/64 in.) diameter =	1,282 m/kg (1,908 ft/lb), or 128 cm/g (22,896 in/lb)
2.38 mm (3/32 in.) diameter =	891 m/kg (1,325 ft/lb), or 89 cm/g (15,900 in/lb)
2.78 mm (7/64 in.) diameter =	654 m/kg (974 ft/lb), or 65 cm/g (11,688 in/lb)
3.18 mm (1/8 in.) diameter =	501 m/kg (745 ft/lb), or 50 cm/g (8,940 in/lb)
3.97 mm (5/32 in.) diameter =	321 m/kg (477 ft/lb), or 32 cm/g (5,725 in/lb)
4.76 mm (3/16 in.) diameter =	223 m/kg (331 ft/lb), or 22 cm/g (3,972 in/lb)
5.56 mm (7/32 in.) diameter =	164 m/kg (243 ft/lb), or 16 cm/g (2,916 in/lb)

Other Equations	
4.2445 (g/cc) (dia ²) =	cm/g
980.4754 [(lb/gal) (dia ²)] =	in/lb

⁽¹⁾ Calculations are based on standard packaging-grade adhesive density of 0.84 g/cc at 177C (7.01 lb/gal at 350F), using compensated-geometry bead of 0.60 of a half round circle.

Conversion Formulas and Tables

Coating Data Sheet

Calculations are based on standard packaging-grade adhesive density of 0.84 g/cc at 177C (7.01 lb/gal at 350F), using compensated-geometry bead of 0.60 of a half-round circle.

Coating Weights*

mils	tm	g/8 in ²	g/24 in ²	oz/yd ²	g/m ²	lb/ream**	lb/1000 ft ²	g/100 in ²	gr/24 in ²
0.3	7.62	0.037	0.110	0.22	7.12	4.4	1.5	4.6	1.7
0.5	12.70	0.061	0.184	0.35	11.86	7.3	2.4	7.7	2.8
0.6	15.24	0.073	0.220	0.42	14.20	8.8	2.9	9.2	3.4
0.7	17.78	0.086	0.257	0.49	15.62	10.2	3.4	10.7	4.0
0.8	20.32	0.098	0.294	0.56	19.00	11.7	3.9	12.3	4.5
0.9	22.86	0.110	0.330	0.63	21.36	13.1	4.4	13.8	5.1
1.0	25.40	0.123	0.368	0.70	23.74	14.6	4.9	15.3	5.7
1.1	27.94	0.135	0.404	0.77	26.11	16.1	5.3	16.8	6.3
1.2	30.48	0.147	0.441	0.84	28.49	17.5	5.8	18.6	6.8
1.3	33.02	0.159	0.478	0.91	30.86	19.0	6.3	19.9	7.4
1.4	35.56	0.176	0.515	0.98	33.24	20.4	6.8	21.6	8.0
1.5	38.10	0.184	0.551	1.05	35.61	21.9	7.3	23.0	8.5
1.6	40.64	0.196	0.588	1.12	37.98	23.4	7.8	24.5	9.1
1.7	43.18	0.208	0.625	1.19	40.36	24.8	8.3	26.0	9.7
1.8	45.72	0.221	0.662	1.26	42.73	26.3	8.7	27.5	10.3
1.9	48.26	0.233	0.698	1.33	45.11	27.7	9.2	29.1	10.8
2.0	50.80	0.245	0.732	1.40	47.29	29.2	9.7	30.7	11.4
3.0	76.20	0.368	1.103	2.10	71.22	43.8	14.6	46.0	17.0
4.0	101.60	0.490	1.470	2.80	94.96	53.3	19.6	61.3	22.7
5.0	127.00	0.613	1.838	3.50	118.70	72.9	24.3	76.6	28.5
6.0	152.40	0.736	2.206	4.20	142.44	87.5	29.2	92.0	34.2

* Figures based on 7.8 lb/gal material density.

** 3000 ft²/ream



Conversion Formulas and Tables

Speed Conversion Table

Use the following table to convert from meters per minute (mpm) to meters per second (m/s) to seconds per meter (s/m); or feet per minute (fpm) to inches per minute (in/min) to inches per second (in/s) to seconds per inch (s/in).

mpm	m/s	s/m	fpm	in/min	in/s	s/in
0.15	0.0025	393.70	0.5	6.0	0.1	10.00
0.30	0.005	196.85	1.0	12.0	0.2	5.00
0.61	0.010	98.43	2.0	24.0	0.4	2.500
0.91	0.015	65.62	3.0	36.0	0.6	1.666
1.22	0.020	49.21	4.0	48.0	0.8	1.250
1.52	0.025	39.37	5.0	60.0	1.0	1.000
1.83	0.030	32.81	6.0	72.0	1.2	0.8333
2.13	0.035	28.12	7.0	84.0	1.4	0.714
2.44	0.040	24.61	8.0	96.0	1.6	0.625
2.74	0.045	21.87	9.0	108.0	1.8	0.555
3.05	0.050	19.69	10.0	120.0	2.0	0.500
3.35	0.056	17.90	11.0	132.0	2.2	0.435
3.66	0.061	16.40	12.0	144.0	2.4	0.417
3.96	0.066	15.14	13.0	156.0	2.6	0.385
4.27	0.071	14.06	14.0	168.0	2.8	0.357
4.57	0.076	13.12	15.0	180.0	3.0	0.333
4.88	0.081	12.30	16.0	192.0	3.2	0.313
5.18	0.086	11.58	17.0	204.0	3.4	0.294
5.49	0.092	10.94	18.0	216.0	3.6	0.278
5.79	0.097	10.36	19.0	228.0	3.8	0.263
6.10	0.102	9.84	20.0	240.0	4.0	0.250
6.40	0.107	9.37	21.0	252.0	4.2	0.238
6.71	0.112	8.95	22.0	264.0	4.4	0.227
7.01	0.117	8.56	23.0	276.0	4.6	0.217
7.32	0.122	8.20	24.0	288.0	4.8	0.208
7.62	0.127	7.87	25.0	300.0	5.0	0.200
9.14	0.152	6.56	30.0	360.0	6.0	0.167

Conversion Formulas and Tables

Speed Conversion Table *(contd.)*

mpm	m/s	s/m	fpm	in/min	in/s	s/in
12.19	0.203	4.92	40.0	480.0	8.0	0.125
15.24	0.254	3.94	50.0	600.0	10.0	0.100
18.29	0.305	3.28	60.0	720.0	12.0	0.083
21.34	0.356	2.81	70.0	840.0	14.0	0.071
24.38	0.406	2.46	80.0	960.0	16.0	0.063
27.43	0.457	2.19	90.0	1080.0	18.0	0.056
30.48	0.508	1.97	100.0	1200.0	20.0	0.050
38.10	0.635	1.57	125.0	1500.0	25.0	0.040
45.72	0.762	1.31	150.0	1800.0	30.0	0.033
53.34	0.889	1.12	175.0	2100.0	35.0	0.029
60.96	1.016	0.98	200.0	2400.0	40.0	0.025
68.58	1.143	0.87	225.0	2700.0	45.0	0.022
76.20	1.270	0.79	250.0	3000.0	50.0	0.020
83.82	1.397	0.72	275.0	3300.0	55.0	0.018
91.44	1.524	0.66	300.0	3600.0	60.0	0.016
99.06	1.651	0.61	325.0	3900.0	65.0	0.015
106.68	1.778	0.56	350.0	4200.0	70.0	0.014
114.30	1.905	0.52	375.0	4500.0	75.0	0.013
121.92	2.032	0.49	400.0	4800.0	80.0	0.012
137.16	2.286	0.44	450.0	5400.0	90.0	0.011
152.40	2.540	0.39	500.0	6000.0	100.0	0.010
182.88	3.048	0.33	600.0	7200.0	120.0	0.008
213.36	3.556	0.28	700.0	8400.0	140.0	0.007
243.84	4.064	0.25	800.0	9600.0	160.0	0.006
274.32	4.572	0.22	900.0	10800.0	180.0	0.0055
304.80	5.080	0.20	1000.0	12000.0	200.0	0.0050

Conversion Formulas and Tables

Temperature Conversion Table

Celsius °C	Fahrenheit °F	Celsius °C	Fahrenheit °F
60	140	185	365
65	149	190	374
70	158	195	383
75	167	200	392
80	176	205	401
85	185	210	410
90	194	215	418
95	203	220	428
100	212	225	435
105	221	230	446
110	230	235	455
115	239	240	464
120	247	245	473
125	257	250	482
130	266	255	491
135	275	260	500
140	284	265	509
145	293	270	518
150	302	275	527
155	311	280	536
160	320	285	545
165	329	290	554
170	338	295	563
175	347	300	572
180	356		

$$F = (C \times 1.8) + 32$$

$$C = (F - 32) \times 0.5556$$

Conversion Formulas and Tables

Weights and Measures Conversions

	Multiply	By	To Obtain
Length	mils	0.001	inches (in.)
	inches (in.)	2.54	centimeters (cm)
	centimeters (cm)	0.3937	inches (in.)
	inches (in.)	25.4	millimeters (mm)
	millimeters (mm)	0.0394	inches (in.)
	feet (ft)	0.3048	meters (m)
	meters (m)	3.2808	feet (ft)
	mils	0.0254	millimeters (mm)
	millimeters (mm)	39.3701	mils
Weight	ounces (oz)	28.3495	grams (g)
	grams (g)	0.0353	ounces (oz)
	grams (g)	15.43	grains (gr)
	pounds (lb)	0.4536	kilograms (kg)
	kilograms (kg)	2.2046	pounds (lb)
Velocity	feet per minute (fpm)	0.0051	meters per second (m/s)
	meters per second (m/s)	196.86	feet per minute (fpm)
Temperature	degrees Fahrenheit	$(^{\circ}\text{F} - 32) \times 0.5556$	degrees Celsius
	degrees Celsius	$(^{\circ}\text{C} \times 1.8) + 32$	degrees Fahrenheit
Volume	gallons (gal)	231	cubic inches (in ³)
	cubic feet (ft ³)	1728	cubic inches (in ³)
	gallons (gal)	3.7853	liters (L)
	cubic inches (in ³)	16.3871	cubic centimeters (cc)
Density⁽¹⁾	pounds per gallon (lb/gal)	7.4805	pounds per cubic foot (lb/ft ³)
	grams per cubic centimeter (g/cc)	1	kilograms per liter (kg/L)
	grams per cubic centimeter (g/cc)	1000	kilograms per cubic meter (kg/m ³)
	kilograms per cubic meter (kg/m ³)	0.001	grams per cubic centimeter (g/cc)
	pounds per gallon (lb/gal)	0.1198	kilograms per liter (kg/L)
	pounds per cubic inch (lb/in ³)	27.6799	grams per cubic centimeter (g/cc)
Adhesive Mileage⁽²⁾	inches per pound (in/lb)	0.0833	feet per pound (ft/lb)
	centimeters per gram (cm/g)	10	meters per kilogram (m/kg)

1. The density of water = 8.337 lb/gal; 0.0361 lb/in³, 1 g/cc.

2. Standard packaging-grade adhesive density = 0.84 g/cc at 177°C or 7.01 lb/gal at 350°F using a compensated-geometry bead of 0.60 of a half round circle.