



Unity™ Series Dispensing Systems



Precise, repeatable dispensing of heated and ambient materials from syringes, cartridges and other common package sizes.

Nordson Unity dispense systems provide accurate dispensing and optimize efficiency of heated and ambient materials from 30 cc syringes, 294 ml cartridges and other common package sizes. Unity dispensers help extend the useful life of the syringe or cartridge to maximize material use and minimize residual waste.

Unity systems utilize a variety of nozzles and needles to meet the stringent requirements for precise material dispensing in exacting processes such as handheld electronics and medical device manufacturing. Unity technology helps improve production and performance of applications including bonding, sealing, gasketing, encapsulation and attachment.

With systems ranging from manual handheld dispensers to complete three-axis robot work stations, Unity systems can be configured to meet specific requirements.



Unity IC Series

- Pneumatic modules deliver consistent dispensing and clean cutoff for beads or dots.
- Vision detection system provides integrated inspection, proprietary compensation and feedback.
- Operating costs are reduced by prolonging cartridge life and minimizing bead width variation.
- Three-axis robot eliminates manual operations.



Unity PS Series

- Time and pressure delivery system.
- Open needle design uses disposable, stainless-steel dispensing needles.
- Standard single head system can be expanded to four heads.
- Three-axis robot offers complete work cell with small footprint.



Unity MC Series

- Easy-to-use, handheld dispenser simplifies use of 30 cc syringes.
- Compact, portable design is ideal for design houses and job shops.
- Heater jackets help maintain material temperature and protect operators.

Features Guide

	Unity MC30	Unity PS30	Unity IC30	Unity PS300	Unity IC300	Unity 2K
Container Size	30 cc syringes	30 cc syringes	30 cc syringes	294 ml cartridges	294 ml cartridges	Various
Compatible with x,y,z Robot	No	Yes	Yes	Yes	Yes	Yes
Minimum Deposited Bead Width (mm)	~1 mm	<1 mm	<0.5 mm	<1 mm	<0.5 mm	<1 mm
Vision-based Bead Verification	No	No	Yes	No	Yes	Yes
Patented Integrated Controller System	No	Yes	Yes	Yes	Yes	Yes
Automatic Compensation to Control Bead Size	No	No	Yes	No	Yes	Yes
OEM Version Available (no robot)	N.A.	Yes	Yes	Yes	Yes	Yes
x,y,z Robot Included	N.A.	Yes	Yes	Yes	Yes	Yes
Number of Heated Dispensing Heads Available	N.A.	1 to 4	1 to 4	1 to 2	1 to 2	Various
Utilized Stainless-steel Dispensing Needles	Yes	Yes	No	Yes	No	No
Pneumatic Actuated Dispensing Module	No	No	Yes	No	Yes	No
Removable/Interchangeable Nozzles	Yes	Yes	Yes	Yes	Yes	Yes

Available Options

- Pre-warmers
- Multiple Dispense Heads/Controllers
- Variety of robot specifications
- OEM version (without robot)
- TAH™ static mixers
- Cartridge adapters (1:1, 2:1, 10:1)
- Modules/nozzles
- Stainless steel needles
- Custom configurations

Unity Pre-warmers

- Preheat material or purge to minimize changeover delays.
- Easy-to-use temperature control.
- Accommodates from one to four 30 cc syringes at a time.
- Compatible with Unity IC and Unity PS 30 cc dispensers.

Note: Key electrical components are UL-recognized



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