

Unity™ Series

Dispensing Systems



Precise, repeatable dispensing of heated materials from syringes.

Nordson® Unity dispense systems provide accurate dispensing and optimize efficiency of heated materials from 30 cc syringes, and are ideally suited to dispense heated PUR adhesives. Unity dispensers help extend the useful life of the syringe to maximize material use and minimize residual waste.

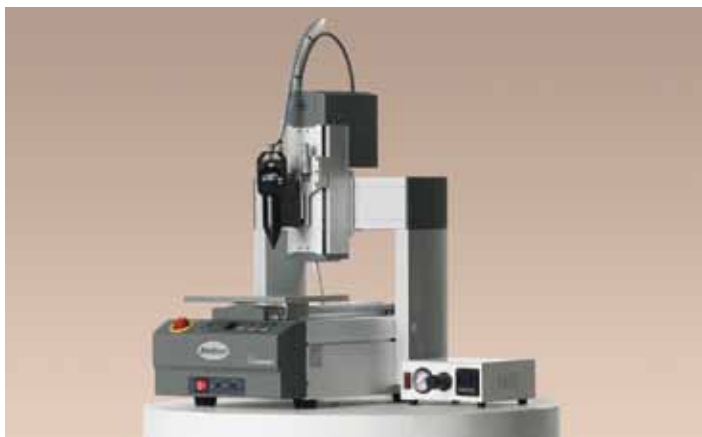
A variety of technologies meet the stringent requirements for precise material dispensing in exacting processes such as handheld electronics and medical device manufacturing. This helps improve production and performance of applications including bonding, sealing, gasketing, encapsulation and attachment.

With a variety of systems and accessories, Unity solutions can be configured to meet specific requirements.



Unity PURJet™ Series

- Consistent dispensing and clean cutoff for beads or dots.
- Patented jetting technology means Z plane doesn't need to constantly adjust for changing surface contours.
- Applies at high speeds with precise accuracy.
- Accommodates a wide variety of hot melt materials including polyurethane (PUR).
- Easily dispenses into 0.5 mm grooves and other challenging geometries.
- Optimizes adhesive wetting of substrates for improved strength and impact resistance.



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 IC Series

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

	PURJet 30	IC30	PS30
Container Size	30 cc syringes	30 cc syringes	30 cc syringes
Compatible with x,y,z Robot	Yes	Yes	Yes
Minimum Deposited Bead Width (mm)	*	<0.5 mm	<1 mm
Positive Volumetric Output	Yes	No	No
Non-contact Dispensing	Yes	No	No
Optimized Adhesive Wetting for Strength and Impact Resistance	Yes	No	No
Patented Integrated Controller System	Yes	Yes	Yes
Vision-based Compensation to Control Bead Size	No	Yes	No
Available with or without Robot	Yes	Yes	Yes
Utilizes Stainless-steel Dispensing Needles	Yes	Yes	Yes
Pneumatic Actuated Dispensing Module	Yes	Yes	No
Removable/Interchangeable Nozzles	Yes	Yes	Yes

*Dot size approximately 1.1 mm depending on substrate; bead weight 0.22 mg minimum; can dispense in 0.5 mm grooves.

Available Options

- Pre-warmers
- Variety of robot specifications
- Modules/nozzles
- Stainless steel needles



Unity Pre-warmers

- Preheat adhesive or purge materials to minimize changeover delays.
- Easy-to-use temperature control.
- Accommodates from one to four 30 cc syringes at a time.
- Compatible with all Unity 30 cc dispensers.

Note: Key electrical components are CE/UL-recognized

For more information, speak with your Nordson representative or contact your Nordson regional office.

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