

Unity™ PJ30XT and PJ300XT

Dispensing Systems

Precise, non-contact dispensing of heated materials from syringes

Nordson® Unity™ PURJet dispensing systems provide accurate high-speed dispensing of heated PUR adhesives and other heated materials 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 height of the substrate**
- **Non-contact dispensing applies adhesive accurately at high speeds, easily dispensing into small grooves**
- **Accommodates a wide variety of hot melt materials including polyurethane (PUR)**
- **Dispenses discrete dots of adhesive that can be overlapped to create a precise bead of material**
- **Capable of continuous cycles at 167 Hz**
- **Improved jetting performance by reduced adhesive accumulation**
- **Increased application flexibility with adjustable stroke**

Benefits

- **No need to maintain a constant dispense gap, thereby eliminating the need of height sensors and the process time to make the height measurements**
- **Pneumatic modules deliver consistent dispensing and clean cutoff for beads**
- **Long-life PJ30XT and PJ300XT applicators offer an affordable solution with fewer parts and less required maintenance, reducing long-term costs**
- **Dual heating zones with precise temperature controls in PURJet 300XT applicators preserve adhesive life by maintaining a lower temperature in the cartridge while heating to the required application temperature in the manifold and module**
- **Use of 300 ml cartridge in the PURJet 300XT applicator allows for less frequent fluid package changeover, reducing labor and packaging costs**
- **Increases operation efficiency with optional disposable barrels, eliminating time spent cleaning and refilling syringes**



Unity™ PJ30XT and PJ300XT Dispensing System

Specifications

Model:	Unity PJ30XT applicator	Unity PJ300XT applicator
Weight:	1.6 kg (3.4 lb)	3.36 kg (7.4 lb)
Adhesive viscosity:	Varies depending on nozzle size and flow rate	Varies depending on nozzle size and flow rate
Solenoid valve air flow:	15 scfm minimum	15 scfm minimum

Electrical Specifications

Model:	Unity PJ30XT applicator	Unity PJ300XT applicator
Supply voltage:	200-240 VAC, 1 phase, 50/60 Hz, 250 W (supplied from controller)	
Sensor type:	120 ohm nickel	
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)

Available Options

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

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

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