

Unity™ 4XP

Automated Dispensing Systems

A complete, vision-guided automation solution



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

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



Specifications

Item/Model	Unity 4XP
Number of Axes	3 Axes
Max. Working Area (X/Y/Z)	350/400/100mm
Work piece payload	10 kg
Tool Payload	8 kg
Maximum Speed	500/250 mm/sec
Unit Weight	58.5 kg
Dimensions (WxDxH)	811x647x705 mm (32x2.5x28 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, 100-240V 380W
Interpolation	3 axes (3D space)
Repeatability	±0.01mm
Working Temperature	10-40°C
Teach Pendant	--
Closed-loop Motor System	Included
Tip Detection System	Included
High-precision Vision	Included
Laser Height Detection	Optional

CE, RoHS, WEEE, and China RoHS compliant

Available Options

- Laser Kits featuring clear and opaque surface reflective



Optional Laser Kit A

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

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