

Harmony™ Module

Continuous and Intermittent

Interchangeable modules that adapt to any application



The Harmony dispensing modules support applications ranging from continuous spray or slot coating to demanding ultra-high-speed intermittent applications.

Modules feature materials and coatings to deliver exceptional life and compatibility with a wide range of materials, including those with an abrasive or corrosive nature. Also, rebuilds are fully supported with convenient kits to reduce the cost of ownership.

Continuous Module: These modules are engineered for continuous spray or slot dispensing applications. Harmony continuous modules feature a robust and proven ball-and-seat design. The solenoid can either be integrated with a single module or a group of continuous dispensing modules.

Intermittent Modules: Harmony intermittent modules are available in two different options and are engineered to accommodate intermittent spray or slot dispensing applications. All intermittent modules feature a high-performance retract-on-close needle and seat design to enhance leading and trailing pattern edges.

Solenoids are integrated with modules and serviceable via a quick-exchange provision. Standard and premium intermittent modules are available. Premium modules meet the needs of demanding ultra-high-speed intermittent dispensing applications. Premium modules are compatible with OptiStroke™ needle detection system, which delivers intermittent dispensing performance verification for quality assurance and reduction in waste.

Features

- Available in continuous, standard intermittent, and premium high-speed intermittent options
- Fast, consistent response over the life of the module
- Improved pattern uniformity in coating direction; reduced “hammerhead”
- Interchangeable, common bore dispensing modules
- Highly engineered modules feature proprietary coatings
- All offerings are fully rebuildable with convenient kits
- OptiStroke™ compatibility (Premium Intermittent modules only)

Benefits

- Continuous and intermittent modules may be combined on the same applicator to accommodate pattern requirements
- Ability to create shorter patterns or shorter pattern gaps at high production speeds
- Pattern positions are maintained even in high-speed intermittent applications with minimal need to compensate for timing
- Expanded compatibility with a broad spectrum of adhesives
- Modules can be updated in the field to convert continuous to intermittent applications and vice versa.
- Extended service life to reduce total cost of ownership
- Module response verification through needle stroke detection



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Specifications

Intermittent Modules

Hydraulic Flow @25Bar ³	185 grams per minute at 10,000 centipoise
Actuation Air Pressure ¹	5 to 6 bar (73 to 88 psi) recommended
Cycle Rate “Premium” ²	Up to 15,000 cycles per minute or 4 milliseconds for on/off cycle
Cycle Rate “Intermittent” ²	Up to 12,000 cycles per minute or 5 milliseconds for on/off cycle
Solenoid Voltage	21.6 to 26.4 VDC
Solenoid Actuation “Premium”	1.9 A ⁴ per Solenoid
Solenoid Actuation “Intermittent”	1.1 A ⁴ per Solenoid
Solenoid Connection	M8 3-pin connector
Solenoid Air Consumption	75 Liters/min (2.6 cubic feet/min) @ 15,000 cycles/min

Continuous Modules

Hydraulic Flow @25 Bar ³	340 grams per minute at 10,000 centipoise
Actuation Air Pressure ¹	5 to 6 bar (73 to 88 psi) recommended
Solenoid Voltage	21.6 to 26.4 VDC
Solenoid Power Consumption	3 W per Solenoid
Solenoid Connection	M8 3-pin connector

1 Oil-free air must be used.

2 Maximum number of cycles depends on operating and control air pressures, and adhesive viscosity.

3 The hydraulic flow rate depends on operating system pressures and adhesive viscosity

4 Measured directly at the solenoid connector



**Premium & Continuous
Module Combination**



**Intermittent
Modules**



**Continuous
Modules**

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

United States

Duluth, Georgia
(800) 234-0506 **Phone**
(866) 667-3329 **Fax**

Canada

Markham, Ontario
(800) 234-0506 **Phone**
(866) 667-3329 **Fax**

Europe

Erkrath, Germany
(49) 211-9205-0 **Phone**
(49) 211-254658 **Fax**

Japan

Tokyo, Japan
(81) 3-5762-2700 **Phone**
(81) 3-5762-2701 **Fax**

Asia/Australia/ Latin America

Amherst, Ohio
(440) 985-4797 **Phone**
(440) 985-1096 **Fax**

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