

Series H-100 Reduced Cavity Hot Melt Dispensing Guns



Reduced cavity design and compact size improve performance and reduce operating costs.

Nordson® Series H-100 reduced cavity hot melt dispensing guns introduce clog-free operation to a low-profile design for enhanced case sealing performance. The integrated nozzle-and-needle assembly produces a self-cleaning action and sharp adhesive cut-off. The result is uniform beads and consistent flow.

- **Self-cleaning action reduces downtime due to nozzle clogging.**

- **Integrated needle-and-nozzle assembly reduces nozzle replacement costs.**

Compact size adds flexibility.

Series H-100 dispensing guns are ideal for low-profile applications with short compression sections. Close multi-module centerlines as small as 0.63 inch (16 mm) extend mounting and pattern flexibility in confined spaces.

In addition to single-module guns, standard guns are available in two, four and six-module configurations with various centerline spacings. Interchangeable extrusion modules are easy to clean and replace.

Improve product quality and reduce rejects.

Complementing reduced cavity cut-off, H-100 guns operate as air-open air-close (AOAC). This AOAC function provides a strong



Model H-104 Reduced Cavity Dispensing Gun

closing force to minimize stringing, especially with aggressive and pressure-sensitive materials. Multiple modules open and close with synchronous precision, providing repeatable bead lengths without fine tuning. A performance-matched solenoid delivers consistent opening and speeds exceeding 4500 cycles per minute for a wide range of low-to-medium viscosity adhesives.

Precision manufacturing of the nozzle-and-needle assembly delivers dependable adhesive flow and consistent nozzle-tip temperature. Your operation gains superior extrusion control and pattern repeatability.

Reliable design delivers dependable performance.

Series H-100 modules feature two spring-loaded seals to extend module life and eliminate air section failure. These long-life hydraulic seals help improve operating life and minimize maintenance and downtime.

Series H-100 Reduced Cavity Hot Melt Dispensing Guns .



High-capacity solenoids deliver fast cycle speeds and consistent opening.

Features and Benefits

- Integrated nozzle-and-needle assembly resists clogging to reduce downtime and maintenance costs.
- AOAC actuation provides strong closing force that minimizes stringing, especially with aggressive and pressure-sensitive materials.
- Integral 50-mesh filter prevents clogging at startup.
- Factory-set stroke and spring-loaded seals provide pattern consistency and extend service life.
- RTD sensors combined with solid-state proportional controls hold to within $\pm 1^{\circ}\text{F}$ (0.5°C) of setpoint, improving bead uniformity.
- Quick-disconnect electrical plugs speed installation and maintenance.
- Advanced components and design techniques provide compliance with worldwide approval codes.

Multi-Module Standard Centerlines – in. (mm)

H-101	N/A	
H-102 straight and 12°	0.22 (5.6)	
H-104 straight, 12° and 90°	3 x 0.22 (3 x 5.6)	0.22, 0.38, 0.22 (5.6, 9.7, 5.6)

Specifications

- | | |
|---|--|
| Operating Temperature
450° F (230° C) maximum | Integrated Nozzles**
0.008, 0.012, 0.016, 0.020 in.
(0.20, 0.30, 0.41, 0.51 mm) |
| Operating Air Pressure*
50 to 80 psi (3.4 to 5.5 bar) | Solenoid Valves***
Nordson 24 VDC high-temperature solenoids factory installed |
| Working Hydraulic Pressure
1500 psi (103 bar) maximum | Electrical Service
240 VAC, 50/60 Hz
200 VAC, 50/60 Hz optional |
| Operating Speed
Exceeds 4500 cycles per minute | |

Notes:
* Recommended range. Dry, regulated, unlubricated air required for consistent gun operation.
** Specify nozzle diameter at time of purchase; nozzles are an integral component of the reduced cavity gun modules.
*** Nordson specifies 24VDC high-temperature valves for pattern accuracy and extended service life. Minimum recommended capacity is 0.5 Oz.

Dimensions

