Precise support of low- to mid-speed elastic attachment

**EZ Spray elastic attachment nozzles:**

- Stabilize elastic strand position with patented integral guides
- Optimize adhesive placement
- Improve creep resistance
- Reduce adhesive consumption
- Improve product quality
- Extend service life with durable all-steel construction

Nordson® EZ Spray nozzles for elastic attachment consistently apply hot melt adhesive to elastic strands used for elasticized features on baby diapers, training pants, and adult incontinence products. EZ Spray nozzles maintain consistent adhesive delivery at low- to mid-production speeds from 25-250 m/min. Production efficiency is enhanced with a robust design for nozzle durability and simplified cleaning and inspection.

The EZ Spray elastic attachment nozzles use an integral strand guide to stabilize the elastic strand at the point of application for reliable bonding. Four radially-tangential air streams oscillate the individual adhesive filaments, producing a cross-web pattern that enhances bonding performance. The nozzles deliver uniform, repeatable deposition strand-to-strand for low variability and enhanced product performance.

EZ Spray elastic attachment nozzles are made to order for specific elastic configuration requirements. Nozzles are made of all steel construction and use a proprietary coating to enhance durability and wear resistance.

EZ Spray nozzles are compatible with UM25 and UM50 modules for basic intermittent adhesive applications. Common Universal™ parts minimize inventory and simplify service.

A serviceable, surface-mounted elastomeric o-ring prevents leaks. The module screw applies uniform nozzle clamping for a positive hydraulic seal and thorough heating. Nozzles are easily cleaned and withstand repeated handling.
EZ Spray™ Elastic Attachment Nozzles

Specifications

Module Compatibility
UM25 and UM50 modules

Materials of Construction
Stainless steel with hard-release coating

Nozzle Orifice Sizes
0.51 mm (0.020 in.)

Nozzle to Elastic Distance
Contact

Adhesive Flow
2.5 to 25 grams per minute per orifice

Maximum Add-on Weight
25 to 100 milligrams/strand/meter

Production Speed Capability
25 to 250 m/min (82 to 820 ft/min)

Adhesive Viscosity
4,000 to 8,000 centipoise (recommended)

Operating Temperature
70⁰ to 205⁰ C (160⁰ to 400⁰ F)

Air Consumption
0.07 to 0.21 scfm per strand

Air Pressure
0.3 to 1.5 bar (5 to 21.8 psi)

Working Hydraulic Pressure
13.8 to 55.2 bar (200 to 800 psi)

Maximum Hydraulic Pressure
89.6 bar (1300 psi)

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1 Results are typical and may vary based on specific adhesive and application.
2 Dependent upon desired spray pattern and distance of air regulator from nozzle.

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EZ Spray nozzles can be ordered to meet specific elastic configurations. EZ Spray nozzles’ integral strand guides stabilize elastic strands for reliable coating.