EZ Spray™
Nozzles for Construction Applications

Provide repeatable adhesive patterns to meet application requirements in low- to mid-speed adhesive bonding processes

**EZ Spray nozzles:**
- Control adhesive fiber size, density and pattern width for better bond performance
- Add-on weight as low as 2 grams/m² at 25 m/min
- Reduce heat distortion on thinner materials
- Compatible with Universal™ module platform
- Release coated to allow EZ cleaning

Nordson® EZ Spray nozzles maintain cross-web uniformity at production speeds from 25-250 m/min, delivering superior control of hot melt adhesive fiber size, density and pattern width for laminating applications. Production efficiency is enhanced with a robust design delivering nozzle durability and simplified cleaning and inspection.

Non-contact nozzles use four radially-tangential air streams to oscillate the individual adhesive filaments, producing a cross-web pattern that enhances bonding performance. With fiber sizes from 40 to 80 microns producing low-density, large-fiber patterns, bond strength is maximized while the open pattern supports permeability, breathability and absorbency.

Add-on rates as low as 2 grams per square meter at 250 meters per minute (820 fpm) reduce adhesive usage and improve appearance. Tight edge control of ±2 millimeters (±0.08 in.) without overspray further minimizes adhesive waste. Standard nozzles are made of brass with a proprietary coating to enhance durability and wear resistance.

EZ Spray nozzles are compatible with UM25 modules for basic intermittent adhesive applications and UM50 modules for continuous application. Non-handed partial-width nozzles orient for left or right coverage. Common Universal™ parts minimize inventory and simplify service.

A serviceable, surface-mounted elastomeric o-ring prevents leaks while the module screw applies uniform nozzle clamping for a positive hydraulic seal and thorough heating. EZ Spray nozzles are easily cleaned and withstand repeated handling.
Specifications

Module Compatibility: UM25 and UM50 modules
Materials of Construction: Brass with hard-release coating
Edge Control: ±2 mm (±0.08 in.)
Nozzle Orifice Sizes: 0.4 mm (0.016 in.)
Nozzle to Substrate Distance: 10 to 18 mm (0.38 to 0.71 in.); 12 mm recommended
Maximum Hydraulic Flow: 25 grams per minute per nozzle at 6,000 centipoise
Maximum Add-on Weight: 4 GSM @ 250 m/min
Minimum Add-on Weight: 2 GSM @ 250 m/min
Production Speed Capability: 25 to 250 m/min (82 to 820 ft/min)
Adhesive Fiber Size: 40 to 80 microns
Adhesive Viscosity: 2,200 to 6,000 centipoise (3,000 recommended)
Operating Temperature: 70⁰ to 205⁰ C (160⁰ to 400⁰ F)
Air Consumption: 0.25 to 0.75 scfm per strand
Air Pressure (Typical): 0.2 to 1 bar (3 to 15 psi)
Working Hydraulic Pressure: 1 to 20 bar (15 to 300 psi)
Maximum Hydraulic Pressure: 89.6 bar (1300 psi)

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.