Universal™ Summit® Nozzles

Improve bond strength and product quality in hot melt adhesive laminating applications.



Universal applicator with UM25 modules and Universal Summit nozzles

Universal Summit nozzles:

- Produce high bond strength at low add-on rates in continuous and intermittent operations
- Control adhesive fiber size, density and pattern width for better bond performance
- Reduce heat distortion on thinner materials
- Provide leak-free operation with serviceable, surfacemounted elastomeric seal

Universal Summit nozzles deliver superior control of hot melt adhesive fiber size, density and pattern width for numerous nonwovens and product assembly laminating applications. Controlled adhesive fiber deposition provides greater uniformity in the cross-web direction, improving product quality.

Non-contact nozzles use four radially tangential air jets to oscillate single adhesive fibers, producing a crossing web pattern that enhances bonding performance. Fiber sizes ranging from 50 to 100 microns add flexibility in producing low-density, large-fiber patterns for maximum bond strength; open patterns for absorbency; or highly dense fine-fiber patterns for heat-sensitive substrates.

Add-on rates as low as 1 gram per square meter at 300 meters per minute (1,000 fpm) reduce adhesive usage and improve appearance. Tight edge control of ± 2 millimeters (± 0.08 in.) without overspray further minimizes adhesive waste.

Nozzles are compatible with Universal series modules. These include UM22 and UM25 modules for less demanding intermittent operations, Speed-Coat® module for high-speed intermittent lines, UM50 module for continuous operations, high-speed electrically actuated E400U module, and UM3 module for metering applications. Full or partial-width nozzles tailor coverage to specific bonding requirements. Non-handed partial-width nozzles orient for left or right coverage.

Common Universal parts minimize inventory costs and simplify service. Universal modules accept other spray technologies that help reduce capital expenditures.



Universal[™] Summit[®] Nozzles

Specifications

Module Compatibility

Materials of Construction

Edge Control

Nozzle Orifice Sizes

Nozzle to Substrate Distance

Maximum Hydraulic Flow Maximum Add-on Weight

Production Speed Capability

Adhesive Fiber Size

Adhesive Viscosity (Recommended)

Operating Temperature

Adhesive Flow

Air Consumption

Air Pressure (Typical)

Working Hydraulic Pressure

Maximum Hydraulic Pressure

All Universal modules

Brass with hard-release coating, available in steel

±2 mm (±0.08 in.)

25 mm nozzles: 0.46 mm (0.018 in.)

22 mm nozzles: 0.51 mm (0.020 in.)

10 to 30 mm (0.38 to 1.2 in.)

20 mm (recommended)

100 grams per minute per nozzle at 10,000 centipoise

14 GSM @ 300 m/min, 10 GSM @ 400 m/min

10 to 400 m/min (33 to 1312 ft/min)

50 to 100 microns

1,500 to 10,000 centipoise

70° to 205° C (160° to 400° F)

2.5 to 25 grams per minute per orifice

0.50 to 1.0 scfm per nozzle 0.2 to 1 bar (3 to 15 psi)

13.8 to 55.2 bar (200 to 800 psi)

89.6 bar (1300 psi)



Universal Summit nozzles control adhesive fiber size, density and pattern width for better bond performance.



Universal UM50 modules and Summit nozzles meet the demands of continuous wide-web laminating applications.

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

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