

# Universal™ Spray Nozzles and Modules

Innovative hot melt adhesive spraying solutions keep you competitive.



### Non-contact adhesive spray using Universal nozzles provides:

- Adhesive savings with lower add-on rates than contact slot methods
- Improved quality and performance for product breathability, appearance, hand, permeability, and uninhibited and uniform elastic retraction
- Superior coverage of irregular surfaces
- Reduced heat distortion of thermally-fragile substrates
- Exacting pattern configurations for full and partial-width coverage, and dispensing in multiple orientations
- Improved nozzle-tip temperatures with greater area in contact with heated dispensing module

The single-platform design of Universal applicators, nozzles and modules gives you distinct advantages in meeting production requirements and improving product performance. Compatibility among components and interchangeable modules and nozzles eliminates the need for application-specific equipment. Common parts reduce inventory and maintenance costs, streamline service, and speed product changeovers.

### Universal nozzles provide more choices in tailored pattern dispensing.

Whatever your hot melt adhesive spray challenges, Nordson has a solution to meet and exceed your production demands. Universal spray nozzles provide a wide selection of operating characteristics that accommodate specific aesthetic and functional requirements, including coverage density, bond strength, and high-speed capabilities for intermittent coatings and laminations.

### High-tolerance manufacturing enhances service life.

Durable Universal nozzles stand up to the toughest environments and are available in materials designed to withstand the rigors of repeated cleaning and elevated industrial oven temperatures. Surface-mounted seals provide ease-of-service and prevent leaks. Nordson's precision manufacturing delivers repeatable performance you can count on.

# Universal platform enhances production flexibility.

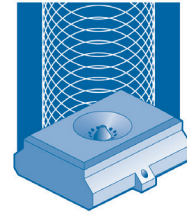
Process	Strengths/Application Requirements	Intermittent Capability	Bond Strength	Robust/Operating Range	Edge Control	Pattern Uniformity	Line Speed	Initial Investment
CF Nozzles <i>Narrow, Standard &amp; Wide Swirls</i>	High-strength bonding & elastic attachment	★	★★★	★★★	★★	★	★	★★★
Summit™ Nozzles <i>Narrow Swirls</i>	High-strength bonding pattern with resolution	★★	★★★	★★	★★	★★	★★	★★
Continuous Signature® Nozzles <i>Dense, Random Fibers</i>	High-speed, continuous coating	N/A	★★	★★★	★★	★★★	★★★	★★
Intermittent Signature® Nozzles <i>Dense, Random Fibers</i>	High-speed, intermittent coating	★★★	★★	★★	★★	★★	★★★	★★
Control Coat® Nozzles <i>Uniform, Fine Fibers</i>	High-speed intermittent, uniform coating	★★★	★	★	★★★	★★★	★★★	★
SureWrap® Nozzles <i>Dedicated Strand Coating</i>	Elastic attachment, optimized retractive force	★★	★★★	★★★	N/A	★★★	★★	★★
Allegro™ Nozzles <i>Dedicated Strand Coating</i>	Elastic attachment, ease-of-use, low variability	★★★	★★★	★★★	N/A	★★★	★★★	★★

★ Good   ★★ Better   ★★★ Best   N/A - Not applicable or not intended to provide this capability

# Nordson delivers more choices in productivity-enhancing spray solutions.

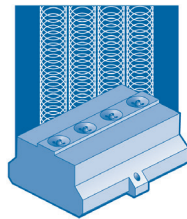
## CF® Nozzles

The pattern stability of Universal CF nozzles produces high bond strengths at low add-on rates for diverse applications. The smaller 22-millimeter-wide nozzle is compatible with both 22 mm and 25 mm module platforms. Wide operating windows and simplified dispensing maximize productivity for construction and elastic attachment applications.



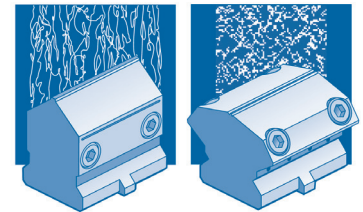
## Summit™ Nozzles

Crossing web patterns of Universal Summit nozzles enhance high-strength continuous and intermittent coatings and provide superior control of fiber size and pattern density. Pattern widths can be tailored with partial width designs. Available in economical coated brass or premium steel construction.



## Signature® Nozzles

Universal Signature nozzles produce random patterns with dense, uniform coverage while reducing process costs and overspray. Signature nozzles are highly resistant to nozzle clogging, and full steel construction imparts durability and ease-of-cleaning.



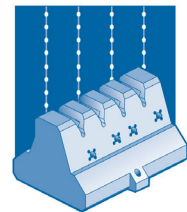
## Control Coat® Nozzles

The uniform fine-fiber coatings of Universal Control Coat nozzles produce breathable, permeable and soft product features for nonwovens and textile web laminations. Rigorous control of side, leading and trailing edges improves product quality. Control Coat nozzles produce an exceptionally uniform, slot-like coating.



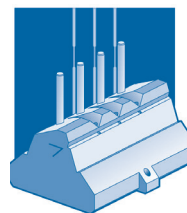
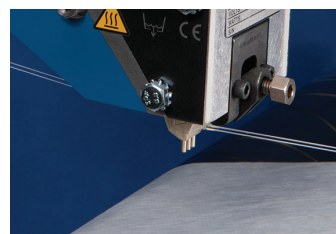
## SureWrap® Nozzles

With dedicated deposition, Universal SureWrap nozzles ensure uniform strand-to-strand coating and exceptionally low add-on rates, improving creep resistance in elastic attachment. Discrete point bonding yields exceptional elastic retraction and creep resistance.



## Allegro™ Nozzles

Patented Allegro nozzles use novel technology to coat the entire elastic strand while maintaining centers as close as two millimeters. Integral strand guides and process air after adhesive application help maintain bond performance and cleanliness even at high production speeds. Repeatable coating with very low variability enhances product performance including creep resistance and retractive force.



# Universal modules maximize dispensing performance.

Pneumatically-actuated Universal modules come in a variety of types optimized for specific application requirements. You get consistent operation day-after-day with field-proven valve technology that sets the standard in reliability.

## Cost-efficient design saves you money and downtime.

Extensive use of common parts and comprehensive Universal nozzle compatibility reduce spare parts requirements to minimize inventory. The patented single-screw clamp permits quick nozzle replacement, enabling fast changeovers and trouble-free cleaning. Plus, the uniform nozzle clamping of the module screw provides a positive hydraulic seal and better heating. All modules are offered in configurations compatible with the OptiStroke™ needle stroke detection system that reduces product waste and confirms dispensing performance.

## Service solutions protect your equipment investment.

Built for ease-of-service and long life, Universal modules feature a hard coating to facilitate cleanup and withstand demanding industrial use. Universal modules feature rebuildable components that simplify in-house maintenance and reduce cost of ownership through improved service life. Individual kits are available for on-site seal replacement and major sub-component rebuilding. With simple tools and preassembled cartridges, maintenance time is kept to a minimum. Nordson also offers economical factory-quality rebuilding through the ESP® Equipment Services Program.



**UM22 Module**  
Targets the installed base of legacy 7/8-in. (22.3 mm) spacing applicators



**UM25 Module**  
Best for mid-speed intermittent and continuous



**UM50 Module**  
An economical choice for wide-web continuous and low-speed intermittent



**Speed-Coat® Module**  
Best-in-class response and life for the most demanding high-speed intermittent applications

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

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