

Universal™ CF® Nozzles

Adhesive Dispensing Nozzles

Improve product performance and reduce hot melt adhesive usage.

Features and Benefits

- Produce high bond strength at low add-on rates
- Support numerous applications
- Create uniform and stable high frequency patterns



Universal applicator with UM50 modules and Universal CF nozzles

Universal CF nozzles deliver exceptional hot melt adhesive spray coverage, producing high bond strength at low add-on rates. Flexible design and pattern stability provide a versatile spray technology for numerous nonwovens, packaging and product assembly applications®.

Nozzles feature an array of 12 air orifices to uniformly distribute pattern air, which stabilizes adhesive patterns for better performance and stronger bonds. When used for elastic coating, manufacturers can reduce overspray, creep and adhesive usage up to 30 percent.

A serviceable o-ring provides a positive hydraulic seal, and the recessed conical tip protects against damage. The hard release coating facilitates cleaning and extends nozzle life. Common Universal parts minimize inventory and simplify service.

CF nozzles are compatible with Universal series modules to extend existing equipment investments. These include 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.

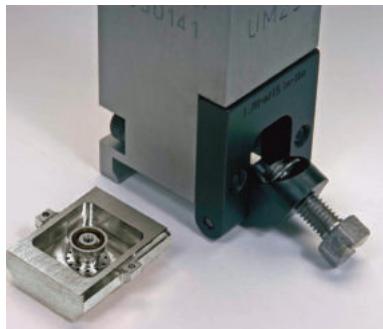
Universal™ CF® Nozzles Adhesive Dispensing Nozzles

Specifications

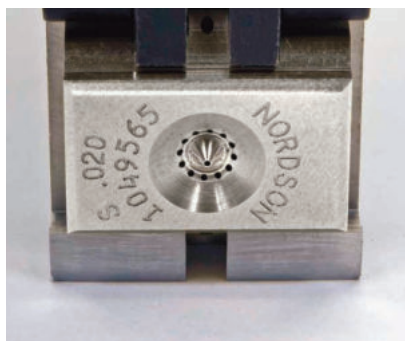
Module Compatibility	All Universal modules
Materials of Construction	Brass with hard release coating
Edge Control	±4 mm (±0.16 in.)
Nozzle Orifice Sizes	0.305 to 0.762 mm (0.012 to 0.030 in.)
Nozzle to Substrate Distance	12 to 75 mm (0.5 to 3.0 in.)
Maximum Hydraulic Flow	100 grams per minute per nozzle at 10,000 centipoise
Maximum Add-on Weight	30 GSM @ 150 m/min, 15 GSM @ 300 m/min
Production Speed Capability	10 to 350 m/min (33 to 1148 ft/min)
Adhesive Fiber Size	50 to 200 microns
Adhesive Viscosity (Recommended)	4,000 to 8,000 centipoise
Operating Temperature	70° to 205° C (160° to 400° F)
Adhesive Flow	10 to 250 grams per minute per nozzle
Air Consumption	0.25 to 1.0 scfm per nozzle
Air Pressure (Typical)	0.3 to 2 bar (5 to 30 psi)
Working Hydraulic Pressure	13.8 to 55.2 bar (200 to 800 psi)
Maximum Hydraulic Pressure	89.6 bar (1300 psi)



Universal nozzles cannot be over-torqued, which can permanently damage screw-on style nozzles or adversely affect spray performance.



Universal clamp design simplifies cleaning and maintenance.



Engraved part number, orifice diameter and spray pattern design provide easy identification.

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

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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.

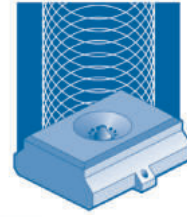
Process	Strengths/Application Requirements	Intermittent Capability	Bond Strength	Robust/Operating Range	Edge Control	Pattern Uniformity	Line Speed	Initial Investment
CF Nozzles <i>Narrow, Standard & Wide Swirls</i>	High-strength bonding & elastic attachment	★	★★★	★★★	★★	★	★	★★★
Summit™ Nozzles <i>Narrow 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.

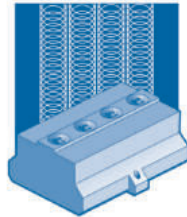
CF® Nozzles

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.



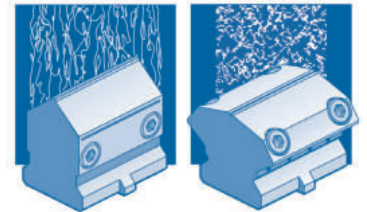
Summit™ Nozzles

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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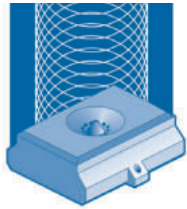
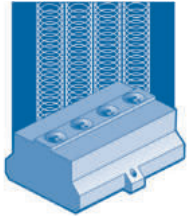


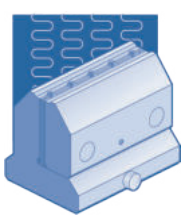
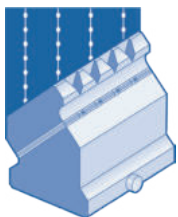
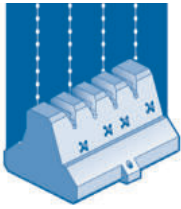



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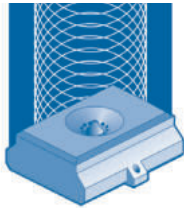
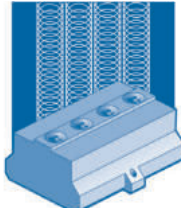


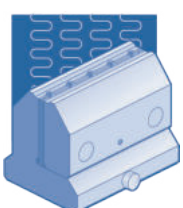
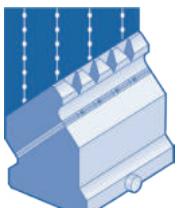


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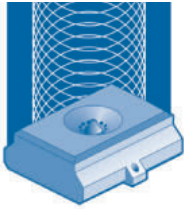
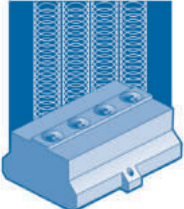


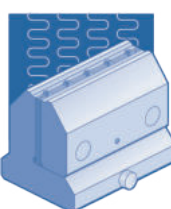
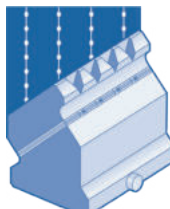


Product Comparison: Universal Nozzles - Core Spray Offerings

	CF® Nozzles	Summit™ Nozzles	Continuous Signature® Nozzles	Intermittent Signature® Nozzles	Rhythm™ Construction Nozzles	Rhythm™ Elastic Nozzles	SureWrap® Nozzles	Allegro® Nozzles
Nozzle								
Key Attributes	Overlapping spirals	Overlapping mini-spirals	Random fibers	High-speed intermittent	Non-crossing fibers	Point bonding of elastic	Point bonding of elastic	Coating of elastic
Module Compatibility	Universal module clamping feature							
Materials of Construction	Brass with hard-release coating	Brass with hard-release coating. Available in steel	Stainless steel base, clamp and shims, steel fasteners and elastomeric seal				Brass with hard-release coating and steel inserts. Available in steel	All steel
Edge Control	±4 mm (±0.16 in.)	±2 mm (±0.08 in.)				N/A		
Coating Width (per nozzle)	Full coverage 22 to 25 mm	Full coverage 22 to 25 mm coverage, or partial coverage (side or center justified)				Single or multiple elastic strands spaced as close as 3 mm on center		Single or multiple elastic strands spaced as close as 2 mm on center
Nozzle Orifice Sizes (22 and 25 mm)	0.305 to 0.762 mm (0.012 to 0.030 in.)	25 mm nozzles: 0.46 mm (0.018 in.) 22 mm nozzles: 0.51 mm (0.020 in.)	Standard: 0.5 x 0.5 mm (0.020 x 0.020 in.) Low flow: 0.4 x 0.4 mm (0.017 x 0.017 in.)	0.3 x 0.4 mm (0.012 x 0.016 in.)	Standard: 0.4 x 0.4 mm (0.017 x 0.017 in.) Low flow: 0.3 x 0.4 mm (0.012 x 0.017 in.)	0.3 x 0.3 mm (0.012 x 0.012 in.)	0.51 mm (0.020 in.)	0.51 mm (0.020 in.)
Nozzle-to-Substrate Distance	12 to 75 mm (0.5 to 3.0 in.)	10 to 30 mm (0.38 to 1.2 in.) 20 mm recommended	30 to 70 mm (1.18 to 2.76 in.)	20 to 40 mm (0.08 to 1.6 in.)	20 to 30 mm (0.08 to 1.2 in.) (20mm is recommended)	Contact		
Maximum Hydraulic Flow	100 grams per minute per nozzle at 10,000 cps	100 grams per minute per nozzle at 10,000 cps	150 grams per minute per nozzle at 5,000 cps	100 grams per minute per nozzle at 5,000 cps	100 grams per minute per nozzle at 6,000 cps	100 grams per minute per nozzle at 10,000 cps		

Product Comparison: Universal Nozzles - Core Spray Offerings

	CF® Nozzles	Summit™ Nozzles	Continuous Signature® Nozzles	Intermittent Signature® Nozzles	Rhythm™ Construction Nozzles	Rhythm™ Elastic Nozzles	SureWrap® Nozzles	Allegro® Nozzles
Nozzle								
Maximum Add-on Weight	30 GSM @ 150 m/min, 15 GSM @ 300 m/min	14 GSM @ 300 m/min, 10 GSM @ 400 m/min	14 GSM @ 300 m/min, 7 GSM @ 600 m/min			25 to 100 milligrams per strand per meter @ 600 m/min	25 to 100 milligrams per strand per meter @ 450 m/min	25 to 100 milligrams per strand per meter @ 650 m/min
Production Speed Capability	10 to 350 m/min (33 to 1,148 ft/min)	10 to 400 m/min (33 to 1,312 ft/min)	10 to 650 m/min (33 to 2,132 ft/min)	10 to 650 m/min (33 to 2,132 ft/min)	50 to 600 m/min (165 to 1,969 ft/min)	100 to 600 m/min (330 to 1,969 ft/min)	100 to 500 m/min (330 to 1,640 ft/min)	200 to 650 m/min (660 to 2,132 ft/min)
Adhesive Fiber Size	50 to 200 microns	50 to 100 microns				N/A		
Adhesive Viscosity (recommended)	4,000 to 8,000 cps	1,500 to 10,000 cps	1,000 to 3,000 cps	1,000 to 6,000 cps		8,000 to 15,000 cps (10,000 cps recommended)		4,500 to 8,000 cps
Operating Temperature	70° to 205° C (160° to 400° F)							
Air Consumption	0.25 to 1 scfm per nozzle	0.50 to 1 scfm per nozzle	0.50 to 0.75 scfm per nozzle	0.50 to 2 scfm per nozzle	0.50 to 1 scfm per nozzle	0.08 to 0.21 scfm per strand	0.07 to 0.21 scfm per strand	0.08 scfm per strand
Air Pressure (typical)	0.3 to 2 bar (5 to 30 psi)	0.2 to 1 bar (3 to 15 psi)	0.3 to 1 bar (5 to 15 psi)	0.5 to 2 bar (7.5 to 30 psi)	0.2 to 0.5 bar (3 to 7 psi)	0.5 to 1.5 bar (7 to 21.8 psi)	0.3 to 1.5 bar (5 to 21.8 psi)	0.3 to 0.7 bar (4.4 to 10.3 psi)
Working Hydraulic Pressure	13.8 to 55.2 bar (200 to 800 psi)	13.8 to 55.2 bar (200 to 800 psi)	3.4 to 17 bar (50 to 250 psi) at nozzle	5 to 20 bar (74 to 294 psi) at nozzle	13.8 to 55.2 bar (200 to 800 psi)			6.8 to 40.1 bar (100 to 600 psi)
Maximum Hydraulic Pressure	89.6 bar (1300 psi)							

Product Comparison: Universal Nozzles - Core Spray Offerings

	CF® Nozzles	Summit™ Nozzles	Continuous Signature® Nozzles	Intermittent Signature® Nozzles	Rhythm™ Construction Nozzles	Rhythm™ Elastic Nozzles	SureWrap® Nozzles	Allegro® Nozzles
Nozzle								
Strengths/ Application Requirements	High-strength bonding	High-strength coating	High-speed, continuous coating	High-speed, intermittent coating	High-speed High-strength coating	Elastic attachment, optimized retractive force	Elastic attachment, optimized retractive force	Elastic attachment, ease-of-use, low variability
Intermittent Capability	★	★ ★	N/A	★ ★ ★	★ ★	★ ★	★ ★	★ ★ ★
Bond Strength	★ ★ ★	★ ★ ★	★ ★	★ ★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★ ★
Robust/ Operating Range	★ ★ ★	★ ★	★ ★ ★	★ ★	★ ★ ★	★ ★	★ ★ ★	★ ★ ★
Edge Control	★ ★	★ ★	★ ★	★ ★	★ ★	N/A	N/A	N/A
Pattern Uniformity	★	★ ★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★ ★
Line Speed	★	★ ★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★	★ ★ ★
Initial Investment	★ ★ ★	★ ★ ★	★ ★	★ ★	★ ★	★ ★	★ ★ ★	★ ★ ★

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

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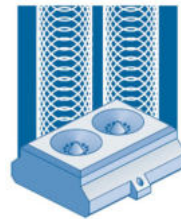



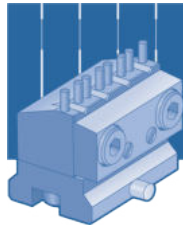
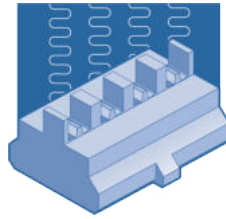
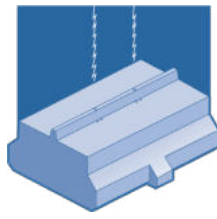
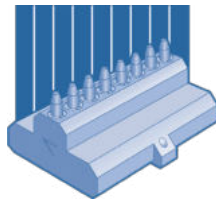


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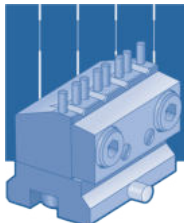
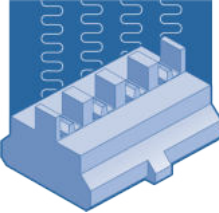
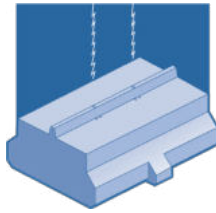
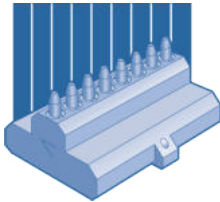
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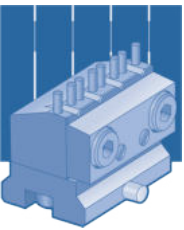
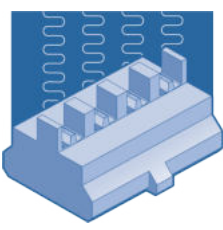

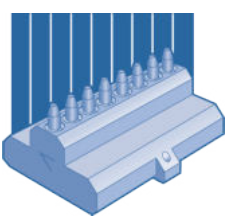
Product Comparison: Universal Nozzles - Other Spray and Slot Offerings

	Dual CF® Nozzles	Control Coat Nozzles	Continuous Contact Slot Nozzles	Intermittent Contact Slot Nozzles	Contact V-Slot Nozzles	Control Seam Nozzles	Control Stitch Nozzles	MiniBead Nozzles
Nozzle								
Key Attributes	Overlapping spirals	Uniform			Coating of elastic	Non-crossing pattern	Fine-stitch beads	Fine beads
Module Compatibility	Universal module clamping feature							
Materials of Construction	Brass with hard-release coating	Stainless steel	Steel			Brass with hard-release coating. Available in steel	Brass with hard-release coating	Brass with hard-release coating. Available in steel
Edge Control	±4 mm (±0.16 in.)	±1.5 mm (±0.06 in.)	±1 mm (±0.04 in.)	±1 mm (±0.04 in.)	N/A	±2 mm (±0.08 in.)	N/A	N/A
Coating Width (per nozzle)	Full coverage 22 to 25 mm	Full coverage 22 to 25 mm coverage, or partial coverage (side or center justified)			Quantity of strands with pin - up to 5 without pin - up to 10	Full coverage 22 to 25 mm coverage, or partial coverage (side or center justified)	N/A	N/A
Nozzle Orifice Sizes (22 and 25 mm)	0.305 to 0.762 mm (0.012 to 0.030 in.)	0.1 mm (0.004 in.) wide slot	0.2 mm to 0.3 mm (shim)	0.15 mm (shim)	i=0.2 mm (shim) c=0.4 mm (shim)	25 mm nozzles 0.46 mm (0.018 in.) 22 mm nozzles 0.51 mm (0.020 in.)	0.46 mm (0.018 in.)	0.305 to 0.762 mm (0.012 to 0.030 in.)
Nozzle-to Substrate Distance	12 to 75 mm (0.5 to 3.0 in.)	10 to 30 mm (0.38 to 1.2 in.)	Contact			10 to 20 mm (0.38 to 0.79 in.) 15 mm recommended	10 to 20 mm (0.38 to 0.79 in.) 15 mm recommended	3.8 to 6.5 mm (0.15 to 0.25 in.) 3.8 mm recommended
Maximum Hydraulic Flow	100 grams per minute per nozzle at 10,000 cps	50 grams per minute per nozzle at 10,000 cps, 14 GSM @ 300 m/min	50 grams per minute per nozzle at 10,000 cps, 14 GSM @ 300 m/min (Dependant on chosen shim’s thickness)			100 grams per minute per nozzle at 8,000 cps	100 grams per minute per nozzle at 8,000 cps	100 grams per minute per nozzle at 10,000 cps

Product Comparison: Universal Nozzles - Other Spray and Slot Offerings

	Dual CF® Nozzles	Control Coat Nozzles	Continuous Contact Slot Nozzles	Intermittent Contact Slot Nozzles	Contact V-Slot Nozzles	Control Seam Nozzles	Control Stitch Nozzles	MiniBead Nozzles
Nozzle								
Maximum Add-on Weight	30 GSM @ 150 m/min, 15 GSM @ 300 m/min	6.6 GSM @ 300 m/min, 3.3 GSM @ 600 m/min	13.2 GSM @ 300 m/min, 6.6 GSM @ 600 m/min	9.9 GSM @ 300 m/min, 5.8 GSM @ 600 m/min	0.1 g per strand per coated meter	14 GSM @ 300 m/min, 10 GSM @ 400 m/min	14 GSM @ 300 m/min, 10 GSM @ 400 m/min	1.0 to 12.5 grams per strand per min
Production Speed Capability	10 to 350 m/min (33 to 1,148 ft/min)	10 to 600 m/min (33 to 1,968 ft/min)				100 to 400 m/min (330 to 1,312 ft/min)	100 to 600 m/min (330 to 1980 ft/min)	10 to 650 m/min (330 to 2132 ft/min)
Adhesive Fiber Size	50 to 200 microns	25 to 75 microns	100 to 225microns	up to 112.5microns	150 to 300 microns	100 to 150 microns	100 to 150 microns	50 to 200 microns
Adhesive Viscosity (recommended)	4,000 to 8,000 cps	1,000 to 3,000 cps	1,000 to 10,000 cps	1,000 to 8,000 cps	1,000 to 10,000 cps	3,000 to 8,000 cps	3,000 to 8,000 cps	1,500 to 10,000 cps
Operating Temperature	70° to 205° C (160° to 400° F)							
Air Consumption	0.25 to 1 scfm per nozzle	0.5 to 1.5 scfm per nozzle	N/A			0.5 to 1 scfm per nozzle	0.5 to 1 scfm per nozzle	N/A
Air Pressure (typical)	0.3 to 2 bar (5 to 30 psi)	0.5 to 2 bar (7.5 to 30 psi)	N/A			0.5 to 1.5 bar (7.5 to 22.5 psi)	0.5 to 1.5 bar (7.5 to 22.5 psi)	N/A
Working Hydraulic Pressure	13.8 to 55.2 bar (200 to 800 psi)							
Maximum Hydraulic Pressure	89.6 bar (1300 psi)							

Product Comparison: Universal Nozzles - Other Spray and Slot Offerings

	Dual CF® Nozzles	Control Coat Nozzles	Continuous Contact Slot Nozzles	Intermittent Contact Slot Nozzles	Contact V-Slot Nozzles	Control Seam Nozzles	Control Stitch Nozzles	MiniBead Nozzles
Nozzle								
Strengths/ Application Requirements	High-strength bonding	High-speed intermittent, uniform coating	Continuous uniform coating	High-speed intermittent, uniform coating	Ease of use, coating of elastic	High-strength coating	High-strength bonding	High-strength bonding
Intermittent Capability	★	★ ★ ★	N/A	★ ★ ★	★ ★ ★ (i) N/A (c)	★ ★	★ ★	★ ★ ★
Bond Strength	★ ★ ★	★	★ ★	★ ★	★ ★	★ ★ ★	★ ★ ★	★ ★ ★
Robust/ Operating Range	★ ★ ★	★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★	★ ★	★ ★ ★
Edge Control	★ ★	★ ★ ★	★ ★ ★	★ ★ ★	N/A	★ ★	N/A	N/A
Pattern Uniformity	★	★ ★ ★	★ ★ ★	★ ★ ★	N/A	★ ★	★ ★ ★	N/A
Line Speed	★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★ ★	★ ★	★ ★	★ ★ ★
Initial Investment	★ ★ ★	★	★ ★	★ ★	★ ★ ★	★ ★	★ ★	★ ★

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

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