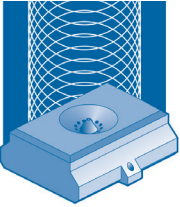
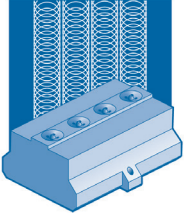


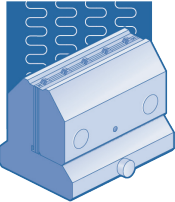
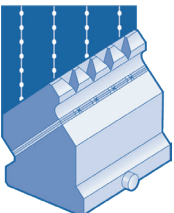
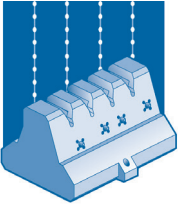
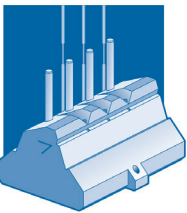
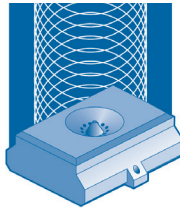
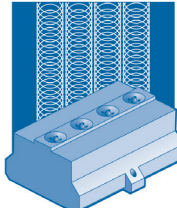


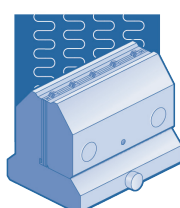
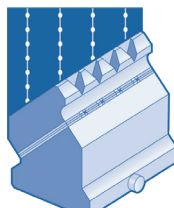
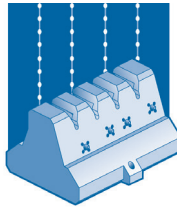
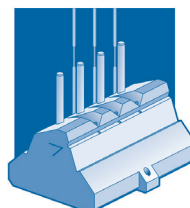


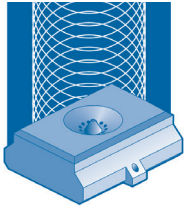
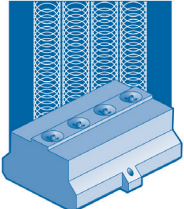


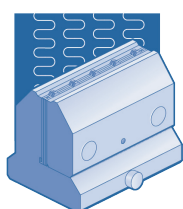
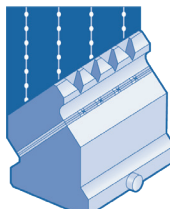
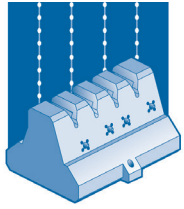
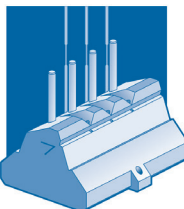
Product Comparison: Universal Nozzles - Core Spray Offerings

	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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