

Swirl™ Applicator

Modular electric swirl nozzle dispenses material in a variety of pattern widths with fine edge definition for precise application and consistent coverage.



Features and Benefits

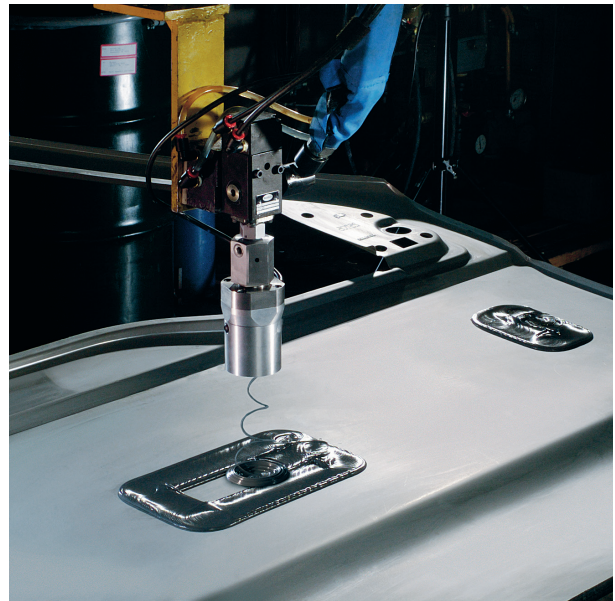
- **Rotating disc with multiple orbit diameters** provides a wide variety of pattern widths and profiles.
- Low-pressure drop** results in higher flow rates and precision application.
- Variable spray patterns from less than 1 inch to over 5 inches in width** for application versatility.
- Modular design** allows easy maintenance and reduced downtime.
- Air knife prevents material from flowing into the swirl bearing** for longer bearing life.
- Carbide nozzles** provide long service life.
- Operates at speeds up to 24,000 rpm** allowing for maximum pattern flexibility.
- Disposable cup liner** for easy cleaning.

The Nordson® Swirl Applicator nozzle is an electric orbital applicator designed for uniform deposition and excellent flow control. The Swirl Applicator nozzle applies material in swirl spray patterns ranging from less than 1 inch to over 5 inches in width dispensing a variety of adhesive and sealant materials.

Ideal for panel reinforcement, sound deadener, seam sealing and hem flange sealing applications. The Swirl Applicator nozzle can be fitted to a variety of Nordson dispensing systems.

Precise Material Application

The Swirl Applicator nozzle has minimal pressure drop to allow the system to run at lower pressures. An air knife prevents material from flowing upward into the nozzle. When used with the Nordson Pro-Flo® dispensing module or CP Pump, the Swirl Applicator nozzle minimizes material usage and provides precise, consistent bead profiles.



Swirl Applicator Controller

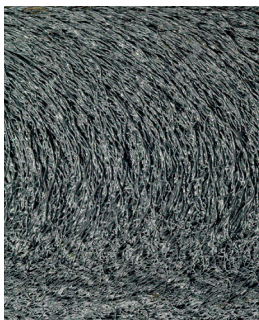
The controller monitors and controls the applicator and interfaces with a dispense system controller to provide precise application and consistent coverage. The controller stops, starts and adjusts applicator speed by controlling voltage to the motor for accurate operation. This controller allows for the simple retrofit to existing Nordson systems.



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Easy Maintenance

The modular design of the Swirl Applicator nozzle allows for easy maintenance and reduced downtime. Swirl bearings housed in the nozzle can be replaced without removing the gun from robot. In addition, a replaceable liner in the cup area eliminates manual cleaning, so there is no risk of pushing material into the swirl bearing. Swirl applicators are fitted with carbide nozzles to provide long service life.



Old method



New method

Technical Specifications

Swirl Applicator Nozzle	
Dimensions	2.3 in. x 2.3 in. x 5.9 in. (5.84 cm x 5.84 cm x 15 cm)
Operating Air Pressure	4.1-6.2 bar (60-90 psi)
Maximum Airflow	0.057 m ³ /min. (2 scfm)
Ambient Air Temperature	4-43°C (40-110°F)
Maximum Operating Speed	24,000 rpm
Maximum Fluid Pressure Ratings: Static Dynamic	241 bar (3500 psi) 83 bar (1200 psi)
Maximum Operating Temperature of Material	51°C (125°F)
Weight	1.1 lbs. (2.42 kg)

Swirl Applicator Controller	
Dimensions	17.5 in. x 14.5 in. x 10 in. (44.45 cm x 36.83 cm x 25.4 cm)
Voltage	85-264 Vac, 1 phase, 50/60 Hz
Full Load Amps	1 at 120 Vac
Circuit Breaker	5 amp
Remote Speed Signal	0-5 Vdc 0-10 Vdc (robot interface cable)



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