

Felt Tip/Flow Brush Dispensing System



Felt Tip/Flow Brush automated primer system dispenses single-part and two-part primers onto multiple substrates to clean and prime components prior to adhesive application.

The Nordson Felt Tip/Flow Brush primer system robotically applies solvents, cleaners and primers to a variety of substrates. The system can be configured for single stage applications or two stage applications involving clear and black primers for glass bonding. Other applications include dispensing cleaning agents onto plastic and metal components to clean the substrate prior to application of the adhesive, for optimal adhesion and long-term durability.

The standard Felt Tip/Flow Brush system consists of a bulk delivery system, one or two applicator tool with a pneumatic valve pack and system controller.

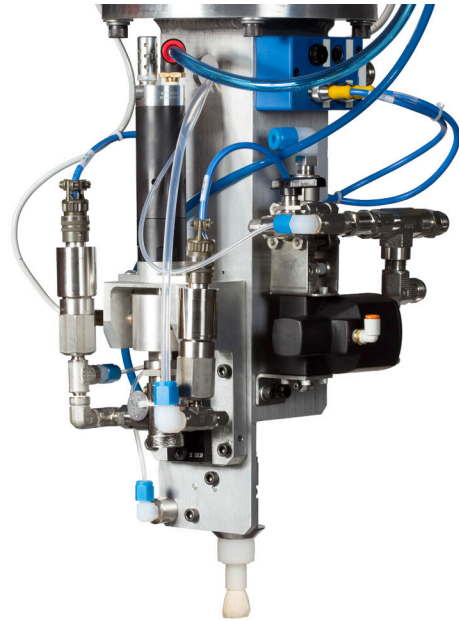
How It Works

Either a felt tip or a brush is attached to the outlet of a fluid valve. The felt or brush acts like an ink marker and applies the primer or cleaner to the substrate in the specified width and thickness. Different tips are available to change the width of the path. The tips are manually slipped onto the outlet of the valve that has an o-ring to ensure a leak free fit.

During down time, the tip can be stored in a fume which prevents shop air and moisture from reacting with the primer or cleaner on the tips to cure and harden the felt or brush.

Applicator

The applicator consists of a positive displacement metering pump mated to a pneumatically actuated dispense valve. The outlet of the valve is designed to accept a variety of felt tips and brush tips using an o-ring to ensure a fluid tight seal. Positive-displacement metering pumps mounted on the applicator, provide accurate point of dispense control of material flow. A proximity switch provides volume monitoring and confirms pump to air motor integrity by monitoring pump rotation. Pump inlet transducers monitor primer supplies, confirming sufficient material delivery to the applicator tool. Outlet transducers prove unobstructed material flow from metering pumps to the felt. Metering pump solvent flush valve eliminates risk of material curing in pump.



Features and Benefits

- **Automated process** removes operator interaction with primer materials.
- **Automated primer system** delivers consistent film builds and reduces primer waste, improving quality and reducing costs.
- **Bulk material supply** monitors and circulates primer, as appropriate, to ensure consistent application and material integrity.
- **A variety of felt and brush tips are available**, providing the end user flexibility to meet multiple applications and part geometry requirements.
- **Available PLC controls** provide the user with complete control over set-up, operation, adjusts and system diagnostics.



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Delivery System

Diaphragm pumps are used to deliver an uninterrupted flow of material to the metering pumps. For material that contains solids in suspension, like black primer, a return line can be added to keep the material in circulation which prevents sedimentation.

Material can be dispensed from the 5 gallon (20 liter) pail that they are delivered in using a T-handle siphon assembly. Pressure pumps are also available to pour the material in and then siphon out.

Bulk material supplies are monitored with either a level sensor or a load cell. Desiccant air dryers are used to dry the makeup air to prevent moisture from curing sensitive materials. Regenerative air dries are also available.

System Controller

The Felt Tip/Flow Brush primer system controller provides operators and plant personnel with a user-friendly PLC interface. Controller monitors and controls the function of both the applicator tool and delivery system. Touch-screen display provides for system set-up and adjustments, system status and diagnostic information. Multiple part IDs can be used to establish dispensed volume set points for a variety of part styles.

Technical Specifications

Delivery System	Height: 62.0 in (157.5 cm) Width: 60.0 in (152.4 cm) Depth: 40.0 in (101.6 cm)
Control Panel	Height: 60.0 in (152.4 cm) Width: 32.0 in (81.3 cm) Depth: 12.0 in (30.5 cm)
Applicator	Height: 17.8 in (44 cm) Width: 10 in (25.4 cm) Depth: 11.3 in (28.7 cm) Weight: 16.4 lbs. (7.4 kg)



The Felt Tip/Flow Brush Primer System is available with a variety of tips for added versatility.

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Why choose Nordson

In highly competitive manufacturing markets, productivity is vital and performance is essential. That's why we apply both to everything we do, whether it's our products, expertise or outstanding customer service. We'll always be there to help maintain the new standards you've set, with expert service and support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

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