Engineered Dispensing Systems
For the application of structural adhesives and sealants
MEETING YOUR APPLICATION REQUIREMENTS

**Equipment…and Total System Solutions**

The Nordson Automotive Systems Group is the recognized leader in engineered systems for the application of structural adhesives and sealants in automotive manufacturing.

We engineer, develop, install and service dispensing systems for automotive manufacturers and suppliers to meet exacting application requirements.

Nordson’s engineered systems approach draws on extensive industry experience. Using the latest computer-aided design and solid modeling tools, we provide:

- Innovative dispensing technology with extrude, stream and swirl capability
- Modular component design for reliable performance and maximum uptime
- Detection devices from flow to pressure for precise operating control
- Data logging and reporting options for precise analysis

From manual, stand-alone systems to PC interface systems with Internet capability, our engineered systems solutions include a full product line of controls, metering units, dispense valves and bulk unloaders that can be configured for most applications.

**Application Expertise**

Our reputation for commitment to customers’ success and satisfaction is earned with every installed system and is unparalleled throughout the industry.

- Expertise in application development and system design meeting specific material and plant requirements.
- Material testing and analysis for production capability.
- Concise, thorough documentation for reference throughout all stages of system operation.
- Equipment demonstrations on customer specific parts to test system performance prior to the sale to assure success and satisfaction.
- System staging prior to shipment to facilitate the installation process.
Wide Range of Automotive Applications
Nordson’s dispensing systems are engineered to meet the application requirements of:

Body/Stamping
- sealers, adhesives, stiffeners and sound deadeners

Trim and Final
- primers, urethane, butyls, hot melts, sound deadeners and form-in-place gaskets

Paint
- seam sealing, drip rails, sound deadeners

Quality is Key
To help you achieve environmental and economic goals, Nordson has met both QS9000 with Tooling and Equipment Supplement and ISO 14001 standards. These certifications attest to the design, manufacturing, marketing and distribution of our products and services that provide a framework for improving and maintaining effective environmental performance.

Support Services
Nordson has the expertise, resources and commitment to support the requirements of your project.

- An experienced project management team dedicated to solving your specific application questions or equipment problems.
- Expert installation specialists for timely, effective system integration.
- Technical assistance hotline for immediate response.
- Replacement parts in stock to meet normal or emergency situations.
- Factory direct service – 24/7/365 to respond quickly to your requests.
- Formal and hands-on training at Nordson or at your facility.
- Preventive maintenance packages for ongoing support.

At Nordson, we are committed to the highest standard of excellence in our products, people and services for your complete satisfaction.
Dispense Valves
Bulk Unloaders
Pedestal
Metering Units
Controls
Dispense Valves
Other System Components
NORDSON ENGINEERED SYSTEM SOLUTIONS...

**Metering Units**

- **CP Gun**
  - Controlled Pressure through a closely coupled precision regulator.
  - Proportional material flow at tool tip.
  - Compact lightweight design with quick change packing cartridges.

- **ProMeter® S**
  - Positive displacement meter designed for multiple shot sizes.
  - High accuracy and repeatability not affected by material viscosity changes.
  - Modular design with quick change packing cartridges.

**Controls**

- **PCI**
  - Personal Computer Interface with Internet access capability, color touch screen display, online manuals, help screens and data logging.
  - The PCI controls and monitors any of the Nordson metering units, pumps and TCUs. Multiple devices can be controlled with each PCI controller.
  - System status, process parameters, faults, set-up and preventative maintenance are displayed for ease of use in text and graphic format.

**Dispense Valves**

- **Auto-Flo™ Valve**
  - Automatic on/off valve for applications requiring accurate deposition and control with sharp material cut off.
  - Precision design for single or manifold mounting applications. Quick change packing cartridge can be easily replaced without removing from the automation.
  - Available in extrude/stream/swirl version, zero cavity, spray, anti-drool, and airless spray.

**Bulk Unloaders**

- **5 Gallon Rhino® SDII/XDII**
  - Bulk unloaders designed to dispense high-viscosity, ambient temperature adhesives and sealants for a variety of applications.
  - Designed for long life and easy maintenance with large internal passageways, few internal parts and quick change packing cartridges.
  - Options include casters, pail hold downs, PTFE seals, light towers and filter packages.
A RANGE OF DISPENSING PRODUCTS FOR ALL MATERIALS AND APPLICATIONS

**CP Pump**
- Constant Pressure for high flow applications.
- Two single acting pumps provide superior output and pressure control.
- Quick change packing cartridges provide a highly reliable and easy to maintain system.

**Pro-Meter® S2K**
- Modular design for easy maintenance and repair of components.
- Positive displacement meters not affected by viscosity changes.
- Flexible ratio control.

**Pro-Meter G**
- High output flow through gear metering unit in ambient or heated versions.
- Designed to automatically dispense high viscosity materials in proportion to the robot speed.
- Available with flow measurement and bubble detection for a robust system.

**Process Sentry™**
- Diagnostics controller provides a simple accurate method to monitor and control all critical dispense system functions.
- The VGA screen displays a wide range of system parameters and faults including dispensed volume, material supply pressure and TCU status.
- Also includes 32 Part ID capability and process data that can be downloaded for SPC reporting.

**PLC**
- Designed and built with commercially available PLC control and user interface components.
- Controls and monitors all dispensing parameters, fault handling requirements and data logging for reporting.
- Configurable for multiple number and types of I/O with the ability to control other peripheral devices in the workcell.

**AccuDrop™**
- Automatic valve with fixed shot volumes between 2.5 and 7.5 cc for precise metering. Ideal for mastics and adhesives in single or multi-valve applications.
- The fixed shot volume is accurate to within ±1 cc and has sensors to indicate fully dispensed and fully loaded conditions.
- Module design is simple to configure and easy to maintain while on the automation. Available with a variety of nozzle configurations.

**2K Valve**
- Robot mounted dispense valve provides extrude, stream or swirl patterns for two component structural adhesives.
- Temperature conditioned valve is available with a variety of static mix tubes for different materials and applications.
- Quick change packing cartridges on the anti-drool valves for simple maintenance on the automation.

**CE20 Valve**
- Ideal for high viscosity materials up to 3,000,000 cps such as urethanes and expandable sealers.
- Built with large passages and a flow through design for high output in automatic applications.
- Quick change packing design allows easy maintenance without removing the valve from tooling.

**55 Gallon Rhino® SDII/XDII**
- Bulk unloaders designed to dispense high viscosity, ambient temperature adhesives and sealants for a variety of applications.
- Designed for long life and easy maintenance with large internal passageways, few internal parts and quick change packing cartridges.
- Options include pump ratio, air motor size, automatic changeover, light towers, system depressurization, filters and delivery hoses.

**300 Gallon Rhino®**
- Bulk unloaders designed to dispense high viscosity, ambient temperature adhesives and sealants for a variety of applications.
- Designed for long life and easy maintenance with large internal passageways, few internal parts and quick change packing cartridges.
- Options include automatic changeover, light towers, system depressurization, filters and delivery hoses.
**BULK UNLOADERS**

**CONTROLS**

**DISPENSE VALVES**

A RANGE OF DISPENSING PRODUCTS FOR ALL MATERIALS AND APPLICATIONS

**Flow Monitor Control**

- Simple design is robust, cost effective and easy to use.
- LED display for volume dispensed with upper and lower control limits, purge button for manual/remote operation and thumbwheels for bead size control.
- Fault outputs are configurable for customer control requirements.

**Bulk Melters**

- Bulk melters designed to deliver hot melt adhesives, sealants and butyls from 5 or 55 gallon containers.
- Controls feature a multi-segment display, sequential startup, programmable over and under temperature alarms, temperature setback and automatic diagnostics.
- Can be configured with axial or smooth platens, multiple hose version, exhaust hood, light tower and week/day timer.

Your total system solution may consist of additional peripheral devices that are unique to your application and material requirements. To meet this need, Nordson offers pedestals, robot dress packages, filters, temperature conditioning units, material heaters and much more.

**Pro-Meter R**

- Integrated servo motor and pistons provide continuous flow/accurate volume control.
- Small footprint saves floor space.
- Compact design allows for close placement to application point.

**Flow-Through-Felt Primer System**

- Robotically applies both clear and black primers.
- Positive displacement metering pumps provide accurate point of dispense control over material flow.
- Pneumatic compliance, along with the accumulation effect provided by the felt, results in superior film builds.

**Swirl Applicator**

- Electric orbital applicator for uniform bead deposition and flow control with a variety of adhesives and sealants.
- Patterns and profiles can be applied from 1” to over 8” wide in a variety of film builds.
- Modular design for easy maintenance while on the robot, carbide nozzles for long life and disposable cup liners for simple cleaning.

**Other System Components**

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**Robot Dress Packages**

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**Pedestals**

**Temperature Conditioning Units**
GLOBAL STRENGTH FOR IMMEDIATE RESPONSE

Our integrated worldwide network includes direct operations in 34 countries. The Nordson team is comprised of knowledgeable, experienced professionals as well as research and testing facilities to assure that our customers gain the competitive edge.

Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.