Power Train Assembly Solutions

Automated adhesive and sealant dispensing systems for power train gasketing applications
The challenge for improvement is a constant when it comes to manufacturing automotive equipment. And with it comes the need to deliver products that consistently meet the industry’s performance specifications, while maintaining your own profitability.

When it comes to adhesive and sealant dispensing, no one can rise up to these challenges like Nordson. We are the world’s largest supplier of precision dispensing technologies. Our engineered system solutions are designed to deliver speed, lower costs and enhance product quality in your operations.

**Better Gaskets and Lower Costs**

Power train components use a compression gasket to form a permanent seal that is impervious to internally held fluids. They also protect power train components from external dirt, dust, water, moisture, oils, road salt and other particulates. Gaskets must be sealed to withstand extreme environmental and engine operating temperatures and are typically required to last 100,000 miles or 10 years. Typical applications include water pumps, oil pans, radiators, timing covers, transmission components and rocker arm covers.

Nordson automated systems allow manufacturers to robotically apply form-in-place or cure-in-place compression gaskets directly to the part, eliminating manual application. Replacing manual applications with proven systems from Nordson provides the following benefits:

- **Fast, repeatable gasket dispensing**
- **Accurate deposition and control**
- **Increased productivity**
- **Reduced material costs**
- **Consistent part quality**

What’s more, automated dispensing systems from Nordson are designed to handle today’s most advanced power train gasketing materials, including UV-cure silicones, moisture-cure silicones and UV/moisture-cure silicones, giving you the best in application flexibility.
A Wide Range of Solutions for Any Application Need

Nordson is the recognized leader in engineered application systems for structural adhesive and sealant dispensing in automotive manufacturing. We offer a wide range of solutions for power train assembly to meet most any application requirement.

**Ultra FoamMix® Applicators**
- Improve performance of most hot melt adhesives by mixing them with inert gas to create a closed-cell foam
- Reduce adhesive consumption up to 50 percent.
- Increase open time for greater flexibility.
- Achieve faster set time for increased line speeds and production rates.
- Enhance application versatility with improved wetting.
- Create stronger bonds from increased penetration

**Pro-Meter® S Meter**
- Robotic application eliminates labor-intensive manual application of single-part adhesives and sealants
- Excellent “bead on the part” appearance and bead control by combining shot meter technology with proportional control
- Uniform material application as the robot accelerates and decelerates along its programmed path
- Better adhesive bead profiles and faster cycle time due to precise flow control

**Rhino® Bulk Unloaders**
- Complete system flexibility: available in 5- and 55-gallon (20- and 200-liter) sizes and in ambient or warm-applied configurations
- Longevity and easy maintenance with simple control logic
- Modular design provides flexibility for changing application requirements
- Superior toughness when configured with available ScoreGuard® wear-resistant coating

**Pro-Meter® VDK System**
- Excellent combination of gear metering technology and compact size for form-in-place gasketing, bonding and sealing operations
- Achieve highly accurate material control with positioning close to the dispense point
- Better response time compared to pressure-fed systems

**Auto-Flo™ Dispensing Valves**
- Accurate deposition and sharp material cut-off through an automatic on/off valve
- Precision design for single- or manifold-mounting applications
- Available in various configurations: extrude/stream/swirl version, zero cavity, spray, anti-drool and airless spray

**FoamMelt® Dispensing System**
- Replace expensive and labor-intensive die-cut and foam-tape gaskets with foamed hot melt adhesives
- Reduce material use and costs as much as 65 percent by increasing adhesive open time and volume
- Improve efficiency with automated control system
- Improve product quality with pinpoint temperature control for consistent adhesive viscosity.
- Minimize VOC emissions with solvent-free assembly
Global Presence and International Strength

Nordson provides engineering services and systems for major automotive manufacturers around the globe. With direct operations in 30 locations, we serve virtually every industrialized country in the world.

Our international operations are staffed by local people who understand their particular countries’ customs and business practices. Combined with thorough training in Nordson technologies and service, they provide problem solving expertise at the local and international level.

As the automotive industry continues to pull resources from around the globe, you can be assured that Nordson will be where you need us, when you need us, with the systems and service that help you improve manufacturing efficiency and product quality.