



# Nordson Bag & Sack Solutions

**Adhesive dispensing and verification systems improve production efficiency and product quality**



# Nordson has a wide range of equipment solutions for the manufacture of paper and poly bags and sacks.

Nordson bag & sack adhesive solutions help:

- reduce adhesive consumption
- improve product quality
- identify glue and product defects
- reduce production waste
- support environmental sustainability

Nordson® adhesive dispensing and verification solutions have a proven history of producing high-quality, cost-optimized bags and sacks. Successful use of Nordson systems crosses diverse products including manufacture of point-of-purchase paper sacks, multi-wall paper shipping bags and polywoven bags.

The many and varied adhesive applications in bag and sack manufacturing require a broad range of equipment. Nordson has systems for:

- hot melt adhesives or cold glues
- solid or foamed adhesive dispensing
- continuous or intermittent operation
- contact or non-contact application
- swirl, dot, bead or ribbon patterns
- verification of adhesive, substrate and bar code properties
- quality control data collection and reporting

## Adhesive Delivery

Efficient cold adhesive pumps and hot melt adhesive melters handle a broad range of volume demands and adhesive formulations.

Low- or high-pressure pumps are available to match specific cold adhesive delivery requirements while reducing shearing and protecting adhesive bonding characteristics.

A variety of Nordson tank or bulk adhesive melters meet virtually any production requirements. Melters are designed to be simple to operate and maintain with graphic controls and indicators. A broad range of capacities and pumps means you can choose a melter that meets your specific needs. Precise temperature and pressure control deliver accurate, repeatable adhesive dispensing.





### Adhesive Application - Dispensing

Nordson offers a wide choice of electric and pneumatic guns for cold and hot melt adhesive dispensing. Optimized systems provide accurate placement while minimizing excess adhesive. Nordson precision-engineered guns deliver clean cutoff and consistent dispensing to minimize rejects. Durable components and advanced designs reduce maintenance and maximize equipment uptime.

Nordson dispensing guns deliver a broad range of adhesive viscosities and types at virtually any line speed. Specialized guns are available for specific applications, such as Controlled Fiberization™ hot melt guns which can dispense hot melt adhesive in a manner that won't distort heat-sensitive substrates.

Programmable LogiComm® controls provide quick pattern development and changeovers to accommodate even short runs. Nordson controls provide multiple gun and trigger inputs and support a selection of bead choices for application flexibility.

### Foamed Adhesive Application

The Nordson family of foaming systems uses a patented mechanical process to combine ambient or heated adhesives and sealants with inert gas to create a closed-cell foam. The resultant foam often displays superior physical properties than solid materials while reducing adhesive consumption up to 50%. For example, in bag and sack manufacturing, foamed materials provide improved gap filling, or also can cover up to 50% more area than a solid adhesive.

### Verification and Reporting

The in-line Nordson LogiComm system offers a number of verification sensors for evaluating extruded or wheel-applied cold glues and hot melt adhesives, as well as substrate properties. Real-time verification allows for early identification, separation and correction of defective products.

Easy-to-program touch screens allow verification of numerous quality parameters such as: accuracy of adhesive volume and placement; skewed or folded substrates; bar code recognition.

Quality control is further enhanced by data collection and reporting capability. A wide range of information can be captured including: product count, batch control, defect rejection and adhesive volume usage.

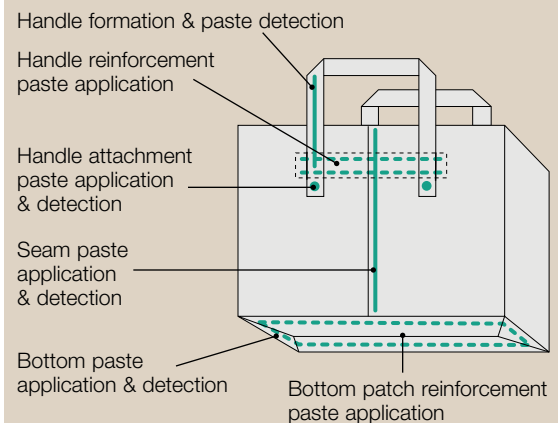
### Foamed Adhesive Applications

**Solid**

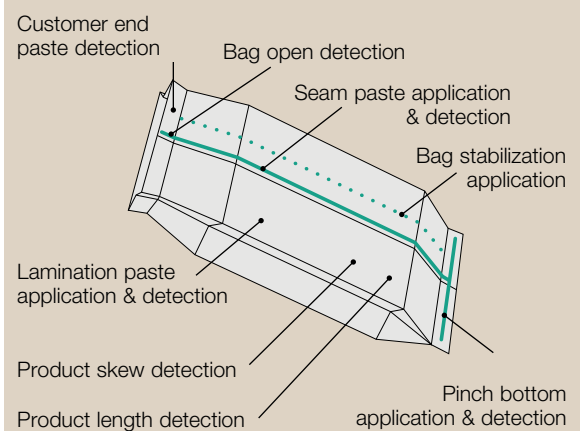
**Foam**

Foam produces either twice the volume but the same weight or the same volume at up to half the weight of solid material.

### Bag Applications



### Sack Applications





## Package of Values®

Nordson solutions are designed to provide consistent, high-quality manufacturing processes while improving production efficiency. Locally-available industry specialists and service technicians backed by a global team of knowledgeable engineers and 24/7 support staff help you develop, install and maintain dispensing solutions for established or emerging bag and sack applications. Our people are supported by an infrastructure that includes research facilities, test laboratories and parts distribution warehouses in locations throughout Europe, Asia and the Americas.

## The Green Commitment

Nordson has a long history of designing equipment that maximizes productivity and minimizes waste. As most Nordson customers are manufacturers of a wide variety of consumer and industrial products, helping them more efficiently use materials and processes ultimately helps us all.

The ability to consistently dispense a precise amount and pattern of adhesive means less adhesive is needed in production. And, less adhesive on the finished bag or sack increases recyclability. Also, faster, more efficient production allows manufacturers to better utilize equipment, both reducing consumption of energy to produce each piece and increasing equipment utilization. Finally, more controlled, efficient production can reduce scrap and waste generation.

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