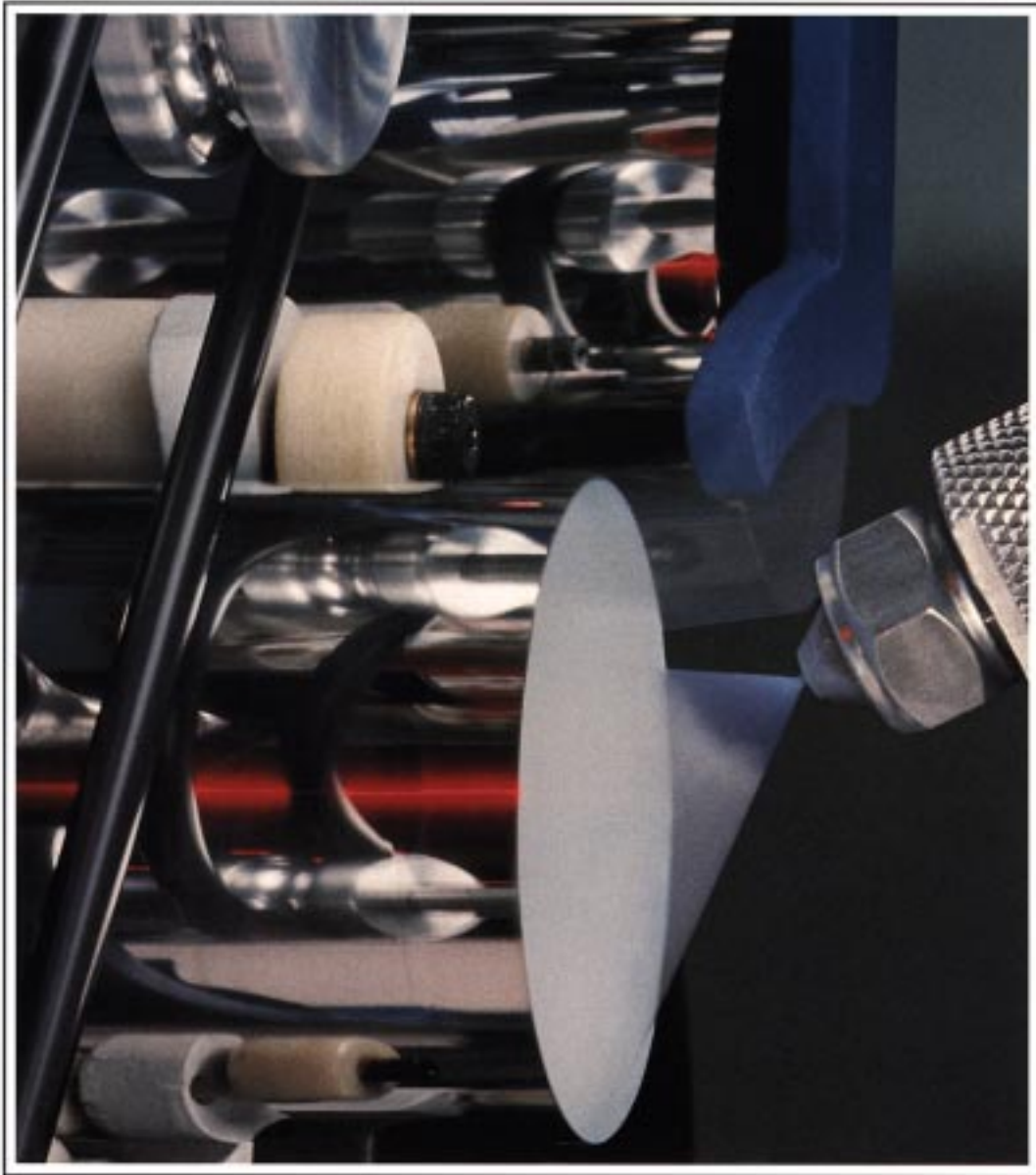


CONTROLLED-PATTERN SPRAY NOZZLES

Save coating material costs and reduce emissions
for two-piece can coating operations.



Nordson Controlled-Pattern Spray Nozzles reduce coating costs and help meet environmental regulations.

Save on material costs.

Investing in Nordson controlled-pattern spray nozzles to coat the inside of your two-piece cans will return as much as 15 percent material cost savings to your bottom line. That's because Nordson controlled-pattern nozzles apply a uniform coating along the entire interior of the can without wasting material or compromising minimum film thickness requirements.

Reduce VOC emissions and waste disposal.

Specifying Nordson controlled-pattern spray nozzles will help lower your coating operation's VOC emissions. Controlled-pattern nozzles minimize applied coating material, thereby minimizing overspray and waste — making them the best nozzles available to meet environmental regulations and reduce your disposal costs.

Ensure consistent coating quality.

Buying Nordson controlled-pattern spray nozzles ensures optimum coating performance and quality. Engineered to meet your specific coating requirements, controlled-pattern nozzles are precision-cut within exceptionally close tolerances. This ensures all replacement nozzles with the same specifications will perform consistently without adjustments to your coating system. In addition, Nordson controlled-pattern nozzles are subjected to stringent testing under production-like conditions to ensure they meet the highest standards.



Nordson Controlled-Pattern Spray Nozzle.

Nordson controlled-pattern spray nozzles can save two-piece can manufacturers as much as 15 percent in coating material costs without compromising minimum film thickness. Designed specifically for your operation, Nordson nozzles apply the correct amount of materials uniformly and consistently on the can interior. The result is an even coating that meets minimum film weight and thickness without wasting material. This reduction in material can translate into an annual savings of up to \$75,000 per coating line.



Conventional Spray Nozzle.

In contrast, conventional nozzles apply coatings in an uneven manner, depositing more material than necessary to the interior side and bottom of the can. While this can meet all requirements, the conventional nozzle used 15 percent more material than the Nordson controlled-pattern spray nozzle.

Choose Nordson Controlled-Pattern Spray Nozzles.

Nordson controlled-pattern spray nozzles are designed to help two-piece can manufacturers attain maximum efficiency, dependability and end product quality in their coating operations.



Controlled-pattern nozzles are engineered and precision-cut to exacting standards. They deposit a uniform film thickness along the entire interior surface of two-piece cans, applying the correct film weight needed to meet your coating quality requirements without wasting material. In contrast, low-cost, conventional flat-spray nozzles can waste costly material by applying an uneven coating with thicker film weights in certain areas of the can to meet overall minimum requirements.

By using coating material more efficiently, controlled-pattern nozzles can return substantial cost savings to your bottom line.

For example, a two-piece can manufacturer achieved a 15 percent drop in coating weight by using Nordson controlled-pattern nozzles. Actual coating weights per can dropped from 150 milligrams to 127 milligrams. This reduction resulted in an annual savings of \$75,000 for a single coating line, factoring in the manufacturer's previous \$500,000 annual waterbase coatings expenditures.

More efficient coating material utilization also means less overspray and less waste to dispose. This makes Nordson controlled-pattern nozzles the best way to reduce VOC emissions and meet environmental regulations, while lowering your disposal costs.

At Nordson, we have a controlled-pattern nozzle for most coating applications. But before we select a nozzle, we analyze your coating operation's spray pattern, flow rate and distribution. If we do not have a nozzle that meets your requirements, we will make you a prototype — free. We are committed to finding the best solutions for your operation's demanding requirements.

Nordson's systems approach.

Nordson controlled-pattern spray nozzles are an integral part of our application systems for two-piece can coating operations. In addition to nozzles, we provide complete coating systems consisting of high performance pumps, spray guns and controls.

This systems approach means that everything two-piece can manufacturers need for their coating operations, from design and development to installation and on-line assistance, is available from one source, Nordson.

Our goals for systems performance parallel that of the industry we serve — continuous improvements in productivity, efficiency and reliability, while maintaining maximum quality of the finished product. We help our customers keep pace with ever-increasing line speeds, achieve more precise



control of coating material deposition and improve systems reliability to further minimize unscheduled downtime.

Package of Values™.

Every Nordson product is part of a comprehensive Package of Values, which provides these important customer benefits:

- specially designed, high-performance coating systems;
- a worldwide sales and service organization with in-depth knowledge and experience in container-coating applications;
- the support of a well-established company with technical and financial strength; and
- a corporate commitment to deliver what we promise.

Call Nordson.

As the only equipment supplier to offer full-line coating systems capabilities for the container industry, Nordson delivers the highest level of performance and dependability. Nordson's global network of knowledgeable representatives stands ready to service you no matter where your two-piece can manufacturing operation is located.

Talk with your Nordson sales representative to determine how you can benefit from our controlled-pattern spray nozzles. Call 216-988-9411. Outside the United States, contact the nearest Nordson regional headquarters as listed on the back cover.

For more information, call the Nordson Customer Service Center at 800-241-8777. Or contact your local Nordson regional office.

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