



Nordson Container Systems

for Two-Piece Can Manufacturing and Curing Systems

Performance by design

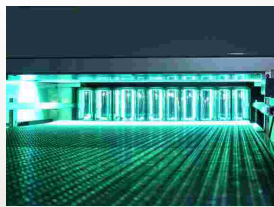


Precision Technologies That Help Customers Succeed

Nordson is the recognized industry leader in developing advanced coating, dispensing and curing systems used in the production of two-piece beer, beverage and food containers. For more than 35 years, container manufacturers worldwide have trusted Nordson to provide the innovative technologies to successfully meet production challenges.

UV Curing System for Rim Coat

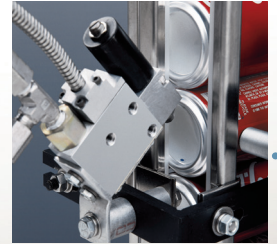
Cures can rims simply, quickly and efficiently. Nordson UV systems convert nearly 93 percent of the energy consumed into usable power, making the rim coat curing system 25 percent more efficient than competitive technologies. The system can be retrofit into existing lines for single-file applications or configured for mass conveyor applications.



Ink-Dot Identification System

Applies a small dot of ink to the bottom of each can as it enters the spray machine. A different ink color is used for each spray machine, so if a problem occurs the malfunctioning spray machine can be immediately identified for reduced rejects and downtime, and significant labor and/or material savings.

The system easily applies both colored and ultraviolet inks and can be configured to apply thermal sensitive inks to the outside of food cans.



Spray Pressure Control System

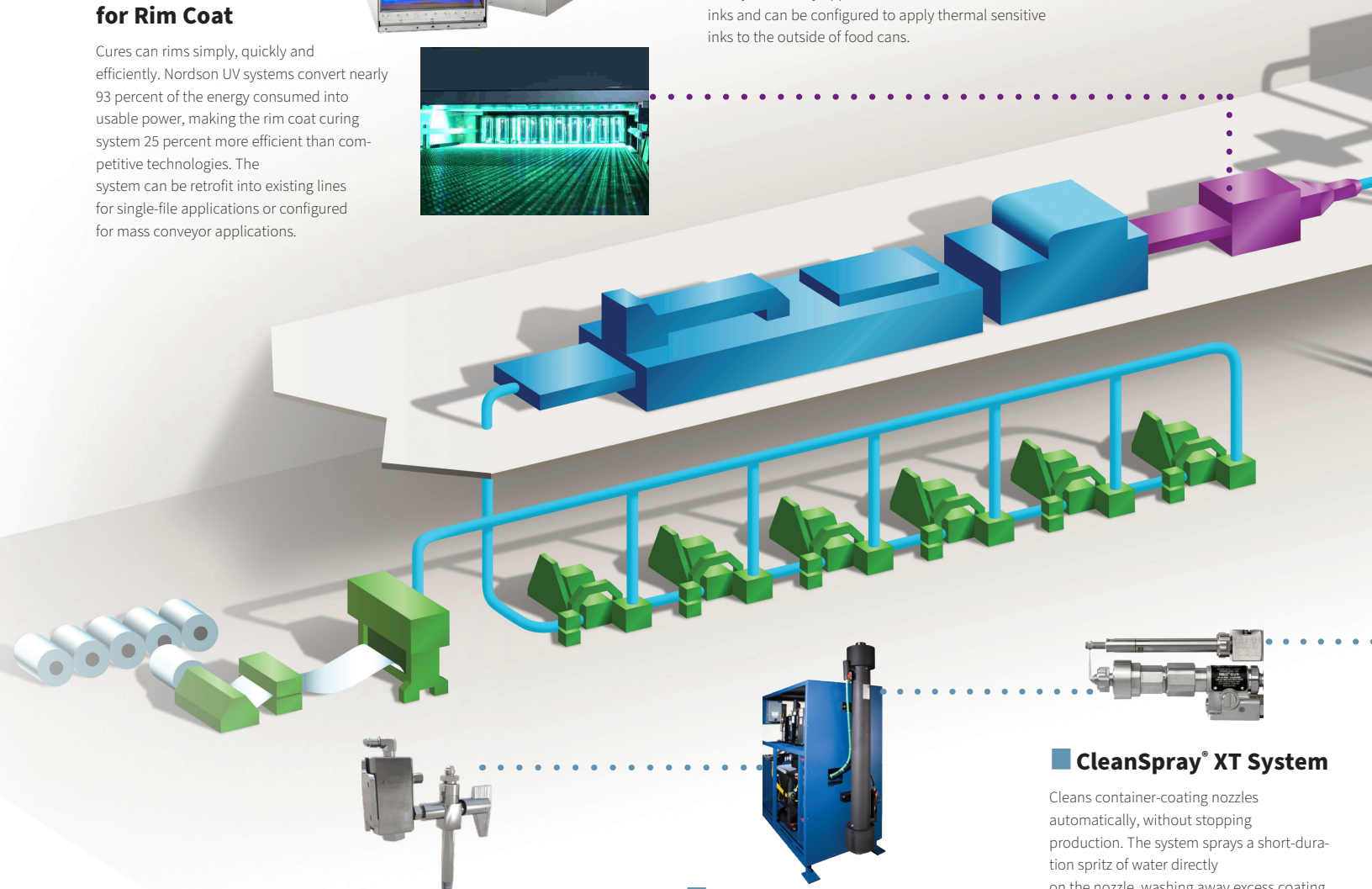
Maintains consistent inside spray coating weights for enhanced product quality and operating efficiency. The system provides hydraulic pressure control for every spray gun on the line, eliminating fluctuations caused by the pump and the operation of other guns. Coating weights can be accurately controlled to minimize variation. Lower spray pressures can be used for cleaner, more efficient operation. The increased efficiency results in significant coating material savings, lower VOC emissions and reduced clean-up and maintenance costs.

Temperature Control Unit

Effectively monitors and maintains material temperature by heating or cooling during can coating operations. The TCU heats, cools and circulates the closed-loop conditioning water through heat exchangers and ancillary components to ensure proper temperature of the coating material throughout production.

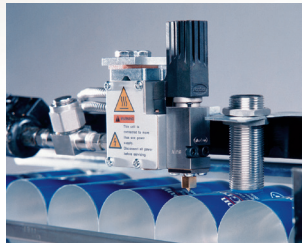
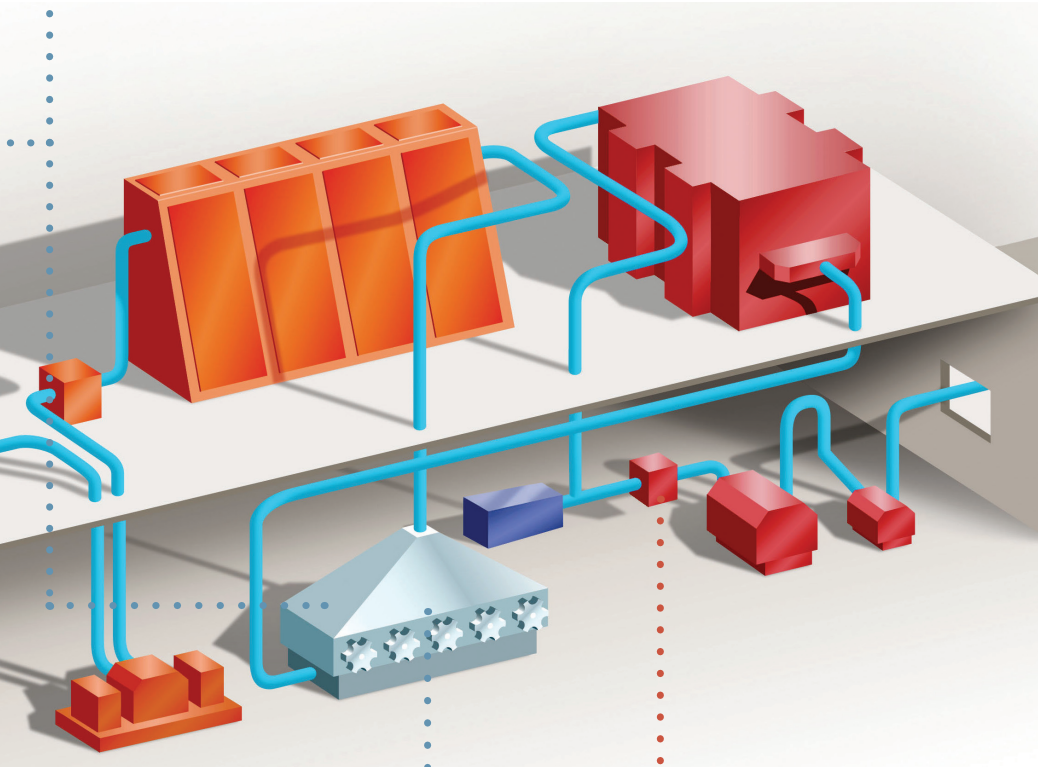
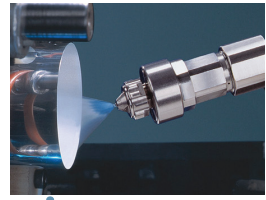
CleanSpray® XT System

Cleans container-coating nozzles automatically, without stopping production. The system sprays a short-duration spritz of water directly on the nozzle, washing away excess coating material between lacquer sprays. Nozzles stay free from coating build-up, so dried coating cannot detach from the nozzle and be deposited into the cans. Manual nozzle cleaning is reduced, minimizing labor requirements and keeping the production line running cleaner, longer.



■ Inside Spray System

Provides fast, accurate application of waterborne or solvent-based can lacquers. The systems are designed for consistent, repeatable material application at demanding line speeds. All inside spray systems include patented Nordson spray guns, pumps, fluid heaters, filters and nozzles, configured to best meet customer specific application requirements.



■ CanNeck™ Lubrication Systems

Applies a defined and controllable bead of wax or mineral oil lubricant to the open end of cans, assuring the precise amount of lubricant is on each can as it enters the necker. The systems provide accurate, adjustable control with varying line speeds up to 3,000 cans per minute, and automatically maintain the size and placement of the bead.

■ iTrax™ Process Control & Monitoring

Incorporates real time spray monitoring, timing control and spray pressure control of the can manufacturing line into one integrated system.



End Drying Systems

Nordson dryers are designed specifically for water-based end compounds using our patented induction-heating technology. These dryers require only a fraction of the floor space of convection dryers and are economical to operate.

More specifically, the hDry® induction compound dryer is designed for production lines with speeds up to 3,000 ends per minute. This dryer is designed specifically for water-based end compounds using Nordson patented induction-heating technology. These dryers require only a fraction of the floor space of convection dryers and are economical to operate.

Convection hot air heating systems heat the air surrounding the compound, so the outside surfaces dry first causing blistering as the trapped water inside the compound escapes. Induction heating allows compounds to dry from the metal out making the drying process faster and more complete, without creating blisters.

What's more, the hDry® compound dryer runs on a lower wattage than convection dryers, while 85 to 90 percent of the power consumed is used directly to heat the ends, making it the economical choice in all production environments. The system can cure up to 3000 can ends per minute.



More Science, Less Magic – Nordson Leads the Way in Best Practices

Thanks to much advancement in technology and equipment over the past decade, today's inside spray technologies are better at lowering costs and improving quality in two-piece can making processes. Line speeds are much faster, plants are operating more efficiently and product quality is better. As a result, metal cans have become the best choice for packaging foods and beverages.

Nordson has long been on the forefront of technologies that improve the inside spray process. A pioneer in the industry, manufacturers worldwide rely on our expertise to implement best practices that improve their operations up and down the line. Can manufacturers routinely turn to Nordson's expertise and technologies to achieve improvements in many areas of inside spray, including:

- **Spray pressure control:** Controlling spray pressure improves consistency and enables the use of lower spray pressure for less waste.
- **Consistent coating temperature:** Having equipment that has both heating and cooling capability in one unit provides better control of viscosity and flow, reduces problems caused by hot cans, and eases the application of low-VOC or non-epoxy lacquers.
- **Fast and repeatable spray guns:** Spray gun response time, repeatability and synchronization with can rotation speed are now more important than ever.
- **Nozzle accuracy:** Choosing the right type of nozzle for the right application is critical. Nordson offers a wide array of nozzles from flat controlled pattern to square cut or heavy center.
- **Process monitoring:** Monitoring key equipment for fast detection of any process issues allows them to be quickly and easily corrected.



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Nordson Industrial Coating Systems

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