Liquid and UV finishes you can be sure of start with Nordson
Since the 1950’s, we’ve provided a wide range of painting equipment to meet virtually any need – from simple manual systems to more sophisticated automated configurations. With electrostatic, non-electrostatic and rotary atomization systems available, our experts can design a solution to provide the highest level of coating performance with a range of materials. Additionally, our robust Nordson microwave-powered ultraviolet (UV) curing systems offer the most reliable, durable and cost-effective performance for curing liquids, powders, coatings, adhesives and sealants. From wood and plastic, to glass and other heat-sensitive substrates, Nordson UV curing systems deliver greater application flexibility with a range of precisely focused and flood reflector geometries.

Global presence, international strength
We provide engineering services and systems for major manufacturers around the globe. With direct operations in over 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, this places problem solving expertise within everyone’s reach.

The best in technical expertise and support
- World-leading technical expertise and support.
- Dedicated project management teams.
- Expert installation and system start up 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 on-site at your facility.

Facilities
Our extensive Amherst Ohio campus, consisting of over 500,000 square feet and 600 staff, has been home to Nordson’s liquid business for over 50 years. It’s where you’ll find our research and development, manufacturing, customer service, engineering, project management and logistics centers for both our Liquid and our UV business groups.

Unmatched customer lab facilities
At our state-of-the-art customer test facility, we work closely with customers and paint material suppliers to carry out extensive testing and demonstration prior to purchasing. This helps us meet or exceed their expectations for quality and performance.

Why choose Nordson?
In highly competitive manufacturing markets, productivity is vital and performance is essential. That’s why we apply both to everything we do, whether it’s our products, expertise or outstanding customer service. We’ll always be there to help maintain the new standards you’ve set, with expert service and support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.
Industrial solutions for a wide range of applications

### Automotive

Nordson liquid and UV technology is widely used in the automotive industry. From brake drums and pads to brake rotors, windshield wipers and headlights, we deliver increased transfer efficiency, lowered VOC output and increased production for a wide range of automotive and transportation applications.

**Applications:**
- Brake Drums / Pads
- Brake Rotors
- Windshield Wiper Arms
- Headlights
- Mold Release
- Shocks
- Axles
- Oil Fillers
- Tires
- Wheels

### Architectural

Nordson liquid and UV technologies excel in the architectural industry, with applications including door and window extrusions, ceiling drops and grids, and even dry wall board. Our industry-leading nozzle technology allows precision application of liquid while providing a longer working life than competitor products.

**Applications:**
- Door Extrusions
- Window Extrusions
- Interior Doors
- Entry Doors
- Ceiling Grid
- Drop Ceiling
- I-Beams
- Dry Wall Board

### Cabinetry

We offer full system solutions designed to meet the exacting standards of the cabinetry industry. Our airless technology allows for atomization at lower fluid pressures which saves material and creates immediate savings. The ratio accuracy of Nordson’s technology also gives customers incredibly precise process control.

**Applications:**
- Wood Cabinetry
- Wood Doors
- Wood Trim and Molding
- Wood Furniture

### Pipe

When it comes to high-spec pipe coating, we can supply the right technology with superior process parameter control. Our complete engineered system solutions with precision sensors measure temperature, viscosity and flow for pipe production, allowing pipe coaters to spray with even more accuracy and efficiency.

**Applications:**
- Drill Pipe
- Conduit
- Tubing
- Fence Post

### Drums

Our liquid and UV technologies also stand out in the highly competitive drum coating marketplace. Whether painting 5 or 55 gallon drums, our precision engineered nozzle technology allows for the easy application with no masking, saving time and boosting production with a faster, more efficient spray process.

**Applications:**
- 5 Gallon Buckets
- 55 Gallon Drums

### Aerospace

Without Nordson’s Liquid technology, airplanes wouldn’t have the safety and integrity to fly millions of travellers around the globe every year. Our Trilogy® technology is trusted by the aerospace industry during Non-Destructive Testing of airplane wings and jet engine blades to flawlessly apply indicator solutions for accurate testing.

**Applications:**
- NDT Crack Detection
Industrial solutions for a wide range of applications

In manufacturing, the challenge for improvement is a constant. That’s in addition to the ever-present demand to deliver products that meet the industry’s performance specifications, while maintaining your own profitability.

Nordson’s products and systems integrate easily into your existing systems, or can be assimilated into a brand new manufacturing operation. Our engineered system solutions are designed so you will benefit from increased productivity, reduced material usage and improved product performance.

Whatever your requirement, our technology and expertise can help you achieve the speed and precision you require on your finishing line.
Paint supply and feed

Waterborne

For many finishing operations, the most cost-effective way to reduce VOC emissions is to convert from solvent-based to waterborne coatings. But due to the higher electrical conductivity of waterborne coatings, it’s necessary to isolate the charged paint-supply system from any ground source. These isolated systems are difficult to maintain and potentially dangerous to plant personnel. Iso-Flo®, our proven liquid technology, offers an easier, safer and far more cost-effective way to spray electrostatically charged waterborne coatings. Here’s how it keeps you coating safely:

- Iso-Flo HD manual or automatic voltage block is connected between the grounded paint-supply system and the spray devices.
- Coating is pumped from the paint-supply system to paint reservoirs inside the voltage blocks.
- Electrostatic isolation is maintained with a series of shuttle valves that alternately connect the reservoirs to the grounded paint supply and the spray devices.

Plural component

OptiMix™ I, our plural component technology, allows the exact metering and mixing of material at both high and low pressures. This highly versatile technology can accommodate a variety of spray technologies, including airless, air assist airless, air spray, HVLP (high volume, low pressure), LVLP (low volume, low pressure) and electrostatics such as the Trilogy Manual Electrostatic spray gun. It also enables the rapid change of up to 10 different base and catalyst materials for quick color or coating chemistry change.

- Processes both solvent and water based paints for application versatility.
- Dynamic dosing provides a complete mix of base and catalyst components.
- 3625 psi (250 bar) pressure rating.
- Controlled measurement provides precise ratio verification.

Applicators

Electrostatic guns

Nordson Trilogy® electrostatic spray systems are designed with coating versatility in mind. Featuring two atomization technologies (air spray and high volume, low pressure (HVLP)), the systems deliver superior application performance with a variety of substrates, coatings and part profiles.

- Non-electrostatic guns

Triggy® non-electrostatic spray guns use air assist airless, air spray and low-volume/low-pressure technologies. Quick-Clip technology provides fast and easy removal and installation of the needle without changing the gun settings, with stainless steel nozzle and needle combinations throughout the range and fast exchange and adjustment of air cap with a simple 1/4 turn of the retaining ring.

- Rotary

The RA-20 rotary atomizer is an electrostatic spray device incorporating an air-powered turbine. It can apply most solvent, waterborne, UV and plural component coating materials, including high solids and metallics. Ideal for close-in painting with high transfer efficiency and superior penetration into part recesses, its outstanding atomization delivers fine finishes and precise film-build control. Excellent fan pattern control and adjustability (from 8 to 42 inches) significantly reduces overspray to reduce paint waste.

- Nozzles

Nordson Cross-Cut® nozzles atomize materials at lower pressures, producing a softer more controllable spray of up to 70cm with minimal overspray and bounceback. They can also easily handle a wide range of materials, including highly viscous and difficult-to-atomize coatings, thanks to a design that’s proven to be less prone to plugging.

Our range includes:

- Trilogy AAA manual gun
- Trilogy AAA automatic gun
- Trilogy Electrostatic automatic gun
- Trilogy Manual Electrostatic spray gun
- RA-20 Rotary Atomizer
- ISO-FLO HD Voltage Block System
- XP9 60 / 115 Power Supplies
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UV curing: reliable, durable and cost-effective

From metal to wood and plastic, glass and other heat-sensitive substrates, our UV coating and curing systems deliver superior application flexibility with a range of microwave UV curing technologies.

Save time
Curing is instantaneous compared to other methods, with no inconvenient wait for cooling.

Energy savings
With no heat required in your plant for curing, energy costs can be significantly reduced to lower costs.

Reduce factory footprint
Unlike a UV curing installation, conventional ovens and cooling chambers can take up more than 500 feet of space on your floor.

‘Go green’
With no solvents required, UV curing is a far more environmentally-friendly way to manufacture.

High efficiency
100% of the product is reclaimable in the UV process to minimise waste and improve cost-effectiveness.

Coolwave 2+
Improve flexibility and ease of maintenance in industrial curing applications with a powerful system that features a microwave-powered lamphead and user-friendly digital operator interface.

Features and benefits:
- Permits adjustable UV power output from 20% to 100% in 1% steps.
- Clean and efficient design for reduced downtime.
- The dichroic-coated reflector does not reflect all of the heat-generating infrared light waves back to the substrate for cooler operation.

Nordson UV curing systems
Nordson UV LED light-curing systems offer the most reliable, durable and cost-effective performance via a wide range of products. From Coolwave® systems that are flexible and easily maintained to convection ovens for mid-to-high production volume, you’ll find an optimal UV light-curing system for all your manufacturing processes.
In highly competitive manufacturing sectors, productivity is vital and performance is essential.

That’s why we apply both to everything we do, whether it’s our products, expertise or outstanding customer service. We start by analyzing your manufacturing process and apply over 60 years of production experience to identify areas that can be improved. We’re then able to design an engineered system solution to meet your precise requirements. One that’s based on a range of products proven to deliver consistency and reliability even under the toughest conditions.

Result? Superior consistency of application and instant material savings. We’ll always be there to help maintain the new standards you’ve set, with expert local support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

Worldwide operations

Find out more at: www.nordson.com/liquid

Email: icscsc@nordson.com
Find a Nordson facility at: www.nordson.com/en/global-directory

Performance by design