

Encore® Select

Robotic Powder Coating System

Tight Challenges Demand Smart Solutions

Our automated powder coating system combines Nordson's dense-phase technology with the power of intelligent robots to unleash a superior coating process.

Whether for mass production or a batch size equal to one, powder coating systems attain the highest levels of productivity. Encore Select delivers a hands-free, repeatable coating quality. Incur sufficient powder and energy savings when combined with an integrated control system.

Incorporate into other automated manufacturing steps such as our high-end solutions for conveyor integration and powder recovery. Robot operated guns help reduce powder consumption by up to 45% while still maximizing flexibility and profitability of production at the same time.

Nordson's Dense-Phase Technology

The heart of the highly efficient dense-phase technology is the HDLV® (High-Density, Low Velocity) pump which delivers a large quantity of powder and very little air to the Encore Select robot gun. This results in a "soft powder cloud" from the spray nozzle where the powder contacts the workpiece at a low velocity, allowing for closer gun to part distances than other delivery methods. Robotic powder coating guns achieve greater speed, precision, and endurance than the human hand.

These sophisticated powder coating systems are automatically equipped to handle modern smart factory production.



Unbeatable Combination

Using a workpiece recognition system, or Part Identification information, the system can recognize the object and confirm that it is correctly positioned within the powder coating spray booth. Next, it automatically communicates with the control system to adjust the appropriate amount of electrostatic, air and powder settings.

The robot then follows the contours of the part and aims precisely at hard-to-reach areas to optimize the coating of surfaces, edges, corners, and cavities with extreme efficiency. Robotic application guarantees a uniform finish, repeatability without the slightest deviation, and free of any human errors. Encore Select is compatible with all major robot manufacturers and integrators.



Robotic Powder Coating System

When combined with the Spectrum® HD powder feed center and Nordson's ColorMax® powder coating booths, robotic powder coating systems increase plant productivity and significantly cut operating costs. Take advantage of quick, contamination free color changes, Color-on-Demand®, with automatic gun purging and superior powder recovery. Minimize the operator's interaction to streamline efficiencies across the factory.

Control System Compatibility

Connect the Encore Select to a variety of intuitive control systems. Program the robot gun to seamlessly integrate with your automatic powder coating line. Speak with a Nordson representative to build your complete solution.

Nordson Industrial Coating Systems

www.nordsoncoating.com/contactpowder



Find your local Nordson office:

www.nordson.com/icslocations

The Benefits

Robotic powder coating with Nordson's dense-phase technology uses programmed recipes to boost flexibility and productivity. Achieve optimal results with repeatability and save on processing energy and material costs.

More Productivity

- Faster production, up to 65%-time savings
- Shorter downtimes and set-up times
- Consistent output with soft, highly dense spray pattern
- Lower post-production costs

Precise Repeatability

- Elite process control
- Less quality variance
- Full rotation and coverage inside 18-inch (45.72 cm) oven cavity
- Eliminates the risk for human error
- Detachable nozzles for 45°, 60° and 90° angles

Substantial Savings

- High transfer efficiency
- Low overspray
- Minimization of manual activities

