

# Encore®

## Automatic Powder Spray Gun

Lightweight, compact gun provides 100 kV and the highest transfer efficiency available for venturi-based coating systems.

Designed for use with the Nordson iControl® integrated control system, the Encore automatic gun is one of the lightest and most compact powder application tools in the industry. In addition, at 100 kV, it provides the highest transfer efficiency available today for venturi-based coating systems.

With the Encore automatic gun and Select Charge® technology, finishers can achieve superior coating coverage and efficiency. The gun provides an air-purge cleanable design for fast, easy cleaning, without gun disassembly, a requirement today for quick color change powder coating applications.

### Operator Selectable Coating Modes and Digital Flow Control for Superior Performance

Precise control of gun current is critical to ensure optimal powder charge and the quality and efficiency of any powder coating operation. The combination of Automatic Feedback Current (AFC) control with Select Charge technology for various coating modes provides the highest level of flexibility and operating parameter control.

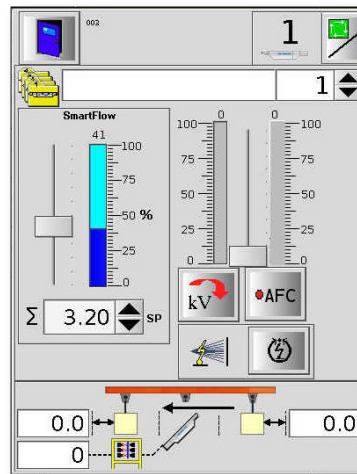


The iControl integrated control system features user-adjustable AFC control to optimize system performance over the widest variety of part profiles and configurations. In the AFC mode, the controller automatically adjusts electrostatic voltage output to maintain the optimal powder charge and external field strength regardless of the gun-to-

part distance for uniform powder deposition across the part. This provides the most consistent, overall coating coverage and highest finish quality possible.

In addition, the latest-generation iControl system incorporates Encore's "Smart Flow" pneumatic control capability – an easy, intuitive method of setting powder flow to achieve optimum coating efficiency and performance. With

Smart Flow, optimum "velocity" of the spray pattern for the particular part being coated is set first; then, the powder output level is set to achieve the desired film thickness on the part. A "Classic Flow" mode is also available for setting "flow" and "atomizing" air independently.



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## Tube and Bar Mount Versions Meet Application Requirements

The Encore automatic gun is available in both tube-mount and bar-mount configurations, to provide optimum performance over a broad range of powder coating applications.



The Encore tube-mount gun is designed for automatic, external and internal cleaning, for use in ultra-fast color-change systems. It is available in two lengths, to accommodate varying powder spray booth widths for coating small to very large products. The gun's width is only 1.93 in. (4.90 cm), minimizing surface area to clean during color change. It also minimizes the width of the booth's automatic gun slot openings, for optimum air flow control.



The Encore bar-mount version provides a more compact, lightweight alternative, ideal for use on a painting robot, and in multiple-gun powder coating systems that don't necessarily require ultra-fast color change. The gun's adjustable mounting bracket enables 180-degree pitch positioning capability. Creating angles from 90-degrees up (from parallel to gun bar) to 90-degrees down, for highly effectively directional coating of the top and bottom surfaces of three-dimensional parts. "Lead and lag" gun positioning is also accommodated. This highly accurate, directional powder spray pattern positioning capability helps achieve the most efficient, and complete, coating coverage possible.

## Easy Access Cleaning and Maintenance

The Encore automatic gun's aerodynamic shape and smooth, engineered-material external surfaces facilitate fast, easy powder blow-off during system color change.

The gun is easily disassembled for routine maintenance to check for wear on all powder-contact parts. The integral voltage multiplier is user replaceable.

## Features and Benefits

- Automatic Feedback Current control delivers higher, more consistent, transfer efficiency.
- Integral-power-supply is designed to deliver optimal voltage – 100 kV – for automatic applications.
- Compact, lightweight for ease of operation.
- Superior Faraday-cage penetration and recoating capability to accommodate a wide range of coating requirements.
- Specially engineered materials used in powder-contact parts minimize wear and impact fusion.
- Easy access powder pathway design makes routine cleaning and maintenance fast and uncomplicated.
- Largest selection of nozzle choices available in the industry.
- Optional ion collector is available which, in select applications, can improve the smoothness and appearance of cured powders.
- Tube mount and bar mount configurations available for added versatility.



## Specifications

Dimensions:	
Height	6.60 cm (2.60 in)
Width	4.90 cm (1.93 in)
Length	5' tube mount: 165.9 cm (65.31 in) 6' tube mount*: 195.9 cm (77.12 in) Bar mount: 43.4 cm (17.10 in)
Weight	5' tube mount: 2.02 kg (4.45 lbs) 6' tube mount*: 2.37 kg (5.23 lbs) Bar mount: 651 g (1.44 lbs)

\* Limited by application requirements

For more information, speak with your Nordson representative or contact your Nordson regional office.

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