

# Prodigy®

Automatic Powder Spray Gun

Powder coating redefined in an automatic gun with HDLV® (high density, low velocity) technology for dense phase powder transport and precision dispensing.

Nordson HDLV technology focuses on dense-phase powder transport and application of powder materials. Providing a softer spray at the gun tip, HDLV technology moves more powder with less air for reduced material consumption and even higher transfer efficiencies.

The Prodigy HDLV gun, pump and controller offer an integrated solution for precision dispensing and sophisticated color-change control. The state-of-the-art in HDLV technology, the Prodigy system provides automatic purging of guns and pumps, reducing downtime and labor costs. In addition, this easy-to-use system ensures contamination-free, ultra-fast color change for improved productivity.

- **Designed for use with dense phase HDLV powder delivery technology**
- **Contoured gun body and smaller cross section** means less powder buildup on the gun
- **Innovative HDLV nozzle technology** for precision dispensing
- **Straight-through powder path** for less wear and easier maintenance

## Two Versions to Meet Any Application Requirement

The Prodigy automatic gun is available in two different lengths to accommodate varying application requirements. The longer tube style gun covers most application needs and can be



easily mounted to oscillators, reciprocators and gun stands. Also available is the shorter bar mount gun that can be positioned at virtually any angle and can be used for both top and bottom coating. Both guns are only

1.62 inches (41.2 cm) wide, minimizing surface area to clean during color change. The narrow width also minimizes the automatic gun slot width for enhanced powder containment within the booth.



## iControl® Integrated Control System for Prodigy Technology – Advanced Controls for the Complete Powder Coating Process

The iControl Integrated Control System builds on our extensive controls knowledge and technology to incorporate all powder control functions into an easy-to-operate, all-inclusive system. Ideal for use with any Nordson gun technology, this production-proven system features closed-loop digital flow modules for optimum gun performance and consistent coating quality.

A 12" LCD full-color touch screen display with icon-based graphics allows easy set-up and operation in any language. In addition, the iControl features up to 255 presets for application, gun movement and part identification parameters. These presets can be tailored to each color and each part for up to 30 percent powder material savings and consistent, repeatable film build. iControl is a recipe based system that optimizes process control, improves repeatability, lowers reject rates, and reduces material usage.



**Nordson**

# Prodigy® Automatic Powder Spray Gun

- Single 12" LCD color touch screen graphical interface for single view of all system settings
- Icon-based graphics for ease of set-up and operation in any language
- Closed-loop digital flow control technology to ensure consistent air flow to the pump
- 255 presets available allowing operators to adjust various gun control parameters such as flow rate, atomizing, kV, and current for various part styles

## Extensive Selection of Nozzles Available – for Virtually Any Application

Enhanced Nordson gun nozzle designs deliver softer, yet highly directional spray patterns for easier, more efficient coating application. The Prodigy automatic powder spray gun uses a variety of precision nozzles to tailor the powder spray pattern to a specific coating application for maximum spray pattern uniformity, coating efficiency and film build control.

## Prodigy HDLV Pump – Simple but Sophisticated Powder Delivery

The Prodigy Generation II HDLV pump delivers more powder with less air at a lower velocity for higher transfer efficiency, higher productivity, and reduced powder material usage. This revolutionary design is purgeable in both directions – suction and delivery – for ultra-fast, contamination-free color change. The see-through pump block allows for fast, easy, at-a-glance monitoring and diagnostics. The injection molded pump block design assures secure pump assembly and enhances pinch valve life. There are no pistons or diaphragms to wear out or cause color contamination issues as with conventional dense-phase pumps.

- Higher powder delivery
- Lower velocity air
- Softer spray at gun tip
- Less powder consumption
- Lower compressed air usage
- Smaller transport tubing for easy replacement

NOZZLE	EFFECTIVE PATTERN SIZE	USAGE
Dual Slot Flat Spray	8 to 10 inches (203 to 254 mm)	General use on manual or automatic guns
75° Single Slot Flat Spray	4 to 6 inches (101 to 152 mm)	Manual coating and touch-up
90° Single Slot Flat Spray	7 to 9 inches (178 to 229 mm)	Manual coating and automatic dedicated areas
115° Single Slot Flat Spray	9 to 11 inches (229 to 279 mm)	General use on manual or automatic guns
140° Single Slot Flat Spray	11 to 13 inches (279 to 330 mm)	Large flat surfaces
180° Single Slot Flat Spray	13 to 15 inches (330 to 381 mm)	Large flat surfaces
100° Conical	6 to 8 inches (152 to 230 mm)	General use on manual or automatic guns
70° Conical	4 to 6 inches (101 to 152 mm)	General use on manual or automatic guns
40° Conical	2 to 4 inches (51 to 102 mm)	Manual coating and touch-up
60° Crosscut	3 to 5 inches (76 to 127 mm)	Manual coating and touch-up
90° Crosscut	2 to 4 inches (51 to 102 mm)	Manual coating and touch-up
6 Slot Crosscut	2 to 3 inches (51 to 76 mm)	Manual coating - deep recesses
10 Hole Pinpoint	Pinpoint	Manual coating - touch-up and deep recesses

## Specifications

<b>Tube Mount Gun:</b>	
Height	3.15 in (8.01 cm)
Width	1.57 in (4.0 cm)
Length	62.04 in (157.59 cm)
Weight	2.97 lb (1.35 kg)
<b>Bar Mount Gun:</b>	
Height	5.42 in (13.77 cm)
Width	1.67 in (4.24 cm)
Length	19.13 in (48.59 cm)
Weight	2.0 lb (0.91 kg)
<b>Gun Air</b>	0.2 - 2.0 scfm
<b>Filtration</b>	Air must be clean and dry.

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

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