



# Prodigy™ Technology

**Powder Coating Redefined**



Nordson redefines powder coating with our revolutionary Prodigy™ line of equipment with HDLV® technology. For precision dispensing, dense-phase powder transport, and powder circulation – Prodigy technology changes everything.

### HDLV® Technology

HDLV (high-density powder, low-velocity air) technology focuses on dense-phase powder transport with closed-loop digital flow technology. Moving more powder with less air results in higher transfer efficiency compared to conventional venturi-style pumps. And using less compressed air to propel the powder to the gun means less overspray, more powder on the part, and greater powder material savings for you.

- Softer spray at gun tip
- More powder on the part
- Less powder consumption
- Closed-loop digital flow
- Smaller powder transport tubing
- Lower compressed air usage

### Prodigy™ Technology Delivers Ultra-fast Color Change

From the Color-Change initiation button on the manual gun controller to the ultra-fast color change features of the Prodigy Powder Port — Prodigy technology saves you time and money.

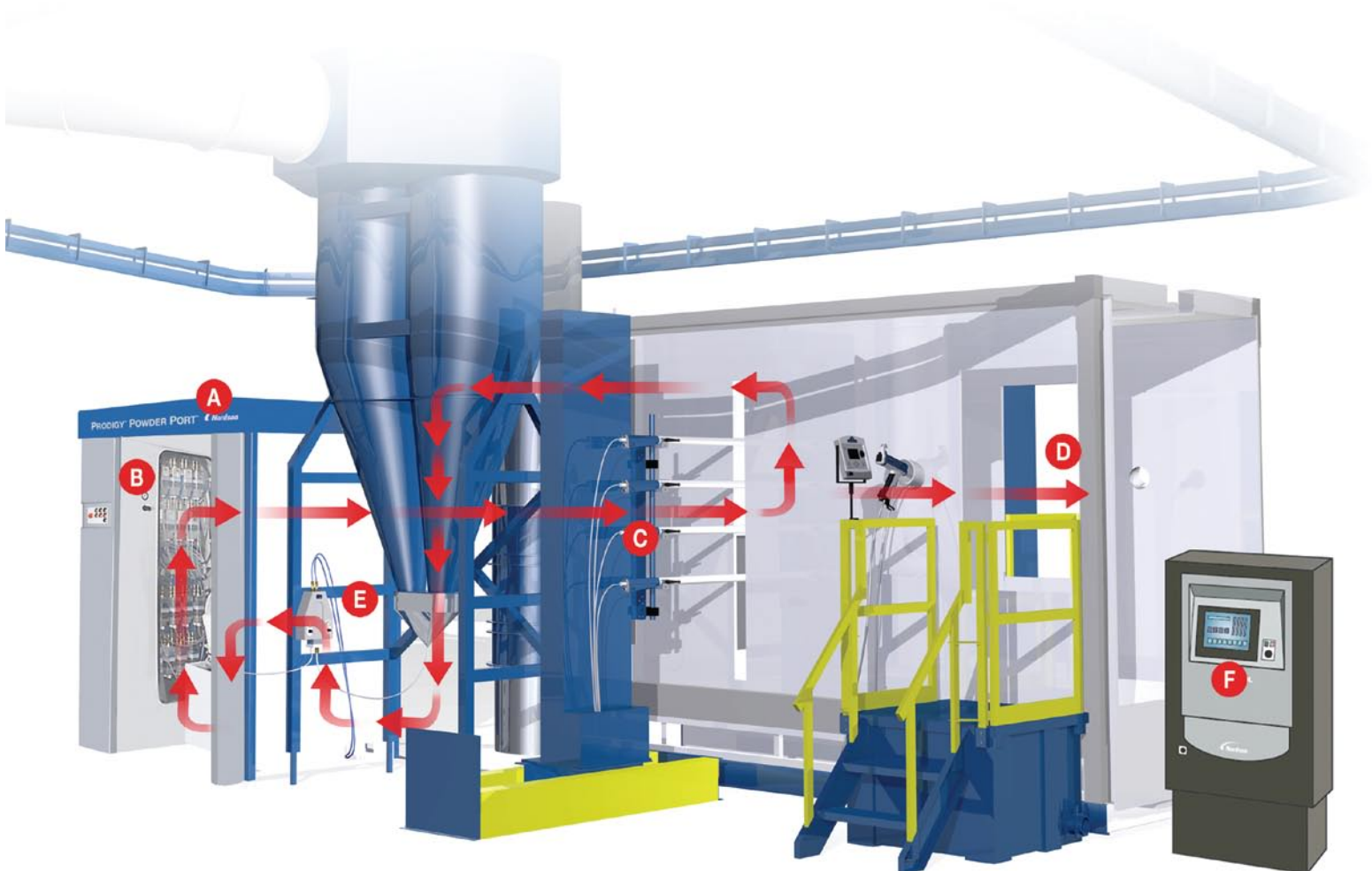
Pumps and spray guns are automatically purgeable in both the suction and delivery directions.

There is no need to switch powder tubing between colors.

Nordson's proprietary Apogee® canopy material resists powder on the booth walls for easy clean up.

All of this adds up to:

- Reduced downtime
- Reduced labor cost
- Maximum system efficiency
- Contamination-free, ultra-fast color change



### A Prodigy™ PowderPort™

Revolutionary technology in powder circulation

- Designed for use with HDLV® technology
- Separate prep area for service of next/last color
- Easy to operate controls
- Unique pick-up tube design for quick purge and easy cleaning



### B Prodigy™ HDLV® Pump

Simple but sophisticated powder circulation

- See-through design for quick and easy diagnostics
- No moving parts or seals to service or replace
- Smaller transport tubing for easy replacement



### C Prodigy™ Automatic Powder Spray Gun and Controller

Precision dispensing at its best

- Contoured gun body and smaller parts means less powder buildup on the gun
- Innovative HDLV® nozzle technology for precision dispensing
- Straight-through powder path for less wear and easier maintenance



### D Prodigy™ Manual Powder Spray Gun and Controller

Integrated solution for precision dispensing

- Auxiliary high-low flow adjustment trigger for the exact application on a variety of parts
- Innovative HDLV® conical and flat-spray nozzle technology for superior part coverage
- 10 user-configurable presets to build recipes for specific parts and powders



### E Prodigy™ HDLV® High-Capacity Pump

Super-sized powder circulation

- Simple control for ease of operation
- Air-operated pinch valves are quick and easy to replace with no moving parts to service
- Smaller transport tubing for ease of replacement



### F iControl® Integrated Control System for Prodigy™ technology

Advanced controls for the complete powder coating process

- 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



# Redefining the Powder Coating System

## Powder Transport

- Closed-loop, dense-phase digital powder transport
- Less compressed air used results in lower powder velocity
- Lower velocity means more powder on part
- Automatic purgeable design in both suction and transport directions for ultra-fast color change.

## Precision Dispensing

- Soft spray at gun tip improves transfer efficiency
- Higher powder output with better charging
- Paints faster – allows higher line speeds
- Material savings for non-reclaim applications

## Powder Circulation

- Dense-phase pumping moves four times the powder of conventional venturi transfer pumps
- Transport and circulation components provide for ultra-fast color change
- Quick and easy changeover from color to color



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