



Nordson Lean Cell[®] Powder Spray System

20-Second Color Change





The synergy of the Nordson Lean Cell System delivers contamination-free color change in less than 20 seconds.

The Nordson Lean Cell System, consisting of the Lean Cell spray booth, Encore® HD manual spray gun, and Encore HD Color-on-Demand® instant color selector, sets the new standard in lean powder coating, with unsurpassed coating performance and efficiency, **and color change in 20 seconds or less.**

Lean Cell Powder Spray Booth

The Nordson Lean Cell booth is exceptionally compact, minimizing floor space and conveyor line gaps, and helping to maximize production capacity and color-change speed.

An innovative booth airflow design assures powder containment, even with an open-face canopy design and large part openings. The open-face canopy maximizes operator access to parts being coated, for unsurpassed flexibility of movement based on part size and shape, and highest-possible transfer efficiency.

Evenly distributed, front-to-back booth air flow, combined with **proprietary Nordson Apogee® canopy material, which has the least amount of powder attraction of any material on the market today**, provide ultra-fast evacuation of any airborne powder during color change. This enhances color-change speed, eliminates the possibility of cross-contamination of colors, and makes routine booth cleanup a breeze.

Encore HD Manual Gun System

Proprietary Nordson Encore HD technology (high-density powder, low-volume air) technology precisely dispenses powder coating for superior finish quality, less waste, and fast color change. The system uses less compressed air to propel powder to the gun with less air velocity. This results in less overspray, more powder on the part, higher first-pass transfer efficiency, and greater powder material savings. The gun features



The Encore HD manual gun is automatically purgeable with either continuous or pulse purge.

an innovative powder flow trigger that enables the operator to select between a pre-programmed low- or high-flow setting to tailor the powder spray pattern to the part being coated.

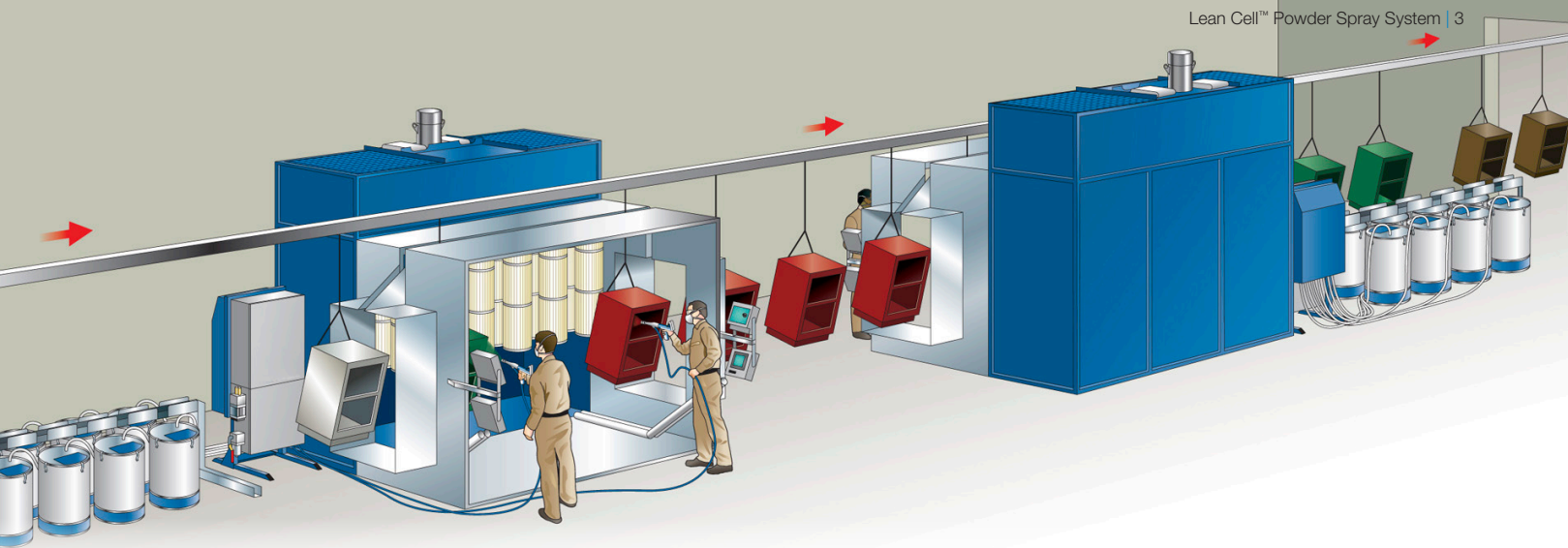
Encore HD Color-on-Demand™ Instant Color Selector

The Nordson Encore HD Color-on-Demand instant color selector delivers **ultra-fast color changes in less than 20 seconds.**

The system accommodates up to 28 colors at one time for more color changes per shift, higher throughput, and just-in-time manufacturing with zero inventory for dramatically increased operating flexibility. The system features a touch-screen color display with user-configurable buttons that can be set for size and color identification, with a simple touch of a button.

Encore HD Color-on-Demand instant color selector is designed for precision dispensing and ultra-fast, contamination-free color change.





Lean Cell®

Fast Color Change Booths

Wide Range of Booth Sizes and CFM Capacities

The Lean Cell collector module provides twice the CFM capacity than that of a similar-size conventional unit. A range of Lean Cell module physical sizes and CFM capacities are combined with the “right size” canopy to help you “lean out” your coating operation.

The Lean Cell collector module means no extra equipment, and no wasted space or CFM capacity.

Lean Cell Specifications and Utility Requirements

Specifications	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Overall Dimensions (WxHxD)	10' x 10' 9" x 12' 6"	10' x 10' 9" x 12' 6"	16' x 10' 9" x 12' 6"	16' x 10' 9" x 12' 6"	24' x 10' 9" x 12' 6"	24' x 10' 9" x 12' 6"
Inside Canopy Dimensions (WxHxD)	6' x 8' 6" x 9'	6' x 9' 6" x 9'	12' x 8' 6" x 9'	12' x 9' 6" x 9'	20' x 8' 6" x 9'	20' x 9' 6" x 9'
Part Openings Size (WxH)	48" x 72"	36" x 84"	48" x 72"	54" x 84"	54" x 72"	54" x 84"
No. of Operators	1	1	2	2	3	3
Rated CFM	9600	9600	14400	16000	21600	28800
Motor Hp	10	10	15	15	3 x 5	3 x 10
Motor RPM	1750	1750	1750	1750	1750	1750
Air Input Size	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT
Air Consumption @100 PSI	15 SCFM	15 SCFM	20 SCFM	20 SCFM	20 SCFM	20 SCFM
Volts/Hz/Amps						
Motor	208/60/32 230/60/28 380/60/22 460/60/14 575/60/11	208/60/32 230/60/28 380/60/22 460/60/14 575/60/11	208/60/48 230/60/42 380/60/34 460/60/21 575/60/17	208/60/48 230/60/42 380/60/34 460/60/21 575/60/17	208/60/62 230/60/54 380/60/44 460/60/27 575/60/22	208/60/62 230/60/54 380/60/44 460/60/27 575/60/22
Controls	110/60/10	110/60/10	110/60/10	110/60/10	110/60/10	110/60/10

For more information on automatic fast color change powder spray systems, talk with your Nordson representative or visit our website at www.nordson.com/powder

Lean Cell System Features and Benefits

- **Color change in 20 seconds or less** – maximizes production throughput and flexibility.
- **28-color capacity** – provides exceptional flexibility of color selection.
- **Easy-to-use, touch-screen color selector user interface** – fast, easy selection of colors, capability to customize color names or designations.
- **HDLV dense phase powder transport** – softer, more powder concentrated spray pattern allows faster coating at closer gun-to-part distances than conventional powder spray guns. Achieves required film build with less effort and higher transfer efficiency.
- **Innovative powder flow trigger on gun** – enables operator to select between a pre-programmed low- or high-flow setting to tailor the powder spray pattern to the part being coated.
- **Easy-to-use spray gun user interface** – all spray gun controls are conveniently positioned at the operator's fingertips for easy setting, viewing and changing of electrostatic and pneumatic parameters.
- **Compact, flexible booth design** – takes up less floor space, minimizes line gaps, and speeds color-change time.
- **Proprietary Nordson Apogee® canopy material has the least amount of powder attraction of any material on the market today** – providing ultra-fast evacuation of any airborne powder during color change.

- **Higher CFM capacity than conventional booths** – open-face booth design with large part openings enables operator flexibility of movement, and accommodates a wide range of part sizes.
- **Full-function UL 508-compliant control panel with safety interlock** – standard on all booth models.
- **Optional fluidized powder recovery hopper** – for easier removal of collected powder and booth cleanup.



For any operation requiring many color changes or ultra-fast, color-change time, the Lean Cell booth is also compatible with standard spray application equipment, such as the Nordson Sure Coat® automatic and manual spray guns and controls.

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

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PWL-16-3753
Revised 2/16