Nordson Colormax FC Powder Paint Booth System

Powder Coating Type: Organic Design Conveyor Speed: 30 FPM Conveyor System Type: Monorail Parts Coated: Range Components Coating Thickness Desired: 1.5 – 3 mils Average on Selected Surfaces Largest Part Size: 2'6" W x 6'4" H x 3'0" L Profile End Opening: 4'0" W x 7'4" H Number of Reclaimed / Recycling Powders: 10+ Number of Powders: 10+

Encore LT Manual Gun Rail Mount System

- 2 Encore Rail Mount System
- 2 150mm Lance Extension

Sturdy Operator Platform, 3'-0" wide x 3'-0" long is constructed of welded, heavy-gauge steel with safety rails.

2 - Operator Platforms

Smart Coat Control System

- * Allen Bradley Panelview Plus 15" with Pedestal
- Fifteen dual iFlow closed-loop mass flowmeters (accuracy +/- <1%)
- * Fifteen dual gun driver cards
- * Ethernet gateway to Allen Bradley ControlLogix located in main electrical panel
- * Multi-level password protection
- * Print functionality
- * Gun fault diagnostics
- * Gun mover diagnostics
- * Motor overload and VFD diagnostics
- * Gun status screens
- * Automatic Feedback Current control for operating parameter control
- * Line speed indication
- * Gun maintenance timers
- * Accommodates up to 255 presets for gun control parameters
- * Four patented advanced coating modes Standard, Recoat, Deep Recess, Special (dry blend metallics and micas) and User Programmable.
- * Percent adjust function for global adjustment to all preset airflow settings.
- * Easy inspection and access to all gun related electronics and pneumatics

Encore Automatic Guns

- * 100 kV gun for highest transfer efficiency
- * Air purge cleanable design without manual disassembly

- * Wide nozzle selection. Optional ion collector available
 - **30** Encore Guns, Mounts, Cables



Oscillator and Gun Positioning Equipment

- * Oscillator with a maximum stroke length of 18 inches.
- * Cam and eccentric design for long life and smooth operation
- * Gun Positioning for constant gun-to-part distance control
 - **2** Vertical Oscillator(s)
 - 2 VFD Powerflex with Ethernet for Oscillators
 - 2 39" Kevlar Belt Driven In/Out Positioner Base, DC drive

Apogee II Canopy

- * High performance non-conductive material.
- * Smooth interior surface with minimal seams.
- ⁶ Ceiling panels include translucent light panels.

Apogee Canopy features:

- * Four (4) automatic gun slots,
- * Two (2) manual spray gun openings, 30" wide x 78" high with upper and lower door
- * Part entrance door to facilitate color change with conveyor interlock
- * Four (4) Four Tube Fluorescent Fixture(s) T5 Lamps
- * Segmented Floor Blowoff for compressed air savings and high performance floor cleaning
- * Inspection cleanout door for cyclone inlet

ColorMax Base Assembly

5'-9" wide x 19'-6"long (1.75M x 6M) including:

- * Modular design base
- * Colormax powered roller base with 4 wheel drive system
- * High load lateral roller carriages to prevent crabbing
- * Separate drive "cells" to prevent misalignment due to torsional twisting of drive shaft.

- Roller base utility deck system has a series of channels with routinely spaced passthrough openings for service access of powder hoses, pneumatics and electrical services.
- * Roller base assembly will be pre-fitted with all gun movers, feed centers, operator painting platforms, cyclones and after filter, complete with all utilities and appropriate cross-over points prior to shipping.
- * Roller base sections will be coupled together with a series of coupling pins.
- * Operator pendant for mover control
- * Booth positioning and Alignment Stop Accurate to +/- 1/16" at the pin point.
- * Programmable segmented floor blow off
- * Booth Base Hose and Cable Trays with cam clasp lids for easy access
- * Engineered hose routing and hose/cable identification system

16,000 cfm After-Filter Assembly featuring:

- * 75 HP direct drive motor, 95.3% efficient with loss of phase protection
- * Duct inlet elbow with support stand
- * Nine (9) final filters 95% efficient at .30 microns
- * Clean air section with "pulse on demand" cartridge filter blow-down
- * Primary filter section with twenty-one (21) cartridge filters
- * Two (2) fluidizing plenums
- * One (1) transfer pump each plenum
- * One (1) drum lid for collection of fines
- * Silo bin fluidizers

16,000 CFM Cyclone with Prodigy[™] HDLV[™] High Capacity Pump

- 2 High Capacity HDLV Pump
- 1 Push button color change panel
- 1 Backup HDLV Pump
- Close Coupled 16,000 cfm Twin-Cyclone
 95% cyclone efficiency with standard grind powders



Ductwork and Slide Gate

 Air Operated 28" Diameter Slide Gate complete with four way valve with 120/60 solenoids with NEMA 12 junction box.

Square to round duct transitions.

 28" Diameter Ductwork, 18 gage galvanized pipe with required quantities of elbows, straight pipe and nipples.

Powder Feed Center and Supply Equipment for 36 Guns

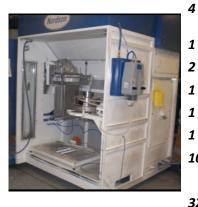
- **1** Powder Feed Center, Including 3000 cfm fan section with 5 hp exhauster motor, cartridge filter section, final filter section, vibratory table and fluidized bed with transfer pump. Controlled from central system PLC.
- 1 15" Vibratory Sieve with Vibrasonic deblinding system featuring;
 - * Sieves both virgin and reclaim material
 - * Vibrasonic deblinding system
 - * 100 Mesh stainless steel screen.
 - * 1/3hp 230-460/3/60 vibratory motor with adjustable weights
 - * Stainless steel sieve deck and under-pan assembly
 - * (4) Quick release clamps
 - * Nylon coated aluminum base
- 4 Pickup Tube Lance Assembly
 - Purge Assembly Manifold with latching assembly for enhanced seal during the purge cycle
 - Feed Center Panel
 - High Capacity HDLV Pump (Virgin Feed)
 - Level Control for Box Feed
 - Level Control for Virgin Replenishment
 - Main Header with Filter
- **10** PFC Fluidizing Hopper for Feed Center, 18" x 33"
- 32 Inline, Encore Pump
- **3200** Antistatic Powder Feed Tubing, 11.mm (0.43") 2 sets of powder feed hose with ends of hoses labeled on both ends.





Bulk Unloader for HDLV

1 - Drum Dolly's



Standard Electrical Control Panel Featuring:

- * Allen Bradley ControlLogix PLC
- * Control Logix I/O chasis with required I/O
- * Industrial grade managed switch
- * 20% spare panel space
- * Nema motor controls
- * Series 800T pushbuttons

Fire Detection System Control Panel

- **2** Flame Detector, FS10R-30
- **1** Flame Detection Indicator Panel

Fire Suppression/Deflagration System

- **1** Deflagration Suppression System
- 1 Installation Checkout and Startup (by Fenwal Engineer)





Booth Control Functions:

- a. Monitor and Shut Down due to Compressed Air Quality (Dew Point).
- b. Monitor and Alarm on Cartridge Filter Pressure.
- c. Monitor, alarm, and shut down on Final Filter Pressure.
- d. Powder level control and alarm in Hopper/Feeder System.
- e. Piezoelectric Beeper that sounds until alarms are acknowledged or cleared.
- f. One Button system start via the Operator Interface. Includes individual motor start/stop.
- g. Motor Status Display, including motor starter overload and other interlock diagnostics.
- h. System will store filter media pressure history.
- i. Configurable Reclaim/Non Reclaim Operation. Setup for sieve and transfer pump control
- j. Cycle On/Off Cartridge blow down sequence based on cartridge filter pressure.
- k. Loss of phase detection equipment
- I. Part out of position detection and conveyor shut-down assembly