Nordson Colormax PE Enamel Powder Paint Booth

Powder Coating Type: Inorganic
Design Conveyor Speed: Variable 10 - 25 FPM
Conveyor System Type: Monorail
Parts Coated: Oven Cavities
Coating Thickness Desired: 5 - 9 mils Average on Selected Surfaces
Largest Part Size: 2'5" W x 2'1" H
Profile End Opening: 3'6" W x 3'6" H
Number of Reclaimed / Recycling Powders: 4
Number of Powders: 4

Robot Powder Gun Equipment

Prodigy™ Dual Long Gun Wall Mount System with HDLV™ Technology

* Softer spray at gun tip provides higher first pass transfer efficiency
* Softer spray with more powder means better coverage in cavities and corners
* Paints faster at high line speeds with higher powder output
* Auxiliary high-low flow adjustment trigger
* Innovative HDLV conical and flat spray nozzle technology
* Individual and global set-up and monitoring of all gun parameters and presets
* 10 user configurable presets
* Purgeable pump design provides ultra-fast color change
* See-through pump design for quick, easy diagnostics

1 - *Prodigy™ II Dual Gun Wall Mount System with HDLV™ Technology*

2 - *Cable, Prodigy, Auto, 16M*

2 - *Prodigy PLC Gateway*

2 - *Prodigy™ Automatic Bar Mount Powder Gun with HDLV™ Technology*

· *Designed for use with HDLV™ powder transport technology*
· *Contoured body*
· *Lightweight*

- *Innovative HDLV™ Air Cap Nozzle Technology*
- *Smaller Transport Tubing*

Smart Coat Control System

* Allen Bradley Panelview Plus 15" with Pedestal
* Thirteen dual iFlow closed-loop mass flow meters (accuracy +/- <1%)
* Thirteen dual gun driver cards
* *(Same features as item "C" above)*

24 - *Encore P.E. Guns, Mounts, Cables*

Gun Mounting Equipment to Include:

Heavy Duty Fixed Gun Stand for mounting of automatic guns.

2 - *Heavy Duty Fixed Gun Stand*

2 - *24" Belt Driven In/Out Positioner Base, DC drive*

Fanuc Robot Equipment to include:

2 - *Fanuc M-710/C /50 Foundry Pro Six Axis Mechanical Unit*

2 - *Fanuc M-20iA/10L Six Axis Mechanical Units*

4 - *Product Documentation CD's*

4 - *2-year warranty for Robots*

1 - *2 Weeks supervision at Nordson, Amherst, Ohio lab for process validation.*

1 - *2 Weeks supervision at Nordson, Amherst, Ohio for validation runoff*

1 - *6 Weeks installation startup support at Electrolux, Memphis, TN*

1 - *2- 32 hour training classes at Fanuc for operator training*

4 - *General purpose access gate dual channel interlock w/ mt bracket*

4 - *General purpose emergency stop (E-Stop) dual channel push button*

4 - *General purpose warning beacon*

4 - *Custom Robot riser*

Poly Plus Canopy

* High performance non-conductive material
* Ceiling panels include translucent light panels.

* Two (2) automatic gun slots, 3.93" w(100mm w) x 60"h (1524mm h)
* Four (4) robot spray gun stations with floor blowoff and access doors
* Exit end doors for booth clean down
* Ten (10) Four tube fluorescent fixtures T5 lamps

COLORMAX P.E. BOOTH BASE ASSEMBLY

5'-9" wide by 44'-9" long (1750mm x 13649mm)

*Modular design base assembly with continuous centerline extraction hood and single extraction duct connection.

*Extraction hood panels formed to optimize the shear forces along the bottom edge of the panels. Each panel having a unique slot width to ensure proper draw along the entire length of the extraction hood.

* 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 pass-through 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 and other devices, 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.

*Additional structural elements will be included to accommodate the static and dynamic loads of the painting robots for this booth.

* Operator pendant for mover control

* Booth positioning and Alignment Stop Accurate to +/- 1/16" at the pin point.

* Stainless Steel Ductwork from Base to Module Replaceable wear liner in the ductwork from the base to the color module.

*Integral floor blow-off thresholds will re-entrain any powder that may collect on the service floor during routine powder application.

* Booth Base Hose and Cable Trays with cam clasp lids for easy access

* Engineered hose routing and hose/cable identification system

12,000 CFM High Flow Fan Assembly

*20 HP belt driven fan, 95.3% efficiency with loss of phase protection

*Noise abatement design high flow exhaust fan

1 - Excel 2003 Fan Assembly(s)

1 - Level Sensor(s)

6 - Final filters no tools required for final filter removal. Filters are 95% efficient at .30 microns

Reclaim Cartridge Modules Features:

* Designed to assemble as either a cartridge filter or a sintered thermoplastic Teflon coated rigid panel filter module.

* Non-integrated final filter/fan section is required to allow the system to roll on/off onto either conveyor line for this stream.

* Enlarged face opening to reduce load on fan and provide more uniform air flow.

* Inflatable pneumatic seal provides air-tight connection between collector module and fan section.

* Center-mount cartridges automatically set gasket compression without torque specifications to eliminate leaks and ensure faster filter changes.

* Quick disconnect design

* Fitted with low rolling resistance wheel assemblies and are capable of being propelled by an external powered hand tug.

1 - Powder Coated Collector Module per booth

30 - 36" PowderGrid®™ Plus Cartridges

2 - HDLV High-Capacity pump stations

1 - Backup HDLV pump and stand

Powder Supply Equipment for 26 Guns

1 - Model HTM-36 350# Capacity Hopper

1 - AZO 650 Sieve

1 - Fluidized Bed Heater

1 - Magnetic Separator

1 - Endress Hauser Level Control

24 - P.E. Pump

1040- Tubing, Polyurethane, High-Flow

Tilt Table Bulk Feed System

*Provides cleaner, easier transfer of powder materials directly from 3,000 pound fiber containers to the hopper/feeder in a constant, more efficient operation.

    1 - *Tilt Table Assembly*

    2 - *HDLV High-Capacity pump stations for Virgin Feed*

      *Greater output for higher productivity rates- up to 360 lbs per hour
      *Improved savings in compressed air usage

      *Lower powder velocity with less air to propel the powder

    125'- *Tubing, Polyurethane, Transfer*

Standard Electro-Pneumatic Control Panel Featuring:

    * (Same features as item "L" above)

Automatic Air Flow Control

    1 - *30 HP 95.3% efficient VFD*

      * Includes one touch clean-up mode for full exhauster power to assist in color change.

      *Includes automatic exhauster idle mode for extended line gaps

Part Identification System

    1 - *Parasitic "CAT" Drive*

    1 - *Part Identification Stand(s)*

    2 - *48" Vertical Emitter Scanner, 3/4" Resolution*

    2 - *48" Vertical Receiver Scanner, 3/4" Resolution*

    2 - *24" Horizontal Emitter Scanner, 3/4" Resolution*

    2 - *24" Horizontal Receiver Scanner, 3/4" Resolution*

    1 - *Incoming part crash avoidance interlock*

    1 - *Bent hangar part out of position detection system*

Enhanced Lean Recipe Selector (LRS)

* Parts will be measured in three dimensions

* A recipe number will be assigned to the part based on unique part dimension assigned by Nordson and EHP.

* Provides the ability to manually select a color group that can be used in conjunction with automatically generated recipe number.

Automated Booth Control Functions Including:

* (Same features as item "P" above)

Additional Reclaim Module:

* (Same description as item "X" above)

    1 - *Powder Coated Collector Module(s)*

    30 - *36" PowderGrid®™ Plus Cartridges each*

    1 - *Model HTM-36 350# Capacity Hoppers*

    1 - *AZO 650 with Mag Separator*

    1 - *Quick disconnect plate for gun purge*