



# Spectrum<sup>®</sup> HD Powder Feed Center

Lean Process Control ... Clean, Efficient and Precise

*Performance by design*

**Nordson**



## Spectrum® HD Powder Feed Center

The cleanest coating environment and optimum powder handling conditions offer complete production confidence, while reducing operator interaction.

- Full internal visibility for high colour change quality
- Exclusive cylindrical powder hopper design, with centrifugal high pressure cleaning, cleans automatically with no corners or areas for powder to hide.
- Reduced operator interaction through automated powder feed, direct from the manufacturers box to the powder hopper.
- All powder management and system controls are consolidated in one place, reducing factory footprint and enhancing operator ergonomics.
- High capacity ultrasonic sieve, fitted as standard, automatically conditions reclaimed and fresh powder, for the highest finish quality.

# Clean, Efficient, Precise

## A Complete Powder Management and Application Solution



### Closed-loop powder management system

Ensures powder containment during operation and colour change for a cleaner, safer, more productive environment.



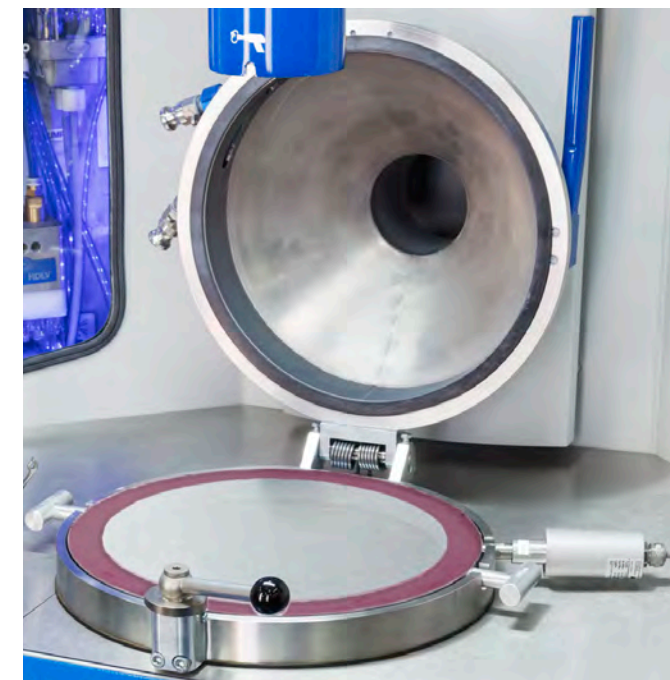
### Automated self-cleaning process

Consistently delivers the highest quality, fastest colour changes – any operator, any day, any shift – same results.



### Integrated dense-phase pump technology

Precision dispensing for consistent coating results. Significant powder material savings with minimum maintenance and downtime.

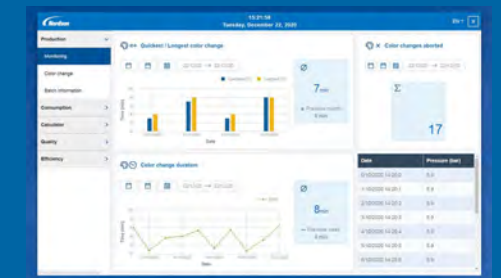


## PowderPilot® HD Application Controller

PowderPilot HD delivers precision digital control for your paint line – for easy access to all powder application and booth operating parameters.

Fully integrated with the Spectrum HD Powder Feed Center, the simple, icon driven, color touch-screen controls all aspects of the powder coating process; including spray gun air and electrostatic settings, gun movers, gun triggering and the color change sequence.

- Enjoy production consistency through automation of plant settings and reduced operator skill dependence.
- Digital closed-loop air volume and advanced electrostatic controls deliver high application efficiency and consistent coating thickness.
- Consolidates all system management functions and settings in one user-friendly touchscreen operator interface.
- Integrated network connectivity for production data collection, system status monitoring and remote diagnostics.
- Comprehensive self-diagnostics and alarms log and maintenance timers, including on-screen maintenance instructions and illustrated parts lists.



- Detailed operating statistics to aid your production efficiency, track and optimize your color changes, calculated or measured (optional) powder consumption tracking

## Nordson HDLV Dense-Phase Technology

Nordson patented Encore HD HDLV® (High Density Low Velocity) pumps deliver powder to the spray system with minimum of air offering the independent control of the powder and air volumes.

This allows to achieve very soft spray for maximum powder application efficiency. The Encore HD pumps have no wear parts affecting the powder output. Delivering maintenance-free performance with high output stability over a long period of time.

### For maximum savings

The soft powder cloud delivers unmatched deposition rate and recess coverage even at high output.

Long-lasting internal spray system and pump components minimize maintenance downtime and operating costs.

More than 10 years of field-proven experience at thousands of installations worldwide.

- Highest application efficiency with soft spray
- Unmatched productivity with stable powder output of up to 450 g/min\*
- Superior coverage of recessed areas through optimised spray velocities
- Over a long period of maintenance-free pump operation for minimum operating cost and maintenance downtime
- Automatic purge and high-quality color change in seconds

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## Why choose Nordson

With almost 50 years' experience designing and building innovative powder coating solutions, Nordson delivers outstanding products, expertise, and customer service to manufacturers worldwide. Our customers trust us to develop and deliver the best solutions to their most demanding powder coating needs. Nordson helps customers reach new levels of production while working more accurately, efficiently and competitively than ever.

Manufacturers who demand quality, rely on Nordson.

*Performance by design*

## Proven to perform in over 1,000 installations

The best testimony to the performance of our dense-phase systems come from customers with the highest production standards.



Our Nordson Encore HD system operates for 10 hours per day, 5 days per week. Since installation we have only had to maintain one pinch valve in one of the HD pumps. That's over 4,000 hours of maintenance free pump operation.

Andrew Emmerson, Salop Powder Coating Ltd.



Compared to our previous system with venturi pump technology, with the Nordson dense-phase technology we have powder material savings of around 30%. Throughout our 3-shift operation we coat consistently a film thickness of  $80\mu \pm 10\mu$ , which is important for the functionality of our lifting columns.

Kim Paulsen, Powder Coating System Operator, Linak Profiles A/S



We took a look at several systems, conducted tests, and decided on dense phase technology from Nordson. It impressed us with its high performance and its coating quality.

Markus Pape, General Manager, Oberflächentechnik Lönningen GmbH & Co.KG

### Nordson Industrial Coating Systems

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