

# Dynamic Contouring Movers

**Optimum automatic powder coverage  
of complex products**

*Performance by design*

**Nordson**

# Encore HD with DCM System

Achieve superior coverage by bringing the soft spray of our Encore HD spray system closer to the most difficult to reach product areas.

## Optimize the automatic coverage

Our advanced dense-phase technology with the Encore® HD spray system provides greater productivity and operating efficiency to deliver top performance at the lowest operating cost.

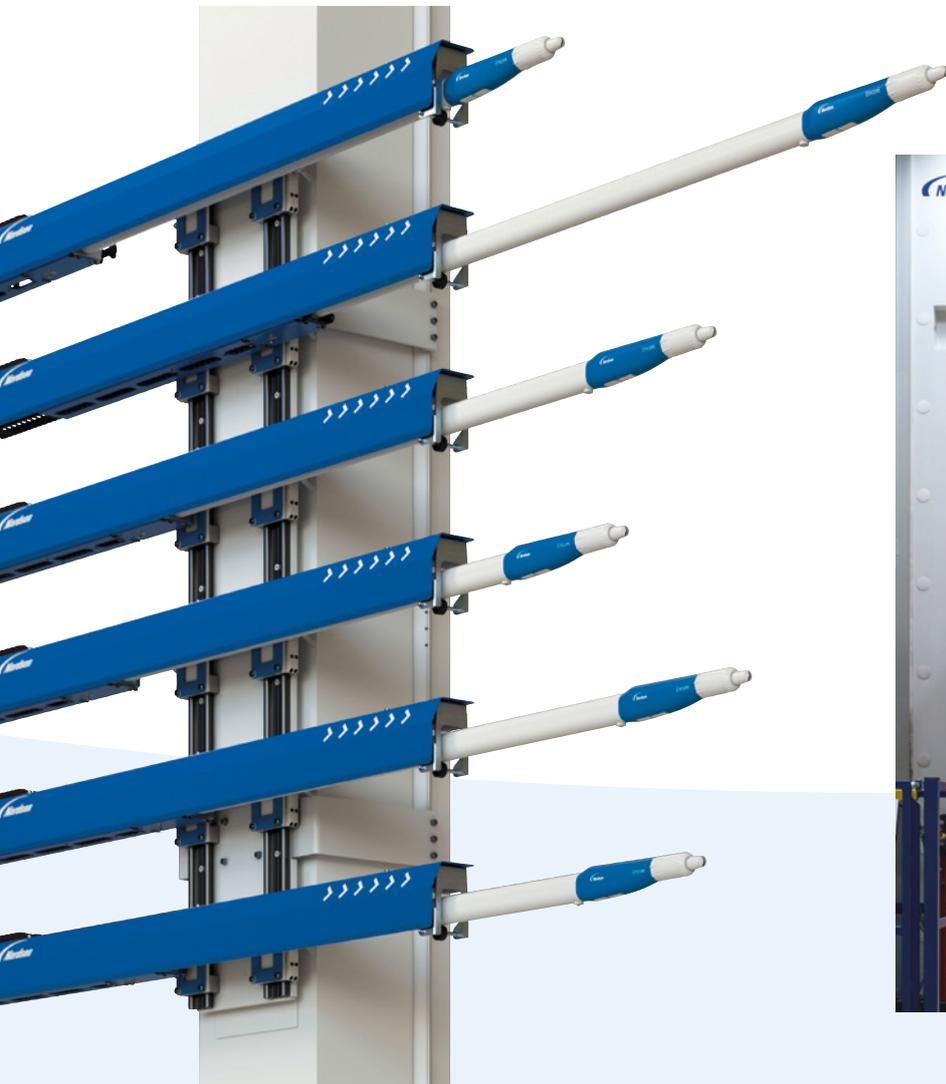
The Nordson Dynamic Contouring Mover (DCM) System combined with the soft spray increases the automatic coverage of complex forms and achieves the highest process control in your powder coating application. The DCM System automatically detects the product geometry and delivers superior coating performance by adjusting the position of each spray gun – and all this without any programming.

Product geometries are scanned with the highest level of accuracy detecting protrusions larger than 5 mm at a line speed of up to 5 m/min\*. The information is quickly processed by the PowderPilot® HD system controller and sent to the DCM.

The smooth operation of the DCM System has a positioning speed of up to 500 mm/sec and accuracy of  $\pm 1$  mm to bring the soft spray to the optimum distance of the target product surfaces.

The result is superior coverage of complex shapes, increased productivity and greater finishing.

\* operation at higher line speed depends on the product complexity



# Maximum flexibility

Superior coverage without programming – increase the automatic coverage in your powder coating systems.

## Your benefits

- **Optimize automatic powder coating coverage** of complex products
- **Reduce powder consumption** by improving the applied coating uniformity
- **Increase productivity** by reducing touch-up
- **No need of programming** – fully automatic positioning
- **Stay in control** of all system functions and data collection with our advanced PowderPilot HD system controller

## The Nordson DCM System Parts

- **Dynamic Contouring Movers** for the highest automatic coverage of complex forms
- **Heavy Duty Reciprocators** for precise movements of the Encore HD powder coating guns
- **PowderPilot HD** for full control of your powder coating application
- **Laser Scanners** for easy adjustment of the DCM positioning



## Technical Specifications\*\*

Number of Guns per Reciprocator	up to 6 guns
Position accuracy	± 1 mm
Line speed*	up to 5 m/min
Protrusion detection	> 5 mm

\*\* Specifications subject to change without notice. Errors and omissions excepted.

## Nordson Dense-Phase Technology with HDLV pumps

Nordson patented 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 HDLV 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

© 2020 Nordson Corporation | All Rights Reserved | PWL6146 | Edition 06/2020

## 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 Lönigen GmbH & Co.KG

**Nordson** Industrial Coating Systems  
ics.eu@nordson.com



/Nordson\_Coating



/NordsonICS



/company/nordson-industrial-coating-systems

Find your local Nordson office:

[www.nordson.com/icslocations](http://www.nordson.com/icslocations)

