



ColorMax³

Powder coating booth

Flexible coating without compromise

Performance by design

Nordson

ColorMax³ powder coating booth – economical and flexible

Down with costs, up with quality!

From countless variants, selecting just one: That's what consumers today prize most when purchasing many of the articles of everyday life. For powder coating equipment operations, this trend places high demands on flexibility and productivity if they want to manufacture products profitably even in "Batch size 1".



Maximum effectiveness

To maximize the effectiveness of a coating line, all components must be optimized to the highest degree.

Our ColorMax³ powder coating booth was consistently designed for the fastest possible color changes while ensuring the greatest possible cleanliness at the same time. The smooth walls reflect light evenly, providing perfect illumination of all coating areas inside the booth and making visual quality inspections considerably simpler and more reliable. Made of Nordson's patented Apogee material, the booth floor is also especially strong, durable, scratch-resistant and anti-static.

In combination with the unit's intelligent air flow management system, its smooth surfaces prevent powder adhesion and accumulation as well as color contamination during coating.

That means the booth can be cleaned easily and completely with compressed air. With the AirWash system, that cleaning is performed by powerful air pulses, which convey the fallen powder to the central channel extraction at short intervals.

Reciprocator Gun Mover

Horizontal or vertical: The column design enables the flexible installation of lightweight Encore HD guns for a perfect spray pattern. Adjustable compensating weights help balance the gun movements.



ColorMax³ (cubed)

The space-saving design of the booth delivers maximum productivity on the smallest footprint



Cleanliness inside and out – for contamination-free color changes in just minutes

Frequent color changes? No problem!

The intelligent equipment design with its easily accessible, service-friendly components facilitates very easy color changes in a matter of minutes, including complete, fully automated cleaning – without the need for the operator to enter the booth and shut off the unit! This prevents color contamination and ensures the highest coating quality.



Low powder losses, clean air

Nordson's unique twin cyclone technology excellent powder recovery efficiency: Depending on the powder used, up to 95% of it makes its way back to the powder feed center hopper before being resupplied to the coating process! Waste particles are collected in a final filter and automatically disposed of in a waste container.

Clean air is provided by an ATEX-certified afterfilter, which separates out contamination so reliably that the cleaned air can be returned to the production environment!

Proven technology

ColorMax³, Nordson's highly automated quick color change booth, has proven itself with outstanding performance so far in several hundred installations worldwide. Highly adaptable to individual needs, it is the ideal powder coating booth for practically every application.



Afterfilter

Perfectly matched to the respective application case, it captures the tiniest powder particles and disposes them automatically in a waste container.



Fully automated gun cleaning

The cleaning of the automatic guns inside and out is fully automated and completed in a matter of seconds – without manual intervention and without shutting down the system! This enables operators to make extremely fast color changes.



Powder recovery by twin cyclone

Unusable powder particles are reliably filtered out by means of air turbulence and then the remaining powder – once it has been carefully sieved in the powder center – is fed back into the production process.

Nordson powder coating systems – as flexible as your customers' requests

Top quality, productivity and economy

Efficient coatings, short set-up and cleaning times, and fast, contamination-free color changes help our customers achieve up to 65% greater productivity along with tremendous savings in energy and powder (up to 45%). In addition, durable components such as the HDLV pumps designed for 4,000 maintenance-free hours of operation and the excellent accessibility of our systems minimize downtime and maintenance costs.

1 ColorMax³ powder coating booth

Made of special plastics, it minimizes powder adhesion and facilitates fast, easy cleaning with compressed air.

2 Reciprocator Gun Mover

Able to move horizontally and vertically, it creates optimum conditions for coating an extremely wide range of workpieces.

3 Apogee material and AirWash system

Nordson's patented Apogee® composite material is extraordinarily strong and prevents powder adhesion. The AirWash system reliably removes powder accumulations from the floor of the booth and returns them to the powder circuit. During maintenance, the booth can be safely entered whenever necessary.

4 Spectrum HD powder center

Uses HDLV pumps to supply the guns with powder and conditions recycled material for reuse.

5 Powder sieve

An ultrasonic sieve conditions the fresh powder as well as the recovered powder for reuse. The sieve is clearly visible and directly accessible at all times, which simplifies and accelerates color changes.

6 HDLV gun pumps

Conveys the powder from the powder center hopper to the powder guns.

7 HDLV transfer pumps

Conveys the powder from the fresh powder box or big bags to the powder hopper as well as the recycled powder from the cyclone back into the powder hopper.

8 PowderPilot HD control system

The equipment control system enables precise digital control of the powder coating system – for easy access to all parameters of the system that controls powder application and the booth.

9 Twin cyclone

You can't clean it unless you can see it! With Nordson's unique twin cyclone, all components are easily accessible, enabling fast inspections and contamination-free color changes.

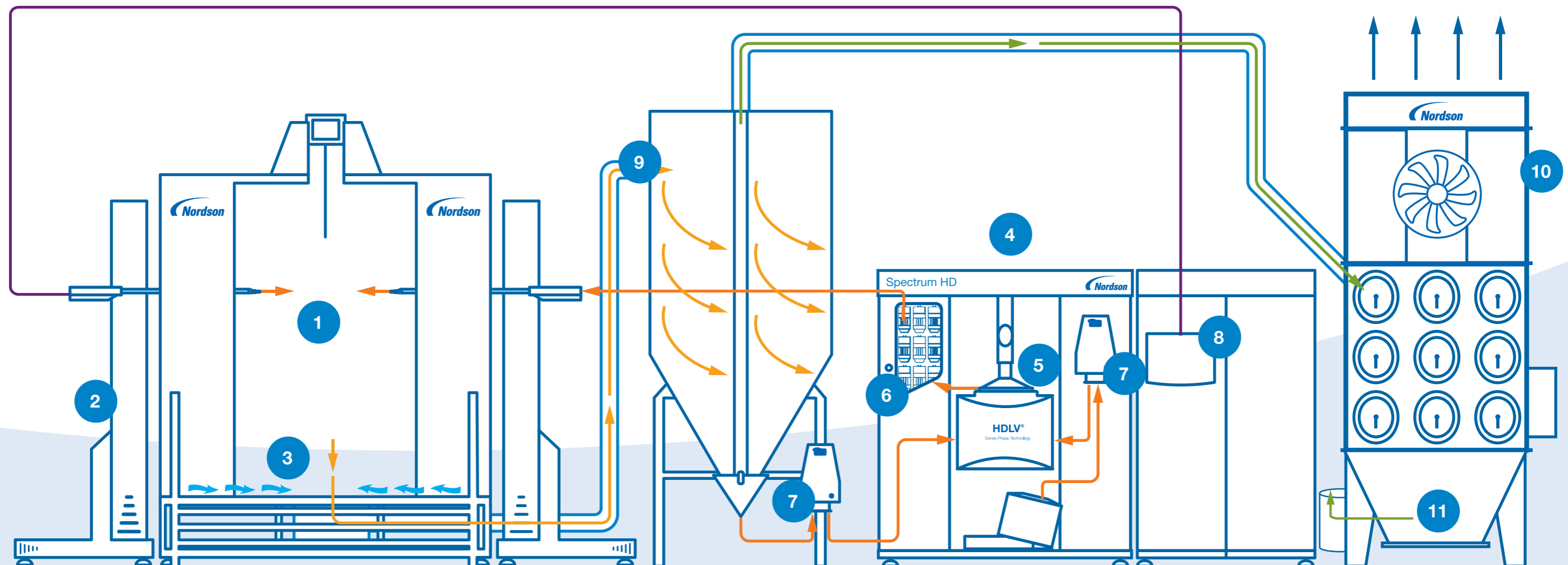
10 ATEX-certified afterfilter

Ensures the flow of clean air throughout the booth. It is equipped with a digital pressure drop control system as well as a pneumatic filter cartridge dedusting system. In addition, it has safety filters, which make it possible to return the purified air back into the hall environment.

11 Filtered-out powder particles from the afterfilter

These are sent directly to the waste disposal system.

Powder path →



What is dense-phase technology?

Nordson's patented HDLV® pumps use dense-phase technology with high-density powder, low-velocity air to pump more powder to the spray gun with a minimum of air, and maximum process control.

Dense-Phase Technology: everything under control

This results in superior efficiency, unmatched coverage, and reliable self-clean color change, boosting productivity and reducing operating costs.

With more than 10 years of field-proven experience, Nordson remains at the cutting edge of dense phase pump technology in the powder coating industry.

- Powder output stability and process control, for precise applied coating thickness and significant powder savings
- Highest application efficiency with soft spray pattern
- Superior coverage of recessed areas through optimised spray velocities
- Up to 4,000 hours wear life of the internal pump components significantly reduces maintenance downtime for maximum productivity
- Contamination free color change of the entire spray system due to an automated purge clean system

Proven to perform in over 1,000 installations

The best accolades for our dense-phase technology are not written by us; they come from manufacturers striving for even better production standards and improved efficiency:



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.



In 23 months since our installation, the system has never missed a beat, with no maintenance time required and no replacement pump parts such as pinch valves necessary. Altogether, the Nordson Encore HD equipment saves us money, makes us more productive and gives us complete production confidence.

Karolina Szwugier, Quality Engineer, Secal Ltd.



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

Why choose Nordson

In highly competitive manufacturing markets, productivity is vital and performance is essential. That's why we apply both to everything we do, whether it's our products, expertise or outstanding customer service. We'll always be there to help maintain the new standards you've set, with expert service and support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

Nordson Industrial Coating Systems

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Performance by design

