

OptiCenter® OC09

Clean - Efficient - Versatile



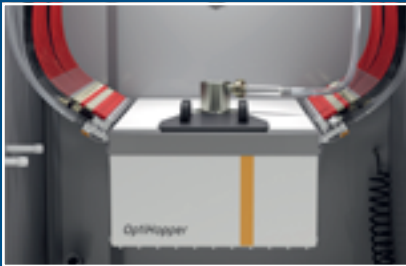
Make color change work for you

OptiCenter OC09 is the gateway solution for low to medium powder consumers seeking to improve powder utilisation efficiency of their multi-color processes, by eliminating multiple fluidised hoppers and reducing operator involvement. The system stands out through its clean color change performance without multiple hoppers, its modular design and the flexible system integration. Due to the comprehensive range of options the OC09 is designed to adapt easily to increased future process and production demands.

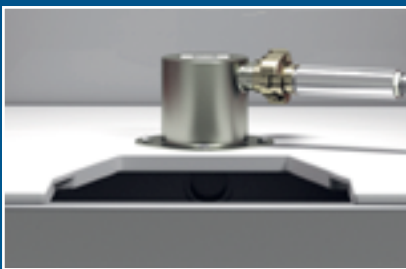
Your global partner for high quality powder coating

Gema

Clean



OptiHopper with OptiFlow injectors



OptiHopper with open inspection lid

Faster and more efficient color change

OptiCenter is a fully integrated process solution that provides economical powder usage, while driving fast and more efficient color change without the need of handling and cleaning of multiple hoppers. The heart of the OptiCenter is the OptiHopper; a fluidised 60l container, where the powder is perfectly conditioned. The optimal integration of the injectors ensures a smooth powder flow to the spraying guns for best coating results. The new OptiHopper enables rapid powder discharge during color change. The generous opening of the OptiHopper allows efficient hopper cleaning with the vacuum cleaner nozzle which is directly attached at the OptiCenter housing.

Optimized semi-automatic cleaning

Achieve a high cleaning efficiency of the OptiHopper and all powder-carrying components with the step-by-step cleaning program.

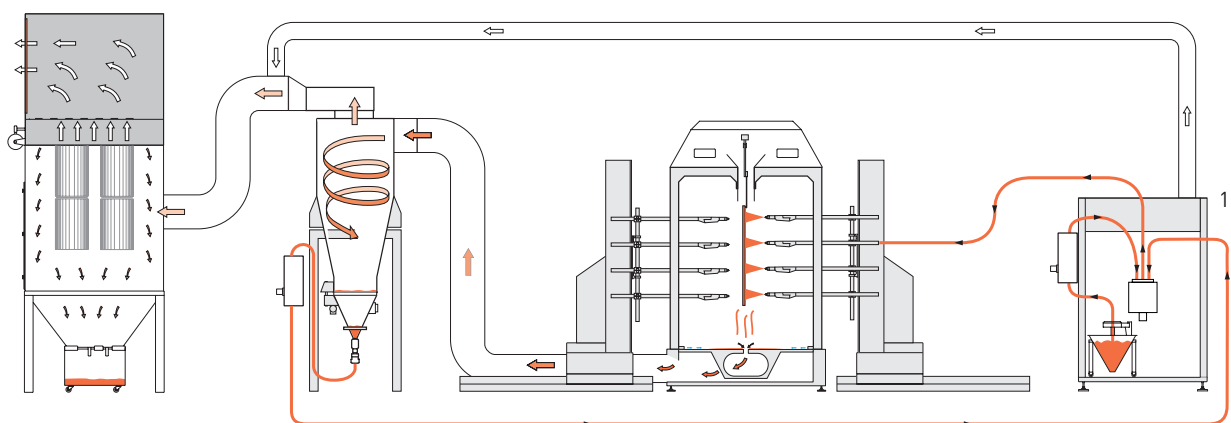
Air mover cleaning

Air mover with PowerClean technology minimises powder losses during application and provides optimal cleaning of the OptiHopper and powder path during color change.

Closed powder loop for higher productivity and powder savings

The closed-loop powder circuit ensures a continuous and consistent powder supply, reduced powder in process and a dust free working environment. The contamination free color change increases productivity and reduces powder losses.

The OptiCenter, the injectors, the virgin powder supply and the recovery system are all perfectly matched to each other, providing perfect working conditions.



¹ OptiCenter equipped with cone for fresh powder bags

Efficient

Excellent coating results for any batch size

The application possibilities of the OptiCenter are diverse. Depending on requirements, it can be supplied as a stand-alone product for process improvement or as an integrated component of a complete powder coating system; either solution can be equipped with the necessary options. The OptiCenter, equipped with up to 30 guns, allows handling and application stability for both large and small batch sizes.

Flexible integration

OptiCenter can be integrated within a new booth system or as an upgrade of an existing line.

The OptiCenter has a compact design and the control cabinet can be arranged on the right or left side. This results not only in space-saving, but also ergonomically optimal solutions.



Modular configuration of the OptiCenter OC09 enables ease of integration

One-piece cartridge design for reliable powder flow

The OptiFlow injectors are directly integrated into the OptiHopper and allow a precise powder delivery and faster color change.

The unique OptiFlow injector technology optimizes the Venturi principle in terms of transfer efficiency and minimal wear.

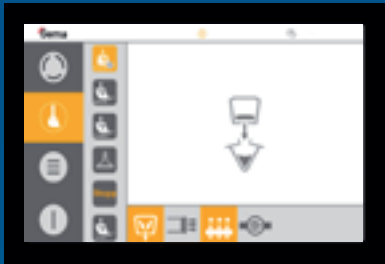
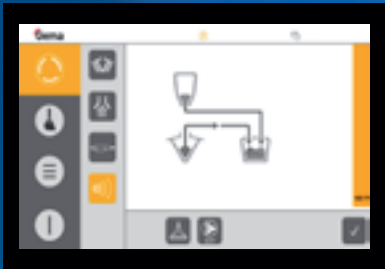
Gema uses the unique Inline-Design to consistently and gently transport the powder from the powder hopper to the powder gun. This protects the powder and ensures minimal wear part consumption.

The innovative single component cartridge of the OptiFlow injector provides optimum powder delivery for the highest quality finishes. The injector location directly at the powder source provides precise powder delivery and a faster, cleaner color change.



OptiFlow injector

«Plug & Convey»



OptiControl powder management control

Easy step-by-step operation and configuration

The operation of the OptiCenter is particularly intuitive and takes place on the 7" OptiControl touch screen which is centrally located on the housing.

The OptiControl control unit has the following highlights:

- Clean user interface: Easy operation of the coating and color change process
- Mode: Coating operating
- Mode: Cleaning operating (with step-by-step guide)
- Recycling powder pump control
- Integration and access to all optional features



OptiStar 4.0 gun control



OptiStar® 4.0: Application consistency

The OptiStar gun control is the key to achieving accurate and reproducible coating results. The gun control unit is integrated into the control cabinet of the OptiCenter and allows a precise control of the powder application.

- Digital Valve Control (DVC) technology for consistent and reproducible powder output
- The Precise Charge Control mode (PCC) adjusts the current flow even in the lowest amperage range (0-10 μA) with the highest precision, eliminating overcharging of sensitive powder
- Intuitive usage of the display for direct access to all coating parameters: high voltage, spray current, powder output and total air
- Three preset standard programs (flat parts, profiles and re-coating)
- 250 customized programs available at any time via the display screen
- Powder output alignment for all automatic guns
- CAN bus technology for horizontal integration into the higher-level plant control system

Versatile

Easy to upgrade to increased functionalities

The high performance modular design with a comprehensive range of optional upgrade features allows the user of OptiCenter to easily adapt to a future change of demands in process, quality and production. This makes the OptiCenter a flexible gateway tool for fast color change and allows an easy configuration to suit individual user requirements.

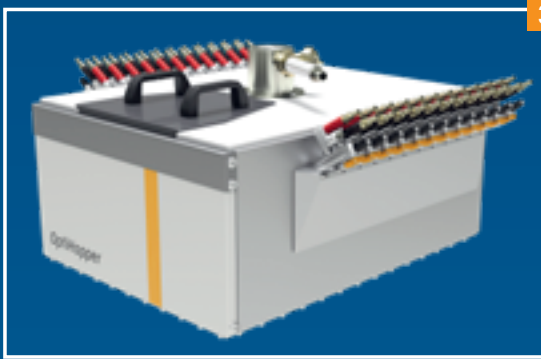
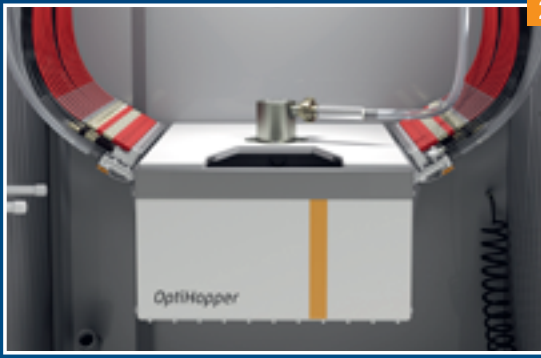
With a fresh powder feed and sieving solution, the most demanding quality requirements and expectations can be met.



Possible options: application controls or gun controls, external fresh powder feed and high-quality sieving solutions

OptiCenter OC09 - Options

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gun Control | OptiStar 4.0: Single gun control (Standard version) inside control cabinet AS06 MultiStar: Multi gun control inside control cabinet AS08 |
| Fresh Powder System | Vibrating cone for powder bags with OptiFeed pump Vibrating table for powder boxes with OptiFeed pump OptiFeed Box with external OptiFeed pump OptiFeed BigBag with external OptiFeed pump OptiFeed Drum with external OptiFeed pump |
| Sieving Solutions | Vibratory sieve Ultrasonic sieve |
| External Fresh Powder Hopper | PH60-OC (60l) / PH100-OC (100l) Optional level sensor |
| Level Sensors | Level sensors directly integrated into OptiHopper |
| External Switch Box | Remote cleaning trigger to start cleaning process directly at the cyclone |
| Fire Detection Sensor | Mounted at OptiCenter |



1

OptiCenter OC09

Best powder conditioning

- Short suction distances
- Continuous supply of recycled powder
- Optional fresh powder solutions
- Optional sieving solutions

Quick Color Change

- Closed powder loop
- Automated support for cleaning process

Compact Design

- Electrostatic and Powder Management
- Flexible, versatile configurations

Ergonomic and intuitive user interface

Easy maintenance

2

OptiHopper

- Clear viewing and unobstructed access to the powder hopper
- Covered powder hopper
- Inspection lid
- up to 30 integrated injectors
- Optional powder level detection

Cleaning

- Automated support for cleaning process
- Integrated and fully automated air mover cleaning
- Vacuum cleaning nozzle for hopper cleaning

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OptiFlow IG07

- Innovative single-component cartridge design for consistent powder output
- Consistent powder flow for uniform film thickness
- Powder outputs of up to 300 g/min achievable depending upon hose dimensions
- Color change optimized with Inline Cartridge Design
- «Plug & Convey» function for for quickest cleaning and maintenance access

Injector Integration

- Direct integration of the injectors at the powder hopper
- Short suction distances for faster reaction times when switching guns on/off
- Completely pre-assembled system, ready for operation



4 **OptiControl**

- Easy operation of the coating and color change process
- Automatic coating mode
- Step-by-step guide for cleaning mode
- Integration and access to optional features

5 **OptiStar 4.0**

- Intuitive interface
- Easy programming for high voltage, current and powder output
- Accurate and repeatable powder output settings
- PCC (Precise Charge Control) for exact current control below 10 μ A in 0.5 increments
- CAN-Bus for communication with superior control system
- Robust and rugged design

6 **Options**

- Gun control single or multi gun
- Fresh powder system with dense phase powder pump
- Vibrating cone or table
- Sieving solutions
- External fresh powder hopper
- Level sensor
- External switch box
- Fire detection sensor

Gema Switzerland

Your global partner for high quality powder coating

Take advantage of our expertise and experience from more than 50 years of electrostatic powder coating applications. From simple hand coating through to fully automated powder coating, we offer solutions that meet the demands and requirements of customers around the world in a wide range of industrial sectors. A global service network ensures you always get professional support, at any time and any place!

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