

OptiCenter

fast, clean and superb coating results!



Powder management systems

The new generation of powder management systems has a name: OptiCenter. The system operates efficiently and dust free and therefore produces excellent coating results. OptiCenter is a new modular concept suitable for both stand-alone operation and for the integration with gun, axis and booth controls.

Your global partner for high quality powder coating

Gema

Excellent coating results and minimized powder consumption



Efficient powder management

The core of this new powder center is the OptiSpeeder II. This unique container concept prevents any loss of powder during the fluidisation process. Control of the entire powder circuit is done fully automatically and extremely precisely. The result is an extremely low powder consumption and excellent coating results.



Improved coating quality

The OptiSpeeder II is equipped with an automatic fresh powder supply and a powder-level control system that maintains a constant amount of powder in the container. The suction pipes for the injectors are considerably shorter than in conventional powder centers. These features translate into a more consistent and uniform powder flow and improved coating results.



A variety of configurations

The OptiCenter is configured according to specific demands. The option lists includes, amongst others:

- Ultrasonic sieve US06
- Fresh powder can be supplied directly from a powder hopper as an alternative to the cone feed solution.
 - For main colors and systems with more than 24 guns
 - Hopper volume 60 or 100 l
 - Fluidized connection for venting hose
 - Suitable for metallic powder
 - Optional level probe
- vibrating table for powder box, for systems up to 12 guns, (alternatively to cone solution)



Quick color changes and application flexibility

Application flexibility

The application range of the new OptiCenter is extremely wide. Depending on requirements, the system can be supplied either as a stand-alone product or with integrated gun, axis and booth controls. The operation is carried out by touch panel.

Compact Design

The design of the OptiCenter is extremely compact, and the control elements can be flexibly mounted either on the right or left, resulting in space saving and providing an ergonomic solution.



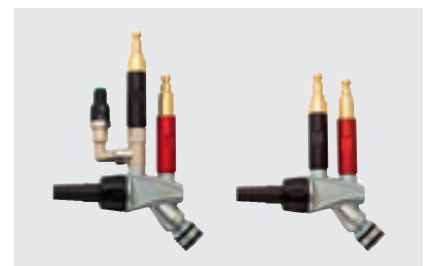
Gentle powder recovery

The powder recovery system is based on the proven OptiFeed powder pumps from Gema. These pumps convey the powder gently to the OptiSpeeder. The OptiFeed pumps do not have any moving parts and therefore require only minimum maintenance.



Optimized injector technology

The suction angle of the new Model IG06-P injector is opened to 135°. Thanks to this, it supports uniform powder flow, consumes less air and reduces wear.



Don't leave quality to chance



Save powder

The automatic OptiGun® with the integrated 100 kV cascade delivers the highest transfer efficiency in combination with the gun control OptiStar®. This means more powder on the work piece, less powder in the recovery system! The patented DVC technology ensures a precise and constant powder. This results in a more uniform distribution and layer of powder.

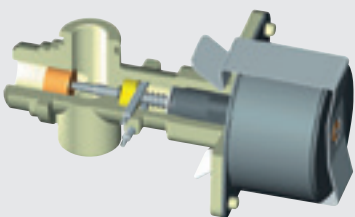


Quality always at its best

The clear display pilot makes it easy to find the optimal settings in every condition. 3 pre-set programs give you the best performance on flat parts, profiles and re-coating. Advanced users can create customized programs and achieve perfect coating quality, reproducible time after time!

DVC-Technology

Digital Valve Control (DVC) is the highly precise airflow control technology integrated in the control module OptiStar.



OptiStar: ergonomic and intelligent

The control module OptiStar is the key to obtain accurate and reproducible coating results.

- Patented Digital Valve Control (DVC) technology for accurate powder output control
- Clear visual display for direct access to all coating parameters: high-voltage, current limitation, powder output, air volume
- 3 standard programs (flat parts, profiles and re-coating)
- The Precision Charge Control Mode (PCC) adjusts the current flow even in the lowest amperage range (0-10 μ A) with the highest levels of precision. Therefore overcharging of sensitive powder such as metallic and effect powder is eliminated.
- 250 customized programs available anytime via the Display
- Powder output alignment for all automatic guns
- PLC communication via CAN-Bus



OptiGun - Designed for quick color changes

The automatic powder gun OptiGun is compact and easy to maintain. With color changes, the gun is quickly cleaned and ready to be used again. The nozzles are easily removed, can be quickly cleaned and contain minimal wear parts .

Nozzles - Perfection for all types of powder

With standard, effect or metallic powders the best coating results will be achieved providing the highest application quality.

OptiSelect® - On-gun remote control

Keep your eyes on the work piece, not on the control unit!
With the remote control on the back of the OptiSelect, the right program can be selected, even if the control module is out of reach.



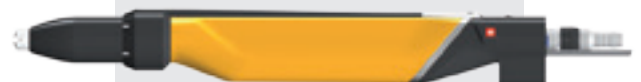
The most advanced powder application technology

The powder gun with the control units OptiStar is a perfect combination of coating efficiency and user-friendliness.

- Optimal transfer efficiency with every powder thanks to the 100 kV high performance cascade
- Extensive range of nozzles and extensions
- Quick coupling for powder hose for easy cleaning and maintenance
- Ergonomically designed light weight manual gun with integrated remote control
- Compatible with metallic powders
- Easy maintenance and wear resistant design

SuperCorona®

The optional adapter SuperCorona collects and neutralizes the free ions and reduces the orange peel effect.



Save time, space and money with the MagicSystems from Gema!



Color changes can be so easy

The quick color change systems in Gema's Magic series are designed in a compact and economical way. As a result, all systems can be easily and efficiently cleaned without any special devices. Booth cleaning can be carried out quickly and neatly by only one operator.

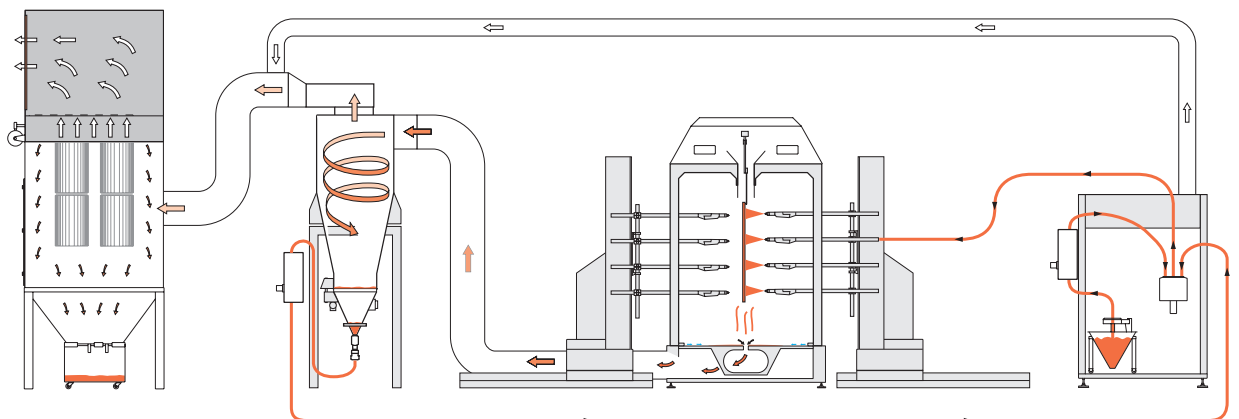


Easy to integrate into a wide range of system configurations

Thanks to their flexible design, all Magic quick color change systems can be integrated into any existing system configuration – whether used in a totally automated application or combined with pre- and post-touchup stations! In our state-of-the-art test lab we work closely with the customer to determine the optimal configuration designed to the exact requirements and needs.

Closed loop and efficient powder circuit

The powder circuit guarantees a continuous and consistent powder feed with minimal wear and tear on parts. The OptiCenter, injectors, powder pumps and recovery system are all ideally matched to each other and ensure perfect working conditions. With a fresh powder feed and sieving solution, the most demanding quality requirements and expectations can be met.



OptiCenter: boosts the productivity and profitability of your powder coating!



The benefits of the OptiCenter at a glance

- Simplified powder management
- Closed loop powder circuit for a dust-free working environment
- Constant powder transport using low-maintenance powder pumps
- Optimized coating results
- Constant mix of fresh and recovered powder
- Automated cleaning process
- High level of material utilization
- Flexible equipment options

The powder coating world of
Gema



Gema Switzerland

Your global partner for high quality powder coating

Take advantage of our expertise and experience from more than 40 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!

Gema is part of Graco Inc. Our goal is to help our customers to increase their productivity while creating attractive, long-lasting products. Our experts in the Finishing Group continually set new standards in the surface coating industry.



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