

OptiFlex® Automatic

Don't leave quality to chance!



Automatic powder coating systems

High transfer efficiency, reproducible coating results and the control of all gun parameters at a glance!

The OptiFlex automatic system leaves nothing to chance and guarantees high-quality powder coating!

Your global partner for high quality powder coating

 **Gema**

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 delivery, resulting in a more uniform distribution and consistency to the coating result.

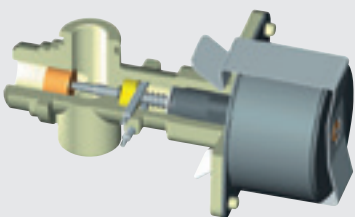


Quality always at its best

The clear display screen makes it easy to find the optimal settings in every condition. 3 pre-set programs give 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 precision airflow control technology integrated in the OptiStar control module.



OptiStar: ergonomic and intelligent

The OptiStar control module 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 at anytime via the Display Screen
- 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 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.



OptiGun and OptiSelect: Reliable and the highest transfer efficiency

The OptiGun and OptiSelect powder guns with the OptiStar control units are 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
- Application of metallic powders
- Easy maintenance and wear resistant design

SuperCorona®

The optional SuperCorona collects and neutralizes the free ions reducing orange peel providing improved visual appearance.



OptiFlex A2



OptiFlow powder injector

Uniform powder transport, stable powder delivery, easy-to-clean internal design and low maintenance costs are the main benefits of the OptiFlow powder injector.



The versatile, comfortable modular solution

User-friendly design and simple integration characteristics. The OptiFlex A2 meets these requirements for all users. With its modular design, the unit can be perfectly tailored to the customer's individual needs.

- Modular system for up to 21 control units per cabinet
- Large and clear visual display panel for clarity of operating conditions
- OptiStar gun control unit with storage capacity of 250 programs
- OptiMove control units for the reciprocators
- OptiAir control units, for hose rinsing and hopper fluidization
- Interlocking and data exchange with higher-level plant control unit
- PLC communication via the optional CAN-Bus

MagicControl® CM30



- Fully programmable, PC-based master control for all the system components for example: booth, guns, reciprocators, powder supply system
- Large 12" display with representative symbols
- TFT-color screen with touch-screen function
- Control of height, length and width recognition system
- Interlocking and data exchange with higher level plant control units
- Storage of operating software and application programs on CompactFlash cards
- Integrated into control cabinet or remote column

CM22



- Fully programmable, PC-based module
- 5.7" color touch-screen monitor
- Controls guns and axis
- Object recognition
- Interlocking and data exchange with higher level plant control units
- Ideal solution to upgrade existing lines with advanced functionality
- SD Memory Card

Comfortable programming

All parameters can be viewed and edited for the entire coating system.



Individual storage

To maintain security, coating programs and parameters can be stored onto memory cards.



What is CAN-Bus?

A bus system allows the data exchange between the hardware components and the control module CM30/CM22 controlling the powder coating system.

The bidirectional Data exchange between the hardware components ensures a comfortable and process-safe data exchange.

OptiFlex A1



Reciprocator ZA



The OptiMove axis control unit is user-friendly and allows free programming.

- Programming via touch panel
- Up to 255 programs
- Segment operation and stroke adjustment
- Cycle times displayed
- Integrated DigiBus / CAN-bus



The basic solution for simple automatic systems

The OptiFlex A1 includes all basic functions which are necessary for high-quality coating. The compact system can be integrated into any existing powder coating plant.

- Modular system for up to 15 control units per cabinet
- OptiStar gun control
- OptiMove reciprocator control
- OptiAir hopper fluidization control

Solid and maintenance-friendly

Quiet running, individual programming options and stability, together with heavy loading capabilities are the indispensable tools required for uniform powder coating. A broad array of translating and rotating axes complete the range.

- Long- and short-stroke operation
- Quiet running tooth belt transmission
- Maintenance-free AC motor
- Space-saving column design

Take advantage of OptiFlex! Power up your productivity and save money and time!

Get a grip on the entire system

Control and command all parameters of the system!

Measurable powder savings

Ensure valuable powder is applied on the object with uniform coating thickness!

Precise and stable powder delivery

Take advantage of the patented DVC (Digital Valve Control) technology!

Complete integration with all the system components

The CAN-Bus interfaces ensures a quick and reliable data communication.

OptiFlex

Reliability and flexibility for twenty first century powder coating.



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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