OptiFlex® Automatic Platform

Set new standards with your powder coating equipment!

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 at any time.

Superior technologies make your powder coating line smarter!

Your global partner for high quality powder coating

Gema

Maximum performance and process control

Intelligent control unit

The new generation of OptiStar and the proven DVC- and PCC-Technologies ensures perfect coating results by precisely controlling the spraying current, high voltage and powder output.
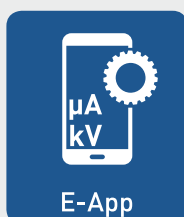
The new Electrostatic App is an innovative feature, which makes OptiStar 4.0 even more intelligent and efficient.
The Electrostatic App is a universal and trendsetting tool that opens up new possibilities for the process control - from line management to the maintenance of the equipment. Important process data and statistics are available on a mobile device, at any time!

Electrostatic App

With the Electrostatic App all relevant application data, such as crucial coating parameters, is readily available on a mobile device. Process evaluations and statistics can be easily accessed by the operator. This saves time and makes the application even more efficient.

OptiStar® 4.0: ergonomic and smart - master the coating process

The OptiStar control unit is the key to obtain precise and reproducible coating results through its outstanding features.

– Web-connectivity with new Electrostatic App
– Patented Digital Valve Control (DVC) technology for accurate powder output control
– 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, current limitation, powder output, air volume, electrode rinsing air, fluidization air
– 3 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
– PLC network communication via CAN-Bus

Highest transfer efficiency and easy color changes

OptiGun® - Designed for fast color changes
The automatic powder gun OptiGun is compact and easy to maintain. For color changes, the gun is quickly cleaned and ready to be used again. The easy-to-clean nozzles are removed within seconds and contain minimal wear parts.

OptiSelect® - On-gun remote control
Maintain focus on 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.

Nozzles - Perfect results with all types of powder
Gema offers an extensive range of nozzles for all types of automatic and manual powder applications. With standard, effect or metallic powders the best coating results will be achieved providing the highest application quality.

Powder Guns: Reliability and 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 the powder hose for easy cleaning and maintenance
– Ergonomically designed light weight manual gun with integrated remote control
– Application of metallic and special effect powders
– Easy maintenance and wear-resistant design

SuperCorona
The optional SuperCorona collects and neutralizes the free ions. This reduces the orange peel effect providing an improved visual appearance.
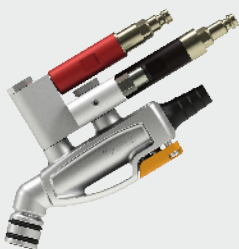
Modular concept for every need

OptiFlex® A2

OptiFlow powder injector

The IG07 injector ensures a precise and reliable powder transport.
The single-component cartridge design ensures a constant injector performance and enables fast color change. The easily exchange of the cartridge via quick release ensures minimal and rapid maintenance.

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 units for the reciprocators and axes movement control
– OptiAir control units for hose rinsing and hopper fluidization
– Interlocking and data exchange with higher-level plant control systems by the customer
– PLC network communication via CAN-Bus
– Customized vertical integration via Ethernet, Gateway, Interfaces etc.

Master controls for all system components

MagicControl 4.0 (type CM40)

– Fully programmable, PC-based master control for all the system components: booth, guns, reciprocators, powder supply system
– Large 15" color wide screen display (16:9) with intuitive symbols and touch screen function
– Optimized Line Management service
– Control of height, length, width, gap and dynamic contour detection system
– Integrated technology for location-independent access
– Interlocking and data exchange with higher-level plant control systems
– Storage of operating software and application programs on memory cards
– Integration into a control cabinet or stand-alone control console

Ergonomic programming

All parameters can be viewed and directly edited for the entire coating system. The self-explanatory icons and operation messages enable an easy and user-friendly use for every operator.

Individual data storage

To maintain security, crucial coating programs and parameters can be stored and simply accessed at any time. Selected operating data can be exported and used individually.

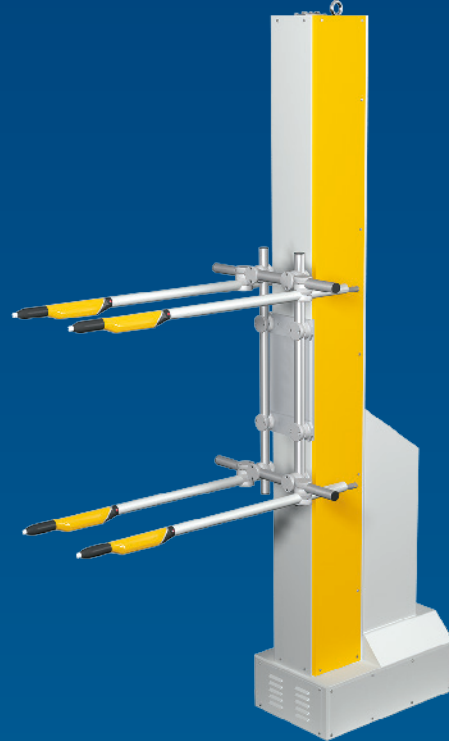## Fully integrated automation

With MagicControl 4.0 all components of the coating process can be monitored and controlled. The networking of all system components pro-vides superior functionality and simplicity within the production and maintenance processes.

MagicControl can be easily integrated into existing production infrastructures. The Line Management enables the analysis of important production information and provides information about the plant condition.

Basic solutions for increased coating quality

OptiFlex® A1

Reciprocator

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

– Programming via the touch panel
– Up to 255 programs
– Segment operation and stroke adjustment
– Display of cycle
– Integrated DigiBus / CAN-Bus

The basic solution for entry-level systems

The OptiFlex A1 includes all basic functions 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

Robust and maintenance-friendly reciprocators

Quiet running, individual programming options and stability, together with heavy loading capabilities are the indispensable tools required for uniform powder coating.

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

Power up your productivity and save money and time!

Total control of the application process
Control and command for all system parameters!

Measurable powder savings
Ensure consistent and uniform powder thickness with savings in valuable powder!

Precise and stable powder delivery
Take advantage of the patented DVC (Digital Valve Control) technology!
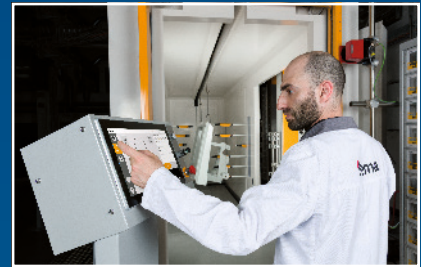
Data management
Analyze important process data for further system optimization.

Total integration with all the system components
The CAN-Bus interfaces ensures a quick and reliable data communication.

OptiFlex Automatic
Reliability and flexibility for twenty first century powder coating.

Gema Automatic Platform

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!

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 continually set new standards in the surface coating industry.

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