

# OptiFlex<sup>®</sup> Automatic

Control the cloud



## Automatic powder coating systems

High transfer efficiency, reproducible coating results and the control of all gun parameters.

The OptiFlex automatic gives you the ability to control your powder cloud with the right air balance and particle charging.

**Gema**

The Global Leader in  
Powder Coating Technology

# Control the cloud



## Save powder

The automatic OptiGun® with the integrated 100 kV cascade delivers the highest transfer efficiency in combination with the OptiStar® gun control unit. This means more powder on the part, less powder in the reclaim system. The patented DVC technology ensures a precise and constant powder delivery, resulting in a more uniform film thickness and consistent coating result.

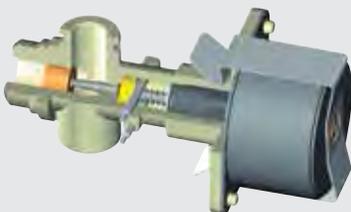


## Quality always at its best

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 the highest 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 offers a new standard of precision and more uniform film thickness, resulting in lower operating costs
- 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) and 250 customized programs available at anytime via the control unit display
- The Precision Charge Control Mode (PCC) adjusts the current flow even in the lowest amperage range (0-10  $\mu$ A) with the highest levels of precision. Therefore overcharging of sensitive powder such as metallic and special effect powder is eliminated
- Powder output alignment for all automatic guns
- Communication via CAN-Bus
- Unprecedented precision control of current and voltage ensuring maximum efficiency and uniformity of coating



### 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, special 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 part, 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.

- 100,000 volts of FirstPass Power provides the highest transfer efficiency with any powder, maximizing powder savings
- 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
- Whether using standard, metallic, or other special effect powders, the patented gun body and cascade design ensure the most optimum performance and results
- Compact gun design is easily maintained, quickly cleaned and ready to use again for very fast color changes
- Interior powder path provides softer spray patterns, allowing the electrostatics to have greater control and increased transfer efficiency

### SuperCorona®

The optional SuperCorona ring can be used to minimize orange peel, improve penetration and overall finish quality.



# OptiFlex A2



## OptiFlow powder injector

Ultra-efficient powder pump design employs the most effective angle to consistently deliver powder, resulting in optimized air consumption and less powder waste.



## 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 control platforms
- Communication via the optional CAN-Bus

## OptiControl® CM30



- Fully programmable, PC-based master control for all the system components including 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 systems
- 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 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 drive train
- Maintenance-free AC motor
- Space-saving column design

# Take control of your powder cloud 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 interface ensures a quick and reliable data communication.

## OptiFlex

Reliability and flexibility for twenty first century powder coating.



## The powder coating world of Gema



Gema

## Your global partner for high quality powder coating

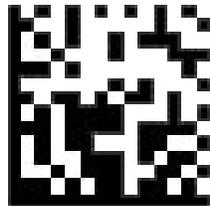
Take advantage of our expertise and experience from more than 40 years of electrostatic powder coating applications. From simple manual coating to fully automated powder coating, we offer solutions that meet the demands and requirements of customers around the world in a wide range of industrial sectors. A global service network ensures you always get professional support, at any time and any place!

We make our customer's products more durable and attractive. Our finishing experts create the technologies, processes and materials that regularly set the standard for the industry.



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