

# OptiFlex Automatic

Don't leave  
quality to chance!



## Automatic powder coating systems

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

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

**Gema**

The Global Leader in  
Powder Coating Technology

# Don't leave quality to chance!



## Save powder

The integrated 100 kV cascade delivers the highest transfer efficiency. This means more powder on the work piece, less powder in the reclaim system! The patented DVC technology ensures a precise and constant powder delivery. This results in a more uniform distribution and lay down of powder.



## Quality always at its best

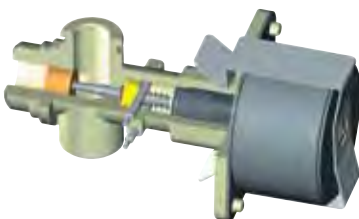
The clear display makes it easy to find the optimal settings in every condition. 3 pre-set programs give you the best performance on flat parts, profiles and re-coating. Advanced users can create other programs customized to their own needs.

The result? Perfect coating quality, reproducible time after time!

## OptiStar: ergonomic and intelligent

### DVC Technology

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



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) and 250 customized programs available anytime via the Display Pilot
- Powder output alignment for all automatic guns
- PLC communication via the optional CAN-Bus or DigiBus
- Closed loop airflow control via the optional FlowControl



### Designed for quick color changes

The OptiGun automatic powder gun is compact and easy to maintain. With color changes, the gun is quickly cleaned and ready to be used again. The nozzles are removed in a flash, they are cleaning-friendly and contain a minimum of parts that are subject to wear.

### Perfection with any type of powder

Whether using Standard or Metallic powders, the patented gun body and cascade design ensure the optimum results at all times. This means you always serve your customers with perfect quality.

### On-gun remote control

You can keep your eyes on the work piece, not on the control unit! With the remote control on the back of the gun, you select the right program, even if the control module is out of your reach.



## OptiFlex Series Powder Guns: robust and efficient

The OptiFlex Series powder guns and controls are a perfect combination of coating efficiency and user-friendliness.

- Perfect transfer efficiency with every powder due to the 100 kV high performance cascade
- Continual, uniform powder delivery and charging, for a uniform distribution and lay down of powder
- Patented Digital Valve Control (DVC) for accurate powder output control
- Control unit display ensures easy access to pre-set and customized coating programs
- Reduced maintenance costs due to the wear resistant design

### SuperCorona®

The optional SuperCorona collects and neutralizes the free ions that would disturb the powder deposition on the object. This improves the surface quality.



## OptiFlex A2



### The versatile, comfortable modular solution

#### Powder Injector

Uniform powder transport, stable powder delivery, easy-to-clean internal design and low maintenance costs are the main benefits of the IG06 powder injector.



User-friendly design and capacity for integration. The OptiFlex A2 meets these requirements all the way down the line. Thanks to its modular system, the unit can be perfectly tailored to the customer's needs.

- Modular system for up to 14 control units per cabinet
- Large and clearly readable display panels to read operating conditions
- OptiStar gun control unit with storage capacity of 250 programs each
- 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 or DigiBus





## OptiControl

- Fully programmable, PC-based module
- 12" color touch-screen monitor
- Controls guns, axis and object recognition system
- Interlocking and data exchange with higher-level plant control units
- Storage of operating software and application programs on CompactFlash cards
- Ideal solution to upgrade existing lines with advanced functionalities

## MagicControl

- Fully programmable, PC-based master control
- 12" color touch-screen monitor
- Full control of all the system components as booth, guns, reciprocators, powder supply, object recognition system.
- Interlocking and data exchange with higher-level plant control units
- Storage of operating software and application programs on CompactFlash cards
- Integration into control cabinet or pedestal mounted

### Comfortable programming

You can overview the entire powder coating system and choose all parameters directly via the screen. The clear icons and action messages offer your coaters an intuitive operation of the control systems.



### Individual storage

Your individual coating programs are precious, that's why you can store them onto CompactFlash cards. Call up your specific programs via the icons to repeat your coating results at any time.



### What is CAN-Bus/DigiBus?

A bus is a transfer system with corresponding control components, which serves to exchange data and/or power between hardware components.

This technology allows the data exchange between the components of the Gema system. Your work becomes more comfortable and process-safe!



OptiFlex **A2**

The basic solution for simple automatic systems

The OptiFlex Automatic System 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 12 control units per cabinet
- Large and clearly readable display panels
- OptiStar gun control
- OptiMove reciprocator control



Reciprocator **ZA**

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. The ZA reciprocators perfectly meet these requirements and feature a solid and maintenance-friendly design. A broad array of translating and rotating axes complete the range.

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

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

- Teach-in function
- Up to 255 programs
- Segment operation and pendulum stroke
- Displayed cycle times
- PLC communication via CAN-Bus/DigiBus



## 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 your system!



**Measurable powder savings**  
Get your valuable powder on the object with uniform coating thickness.

**Precise and stable powder delivery**  
Take advantage from the patented DVC (Digital Valve Control) technology.



**Complete integration with all the system components**  
The CAN-Bus and DigiBus interfaces ensure 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

Benefit from our knowledge based on more than 40 years of electrostatic powder coating experience.

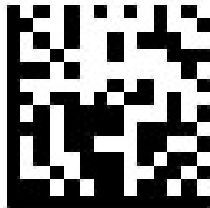
From simple manual coating units to fully automated powder coating systems, we offer the best possible solution to satisfy all of our customers in different countries and in different market segments, customers who all have their own individual needs and requirements. Our worldwide network guarantees professional service anywhere, anytime!

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.



# Gema

The Global Leader in Powder Coating Technology



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