

# Gema Powder Coating Equipment



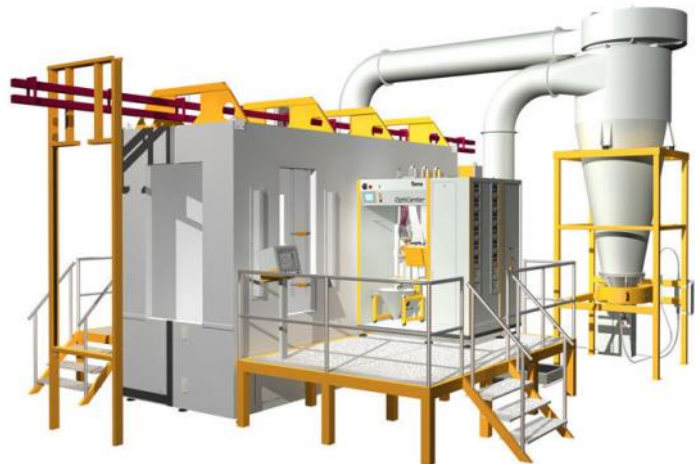
Surface Finishing  
Equipment Group

Powder coating is accepted as a solution to increasingly stringent environmental regulations, rising costs, and demands by consumers for higher quality and more durable products.

The Surface Finishing Equipment Group work in conjunction with GEMA, the industries global powder coating equipment development pioneer. We provide everything from manual machines, automatic guns, reciprocators, powder booths, colour change systems, along with the after sales support of spares servicing, and spares.

## Gema Powder Coating Equipment Range

- Complete Powder Coating Plants
- Gema Optiflex Pro Manual Machines
- Gema Opti Automatic Guns and Reciprocators
  - Booths and Curing Ovens
- Powder Feed and Colour Change Systems



## THE SURFACE FINISHING EQUIPMENT GROUP are :-

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# OptiGun® GA03

## System overview

The best choice for automatic application



### OptiGun GA03 – robust with the highest transfer efficiency

- Perfect coating results with all types of powder – even demanding Metallic and special powders
- Optimal transfer efficiency thanks to the 100 kV high performance cascade
- Quick color change design
- Broad range of application accessories
- Simple maintenance procedures
- Wear-resistant and ergonomic design
- Suitable for injector and OptiSpray pump technology



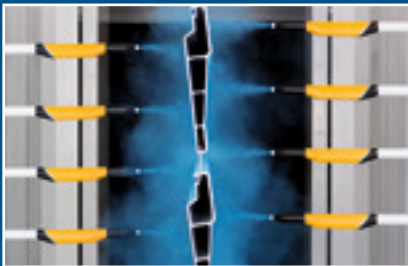
reddot award 2014  
winner

Your global partner for high quality powder coating

**Gema**



## Do not leave quality to chance



### OptiGun – for quick color changes

The automatic powder gun OptiGun is compact and easy to maintain. During color changes, the gun is quickly cleaned and ready to be used again.



### Save powder

The automatic OptiGun with the integrated 100 kV cascade delivers the highest transfer efficiency in combination with the gun control OptiStar®. The patented DVC technology ensures a precise and constant powder delivery, resulting in a more uniform distribution and remarkable powder savings.

### Perfect interaction of all system components

The combination of the innovative booth design of the Magic Systems with the best gun technology and the flexible and versatile OptiCenter exceeds even highest customer expectations in coating quality and quick color changes. The Magic Systems powder circuit guarantees continuous and consistent powder feed with minimal wear on parts. All system components are perfectly synchronized and ensure perfect coating results and optimal working conditions.

#### Customer Benefit:

- Superior application performance with all types of powder
- Top color change properties
- Highest levels of reliability
- Maximum flexibility
- Powder savings
- Minimized operating costs





### Quality always at its best

With the OptiStar 4.0 it is 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!



### Nozzles - Perfection for all types of powder

Nozzles can be dismantled within seconds, are easy to clean and made of wear-resistant materials. Whether applying standard, effect or metallic powders, the best coating results will be achieved providing the highest application quality to your customers.



## OptiGun GA03 – the heart of the powder coating

High transfer efficiency, constant film thickness and designed for quick color changes:

### External Gun Design

- Drop-shaped gun body
- Accurate and seamless assembly
- Use of non stick materials
- Easy to clean
- Quick coupling for electrically conductive Gema powder hose

### Gun Design inside

- Integrated 100 kV high performance cascade
- Accurate internal assembly and perfectly sealed components
- Use of non stick materials
- Smooth and consistent powder path
- Integrated electrode rinsing air



### Robust design

- One piece gun shaft
- Seamless design eliminating recess areas
- Gun body made of abrasion-resistant material
- Suitable for injector and pump technology

### Best Material choice

- Electrode holder and nozzles made of abrasion-resistant and non-stick materials
- Self-cleaning electrode protection



### OptiStar 4.0 Gun Control

- Intuitive Interface
- Easy Programming for high voltage, current and powder output
- Storage for up to 250 customized programs
- **DVC (Digital Valve Control)** for accurate and repeatable powder output settings
- **PCC (Precise Charge Control)** for exact current control below 10  $\mu\text{A}$  in 0.5 increments!
- **CAN-Bus** for communication with higher level control system
- Robust and rugged design



### OptiGun Versions



#### GA03

Standard automatic gun with back plate connector for injector or pump technology.



#### GA03-X

Quick color change gun with back plate connector for injector or pump technology.

## 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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