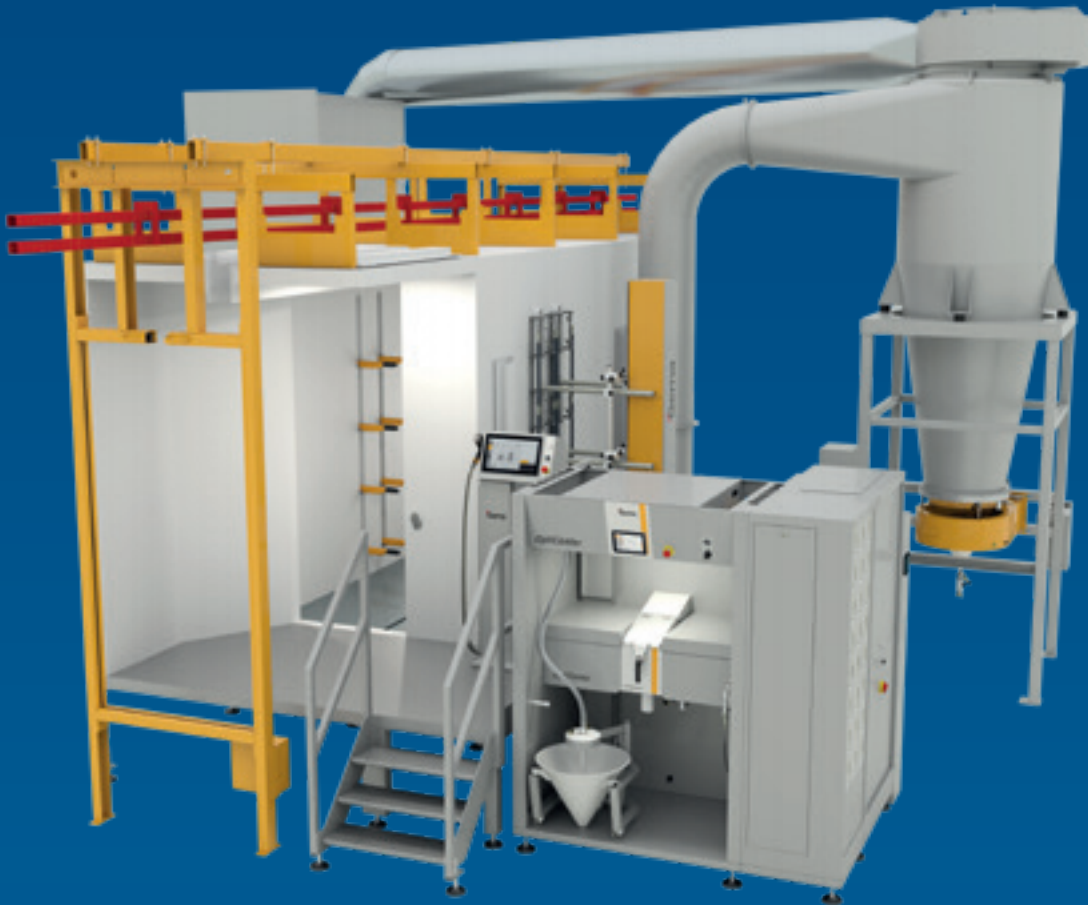


# MagicCompact® EquiFlow®

The efficient solution with superior EquiFlow technology



## Systems for automatic powder coating

Benefit from the most advanced powder coating technology:

- Precise process control, leading-edge electrostatic system and the most advanced booth design
- Perfect coating conditions inside the booth as well as at pre- and post-touchup stations
- Quick color change

Your global partner for high quality powder coating

**Gema**

# The perfect air distribution



## Perfect coating conditions and quick color change

Extremely uniform airflow creates the ideal conditions for perfect control of the powder application process producing excellent coating results. The use of non-conductive plastic materials in the booth and its self-cleaning floor prevent powder accumulations. One operator can clean the booth in minimal time.



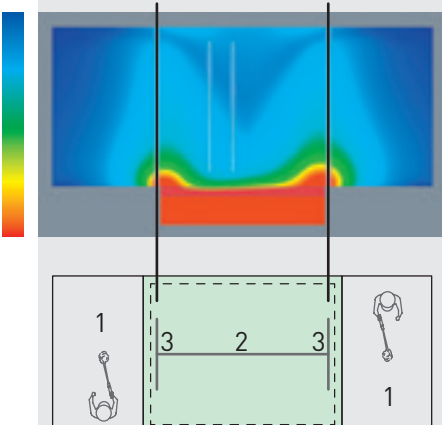
## EquiFlow technology for intelligent air distribution

Air extraction is concentrated where it is needed most, at the booth's entry and exit. This prevents powder from escaping into the environment, and creates an ideal flow of air at the pre- and post-touchup stations. This results in a perfect balance between the powerful air extraction in the manual coating area and gentle airflow in the automatic section.

## EquiFlow technology

Ensures a harmonised flow of air in the automatic coating zone and optimal air extraction at the pre- and post-touchup stations.

## Computational fluid dynamics



## A modern powder coating system needs to achieve many contrasting goals:

- Create an optimal environment for the electrostatic powder application process
- Avoid powder accumulations and allow quick contamination-free color change
- Provide powerful air extraction to prevent powder from escaping and maintain safe powder concentration

Thanks to the patented EquiFlow technology, the new MagicCompact easily meets all of these goals. The combination of the new booth design with the best gun technology and the flexible and versatile OptiCenter® will exceed the most demanding expectations in terms of coating quality and quick color change.

- 1) Manual Coating: 2 x 30 % of the exhaust air is extracted at the booth's entry and exit providing optimum working conditions at the pre- and post touch up stations.
- 2) Automatic Coating: 40 % of the exhaust air is extracted in the automatic section creating a smooth vertical air stream and guaranteeing perfect application conditions
- 3) Increased air speed at the booth entrance reduces powder accumulation in the powder channel

# Space saving layout, ideal for new installations and upgrades

## Short installation time

Most of the system components are delivered preassembled so the system can be installed very quickly. It can be easily integrated into existing installations with minimal downtime.

## Robust, low maintenance costs

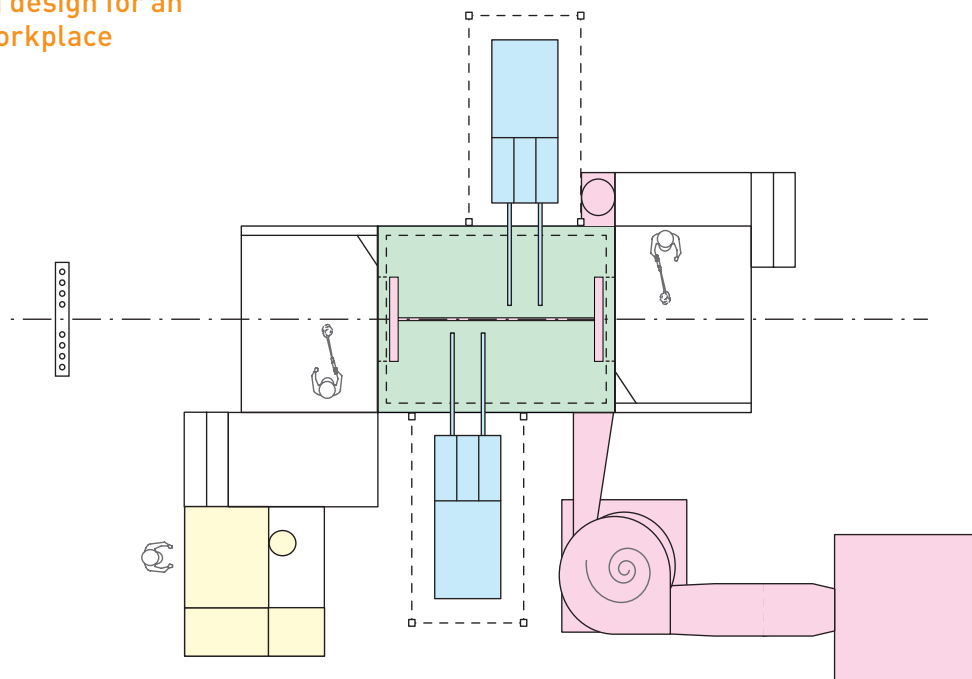
The solid booth construction without any moving parts ensures a long service life with extremely low maintenance costs. The booth floor is easily accessible for maintenance and control.

## Efficient, user-friendly layout

All systems components are optimally matched based on our extensive worldwide experience. This means that the operator can easily and quickly access all key system elements during normal operation as well as during the color change process and for maintenance.



## Space-saving design for an ergonomic workplace





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2



3



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### A completely different kind of sandwich

The MagicCompact EquiFlow features a sandwich-wall booth construction. As a result powder accumulation is minimized on the booth walls. The booth floor is equipped with an automatic cleaning system to prevent powder deposition.

2

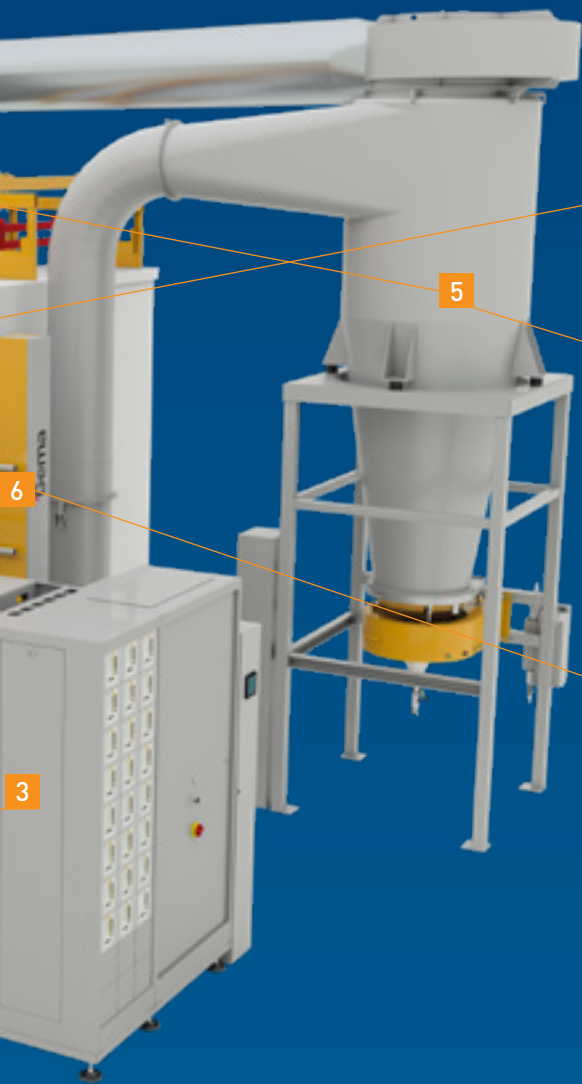
### Controlling the coating

Are powder savings important? Are repeatable coating results and operator comfort a priority? The versatile control system MagicControl 4.0 with Touch Panel provides continual access to all parameters of the coating process.

3

### Applying the powder where and when required

The MagicCompact EquiFlow powder circuit guarantees continuous and consistent powder feed with minimal wear on parts. The OptiCenter, injectors, powder pumps and recovery system are all optimally matched to each other and ensure perfect working conditions. The fresh powder feed and sieving solutions are designed to meet challenging quality requirements and will exceed all expectations.



4

#### The heart of the powder coating

High transfer efficiency, minimal powder output and uniform power application: the automatic guns OptiGun® are the heart of the powder coating process. A design with minimal wear components is a prerequisite. The excellent ergonomics and the lightweight design of the OptiSelect® guarantee fatigue-free manual coating.

5

#### For a good atmosphere

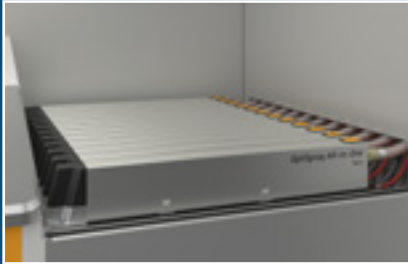
Our high-performance extraction guarantees that the MagicCompact EquiFlow system meets all safety regulations. The filter units are characterised by their extremely long service life, and the cyclone with its high separation efficiency.

6

#### Coating in every direction

A uniform distribution of the powder film is a necessary condition for achieving high-quality results at the lowest powder consumption rate. Gema's reciprocators and axes cover all motion profiles, whether in a horizontal or vertical direction or internal coating or rotary axis.

# OptiCenter: Rapid cleaning and superb coating results



## Efficient powder management

The core of this new powder center is the OptiSpeeder. This unique container concept prevents any loss of powder whatsoever through fluidization. Control of the entire powder circuit is done fully automatically and precisely. The result is extremely low powder consumption and excellent coating results.

## Improved coating quality

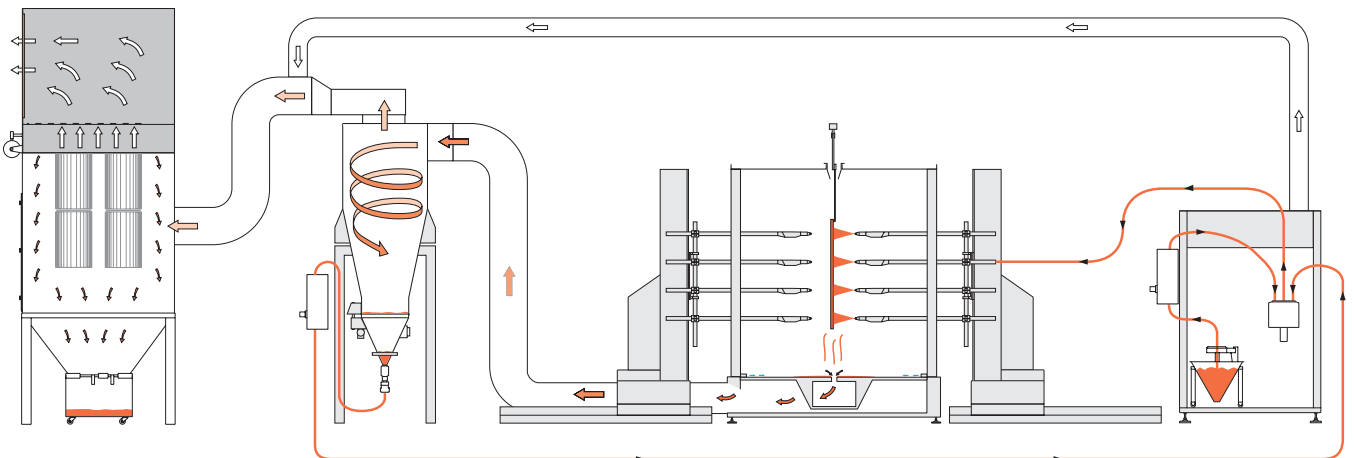
The OptiSpeeder is equipped with an automatic fresh powder supply and a powder-level control system that ensures a constant amount of powder in the container. The suction pipes for the injectors are considerably shorter than in conventional powder centers. These features translate into an even more uniform powder flow and improved coating results.

## Automated color change

The overall design of the OptiCenter allows extremely quick color change and all functions are integrated into the system.



## Closed and efficient powder circuit



# The core of the electrostatic coating process

## OptiGun - Design for quick color change

The OptiGun automatic powder gun is compact and easy to maintain. During color change, the gun is rapidly cleaned and ready to be used again. All the components are easy to clean and designed for low wear.

## Remote control on the OptiSelect manual gun

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.

## OptiStar® - All parameters at a glance

With the OptiStar and MagicControl control modules you have precise control of all coating parameters. Clear symbols, easy programming and perfect reproduction of coating results contribute to significantly increased coating quality.



## The most advanced powder application technology

The powder guns are perfectly matched to the OptiStar control unit and offer the highest degree of coating efficiency and user-friendliness.

- High transfer efficiency with every type of powder thanks to the 100 kV high-performance cascade
- Constant powder delivery and continuous powder charging for a uniform coating thickness
- Digital Valve Control (DVC) for accurate powder delivery control
- The Precise Charge Control (PCC) Mode 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 effect powder, is eliminated
- Ensures easy access to pre-set and customized coating programs
- Reduced maintenance costs through wear-resistant design

## SuperCorona

The optional SuperCorona attachment neutralizes free ions and avoids an orange peel texture on higher film builds.



OptiGun GA04

## 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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#### Gema Switzerland GmbH

Sommeraustrasse 5 | 9200 Gossau | Switzerland  
T +41 71 313 83 00 | [www.gemapowdercoating.com](http://www.gemapowdercoating.com)

