

MRS

Count on
robustness and
flexibility!



Automatic powder coating systems

The MRS System is a robust, versatile and expandable concept.

Multiple options and versions enable the utilization of the system for a variety of single color and multi color applications.



Count on robustness and flexibility!



Efficient and flexible

In single color lines the MRS excels for its top-efficiency and optimal powder usage thanks to the exceptional efficiency of the filters. In the multi-color version the MRS is equipped with a compact multi-cyclone unit which stands out for versatility and simplicity of use.



Compact and gentle powder recovery

The recovery system is integrated in the booth walls. This very compact solution optimizes the powder usage, avoids contamination in the ambient and prevents the deterioration of the powder quality in the recovery circuit.

Robust and user-friendly

The simple and robust design, the long life-time of the filters and other components, makes the MRS the ideal solution, if you are looking for a reliable system with reduced maintenance costs.

Compact and flexible, tailor-made to your needs

Automated floor cleaning

The optional squeegee system cleans the accessible booth floor continuously. Less powder is left on the floor and the cleaning time is reduced significantly.



The MRS system can be designed in a wide variety of configurations. Whether single or multi color, whether in a pure automatic configuration or combined with one or more manual coating stations, the MRS is suitable for all kinds of applications. Its compact design is very easy to adapt into any plant lay-out.

In our state-of-the-art test laboratory we determine, in collaboration with you, the optimal configuration designed to meet your requirements and needs.

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.

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 OptiSelect, you can select the right program, even if the control module is out of your reach.

All parameters at one glance

With the control module OptiStar and MagicControl you have a grip on all coating parameters. Clear symbols, simple programming and a perfect reproducibility of your results contribute to measurably increase your coating quality.



The most advanced powder application technology

The OptiGun and OptiSelect powder guns with the OptiStar control unit are a perfect combination of coating efficiency and user-friendliness.

- Perfect transfer efficiency with every powder thanks to the 100 kV high performance cascade
- Continuous and uniform powder delivery and charging for a uniform layer thickness distribution
- Patented **D**igital **V**alve **C**ontrol (DVC) for accurate powder output control
- Display Pilot ensures easy access to pre-set and customized coating programs
- Reduced maintenance costs thanks 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.





1 Superstructure of your choice

The booth is made of long-life stainless steel. A plastic superstructure is available alternatively to minimize the powder accumulation on the booth walls.

2 For a good atmosphere

The sinter-lamella filter elements have an outstanding 99.99% separation efficiency. Thanks to their very robust construction they have an exceptionally long life-time with the smallest maintenance costs.

3 All the powder you want, where and when you want it

The compact MRS powder circuit aims for ease-of-use, continuous and consistent powder feed and little wear of parts. The injectors, powder pumps and recovery are perfectly aligned with one another and feature a wear-resistant design. A wide variety of fresh powder feed and sieving solutions are designed to meet your quality requirements and needs.



4 The heart of the powder coating

With high transfer efficiency, uniform powder application and optimal penetration into any geometry, the powder guns OptiGun and OptiSelect constitute the heart of the powder coating process. The color-change-friendly construction, which utilizes very few components that are subject to wear, are yet more of the benefits to working with these guns. The excellent ergonomics and the lightweight design of the OptiSelect, guarantees fatigue-free manual coating.

5 Here you control the coating

Do you want to save powder? Do you insist on high user comfort combined with the highest coating quality? The versatile OptiFlex A2 control unit with integrated Opti-Star gun control enables access to all coating parameters at any time.

6 Coating in every direction

A uniform distribution and lay down of powder is the key to achieving high quality and a low powder consumption. ITW Gema's reciprocators and axes cover all movements. No matter what configuration you need, whether a horizontal, vertical or rotary axis, we have a solution for all your requirements.

Multi Color System

In this system the over sprayed powder is recovered by a compact multi-cyclone unit integrated into the booth wall. The recovered powder is pumped out of the multi-cyclone constantly and transported via a vibratory sieve back into the powder hopper where it can be immediately re-used. For a color change the multi-cyclone unit has to be cleaned before processing the new powder.

Single Color System

In this version the over sprayed powder is recovered directly by the filter unit integrated into the booth wall. From there the powder is transported via a sieving machine back to the powder hopper where it can be immediately re-used. The very high separation efficiency of the filter elements ensures an optimal usage of the coating powder. The compact recovery circuit moves the powder over a very short path: this prevents its deterioration.

We take your safety seriously



Think of the safety of your employees! Powder coating systems are subject to strict safety regulations.

All our products and spare parts are developed and tested according to the highest international standards and are subject to constant quality controls ISO 9001-2000 (ATEX, PTB, CE, FM).

With ITW Gema, you are sure you get the safest products, with no compromise.

ITW 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!

ITW Gema is part of the ITW Finishing group. 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.



The powder coating world of ITW Gema



Take advantage of the MRS powder coating system to power up your productivity!



The benefits of the MRS System

- Highest recovery efficiency, optimal usage of the powder
- Versatility of the multi-color version
- Floor cleaning system to prevent powder accumulations
- Low maintenance needs and costs
- Compact and space-saving design
- Easy integration into a broad variety of system concepts

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