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The Powder Coating Specialist for Over 35 Years

Solutions for A Complete Surface Finishing Turnkey System



Authorised Sole Agent For Malaysia **Gema**
Since 1980

OptiFlex® 2 Manual powder coating

OptiFlex® 2 手动喷涂系统



OptiFlex® 2 W
The universal solution
适用于升级版解决方案



OptiFlex® 2 F
For continuous powder use
适用于连续的粉末应用



OptiFlex® 2 F Spray
Perfect Combine for OptiFlex® 2 F
and OptiSpray
与OptiSpray的优势组合



OptiFlex® 2 B
For frequent color changes
适用于频繁换色



OptiFlex® 2 S
For difficult-to-spray powders
适用于不易流化的粉末



OptiFlex® 2 Q
Colour change in 35 seconds
35秒内快速换色



RobotGun GM03-R series
Most Compact and efficient gun for
industrial robot powder coating applications.



OptiFlex® Pro and OptiSelect® Pro



OptiFlex® Pro
Power - Quality - Control



OptiStar® 4.0 Gun Control

The benchmark for the efficient gun control



New Electrostatic App

The OptiStar 4.0 can now be connected to the unique Electrostatic App from Gema via the build-in Bluetooth interface. The app offers various options at any time, from the configuration of the control units to productivity statistics, maintenance counter and cost calculations of the running coating job.

This opens up completely new possibilities of process monitoring.



Mobile phone

Samsung, Huawei, LG, HTC, Sony etc.

iPhone

System software

Android

iOS

Versions

4.4 or higher

10 or higher

The app runs on 4-6 inch mobile phones and is available in English language.

OptiFlex® Automatic

Automatic powder coating systems

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

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



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 DigiBus / CAN- bus

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 tooth belt transmission
- Maintenance-free AC motor
- Space-saving column design

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

OptiGun - Designed for quick color changes

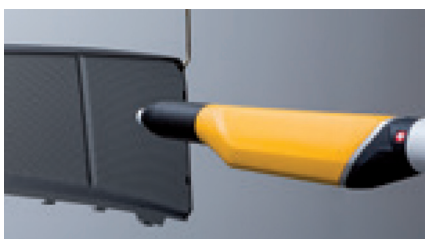
The automatic powder gun OptiGun is compact and easy to maintain. With color changes, the gun is quickly cleaned and ready to be used again. The nozzles are easily removed, can be quickly cleaned and contain minimal wear parts.

Nozzles - Perfection for all types of powder

With standard, effect or metallic powders the best coating results will be achieved providing the highest application quality.

OptiSelect® - On-gun remote control

Keep your 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.



SuperCorona®

The optional SuperCorona collects and neutralizes the free ions reducing orange peel providing improved visual appearance.

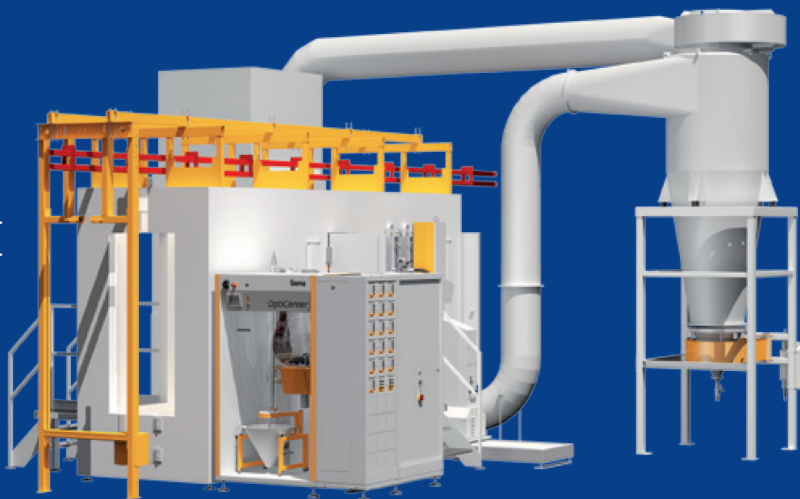


MagicPlus®

Systems for automatic powder coating

Don't waste your precious production space!

With its flexible design, the MagicPlus quick color change system can be easily integrated into new or existing plant configurations



Be flexible but save time and money!

Color changes can be so quick and easy

MagicPlus stands for flexible design. That's why the entire system can be easily and efficiently cleaned. You don't need cleaning machinery and the whole cleaning procedure is done by one person only.

Minimal powder quantity in the circuit

The flat booth floor in combination with the engineered suction hood minimize the powder accumulation.

Perfect coating conditions

The suction hood with two horizontal extraction slots creates the perfect coating conditions: strong air suction in the area of the automatic guns. Uniform coating thickness and highest application quality are the result.



Robots and rotating axes

Rotating axes (R-axis)

Rotating axes are ideally suited for the coating of inner edges and recessed parts (for example on control cabinets and rotating parts). They accurately trace the rounded geometries and guarantee optimum coating result even on difficult to reach areas.

Robots

When the highest flexibility and free programming are required, robots offer the perfect solution. The programming is done via teh in. The geometry and motion sequences are tracked with the spray gun, whereas the robot stores the data for the coating process.



Special axes solutions for complex applicants

Special application cases need special solutions. Thanks to our vast experience and wide range of products, we will find, in close collaboration with you, the ideal axis geometry for your specific needs.

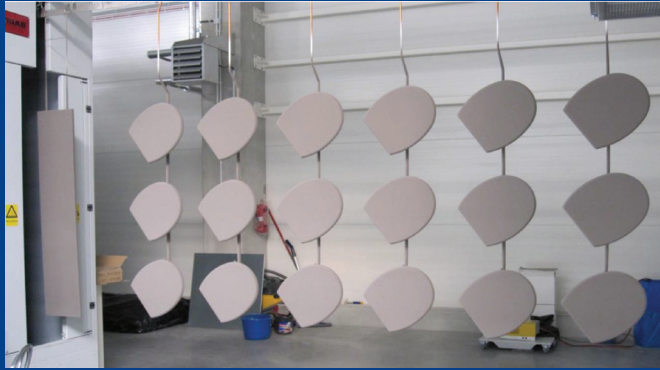


Powder application on MDF products

MDF中密度纤维板喷涂应用

粉末涂装技术的突破

金马能为MDF中密度纤维板喷涂应用提供一系列适用产品及广泛的技术支持，确保客 获得最安全最有效率的解决方案。



影响表面喷涂效果的因素

板材要求

- 均匀湿度3-5%
- 水分含量在生产周期里的 化会影响涂层厚度
- 在空调环境中处理中密度纤维板是最佳解决方案

导电性

- 表面电阻欧姆
- 受中密度纤维板原材料的湿度和导电性的影响

机械性能

- 较高的内部粘结强度和密度
- 轻微的厚度膨胀
- 良好的热稳定性
- 良好的深加工性能

高品质打磨

- 粒粒径
- 无凸出纤

表面清洁无灰尘无油脂

- 使用干净的压缩空气除尘
- 使用火 处理去除木质纤维

喷涂工艺单层应用

- 经济实惠的喷涂工艺
- 可同时对不同尺寸的形 的 品进行喷涂加工

喷涂工艺双层应用

系统

- 适用于底涂为油漆（可导电），干燥，打磨，单层粉末喷涂应用，固化
- 优质保证
- 一般是有湿漆喷涂经验的公司 采用

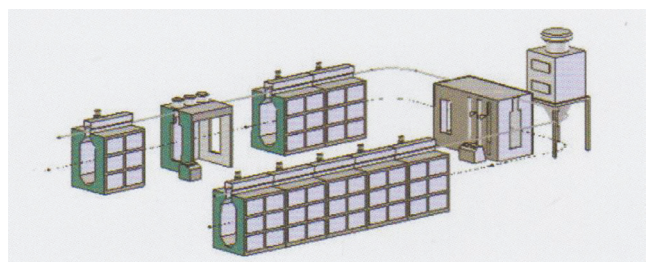
系统

- 适用于底涂是粉末材质，固化，打磨，单层粉末面涂应用，固化
- 优质保证返工减少

可编程的反电极

金马解决方案可避免过充 清除边角和圆弧面的粉末堆积

- 反电极能产生可 节的 电磁场和带电的空气离子，清除边角和圆弧面的粉末堆积。 功能可以跟据应用环境和产品规格进行精确调节。
- 反电极 配在与喷枪直接相对的位置
- 需在一个枪槽里垂直布枪（粉房两 ）
- 枪槽的最小间距为毫米

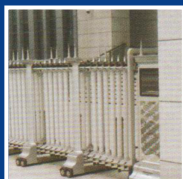
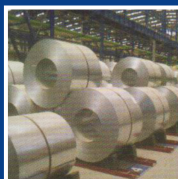
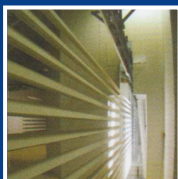
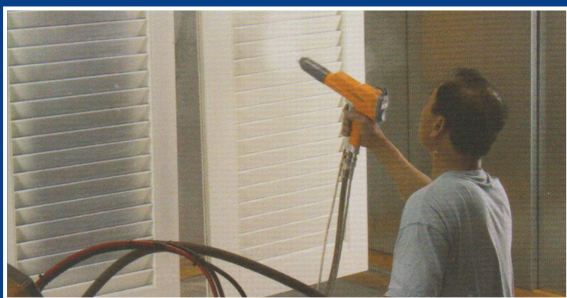


Experiences in Various Industries

行业应用

各行各业定制解决方案

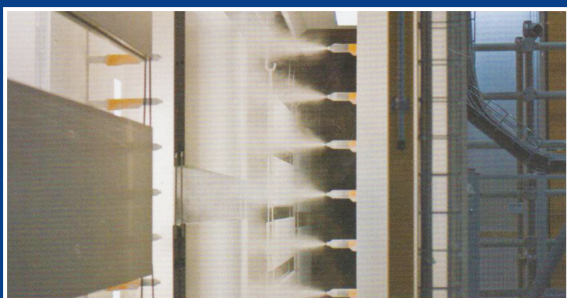
鋁型 材 Alminium Profiles



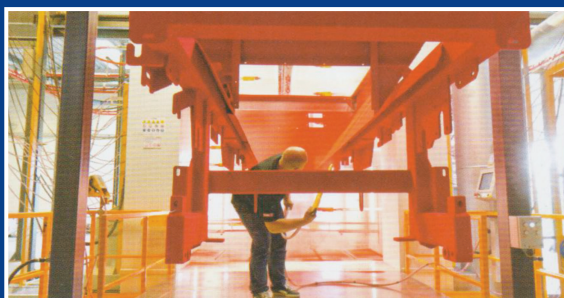
汽车零 部件 Automotive Parts



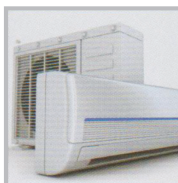
金属家具 Metal Furniture



农机 Farming Machinery



家电 Household Appliance



其他 Others



Gema Switzerland 瑞士金马

Your global partner for high quality powder coating

Take advantage of our expertise and experience from more than 50 years of electrostatic powder coat applications. From simple hand coating through 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.



您的全球合作伙伴，高品质静电粉末喷涂设备供应商！

瑞士金马公司位于瑞士圣加仑，是世界上唯一专注于静电粉末喷涂设备的研究和制造的专业化公司。凭借40多年的行业经验，瑞士金马设计和制造最现代化静电粉末喷涂设备，众多革新产品已成为行业发展的里程碑。我们的目标是帮助客户生产最可靠，最具有竞争力的产品。金马喷涂专家不断发明和创造各种新的技术、工艺以及材料，其中大部分已成为行业标准。

从手动喷涂单套系统到全自动粉末喷涂系统，金马提供最优的解决方案。从而满足不同国家不同行业客户的各种需求。

瑞士金马公司已经通过ISO 9001 质量体系认证，确保给客户提供高品质产品。

The powder coating world of Gema Switzerland



Gema