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Gema Switzerland

Your global partner for high quality powder coating

Take advantage of our expertise and experience from more than 40 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.



MagicControl® CM30

Powerful and user-friendly



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MagicControl

- Fully programmable, PC-based master control for all the system components including: booth, guns, reciprocators and powder supply system
- Large display up to 15" with representative symbols
- TFT-color screen with touch-screen function
- Control of height, length and width recognition system
- Modern Can-Bus technology
- Interlocking and data exchange with higher level plant control units
- Storage of operating software and application programs on CompactFlash cards
- Integrated into control cabinet or remote column



What is CAN-Bus?

A bus system allows the data exchange between the hardware components and the control module CM30/CM22 controlling the powder coating system.

The bi-directional data exchange between the hardware components ensures a comfortable and process-safe data exchange.



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MagicControl CM30

With this control unit the functions of your complete powder coating equipment, axis or even the whole booth system can easily be managed. The user-friendly touch screen allows an easy and intuitive setting of all coating parameters.

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The core of powder application

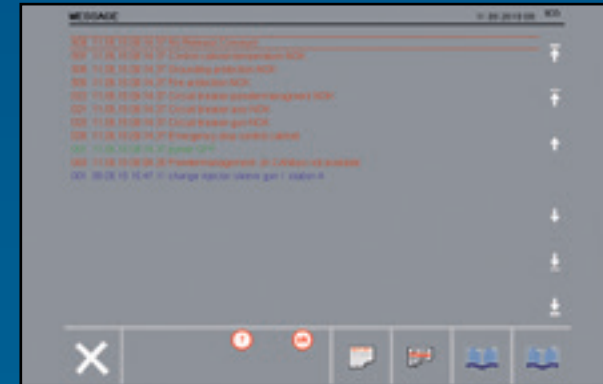
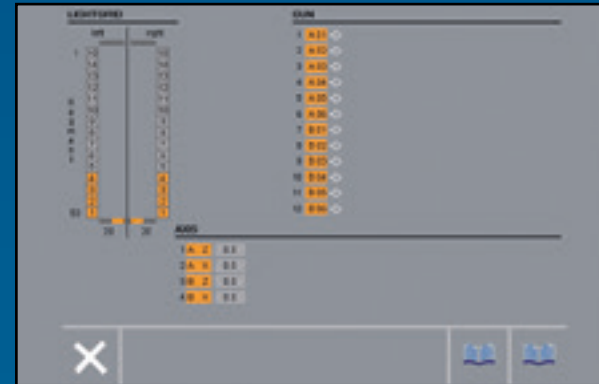
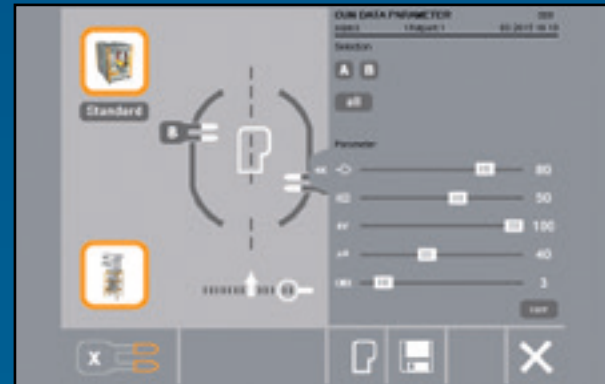
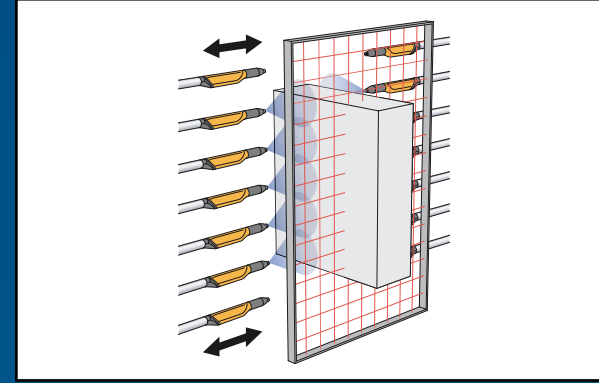
With MagicControl CM30 all system components, warnings and error messages as well as storage of application programs can easily be controlled. The comfortable touch screen interface, available in different dimensions, with its self-explanatory icons is clear to use for every operator.

Comfortable programming
 All parameters can be viewed and edited for the entire coating system. The self-explaining icons and operation messages allow an easy and user-friendly usage for every operator.

Application Areas
 MagicControl offers extensive functions for applications that require a high coating quality. The parameter settings can be individually adapted to a broad variety of powder types. The results are a constant coating quality and minimal powder consumption.



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1

Gun Control

Keep the pneumatic and electrostatic gun parameters under control! A constant powder output and even film thickness distribution are ensured by optimal gun settings. With just a few steps every single gun is optimally set and individually controlled with MagicControl where all parameters can be saved. The stored values can be adapted simultaneously for all guns or in groups. The user-friendly parameter settings on the MagicControl touch screen takes place by means of a slider or with digital input values.

2

Axis Control

Precise axis movements with an easy programming! The MagicControl control unit adapts the stroke speed to the conveyor speed and ensures best coating results with perfect sinus movements. The strokes are regulated in 1mm steps. The powder application can be very precisely adjusted to any object dimension. Different segments with various strokes and speeds can be easily combined in one program. Even complex sequences with synchronized and rotating axis can be easily programmed with MagicControl.

3

System Control

One control unit for all components! The MagicControl control unit allows optimal adaption and monitoring of the complete coating system with just one unit. Different programs for coating, color change, automatic and manual coating, cleaning and maintenance enable an optimized application process. Therefore, an accurate and perfect automation of the coating system is achieved. The system control guarantees the data exchange with the higher level plant or factory system and offers an individual integration in the complete production process.

4

Part Detection

Trigger guns automatically according to object geometries! Conventional systems operate constantly, whereas the guns are kept activated permanently. With the Gema Gap-/Height-Detection the guns are automatically switched on/off. MagicControl in combination with part detection enables programming of the optimal gun configuration for different part sizes with just a few steps. As a result the coating quality is improved and powder is saved.

5

Individual Data Storage

Create a data library for individual coating demands! Coating programs are valued. Therefore, we provide the possibility to save them on a Compact Flash-Card or in a higher level factory systems, to be used as required. Individual programs can be recalled at any time, reproducing exactly the requested coating result.

6

Remote Access

Easy access directly from a PC! The system control is easily accessible from a PC. MagicControl provides a comfortable Remote Access to adjust and monitor system parameters at any time and any place. If requested, Gema offers direct Online support from the headquarters to optimize your MagicControl control unit.

7

Diagnostic Function

Retain overview of the function status of the system, service notes and error messages! The extensive MagicControl diagnostic functions enable monitoring all areas of the coating system. The standard diagnostic functions comprise of hours of operation of all components with target/actual value overviews, number of coated objects and light grid functions. Additionally MagicControl offers the possibility to record and re-call the failure history. This delivers useful information to optimally adjust service intervals of the coating system.

8

Modular Concept

Set up the coating system according to meet specific demands! With MagicControl the individual system components can be synchronized flexibly and separately and then adapted to the specific coating requirements. Based on the standard configuration with touch screen, control cabinet, guns, axis control and complete software the system can be extended easily at any time, e.g. to achieve capacity improvements with a system extension and additional guns.