

DigiTech: Save Powder with System!



The complete modular controller –
the system which grows with the future

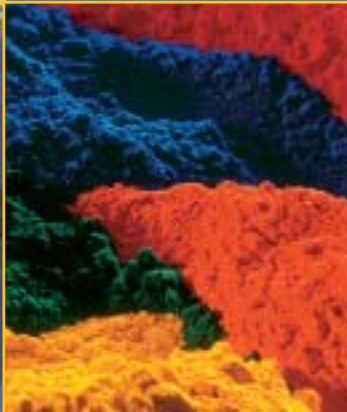
The new DigiTech!

The newly developed DigiTech control system pursues new methods of surface technology. For the first time in the history of electrostatic powder coating, a wide range of users are given access to a high degree of automation and at the same time the operator guidance for the user has been designed to be consequentially simple and functional. This is made possible by the modular system which cannot only be individually matched to the respective task but also flexibly grows with the requirements.

Modular flexibility

The possible configurations range from simple manual coating mode to the configuration of a simple automatic system with rigid spray guns, integration of lifting devices, height, gaps, and depth controls through to a fully automated coating cabin with up to 60 spray guns and eight lifting devices.

- The system which grows with the tasks
- Easy to use
- Increases the coating quality
- Saves costs due to more effective powder dosing and Genius technology



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EASY TO USE

ROBUST PROCESSES

GROWS WITH YOU

DigiTech: Grows with your Requirements!



Save time and costs

Innovative technology for even more effective use of powder. The improved control technology makes up to 30% powder savings possible. The so-called Genius function keeps the powder discharge constant and compensates for wear in the injectors and different hose lengths. An intelligent, self-explanatory menu structure makes the control elements not only easy to use but also safely and fast.

What can DigiTech do?

- Memory facility for over 1000 recipes
- Uniform powder discharge due to AFC air flow rate control for delivery air, dosing air and atomising air
- Integrated diagnostics tool for checking the condition of the system
- Control system can be easily extended, e.g. if additional powder guns are required

Overview of the DigiTech modules

- CCM-D1 Central control module
- EPG-D1 Spray gun controls
- SSR-D1 Short stroke equipment controls
- MRS-D1 Controls for a lifting device sliding carriage
- CGH-D1 Gap and height controls
- LSR-D1 Long stroke equipment controls
- LCM-D1 Powder level controls
- TCS-D1 Tribo current sensor for Genius function

The new DigiTech automatic control system is designed as a modular switching cabinet. The CCM-D1 central control unit can monitor and manage up to 60 spray gun control modules.

Technical Data:

General

Housing BxHxD mm:	630x1700x660
Mains (AC):	85 to 250 VAC
EMI Filter:	EN 55022, Class B
Operating temp.:	0 ... +45 °C
Storage temperature:	-10 ... +60 °C

Central control module CCM-D1

Size: BxHxD mm:	540x140x300
Weight:	approx. 10 kg
Input power:	max. 80 W
Degree of protection:	IP 54

Control device EPG-D1

Size BxHxD mm:	270x140x300
Weight:	approx. 6.5 kg
Frequency:	47 Hz to 440 Hz
Input power:	max. 40 W
Degree of protection:	IP 64
High voltage:	20 to 100 kV
Resolution	1 kV
Current limiting:	20 to 160 µA
Resolution	1 µA
Cascade characteristic curve:	can be set in three stages
Tribo-current measurement:	0 to 8 µA, resolution of actual value 10 nA
Input air pressure:	6 to 8 bar, min 6 bar
Output air:	
Delivery air:	0.05 to 6 m ³ /h
Dosing air:	0.05 to 6 m ³ /h
Additional air:	0.05 to 6 m ³ /h

Modular configuration through to complete process automation possible



The most important functions:

- Digital field bus
- Electrical control of all applications parameters
- Memory for 1024 recipes (unlimited with flashcard)
- User guidance in five languages
- Control of max. 60 powder spray guns
- Display function: LCD display
- Sequential control system
- Production data output
- Calibration function
- Emergency operation function
- Diverse locking functions
- PCMCIA module slot for software updates and backup function for recipes with flashcard

Spray gun controls EPG-D1:

- Central operation and LCD display
- Memory for 32 system configurations
- 3 AFC air flow rate controllers
- Set value/Actual display for high voltage
- Current limiter
- Three stage cascade characteristic line setting
- Tribo-current display with monitoring function
- Rinsing function
- Anti-surge function



J. Wagner GmbH
Otto-Lilienthal-Str. 18
88677 Markdorf
Telefon: 0 75 44 / 505-0
Telefax: 0 75 44 / 505-200

J. Wagner AG
Industriestraße 22
CH-9450 Altstätten/SG
Telefon: 0 71 / 7 57 22 11
Telefax: 0 71 / 7 57 22 22

www.wagner-systems.com