

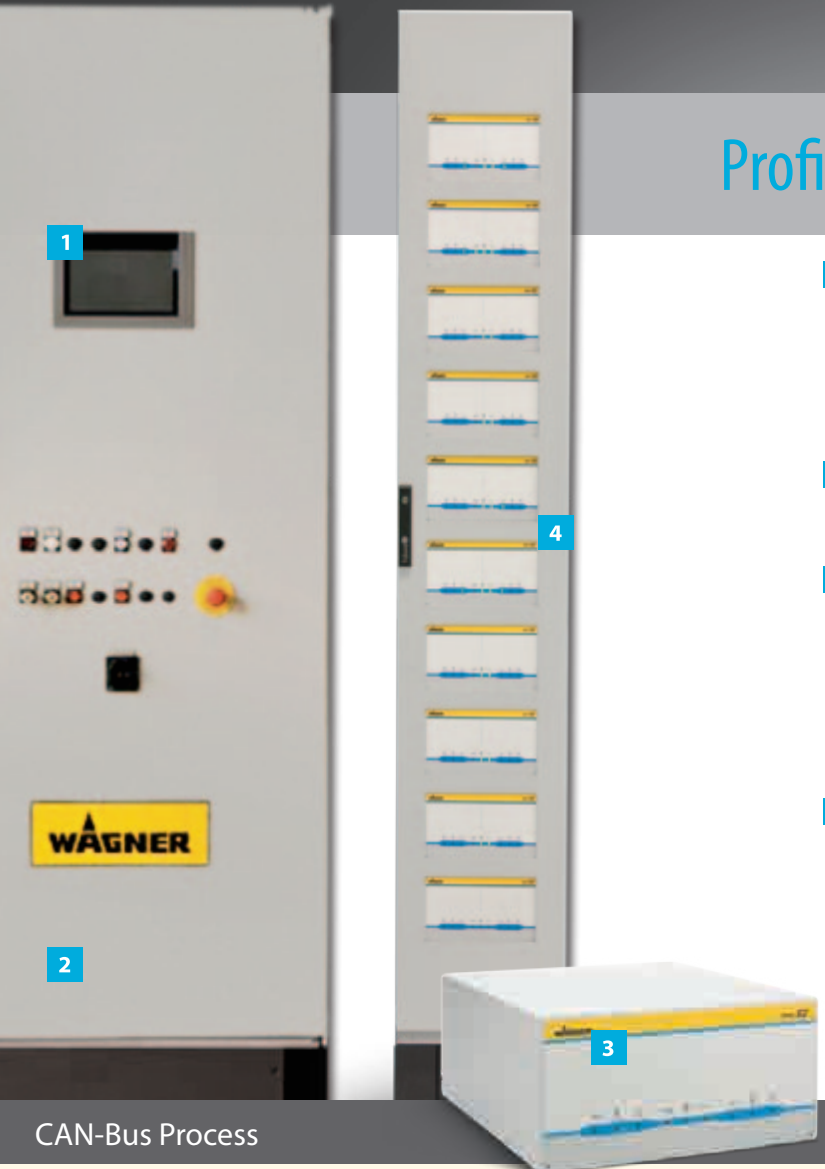
## ProfiTech S

HIGH-END CONTROL IN THE MODULAR DESIGN

- Simple and central operation
- Comprehensive functionality
- Optimal system layout

## ProfiTech S – Powder coating made simple

With ProfiTech S, you have the complete powder coating system under control. Even complex, customer-specific control relationships can be easily configured and displayed on the touch panel in a user-friendly manner. Comprehensive functions ensure excellent coating results and process reliability. Coating data collection and the option of data backup round out the system.



## ProfiTech S - perfectly tailored:

- 1 Efficient and flexible**  
The clearly arranged touch panel is used for centralized, convenient operation of the system (guns, motion equipment and booth). Thanks to the modular principle, the touch panel can also be mounted to the manual coater directly and thus ensures short distances when coating.
- 2 Robust and reliable**  
The high-tech industrial control cabinet provides a professional and robust design for reliable operation.
- 3 2 in 1 - Compact and precise**  
The new EPG S2 gun control module allows for optimal design of the system thanks to its space-saving arrangement in the dual module. The EPG S2 provides outstanding precision and reproducibility during the coating process thanks to the use of AFC technology. The module is controlled centrally from the touch panel.
- 4 Quick and easy**  
The module rack allows for simple plug and play configuration and installation. The module rack is flexible, can be set up independent of the control cabinet and supports also an optimal system layout. One rack provides space for 10 EPG S2 modules controlling up to 20 guns.

### CAN-Bus Process

CAN (Controller Area Network) is a serial communication technology used for reliable data exchange between hardware components in particular.

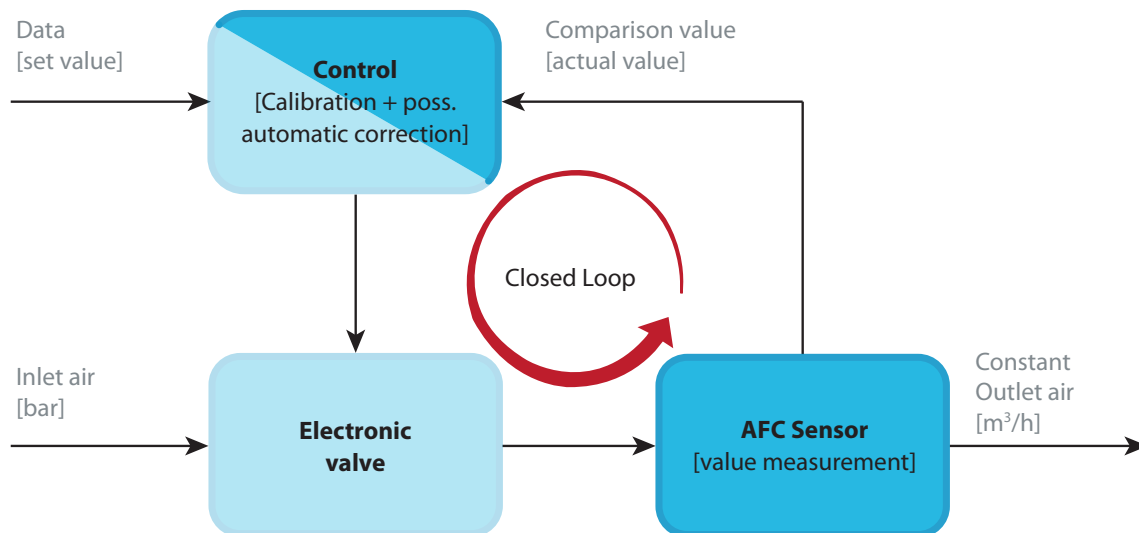
This CAN-Bus interface can be used with the WAGNER control systems for even greater process reliability.

# Constant quality on recipe

WAGNER Air Flow Control (AFC) means precise powder control and thus optimal coating results. In addition, WAGNER units have a closed-loop control, which continuously measures and corrects the air pressure if necessary. This ensures consistent values.

## YOUR BENEFITS

- Constant air volume
- No difference between set and actual values
- Complete reproducibility of settings and results
- Remote control by application control
- Individual coating formulations with all application parameters



## Multilevel User

The system allows the user to create three different user categories. The users can be assigned individual rights and persons, who can then log into the system with their password.

Only trained personnel can then create and modify recipes, for example, while the usual coater can use them exclusively. Consistent quality is thereby ensured.



# Comprehensive functions at the touch of a button!

The ProfiTech S touch panel makes user-friendly, central control of important components such as guns, booth and motion equipment possible. The interface design is based on years of experience in coating routines and combines functionality and clarity.

- All key features at a glance
- Logical arrangement of the functions
- Clear navigation
- Fast switching between different functions
- 9" and 12" sizes in 16:9 format available



Touch panel 12"



## Day Correction

Under certain circumstances, influences such as humidity or ambient temperature can cause deviations in the planned coatings results. To compensate for such influences, WAGNER has a day correction that can be used to quickly adjust the amount of powder without having to change the recipe. The new settings can easily be copied into a new recipe.

## ProfiTech S - control functions

# Technical data

Control system: Standard functions	ProfiTech S
<b>System operation</b> Control panel Default language switchable Password protection	9" or 12" color touch screen in 16:9 format GER, ENG, F, IT, ESP, RUS, CN Multilevel user
<b>Gun control</b> No. of guns HV [kV] high-voltage and AFC air flow controller [m3/h] Current and voltage display, characteristic curve adjustment Tribo current display	Up to 32 EPG 2 Set and actual values ✓
<b>Motion control</b> Long stroke, short stroke, in/out positioner Reciprocator stop in gaps	✓ With protective fencing installed
<b>Identification and control systems</b> Gap, height and depth control synchronized with conveyor	✓
<b>Recipe memory / data backup</b> Total number of storable recipes Recipe creation and call-up	1000 for guns and motion Centrally located on the touch screen, copy function
<b>Recipe selection</b> Manual recipe call-up Call-up synchronized to the conveyor	✓ Digital interface and bus interface acc. WAGNER standard
<b>Other functions</b> Booth control Conveyor stop via light barrier with booth door closed Maintenance intervals per gun, injector Remote maintenance Production data collection  Communication with control station	On/off ✓ ✓ ✓(according to WAGNER Remote Service concept) ✓  Time period of 2 weeks; Production time, reciprocator downtime, color change Bus interface with WAGNER bus protocol
Control system: Customer-specific functions	ProfiTech S
<b>System operation</b> Control panel Default language switchable	External touch panel Other customer-specific
<b>Gun control</b> No. of guns	More than 32 customer-specific
<b>Motion control</b> Automatic sine curve adjustment Reciprocator synchronism X, Y, Z, rotary axes, robot	Customer-specific Customer-specific Customer-specific
<b>Identification and control systems</b> LaserScan contour control for axis technology	Customer-specific
<b>Program selection</b> Program call synchronized with the conveyor	Can be customized
<b>Other functions</b> Intelligent energy-booth control Coating parameter documentation	Customer-specific Customer-specific

# Perfect interaction for optimal results!

WAGNER offers a modular system with flexible and perfectly coordinated components for perfect coating results. The user can then design complete systems for every requirement.



## Sine Curve Effect

To achieve uniform coating thickness distribution during automatic coating, the lifting motion of the guns must be adjusted to the conveyor speed. When required, the controller automatically calculates the optimal stroke speed based on the number of guns, conveyor speed and stroke height.

## Remote Service

The controller can be connected to the WAGNER Service Department via network connection or radio network directly. The connection allows immediate diagnosis in the event of system failure. In most cases, the error can be identified and corrected. At the very least, the error can be localized and a service call quickly scheduled. In this way, production uptime is maintained at the highest level possible.

## Conveyor Synchronization

Each parameter change is synchronized with the conveyor movement, thus reducing support gaps when switching from one recipe to the next. In the same way, all control functions such as gap control are synchronized directly with the conveyor and not by manual input of a speed parameter. In that way, changes to the conveyor speed are taken into account automatically.

[www.wagner-group.com](http://www.wagner-group.com)



J. Wagner GmbH  
Industrial Solutions  
D-88677 Markdorf  
Tel. +49 (0) 75 44/5 05-0  
Fax +49 (0) 75 44/505-200

J. Wagner AG  
Industrial Solutions  
CH-9450 Altstätten/SG,  
Tel. +41 (0) 71/7 57 22 11  
Fax +41 (0) 71/7 57 23 23