

It's **all**  
in the **mix.**



**FlexControl Smart  
2-K mixing and dosing  
system**

Exact dosing for perfect results.  
Simplest, intuitive operation.  
Efficient, money-saving material usage.

## 2-K materials easily mixed and dispensed

The innovative **WAGNER FlexControl Smart** Mixing and Dosing System

- Rapid implementation in wet paint coating
- Time-saving, simple and intuitive operation
- With unique and special functions





WAGNER offers devices, equipment and systems for all areas of industrial surface coating. Our innovative products and solutions stand out in terms of their quality, efficiency and productivity.

The WAGNER FlexControl Smart is a new, electronically controlled 2-K mixing and dosing system. Electronic mixing permanently guarantees the highest mixing accuracy and quick changes to the recipe. Another advantage of electronic mixing is that only the amount which is needed is mixed and therefore, waste is considerably reduced. The simple operability saves time and prevents operating errors.

- The consumption data recording and transmission guarantee efficient material management.
- The integrated flushing function cleans the system fully automatically and ensures further time-savings.

## It mixes perfectly – clearly and securely

The **WAGNER FlexControl Smart** electronic mixing system, your control center for quick, efficient working and exact dispensing.



### Simple, intuitive operation

Four buttons for the painter – Start, Stop, Flush, Change a Recipe – it doesn't get any easier than that. Clear operator functions ensure quick and effective working.



### Understandable Practical!

With the touch display, recipes can be simply and conveniently called up, so that work can be started at once. The setup also takes place using the touch display.



### Optimal pressure

Even with low pressure applications, no pressure loss due to special low pressure valves with large cross-sections.



### Consumption monitoring

You can save recipe input, length of use and consumption materials in an organized way. The data are recorded by the system and can be transferred, with a USB stick, in order to evaluate and archive the data on a PC with management software.



### Maximum efficiency and performance

With the 2-K mixing and dosing system, the surface quality can be considerably improved. The extension options allows the use of up to five paints and two hardeners.

### Touch display

Simply structured menu for setting recipes and system configurations.

### USB connection

Simple data upload and download or data updates via the integrated USB interface.

### Use of two guns

The valve controller for the parallel use of two independent guns without limitations.

### Robust design

The mixing equipment is available with an easily movable base and including a protective cover.

### Clearly organized

Large user-friendly buttons can be pressed easily without having to remove protective gloves.

### Paint center

The high-performance valves enable use with up to five paints and two hardeners.

## Another special!

The WAGNER FlexControl Smart can be used for 3-K coating without problems!



## Would you like a little more?

For your specific performance requirements, the **WAGNER FlexControl Smart** can be individually configured or even extended.



### High voltage release

For higher security, a relay dependably controls the communication with the E-Static with an automatic release of the high voltage.



### Independent cleaning

The gun distributor valve is especially interesting for use with two guns. A gun can be cleaned, while the other remains filled. That is maximum flexibility.

## Unique and simple! Also as a 3 component system.

There is also a WAGNER FlexControl Smart 3 component mixing system – for utmost challenges.



### Absolutely service-friendly

Due to the open and generous layout of all components, the filters can be changed with very little assembly work.



### Robot communication

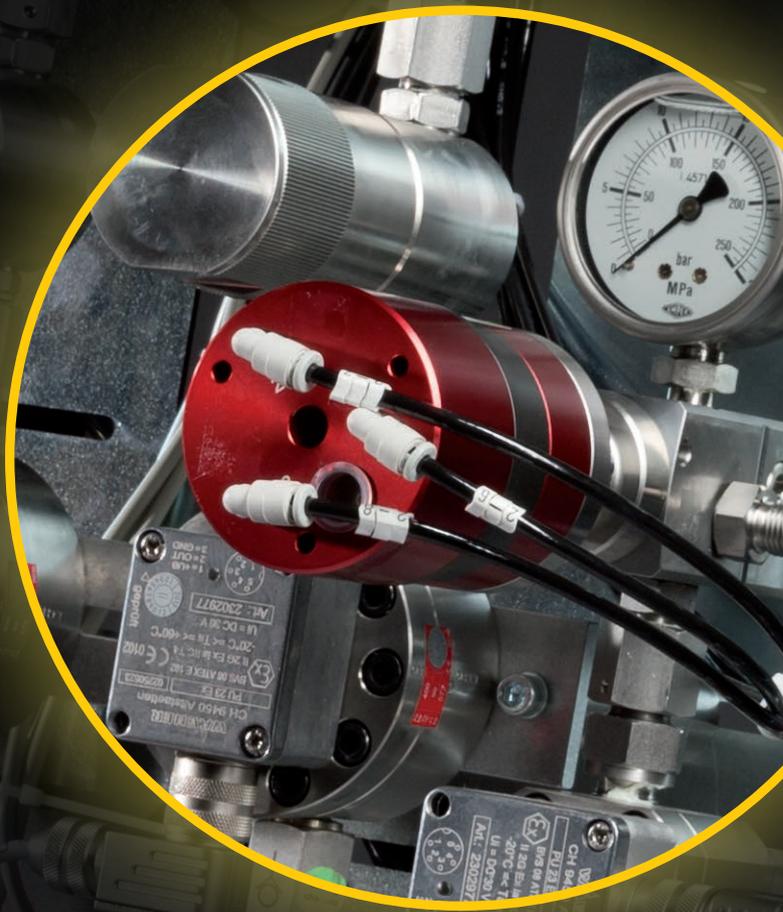
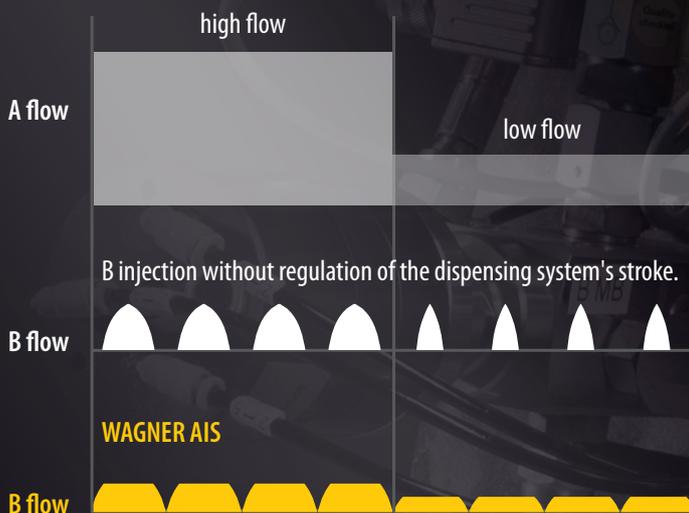
To ensure the secure running of automatic coating processes, the FlexControl Smart delivers important data to the robot, such as operational readiness or alarm signals for example.

# Innovation, for superior quality

**NEW!** The AIS dispensing system from WAGNER, patent pending.

The AIS (Adaptive Injection System) fully automatically controls the dispensing valves stroke. The injection of the B components takes place in the new WAGNER AIS in soft rhythms, almost without interruptions. This leads, even before mixing, to a practically homogeneous addition of the B components. Until now, the injection via impulse was noticeably timed (see diagram). In the case of a change in the amount of paint flowing through, e.g. via a different number of guns or a recipe change, the dispensing system fully automatically ensures an optimal mixing ratio. By using the AIS extension, you ensure a constant coating quality.

## The AIS functional principle



## Two measuring systems – you have the

### NEW! Stroke sensor for flow measurement without material contact.

The **WAGNER FlexControl Smart** can determine the material flow through two different measuring systems. In addition to the tried and tested gear flow meter, we now present the **WAGNER stroke sensor**, which permits indirect flow measurement. This guarantees consistent mixing ratios within the narrowest tolerances, in particular when using difficult materials.

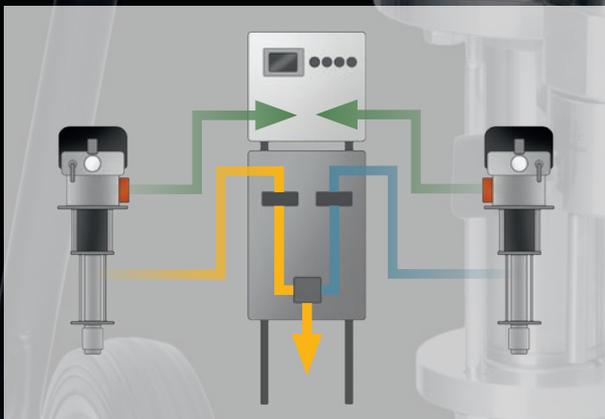


#### WAGNER stroke sensor

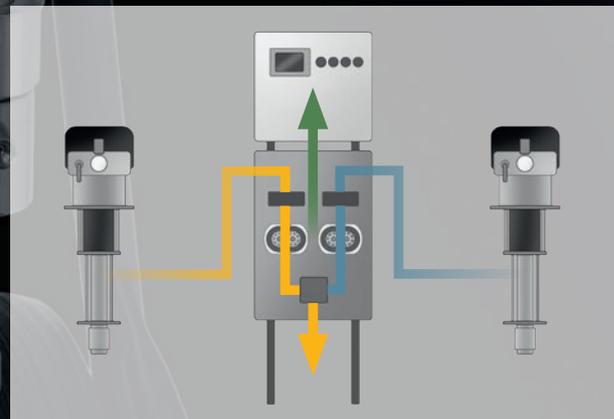
- Indirect flow measurement without material contact.
- No wear when using abrasive materials.
- No risk of incorrect measurements with low-viscosity materials.
- High dosing accuracy with frequent opening and closing of the gun(s).

#### Gear flow meter

- Direct measurement in material flow – suitable for non-abrasive materials.
- Fast reaction time.
- Can be used for ring paint supply systems.
- A measuring system for up to 5 paints.



The measurement of the material flow takes place via the stroke sensor, which is located on the air motor of the IceBreaker pump and which has no contact with the liquid.\*



The material flow runs through the measuring cell.\*

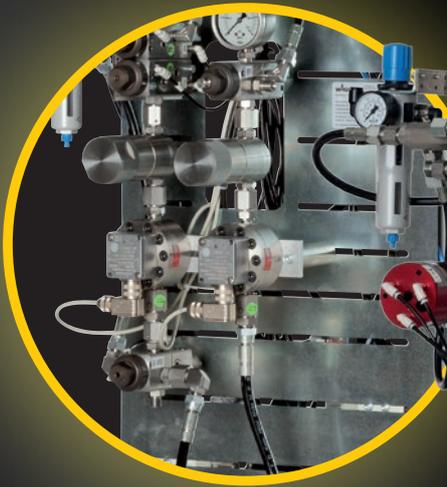
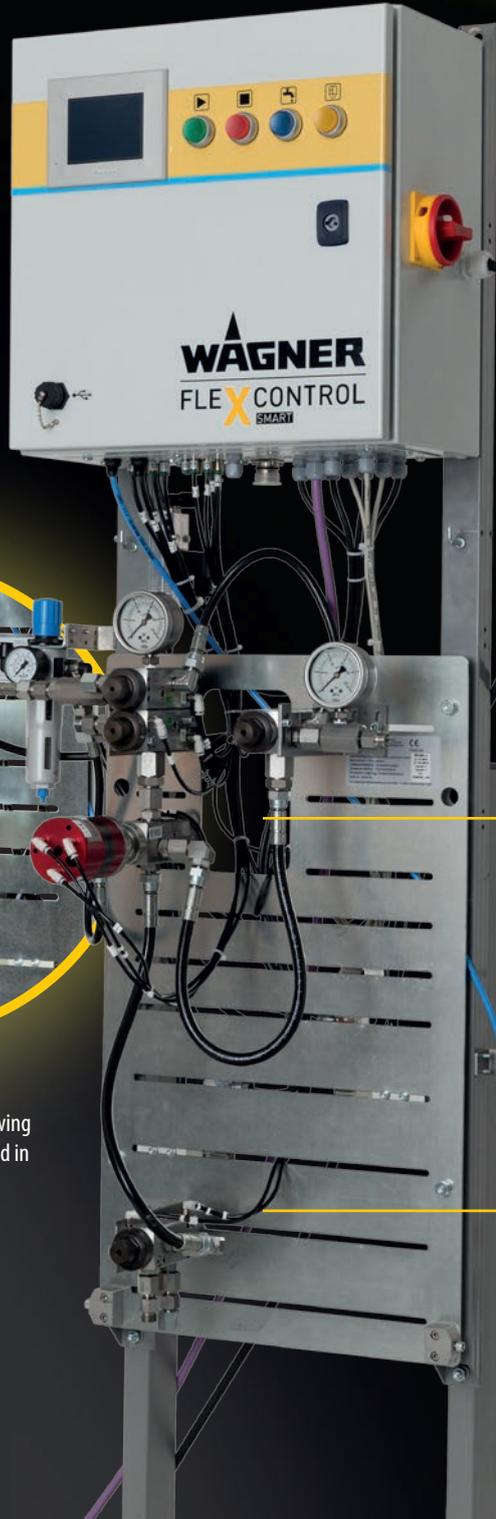
 Material flow  
 Measurement information

\* Schematic representation

choice!

## WAGNER stroke sensor

As the only multi-color 2-K system on the market, the WAGNER FlexControl Smart can indirectly measure the material flow.



**Gear flow meter**  
The volume of material flowing through is directly measured in the material flow.

### WAGNER stroke sensor

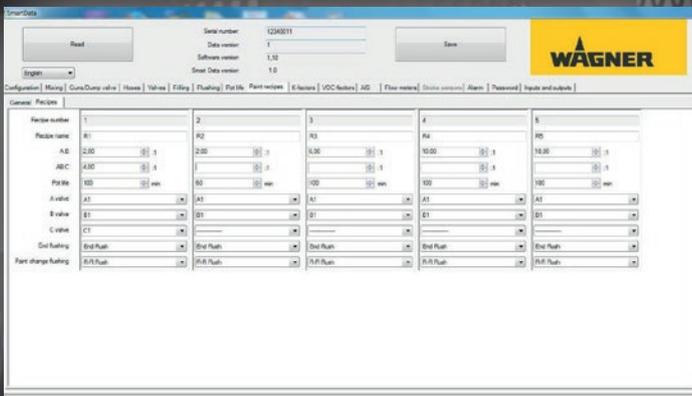
No measuring elements which have an adverse effect on the material flow or come into contact with the material. Therefore no wear occurs, and there is no need to flush.

### Material flow

When using the stroke sensor, the material flows directly from the paint center to the gun connection.

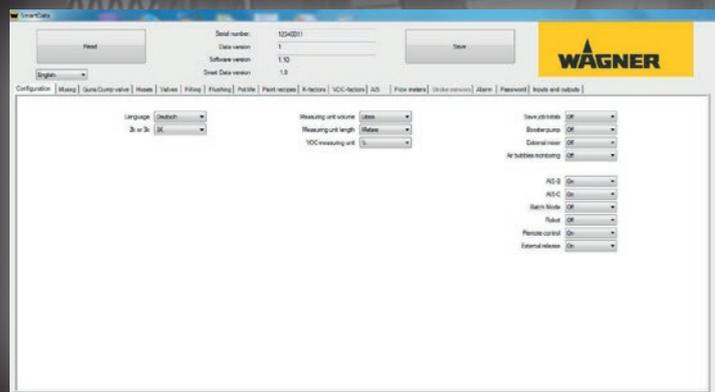
## Smart configuration

With the **SmartData** software, all system parameters and recipes run not only via the touch display of the **WAGNER FlexControl Smart**, but can also be set via an external PC and transferred to the system via a USB connection.



### The advantages of SmartData:

- Convenient setting & analysis of parameters and recipes via an external PC
- Clear presentation of all parameters to be entered
- No interruption of production necessary as changes to the system settings can also be undertaken offline



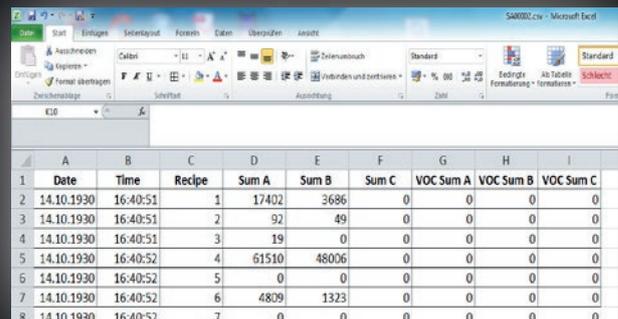
# All data at a glance!

Whether consumption volumes of the A, B and C components and flushing agent, VOC totals, job totals or alarms – **all consumption data is automatically saved.**

In addition to the consumption data and alarm messages, the FlexControl Smart also saves the effective working time of the system.

Using the USB connection, the data can be transferred onto a PC and assessed and archived there using a management software.

- Efficient processing of consumption data
- Easy administration of the VOC volumes
- Storage of the job totals for easy allocation to products or orders
- Overview over error messages within a certain time period



	A	B	C	D	E	F	G	H	I
1	Date	Time	Recipe	Sum A	Sum B	Sum C	VOC Sum A	VOC Sum B	VOC Sum C
2	14.10.1930	16:40:51	1	17402	3686	0	0	0	0
3	14.10.1930	16:40:51	2	92	49	0	0	0	0
4	14.10.1930	16:40:51	3	19	0	0	0	0	0
5	14.10.1930	16:40:52	4	61510	48006	0	0	0	0
6	14.10.1930	16:40:52	5	0	0	0	0	0	0
7	14.10.1930	16:40:52	6	4809	1323	0	0	0	0
8	14.10.1930	16:40:52	7	0	0	0	0	0	0

## VOC totals

The VOC totals can either be issued in  $\text{cm}^3$  or g/L.

# Our system performs!

The WAGNER FlexControl Smart is highly flexible and can be configured for each application.

- Simple operability and control for maximum security.
- Optimal and consistent paint mixing value.
- Reproducibility of mixtures.
- Independent use of two guns.
- Cleaning and servicing friendly.
- Control of material consumption.
- Saving of disposal costs.
- Interesting further extension modules for specific areas of use and functions.

FlexControl Smart 2-K mixing and dosing system	
Mixing accuracy gear flow meter	± 1%
Mixing accuracy stroke sensor	± 2%
Mixing ratio	0.1:1 - 50:1
Material pressure	1-250 bar
Components A	Max. 5
Components B	Max. 2
Components C	Max. 1
Flushing agent A	Max. 2
Flushing agent B	Max. 2

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