



Mixing and dosing

ELECTRONIC MIXING AND DOSING SYSTEMS



- Very simple handling
- High process reliability
- Universal application

Mixing and dosing systems: intelligent and innovative!

The demands for mixing accuracy, process reliability, surface quality, fast effective color changes, a reduction in material consumption, etc., in relation to multi-component coatings have increased enormously in the last few years.

- **Intellimix 4**
- **FlexControl *plus* XL**
- **FlexControl *plus***
- **FlexControl**

With these mixing and dosing units, WAGNER offers a powerful family of products that ideally suits the widest range of industrial applications.

The constantly increasing quality demands in industry, pressure on prices and from the competition and stricter environmental regulations also have an impact on equipment technology.

- **New materials**

Materials such as high solids paints and water-based paints are being used to an increasing extent.

- **Maximum process reliability**

WAGNER mixing and dosing equipment guarantees a high level of mixing accuracy and thus a perfect surface finish.

- **Economical and environmentally friendly**

The reduction in the consumption of material and flushing fluid, plus fast effective recipe changes and cleaning, reduce the costs and achieve a rapid amortization of the investment.

- **Maximum convenience**

Depending on the type of plant, WAGNER offers a wide variety of technical features – from touch screen operation right up to connecting with the primary operating data recording systems.



Customized performance

The type of application and the number of paints, hardeners and solvents being used are important parameters in the design of a mixing and dosing system.

To keep investment costs as low as possible, WAGNER mixing and dosing systems are modular in build so that additional options can be retrofitted later on as part of the plant specification.

The table below provides you with an initial guide on which system is right for you. WAGNER has the system best suited to your application.

Take advantage of the expertise offered by our specialists and ask for a consultation.

As a specialist company, operating worldwide, WAGNER offers a full range of equipment and components for industrial surface finish technology.

- **Feeding**
High pressure and low pressure pumps
- **Mixing**
Mixing and dosing equipment
- **Controlling**
Controller systems designed to meet customer-specific requirements
- **Applying**
From guns of every type right up to high-speed rotary atomizers



Automatic application



Controlling:
The WAGNER Modular Painting System (MPS) – the ideal entry into automatic coating.



Manual application



Feeding:
We also design and build complete paint supply systems.

FlexControl plus XL



	Number of colors	Number of hardeners	Material pressure range in bar	Material requirements Liters per day	Ideal for...
Intellimix 4	1 – 100	1 – 100	0.5 – 8	>100	Automatic applications with air atomizing guns or high-speed rotary atomizers, customized solutions and complex system solutions with central control.
FlexControl plus XL	1 – 25	1 – 10	1 – 400	>100	Universal use for automatic and manual operation in all application variants.
FlexControl plus	1 – 25	1 – 10	0.5 – 270	<100	Versatile use in automatic and manual applications, virtually unlimited possibilities in the incorporation of peripheral equipment, simple operation.
FlexControl	1 – 5	1 – 2	0.5 – 270	<100	Manual operation in all application variants. The best alternative to mechanical 2K systems with very simple operation.

Intellimix 4: The individual high-end solution

This electronic high-tech system, with separate control and fluid cabinets, is **ideal for complex automatic painting processes** and is **configured to customer requirements**.

Mixing, controlling and applying:

Thanks to its powerful electronics, Intellimix 4 can also be used to control **higher level functions**.

A wide variety of different **automatic applications, parts sensing**, reciprocators, etc., can be individually programmed via digital interfaces (Profibus, Ethernet).

Intellimix 4 technical data

Allowable material pressure	0.5 – 8 bar
Mixing ratio	1:1 – 100:1
Mixing accuracy	+/- 1%
Volumetric flow rate	10 – 1200 cm ³ /min
Max. number of A-products	100
Max. number of B-products	100
Max. number of C-products	100
Max. number of flushing fluids	As required
Viscosity	Up to 1000 MPa
Input voltage	80 – 240 V 50 – 60 Hz

VERY HIGH ACCURACY

- Siemens PLC controller
- Recipe memory for up to 25 colors and 25 hardeners
- Individually programmable flushing programs
- Gear pumps for dosing precise quantities
- Continuous combination of A and B components

VERY SIMPLE HANDLING

- Mixing and dosing process plus higher-level controls for automatic applications, parts sensing, etc., in a compact installation
- 12" color LCD display, touch screen with optimal user guidance and visualization of the equipment parameters
- Separate control and fluid cabinets

OPTIONS

- Up to 5 independent 2K circuits
- Profibus, Ethernet interface
- Robot communication
- Actual/target comparison for quantity monitoring
- VOC recording
- And other options

MATERIALS

- Solvent-based and water-based PUR/Epoxy 2K and 3K paints
- 2K adhesives
- Special paints such as Hydro Soft paints

AUTOMATIC APPLICATIONS

- SupraCoat
- Air atomization
- Electrostatics
- Evobell

Control cabinet

Fluid cabinet



FlexControl *plus* XL: Universal and powerful

FlexControl *plus* XL is **extremely powerful** and designed for **high volume flow rates** and **the use of multiple guns**.

Whether in **manual or automatic applications** – with a working pressure of up to 400 bar, this unit covers a **very wide spectrum of use** in terms of the materials applied.

As with Intellimix 4, the **control and fluid cabinets are separate**. This allows short routes to the point of application and keeps the loss of material to a minimum when flushing.

FlexControl *plus* XL technical data

Allowable material pressure	1 – 400 bar
Mixing ratio	0.1:1 – 50:1
Mixing accuracy	+/- 1%
Volumetric flow rate	100 – 25000 cm ³ /min
Max. number of A-products	25
Max. number of B-products	10
Max. number of C-products	5
Max. number of flushing fluids	5 A, 5 B, 5 C
Viscosity	Up to 25000 MPa
Input voltage	115 – 230 V 50 – 60 Hz

VERY HIGH ACCURACY

- Siemens PLC controller
- Recipe memory for up to 100 recipes
- High precision, fast cycling hardener valve
- Individually programmable flushing programs
- Monitoring of the mixing process
- Documentation of operating data

VERY SIMPLE HANDLING

- 4" flat screen, touch screen with optimal user guidance and visualization of the operating data
- Rapid, simple color changes
- Stainless steel color change valves
- Separate control and fluid cabinets

OPTIONS

- 2 independent fluid and mixing circuits (e.g. solvent-based and water-based paints)
- Separate pot life monitoring (for 4 guns)
- Robot communication
- Mass flow measurement
- Gun flush box (PSV)
- VOC recording
- And other options

MATERIALS

- Solvent-based 2K and 3K paints and adhesives
- Water-based 2K and 3K paints and adhesives

MANUAL AND AUTOMATIC APPLICATIONS

- SupraCoat
- Air atomization
- AirCoat
- Airless
- Electrostatics
- Evobell



FlexControl *plus*: The all-around genius

Even more paint, many more options! – **FlexControl *plus*** will win you over with its range of extra features.

While retaining its ease of operation, FlexControl *plus* **offers virtually unlimited possibilities** in the use, application and integration of peripheral equipment.

Thanks to its modular build, this system can be individually **expanded and extended**.

FlexControl *plus* technical data

Allowable material pressure	0.5 – 270 bar
Mixing ratio	0.1:1 – 50:1
Mixing accuracy (hardener component)	+/- 1%
Max. volumetric flow rate	100 – 3000 cm ³ /min
Pot life alarm with automatic switch-off	With pre-alarm
Max. number of colors	25 A, 10 B, 10 C, 10 D
Max. number of flushing fluids	10 A, 5 B, 5 C, 5 D
Viscosity	20 – 10000 MPa
Input voltage	80 – 240 V 50 – 60 Hz

VERY HIGH ACCURACY

- Siemens PLC controller
- Recipe memory for up to 100 recipes
- 10 individually programmable flushing programs
- Monitoring of the mixing process
- Documentation of operating data

VERY SIMPLE HANDLING

- 4" flat screen with touch screen for entering and monitoring all functions
- Rapid, easy color changes
- Stainless steel color change valve with circulation exclusion (option)

OPTIONS

- Expansion modules for additional paint recipes and functions
- Robot communication
- Mass flow measurement
- VOC recording
- Gun flush box (PSV)
- Reduced flushing fluid consumption due to air/solvent flushing
- Separation of control and fluid cabinets
- And other options

MATERIALS

- Solvent-based 2K, 3K and 4K paints and adhesives
- Water-based 2K, 3K and 4K paints and adhesives

MANUAL AND AUTOMATIC APPLICATIONS

- SupraCoat
- Air atomization
- AirCoat
- Airless
- Electrostatics



For use in explosion-protected areas, the system can be separated into a control unit (1) and an intrinsically safe fluid section (2).

FlexControl: The perfect introduction

FlexControl offers an **impressive price-performance ratio** and, as an alternative to mechanical equipment, is an **ideal entry-level system for the automation** of mixing and dosing processes.

The **menu guidance** makes the **electronic control unit** extremely easy and convenient to handle.

The **volume flow measurement** guarantees a very high mixing accuracy.

FlexControl technical data

Allowable material pressure	0.5 – 270 bar
Mixing ratio	0.1:1 – 20:1
Mixing accuracy (hardener component)	+/- 1%
Max. volumetric flow rate	100 – 3000 cm ³ /min
Pot life alarm with automatic switch-off	With pre-alarm
Max. number of colors	5 A, 2 B, 1 C
Max. number of flushing fluids	2 A, 2 B
Viscosity	20 – 10000 MPa
Input voltage	80 – 240 V 50 – 60 Hz

VERY HIGH ACCURACY

- Siemens PLC controller
- Special mixing technology for the homogeneous mixing of base components and hardeners
- Monitoring of the mixing process
- Stop function with error message when the tolerance limits are exceeded

VERY SIMPLE HANDLING

- Two line entry and memory display for mixing ratio, processing time, filling and flushing quantities
- Only three buttons for Start, Stop and Flush. Everything else is handled by the automatic controller.
- Rapid, simple color changes

OPTIONS

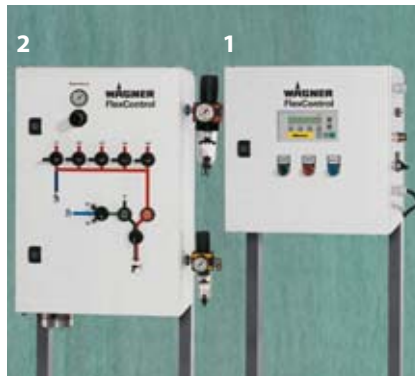
- Processing of 3K materials
- Remote control for spray booths (intrinsically safe design)
- Reduction in the amount of flushing fluid due to special air/solvent flushing
- Separation of control and fluid cabinets
- And other options

MATERIALS

- Solvent-based 2K and 3K paints and adhesives
- Water-based 2K and 3K paints and adhesives

MANUAL APPLICATIONS

- Air atomization
- AirCoat
- Airless
- Electrostatics



For use in explosion-protected areas, the system can be separated into a control unit (1) and an intrinsically safe fluid section (2).

Reliable performance

WAGNER offers two reliable piston pump series for material feed: the WAGNER IceBreaker and WAGNER EvoMotion. Both series transform energy into perfect performance, generating an optimal paint supply with a low pulsation material flow, coupled with a long service life and low maintenance costs.



WAGNER guns

The WAGNER gun program optimally combines economical coating with high surface quality. Whether you need manual or automatic guns for the Airless, AirCoat and air atomization processes, with or without electrostatic support or high speed rotary atomizers: You will find the right solution for your requirements in a broad range of different application areas and media.

Experience in diaphragm technology

In addition to piston pumps, WAGNER offers a broad spectrum of diaphragm pumps in the low, medium and high pressure ranges. WAGNER diaphragm pumps are noted for their high delivery rates and maximum reliability.



Additional information can be found in the complete WAGNER catalog.

www.wagner-group.com

