



WAGNER Wood finishing

ADVANCED SOLUTIONS FOR MANUAL AND AUTOMATIC WOOD FINISHING



- Perfect surfaces
- High efficiency
- High reliability

A reliable partner for your business

For decades, WAGNER has been a specialized worldwide provider of components and complete systems in industrial surface technology. As a leading supplier in the Industrial Wet Painting field, WAGNER offers a complete range of products for wood finishing. This stretches from single components in the areas of feeding, mixing, controlling and application, right up to complex large-scale installations.

WAGNER DEVELOPMENT CENTRE

From the initial idea to series production, the highly advanced WAGNER development center sets new standards in the development of products and solutions for the surface finishing industry. In addition, it is here that compliance with all national and international standards and regulations is guaranteed in the course of product development.

WAGNER GLOBAL EXPERTISE

The WAGNER-Group is active globally with some 1,300 employees, nine production plants, 19 operating companies and an experienced distribution network in more than 50 countries - all close to you!

WAGNER TECHNOLOGY AND TRAINING CENTRE

With our unique technology centre in Markdorf we provide a large testing area and an experienced team of application technicians and engineers. Here we have regularly application test as well as trainings for our distribution, service and customers.



WAGNER - the wood finishing experts

Wood finishing is one of the most extensive and interesting field of surface finishing, because wood is a living material. It involves different application systems for a multitude of coatings and different functions of the coated surface - but our main aim is always the same: Perfect finishing with the highest efficiency.

EXPERIENCE

Experience makes the difference! Superior finishing, high transfer efficiency, productivity and reduced waste - WAGNER has been working on this for 60 years. We are doing it side by side with our customers. Our know how is at your service. Get in touch with WAGNER experts to get the best solutions to achieve your targets.

QUALITY

Highest standards of quality. You will find these qualities in all our products: Long lifetime, high durability, easy to service and conformance to all safety requirements. Each product is tested extensively in realistic and lab conditions before we bring it on the market. Continuous enhancements and a continuous improvement process make our wood finishing products superior in performance and quality.

SERVICE

Service at WAGNER means availability! Our target is to be always available to our customers, because that is the only way to find the best solution for your wood coating process. Our specialized service technicians support you in order for your production to run smoothly. With our international presence and with specialized distribution WAGNER is always on your side - personally and technically!

ENVIRONMENTAL RESPONSIBILITY

The VOC standard helps to protect our environment and is used to protect the human population. An important part in this standard is the reduction of solvent consumption.

In the development of our products we take VOC regulations as the basis of our design! Our products are designed for a minimum of solvent and paint waste, for highest transfer efficiency, fast and easy cleaning and for less energy consumption. With WAGNER products you are in compliance with VOC regulations.



Extensive variety of materials

Wood is not always the same - it varies widely. On one hand there are the natural grown woods and on the other hand there are the so called composites like MDF, chipboard, multiplex,... each of them with different characteristics and requirements. Wood objects to be coated can be small or large, in parts or mounted, round or flat, vertical or horizontal with complex or simple shapes.

The wood coating process

1. SEALERS & PRIMERS

Staining is used to equalize the shade and the color of the wood. With primers, the wood will be protected against external influences.

2. STAINS

The base coat/sealer fills the wood pores, allows sanding, preserving the item color and creates a good bonding of the top coat. Base coat can be applied in several layers.

3. TOP COATS

Top coat can be non-pigmented (clear coatings) or pigmented (paints). It gives the final look and protection properties. The top coat can be matt or glossy and can also be applied in several layers.





Solutions for all requirements

WAGNER - Spray application technologies

Customer requirements are different, from market to market and from customer to customer. All this influences the coating process, the application method and drives the selection of the type and characteristics of paints, the number of layers and the application method.

APPLICATION TECHNOLOGY

The application technology is driven by different demands and facts:

- Object shape
- Viscosity of the paint
- Application method (flat/vertical)
- Customer targets and requirements

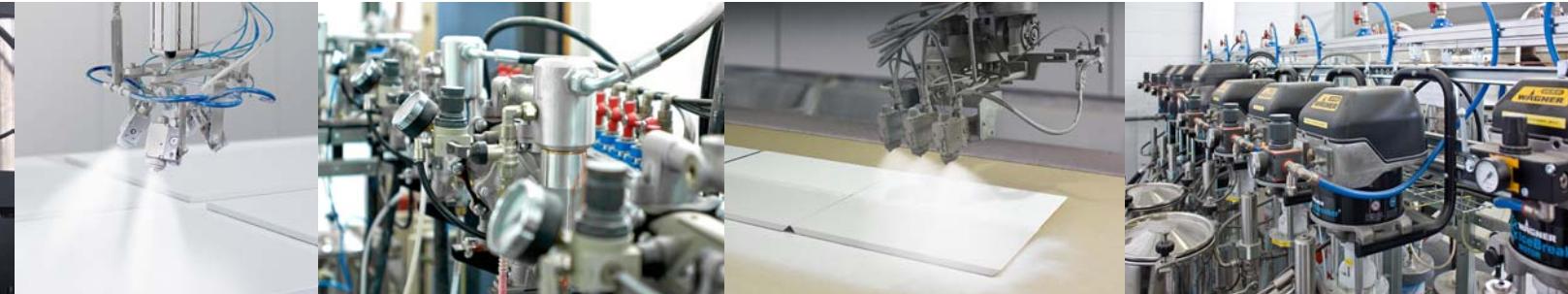
FEEDING EQUIPMENT

The choice of the feeding equipment is also affected by different facts:

- Type and viscosity of the coating
- Daily paint consumption
(manual or automatic process)
- Paint characteristics
(Skills of operators)
- Customer requirements and investment potential



	TECHNOLOGY	MAIN FEATURES	FEEDING EQUIPMENT
Low Pressure	Air Spray	<ul style="list-style-type: none"> ■ Medium-low transfer efficiency ■ Medium-low application speed ■ High versatility ■ High finishing quality ■ Limitation on viscosity 	<ul style="list-style-type: none"> ■ Gravity cups ■ Pressure Tank ■ Double Diaphragm Pumps ■ Low Pressure Piston Pumps
Medium Pressure	AirCoat	<ul style="list-style-type: none"> ■ High transfer efficiency ■ High application speed ■ High versatility ■ Limitation in applying metallic paints 	<ul style="list-style-type: none"> ■ High Pressure Piston Pumps ■ High Pressure Diaphragm Pumps
High Pressure	Airless	<ul style="list-style-type: none"> ■ High transfer efficiency ■ High application speed ■ Limitation in applying metallic and pigmented paints ■ No vertical application except of tixotropic paints 	<ul style="list-style-type: none"> ■ High Pressure Piston Pumps ■ High Pressure Diaphragm Pumps
Electrostatic	Air Spray & Aircoat	<ul style="list-style-type: none"> ■ High transfer efficiency ■ Wrap around effect ■ Homogeneous surface 	<ul style="list-style-type: none"> ■ Pressure Tank ■ Double Diaphragm Pumps ■ Low Pressure Piston Pumps ■ High Pressure Piston Pumps ■ High Pressure Diaphragm Pumps
	Bell Atomizer	<ul style="list-style-type: none"> ■ Highest transfer efficiency ■ Wrap around effect ■ Homogeneous surface ■ Low penetration 	<ul style="list-style-type: none"> ■ Double Diaphragm Pumps ■ Low Pressure Piston Pumps ■ Gear Pumps





Manual wood coating process

Solutions for manual Air Spray Application

Air Spray technology is still widely used thanks to its high versatility and user friendliness. WAGNER Air Spray range includes spray guns with atomizing technologies such as conventional, medium pressure, HVLP and HVLP "plus" and state of the art double diaphragm pumps and piston pumps.

GRAVITY CUP GUNS

Recommended for applying small quantities of stains or low viscosity paints. The Pilot Mini, Trend and Premium cover all application requirements.

- Top quality finishing
- High performance
- High transfer efficiency
- Wide and uniform spray pattern
- Ergonomic design for comfortable handling
- Very high reliability
- Wide range of nozzles and aircaps



MANUAL PROCESS

Solutions for manual Air Spray application

Low pressure spraypacks offer improved operator comfort and higher movement freedom compared to a gravity cup gun. Higher productivity as no interruptions to refill the gravity cups are needed.

SP 5 - MANUAL AIR SPRAY GUN

Comfortable and reliable, ideal gun either for staining, base coat and top coat. Wide selection of aircaps and nozzles to meet any application requirement.



ZIP 52 FINISHING - SPRAYPACK

Ideal for high finishing and all application that require a perfect control of the flow . "Full optional" spray pack which includes the exclusive "Fine flow controller". Zip 52 spraypacks guarantee pulsation free spray pattern, precise and constant flow adjustment, highest reliability and extremely easy color change operations.





Precise flow rates without pulsation

Fine Flow Controller FFC

Fine Flow Controller (FFC) 3-in-1 is a patented fluid regulator with integrated filter and antipulsation chamber which filters the material. The FFC adjust the flow rate to the gun very precisely without pulsation or flow variations. No dead areas enable faster cleaning and color change. All controls (pump, paint flow and atomizing air) are mounted on the front panel located in a very comfortable position for the operator. Available also on 25 lt can lid and with 5 lt hopper.



ZIP 52 PERFECT FLOW

The ideal spray pack for primers, fillers but also for topcoat and all materials which do not need fluid regulator and which require bigger filtration surface. It includes a large antipulsation tank and filter screen.

- Simple
- Reliable
- Versatile



A full range of pressure pots

Solutions for manual high pressure application

Power and Control together for superior performance and finishing results! AIRLESS TECHNOLOGY provides "Power": fast application speed, low overspray and high transfer efficiency. Air Spray technology provides "Control": easy and precise adjustments of the atomizing air and of the fan width, for maximum application versatility and finishing quality. The right combination of Airless and Air Spray technology together with the unique WAGNER know how results in AirCoat technology: perfect finishing, high productivity, soft spray pattern and very high transfer efficiency.

AIRCOAT MANUAL SPRAY GUNS

WAGNER AirCoat gun range features two models to fit any hand size for best working comfort. Professional tools made to work hard and last a long time. Very high transfer efficiency, and perfect finishing. All guns are suitable to operate up to 250 bar.

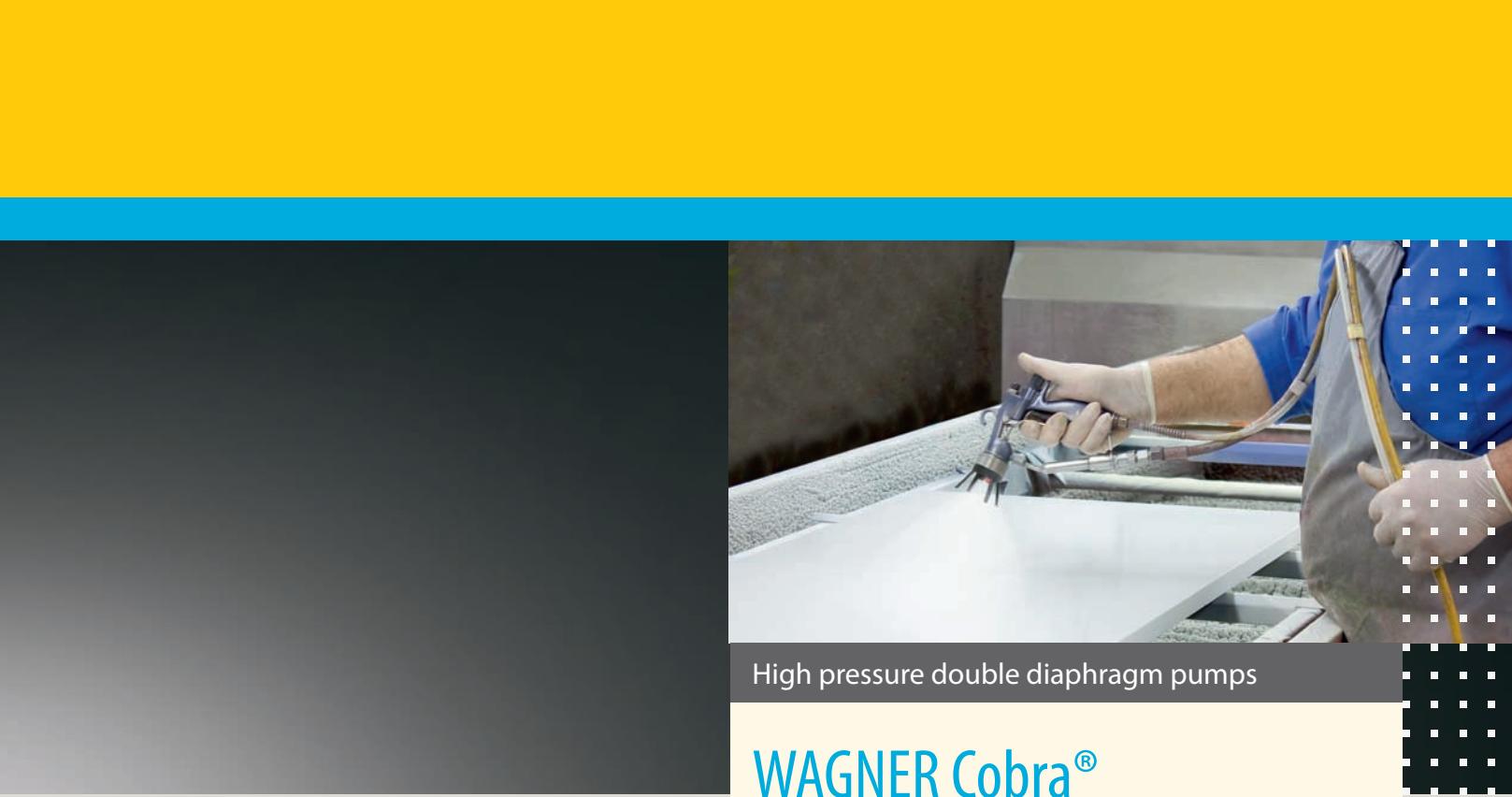


PISTON PUMPS SPRAYPACKS

The WAGNER spraypacks start with the compact units EvoMotion 40-15 and 20-30, perfect for coating windows frames or to spray furniture and panels. Can be filled with small paint volumes and therefore are ideal for small jobs too.

- Simple
- Reliable
- Versatile





High pressure double diaphragm pumps

WAGNER Cobra®

- MAKES THE DIFFERENCE -

ICEBREAKER

When the quantity of paint needed is large or when there are several guns to feed, IceBreaker units Puma 28-40 and Leopard 35-70 are ideal for the job. No fear of abrasive fillers, no pulsations and no icing problems. All wanger units offer the best performances and the highest reliability.

- Superior reliability
- Top performance
- Full range of accessories



High pressure pneumatic diaphragm pump suitable for almost any kind of AirCoat and Airless application with UV paint, Acrylic, polyurethane, thixotropic and almost any other paint used in the wood market. Its small pumping volume combined with the ability to work at an high frequency without any wearing problems, enables Cobra 40-10 to perform like a pump 6 time bigger, but its much easier, faster and efficient to flush and change color.

Time, solvent and paint saved during these universal operations guarantee an extremely fast return on the investment. In addition no pulsations and perfect design make this pump the ideal spray pack for any painter who looks for top performance, best features and highest finishing quality.

- Innovative pump technology
- Highest reliability - No frictions
- For almost any kind of material
- Pulsation free spray pattern
- Virtually no application limits
- Great return on investment



2K solutions for manual application

Most of new plural component paints require careful handling, especially in terms of mixing and application: if not mixed in the right proportion and applied while the mixture is fresh, the result can be loss of quality and poor finishing and problems during the application. This is why all paint producers recommend use of 2k proportioning and mixing units to apply 2k paints. WAGNER 2K units offer several advantages:

- mix only what is needed while spraying to reduce paint waste
- Fewer pump wearing and cleaning problems
- Reduces human error
- Consistent quality of mixed paint

TWINCONTROL

Extremely easy to use electronic 2K proportioner. It is based on the patented magnetic stroke meter technology - no flow meters. It mixes polyurethanes, acrylic, and many other 2K paints perfectly. Recommended for minimal color changes per day.

- High mixing accuracy
- Extremely versatile
- Automatic flushing
- Simple and easy to use



FLEXCONTROL

FlexControl is a flow meter based electronic mixing system with great flexibility of usage and great reliability and precision. If you need to spray 2k paints and to switch colors several times a day, then FlexControl is the perfect application for your job.





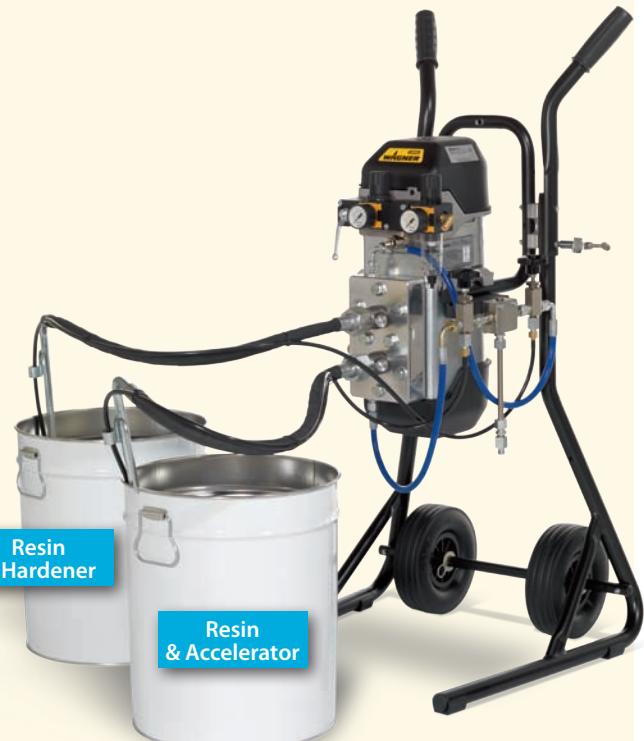
Mechanical units with diaphragm technology

Polyester mixing

COBRA 2K

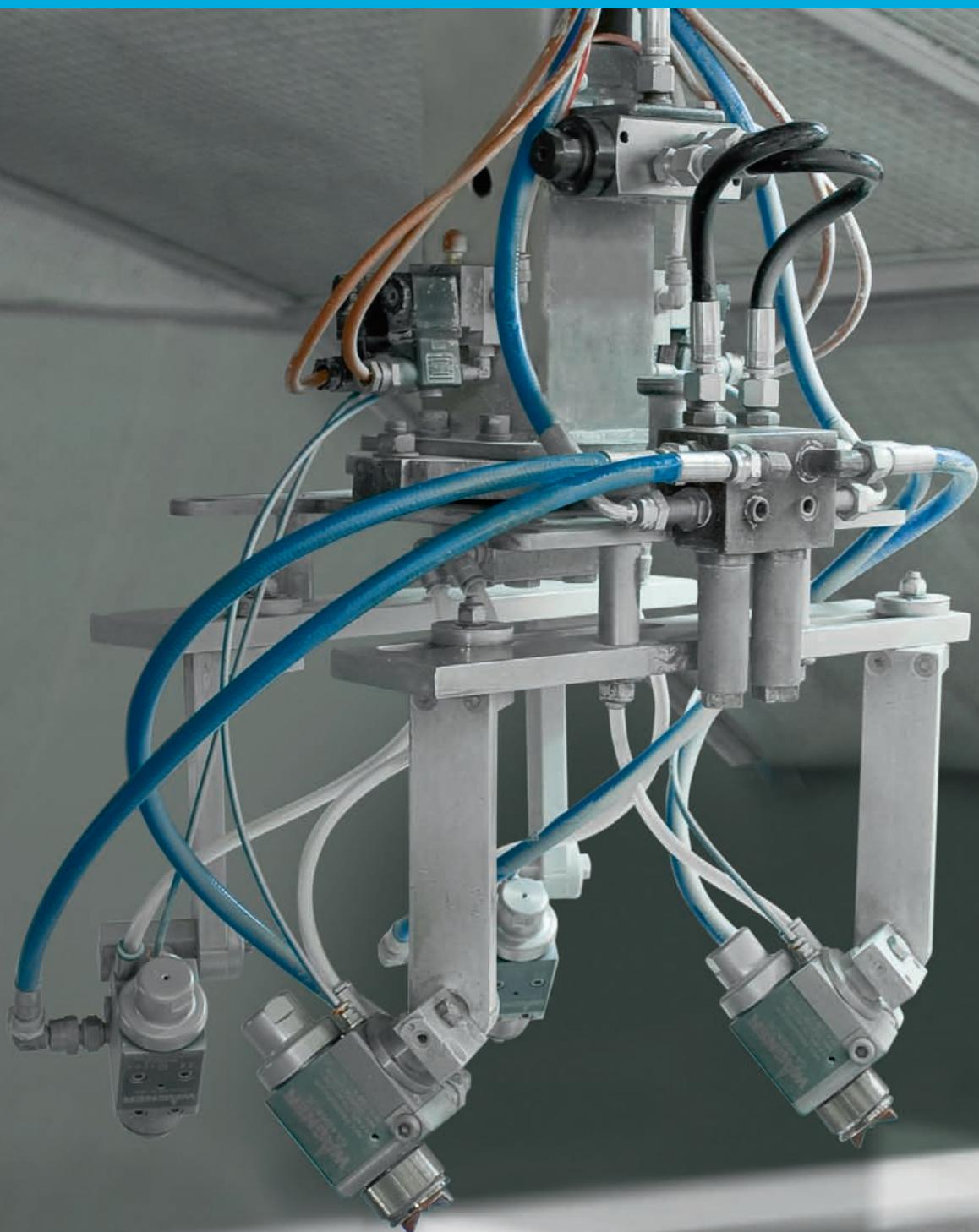
Cobra 2K has been specifically developed for dosing and mixing polyester, to improve results and reduce costs

It mixes 1:1 resin with accelerator and resin with hardener - only what you're going to spray. Ideal for Airless or AirCoat applications. The WAGNER exclusive Cobra technology allows application of large volumes without any packing problem. Cobra 2k flushes the pump with very little solvent which saves money and reduces problems. Pressure ratio 40:1.



Easy to use and to install allows great flexibility in terms of expansion. Starting configuration can be as simple as one color and as production needs increase additional components can be added easily.

- Great precision and reliability
- Possibility to dose ad mix a 3rd component
- Extremely fast Return on Investment

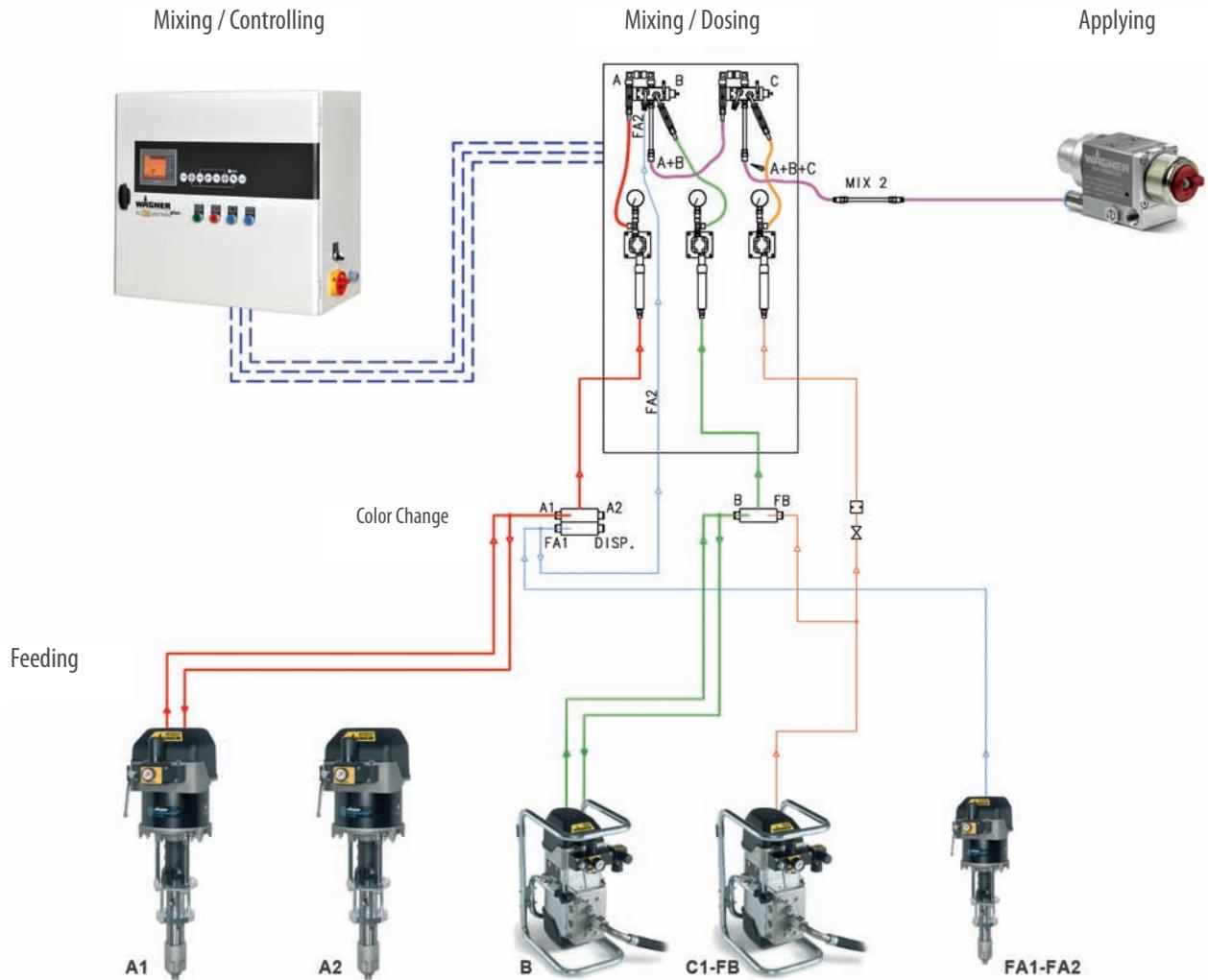


Automatic wood coating process

Components & solutions for automatic applications

Highest reliability, best performances, innovative features are common core characteristics of all WAGNER components. It doesn't matter if you are just beginning automatic applications or if you have years of experience, WAGNER will be at your side to support you to improve your performances.

EXAMPLE FOR AN AUTOMATIC APPLICATION



Automatic spray guns

All WAGNER application processes are at the highest technical level. We offer automatic spray guns for all application technologies: Airspray, Aircoat and Airless. Perfect coating results and at the same time the highest transfer efficiency, are the result of years of development work and extensive practical experience.

AIRCOAT

The new generation of automatic AirCoat guns GA 4000AC have been designed to satisfy the requirements of customers and spraying machineries manufactures. It offers the best performances and features. Small, light, high reliability, easy service, perfect atomization and highest transfer efficiency are some of the many features of the GA 4000AC family. Ideal for all types of automatic spraying machineries including robots, rotary spraying machine and reciprocators.

- Extremely compact and light
- Highest reliability
- Perfect atomization and finishing
- Superior transfer efficiency



AIR SPRAY

A wide selection of automatic Airspray guns conventional and HVLP- Supracote covers all low pressure applications requirements (from stains to glues).

AIRLESS

Extremely reliable and compact GA 400AL and GA 250AL Airless guns complete the gun range to cover all other high pressure application (thixotropic paint, primers and fillers) when air is not needed and application speed is the main driver.





Best atomization ever

WAGNER AirCoat

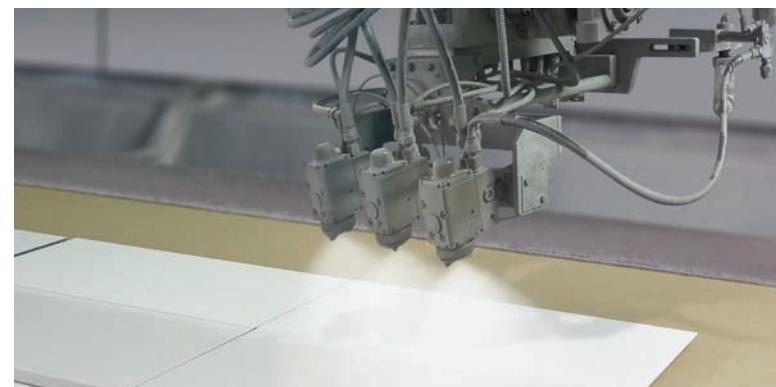
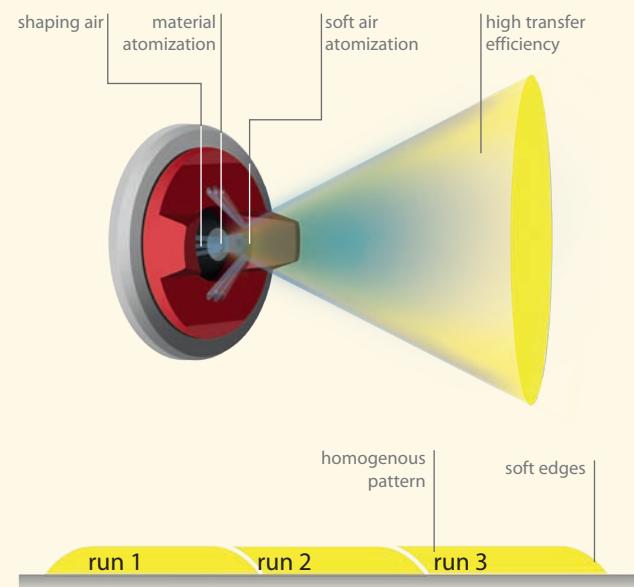
More than 30 years of experience in AirCoat technology has led to our newest design innovation in atomization systems consisting of nozzles and air caps.

AIRLESS ATOMIZATION

The specially designed high quality AirCoat nozzle provides the best atomization and lifetime while distributing the material in a uniform pattern to create a perfect finishing result. Soft edges of the spray pattern allow a overlapping of spray tracks while achieving a uniform layer thickness.

AIR SPRAY ATOMIZATION

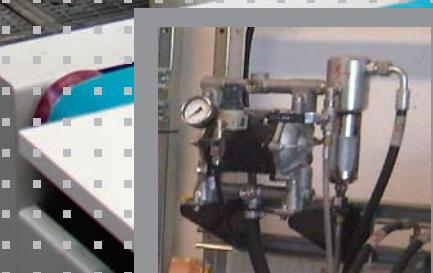
The Air spray atomization further increases the quality of the atomization with a soft airflow. Additionally enabling a precise fan width adjustment and keeping the air cap clean even in rough production environments.



AUTOMATIC PROCESS

Feeding systems

Clean and well organized feeding stations with pumps mounted on modular frames, drum covers with agitators to keep colors ready to be used and protected, hermetic tanks and nitrogen feeding device for preserving isocyanides catalysts. Remote controlled fluid regulators to adjust and keep constant working pressure. Modular Automatic color change valves systems to minimize changing time and wastes. Special heating hoses and paint heaters to adjust and keep constant paint temperature in order to reduce dilution and solvent emissions, improve finishing and transfer efficiency.



PUMP FAMILY

ICEBREAKER PISTON PUMPS Puma 21-110 Leopard 35-70 and 35-150, Jaguar 38-300 offers highest reliability and top performances.

COBRA 40-25 - HP diaphragm pumps no application limits, no packings, no frictions, extremely easy and fast to clean and change colors. The best solution for UV and Acrylic paints, but perfect for almost any other type of paint and reactive material like isocyanides catalysts. Suitable to feed up to 12 guns.

ZIP DDP family are the ideal pumps for feeding low pressure guns, but also roller coaters, curtain coaters and vacuum coaters. Reliability, high performances and a wide range of accessories make them the preferred choice in the wood finishing market.



Mixing & dosing equipment

Electronic dosing and mixing systems suitable to dose and mix 2k, 3k and 4k materials, can be independent from the spray machine or can be fully interfaced with Robot PLC and have all main operation (recipe selection, color change, flushing, filling, start and stop) directly managed by external PLC.

FLEXCONTROL FAMILY

FLEXCONTROL 7 based on flow meter technology offers highest accuracy. It's the ideal solution for managing several color changes per day and for a low level of interface with the automatic spraying machine.

FLEXCONTROL PLUS the most advanced dosing and mixing system, flow meter technology, highest accuracy and largest flexibility to meet any requirement. Able to handle up to 25 colors, 4 components and up to 2 separate fluid sections that can handle both water and solvent based paints easily. Advanced interface integration with spraying machine/Robots and external PC or PLC.





Electrostatic wood coating process

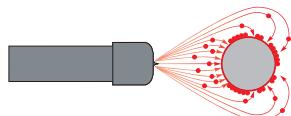
Solutions for electrostatic application on wood

WAGNER electrostatic atomization systems are used to increase transfer efficiency and reduce application time in the coating process of windows frames and shutters, rounded parts, chairs, table, beds, sofas legs, fences and in general rattan furniture.

PROCESS FEATURES

Due to the electrostatic charge the paint particles repel each other to produce an extremely fine atomization which results in a very homogenous material application and therefore an high quality finishing.

These fine paint particles negatively charged are attracted by the grounded work piece generating a wrap-around effect. While coating the front, the overspray is attracted by the rear of the work piece enabling enormous saving in material and time.



SOLUTION FOR WATER BASED PAINTS

For water based paint WAGNER has developed AquaCoat , a ready to use insulated systems that charges and apply water based paint with manual or automatic guns in high pressure and low pressure. Highest safety standards, top performances and operator comfort are its main features.

Electrostatic technology can be applied to more advanced solutions such as automatic color change systems for mono-component paints or for automatic systems with electronic proportioning and mixing unit.

WAGNER also offers solution for heating paint on electrostatic application systems - either for solvent or for water-based materials.

SOLUTIONS FOR SOLVENT-BASED PAINTS

The WAGNER manual and automatic electrostatic guns, bells and our wide range of controllers for manual and automatic applications are the ideal products to apply electrostatic charge on solvent based paints.



The background of the entire page is a large, slightly out-of-focus stack of white paper or cardstock, creating a textured, layered effect.

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