

High application efficiency

Perfect finish

Good wrap-round

For manual and automatic application

Electrostatic guns



WAGNER

Electrostatic liquid application

Finishes that will completely win you over!

WAGNER's electrostatically supported atomization processes are **highly economical** coating systems, offering decisive advantages over conventional application techniques, in many areas of **industry**.

■ Innovative technology for any application

Whether it's a "manual operation" or a process controlled automatic application, when applying high build paints or special effects paints, 2K materials, metallic paints, corrosion protection or Teflon materials – WAGNER offers the right electrostatic gun for each material and each application.

■ High surface quality

Due to the electrostatic charge (max. 80 kV) the paint particles repel each other, assisting distribution and atomization.

Due to the electrical field lines and the opposite polarity of the work piece, the paint particles are also formed into a homogeneous spray jet. The extremely uniform application of the material resulting from this, and the uniform thickness of the film, ensures a particularly high quality of coating result.

■ High savings in time

The electrostatically charged paint is attracted to both sides of the earthed object. This wrap-round effect saves time, as the objects may only have to be coated from one side.

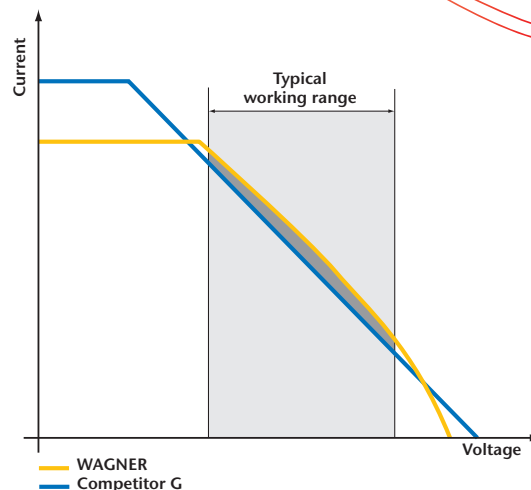
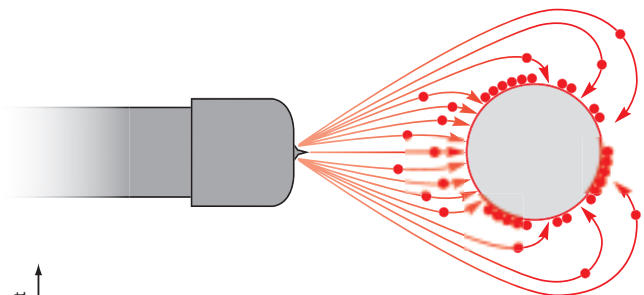
■ Lower paint consumption

The spray gun generates an electrostatic field to the earthed work piece through the high-voltage electrode. The paint is electrostatically charged, follows the field lines and is attracted to the object (wrap-round effect). Thanks to the electrostatic charge of the atomized material, the application efficiency is improved by up to 65% compared with conventional air atomizing systems.

■ Reduction in waste disposal costs

Due to the reduction of overspray, the cleaning intervals for spray booths are longer. This dramatically reduces the waste disposal costs. People and the environment also benefit from reduced overspray.

■ Higher performance of the WAGNER electrostatic guns, for maximum wrap-round and optimum application efficiency.



WAGNER

AirCoat atomization:

Greater power – less environmental pollution

A characteristic of the AirCoat process is the distinctly lower paint pressure compared to the Airless process, and the particularly soft and homogeneous spray jet, due to the feed of additional atomizing air. This is provided by the air feed in the air cap, which surrounds the sprayed medium like a sheath. Further advantages are a high coating speed, and low paint mist and overspray.

Summary of benefits:

- Excellent surface finish
- High coating speed
- Reduction of paint mist and overspray
- Uniform application of paint material
- Soft spray jet with soft run-out at the edges
- Can also be used for high viscosity materials
- Reduction of the emissions in accordance with the VOC guidelines for liquid organic compounds

Main areas of use:

- Industrial coatings, particularly for wooden and metal surfaces
- Aircraft industry
- Agricultural machinery
- Lorries
- Construction vehicles

Airspray atomization:

Excellent surface finish – universally usable

The conventional air atomizing process is the classical method of atomizing paints. This type of application meets the highest demands for surface quality and finish. Its universal range of use in industry and also for special applications is what makes this tried-and-tested technology such a success. The characteristic of this process is that the paint is atomized by air. For this the atomizing air flows out through an annular opening in the air cap and can be shaped from a round jet to a flat jet by means of the fan control.

Summary of benefits:

- Excellent surface finish
- Universally usable
- Simple to handle
- Reduction of the emissions in accordance with the VOC guidelines for liquid organic compounds

Main areas of use:

- Automobile and commercial vehicle industry
- Automotive supply industry
- Agricultural machines
- Machine tool builders
- Aircraft industry
- Plastics painting



Air atomizing sprayguns

For solvent based paints

GM 2800EA



- Air atomizing manual gun with a separable nozzle system
- Suitable for all solvent based paints (even low resistance types e.g. metallics), with a specific paint resistance of more than 50 kOhm (on the WAGNER scale)

Area of application: machine builders, vehicle builders, metalworking companies, furniture manufacturers, cycle makers

Controller: VM 200 or VM 2000

GA 2800EA GA 2805EA



- GA 2800EA with fan-control on the gun
- GA 2805EA with external (remote) fan-control
- Air atomizing automatic gun with a separable nozzle system
- Suitable for all solvent based paints (even low resistance types e.g. metallics), with a specific paint resistance of more than 50 kOhm (on the WAGNER scale)

Area of application: machine-tool builders, vehicle builders, metalworking companies, furniture manufacturers, cycle makers

Controller: EPG 3000

Electrostatic guns for manual application

WAGNER electrostatic manual guns have been specially developed for day-to-day painting. Their well-balanced ergonomics, low trigger and holding effort and their low weight offer user-friendly handling and provide optimum working conditions.

All electrostatic guns for manual application are explosion protected in accordance with the ATEX guideline.

 II 2 G

- Perfect surface finish
- Simple operation
- Easy nozzle changing and cleaning
- Good ergonomics for untiring work
- Guns for Airspray and AirCoat atomization with an extensive range of nozzles (round jet nozzles and flat jet nozzles)
- Suitable for the very widest range of objects and materials



Electrostatic guns for automatic application

WAGNER electrostatic automatic guns have been developed especially for automated, efficient and economical electrostatic coating in industry.

All electrostatic guns for automatic application are explosion protected in accordance with the ATEX guideline.

 II 2 G

- Perfect surface finish
- Simple maintenance and cleaning
- Guns for Airspray and AirCoat atomization with an extensive range of nozzles (round jet nozzles and flat jet nozzles)
- Matched control units for process security and ease of operation
- Suitable for the very widest range of objects and materials



For water based paints

Units marked with a "W" may only be used with non flammable spraying materials to VDE 0745 Part 200 (EN 50059).

GM 2800EAW



- Air atomizing manual gun with isolated paint system
- Water based paints (primers, top coats, lacquers)

Area of application: machinery and vehicle builders, metalworking companies, furniture manufacturers

Controller: VM 2000 W

GA 2800EAW



- Air atomizing automatic gun with isolated paint supply
- Water based paints (primers, top coats, lacquers)

Area of application: chair factories, wagon builders, construction machine and vehicle builders, office furniture manufacturers

Controller: EPG 2000 W

Guns with AirCoat atomization:

For solvent based paints

GM 2000EAC



- AirCoat manual gun with flat or round nozzle system)
- Suitable for all solvent based paints (even low resistance types e.g. metallics), with a specific paint resistance of more than 50 kOhm (on the WAGNER scale)

Area of application: machine tool builders, vehicle builders, metalworking companies, furniture manufacturers, cycle makers

Controller: VM 200 or VM 2000

**GA 2000EAC
GA 2005EAC**



- GA 2000EAC with fan-control on the gun
- GA 2005EAC with external (remote) fan-control
- Automatic gun with AirCoat atomization (round jet nozzles or Brilliant flat jet nozzles)
- For paints and primers, with a specific paint resistance of more than 150 kOhm (on the WAGNER scale)

Area of application: chair factories, wagon builders, construction machine and vehicle builders, office furniture manufacturers

Controller: EPG 3000

For water based paints

Units marked with a "W" may only be used with non flammable spraying materials to VDE 0745 Part 200 (EN 50059).

GM 2000EACW

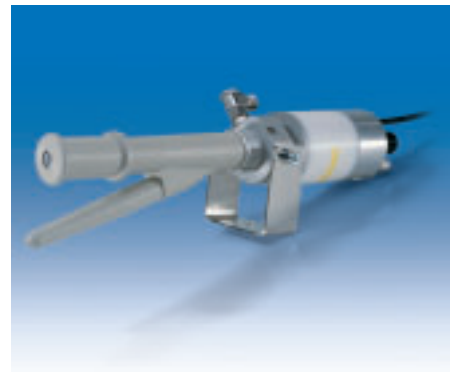


- Manual gun using the AirCoat process and external charging
- Water based paints (primers, top coats, lacquers)

Area of application: chair factories, wagon builders, construction machine and vehicle builders, office furniture manufacturers

Controller: VM 2000 W

GA 2000EACW



- Automatic gun using the AirCoat process and external charging
- Water based paints (primers, top coats, lacquers)

Area of application: chair factories, wagon builders, construction machine and vehicle builders, office furniture manufacturers

Controller: EPG 2000 W

WAGNER Electrostatic Coatings Equipment: Controllers

Controller VM 200



Controller VM 2000



Controller EPG 3000

Modular Painting System



Controllers for manual applications

VM 200

for solvent based paints

- Max. 11 m gun cable
- Enclosure Class IP 54
- “Power on” and “HV on” LED indicators

VM 2000

for solvent based paints

Separate displays for:

- High-voltage kV (set and actual values)
- Spraying current μA (actual figure when spraying)
- Spraying current limit: max. 100 μA
- Earthing check
- Fault displays
- Adjustable high voltage (kV)
- Gun cable length up to 40 m without power loss
- Max. cable length 80 m
- Enclosure Class IP 54

VM 2000 W

for water-based paints

- As above but spraying current limit max. 200 μA especially for water-based paints.
- Enclosure Class IP 54

Controllers for automatic applications

EPG 3000

for solvent based paints

Separate displays for:

- High-voltage kV (set and actual values)
- Spraying current μA (actual figure when spraying)
- Spraying current limit: max. 100 μA
- Earthing check
- Fault displays
- Adjustable high voltage (kV)
- Gun cable length up to 80 m
- Pressure adjustment for atomiser and shaping air inc. pressure gauge
- Can be integrated into the modular painting equipment control system
- Enclosure Class IP 54

EPG 2000 W

for water-based paints

- As above but spray current limit max. 200 μA especially for water-based paints.
- Enclosure Class IP 54

Modular painting system

Modular control system for process control of automated coating

- Central control unit
- Gap control system for gun-triggering
- Gun control for individual gun-settings
- Reciprocator control

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www.wagner-group.com

