



Corona and Tribo Guns

POWDER MANUAL AND AUTOMATIC GUNS

- Efficient and economical
- Perfect application efficiency
- Light and handy

Features and benefits at a glance

WAGNER HiCoat gun technology

The HiCoat gun technology is the first step in reducing variations in coating thickness. This technology achieves a significantly more homogeneous powder distribution and an increased transfer efficiency.

SPECIAL ADVANTAGES:

- Homogeneous powder cloud
- Optimized e-static for efficient powder charging
- Significant increase in the transfer rate
- Reduced wear
- Soft powder cloud
- Atomization selected to suit the workpiece
- Uniform film thickness distribution

Reliable application of metallic and UDS powder paints

The new generation of guns from WAGNER represent efficiency and perfection. The integral high voltage cascade with a power rating of up to 100 kV works perfectly and safely. All electronic components are integrated in the robust plastic body of the gun. This means low service costs and a much longer service life.

Safety power & highest quality

The focus of all WAGNER developments is on safety and quality. WAGNER powder guns provide all the important certificates and are subject to permanent controls to avoid high voltage breakthroughs or blow backs into the powder duct.

- CE declaration
- FM certificate
- PTB certificate
- Increased electrical safety
- Certified for Zone 21 internal coating

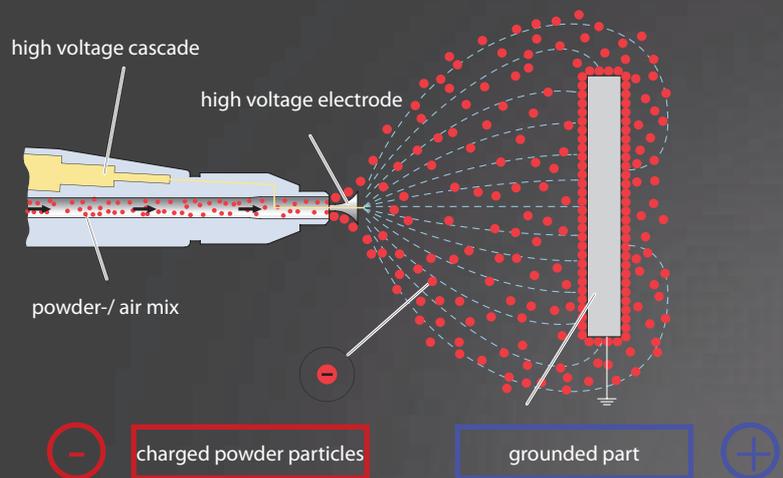


Powder coating technology

Corona powder coating

The producing of high voltage in the corona process is done with the aid of a high voltage cascade, which is integrated in the gun body. The high voltage is generated by means of a high voltage cascade that is installed in the gun body. The voltage level is regulated in the control module and is matched to the geometry of the work piece, or to the powder coating system in use. The charged particles „move” along the field lines to the grounded work piece.

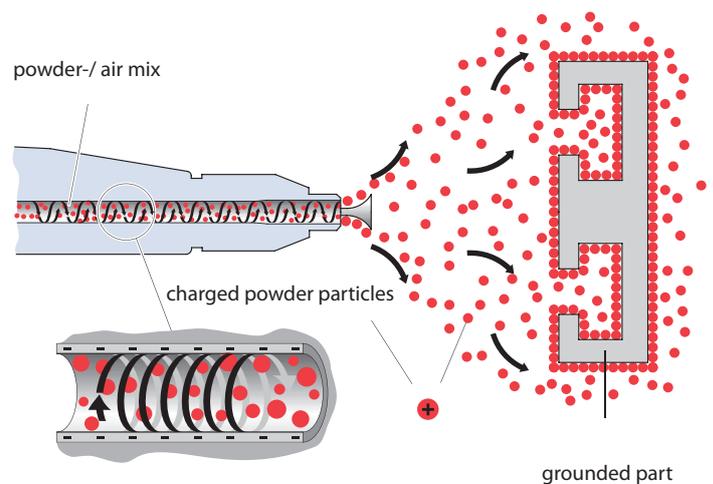
The advantages of the corona process are the low wear of the gun, the low air consumption as well as the universal application as many powder coatings (e.g. effect powder coatings) are not suitable for the tribo process.



Tribo powder coating

The Tribo process is based on frictional charging. In this case, the fluidized powder/air mixture in a PTFE powder tube is charged by means of friction against the inside tube wall. Due to its excellent electrical insulation properties (negative), PTFE is well-suited to charging the particles and its good anti-frictional properties prevent build-up on the walls.

The advantages of the tribo process are the good penetration depth and the better film thickness distribution. In comparison to the corona process, the powder can easily penetrate into depressions (e.g. mailboxes and rims). The coated surface is smoother with no "orange peel" effect.



Corona - Proven technology for outstanding results

Corona manual guns

Corona C4 manual guns are easy to handle as well as producing excellent coating results. They are the perfect tool for modern electrostatic powder coating.

Corona manual guns:



PEM-C4 Ergo HiCoat

PEM-CG4 HiCoat cup gun

C4-HiCoat manual guns

PEM-C4 & PEM-CG4

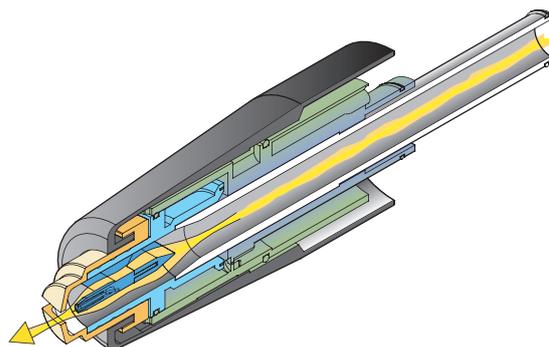
- High surface quality
- Perfect ergonomics
- Low maintenance

Technical data	PEM-C4	PEM-CG4
Length	395 mm	395 mm
Weight	504 g	890 g
Build	EN 50050	EN 50050
Enclosure class	IP 54	IP 54
Polarity	Negative	Negative
Max. powder output	450 g/ min. 0,99 lb/min.	200 g/ min. 0,44 lb/min.

The Powerlock system, fast and effective!

Save time when changing powders. The new system for fast effective cleaning.

- Safe, automatic cleaning of the powder duct in the gun
- Stable positioning of the nozzle components
- Easy accessibility to wear parts



Corona automatic guns

The automatic guns don't leave anything to wish for either. Superior surface results and high transfer rates speak for themselves. With **PEA-C4 XL** HiCoat automatic guns even complex 3D coatings can be easily accomplished. The **PEA-C4 Twin** gun for buckling arm robots follows the work piece geometry fully automatically and with highest precision.



PEA-C4 Twin



PEA-C4 XL HiCoat

C4-HiCoat-automatic guns

PEA-C4 Twin, PEA-C4 XL & PEA-C4

- Maximum application efficiency
- Fast nozzle exchange
- Perfect geometry

Technical data	PEA-C4 Twin	PEA-C4 XL	PEA-C4
Length	500 mm	up to 1800 mm	395 mm
Weight	1.400 g	1.230 g	555 g
Build	EN 50177	EN 50177	EN 50177
Enclosure class	IP 54	IP 54	IP 54
Polarity	Negativ	Negativ	Negative
Max. powder output	800 g/ min. 1,76 lb/min.	450 g/ min. 0,99 lb/min.	450 g/ min. 0,99 lb/min.



PEA-C4 HiCoat

Application advantages of PEA-C4 HiCoat guns

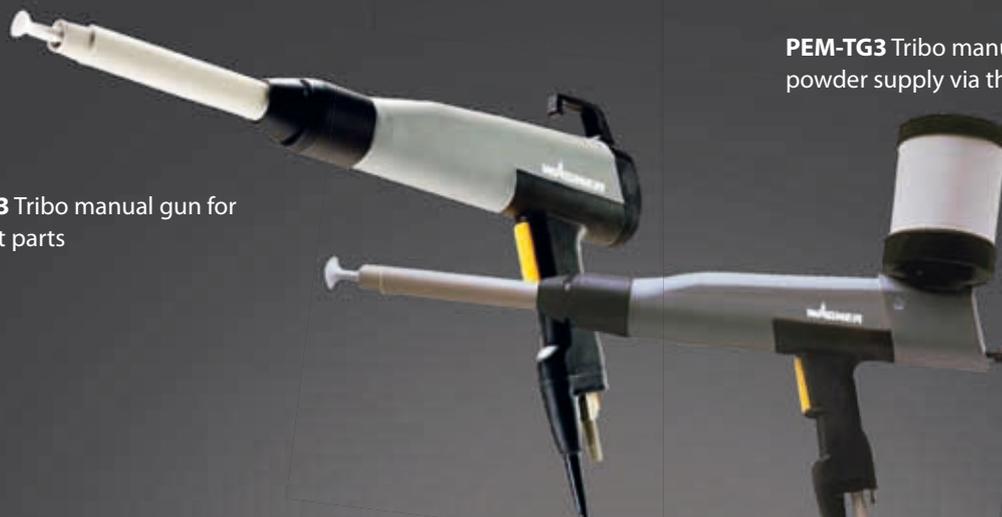
- Increased transfer rates (application efficiency) in combination with an optimized electrostatic for higher profitability.
- Process optimized FlexNozzle flat jet atomizing system for the widest variety of coating demands in practical applications.
- Homogenized and soft powder cloud for more uniform film thicknesses and optimized deposition of powder on the work-piece. Advantageous for applications that require long hose lengths.
- High quality application with metallic and special effects powder including UDS powder paints.
- Infinite jet spray control for a perfect adjustment to all surface contours.
- Newly developed round jet nozzle system with oval and soft powder cloud.

Tribo - Proven technology for outstanding results

Tribo manual guns:

PEM-T3 Tribo manual gun for difficult parts

PEM-TG3 Tribo manual gun with integrated powder supply via the attached powder cup.



Gun technology

Tribo Coating

SPECIAL CHARACTERISTICS

- Light weight gun allows long and fatigue-free working.
- Low maintenance costs on wear parts including the charge body. Single parts can be exchanged separately according to their wearing.
- Flexible for all coating tasks as round and flat jet nozzles are included.
- Easy cleaning and maintenance due to the linear powder duct and easily cleaned gun geometry.
- Additional Tribo air entrance for the handling of powder with poor charging properties.

T3 manual guns

PEM-T3 & PEM-TG3

- Ergonomic shape
- Flexible
- High application efficiency

Technical data	PEM-T3	PEM-TG3
Length	500 mm	500 mm
Weight	590 g	890 g
Build	according to ATEX regulation 94/9/EG, EN 50050	
Enclosure Class	IP 54	IP 54
Polarity	Positive	Positive
Max. powder output	200 g/ min. 0,44 lb/min.	150 g/ min. 0,33 lb/min.

Tribo automatic guns:

The **PEA-T3 XL** powder gun is particularly suitable for the use in plastic booth and available as Tribo and electrostatic version.



T3 automatic guns

PEA-T3 & PEA-T3 XL

- Flexible application possibilities
- User friendly
- Optimal geometry

Technical data	PEA-T3	PEA-T3 XL
Length	480 mm	1.048 mm
Weight	900 g	1.620 g
Build	according to ATEX regulation 94/9/EG	
Enclosure Class	IP 54	IP 54
Polarity	Positive	Positive
Max. powder output	300 g/ min. 0,66 lb/min.	300 g/ min. 0,66 lb/min.

The **PEA-T3** Tribo automatic gun for universal applications, with integrated gun holder.

Tribo automatic spray guns

The guns are available in different lengths. Color changes can be carried out quickly.

■ Maximum application efficiency

The usage of high performance cascades allows a maximum application efficiency and therefore reduced powder consumption.

■ Flexible fields of application

The large range of different nozzles enlarges the field of application of the WAGNER automatic guns.

■ Fast nozzle change

The WAGNER quick lock system provides a secure hold of the gun and enables fast nozzle changes.



Powder cup laboratory set Sprint-C

The PEM-CG4 powder gun is the perfect device for the coating of individual parts and very small quantities, as well as for laboratory and development purposes. No containers or boxes are required due to the integrated powder cup. The WAGNER accessory program offers a large selection of cup sizes and nozzle systems.

The EPG SPRINT control unit offers extensive settings and allows storing of more than 50 coating programs. Individual settings for different parts can be stored to guarantee fast and easy coating with highest reproducibility.



Manual Unit

PrimaSprint

PrimaSprint, WAGNER's new manual powder system, combines attractive design and superior functionality. Easy handling and exceptional coating results are achieved by the electronic controller EPG-Sprint. Its central dynamic control dial combines the operation of all parameters, which are divided into four functional sections. Unique cascade characteristic curve settings, for instance and Tribo compatibility offer the greatest flexibility for all types of powder.



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BASIC UNITS

Description	Corona Guns	Tribo Guns	
Basic Units			
	Corona manual gun PEM C4 Ergo	2305069	-
	Corona manual gun PEM-CG4	390003	-
	Corona automatic gun PEA-C4 Twin	390010	-
	Corona automatic gun PEA-C4XL 1.1	390006	-
	Corona automatic gun PEA-C4XL 1.4	390007	-
	Corona automatic gun PEA-C4XL 1.8	390008	-
	Corona automatic gun PEA-C4	390004	-
	Tribo manual gun PEM-T3	-	351019
	Tribo manual gun PEM-T3 DDF	-	351043
	Tribo manual gun PEM-CG3	-	351036
	Tribo automatic gun PEA-T3	-	351018
	Tribo automatic gun PEA-T3XL 1.1	-	351030
	Tribo automatic gun PEA-T3XL 1.4	-	351029
	Tribo automatic gun PEA-T3XL 1.8	-	351032

ACCESSORY

Description	Corona Guns	Tribo Guns	
Powder hoses - Manual and automatic application systems			
	Powder hose conductive d8		351798
	Powder hose conductive d9		351794
	Powder hose conductive d10		2310699
	Powder hose conductive d11		2307502
	Powder hose conductive d12		2310700
Nozzel Accessory - Manual and automatic application systems			
	Nozzel F1	390324 *	-
	Nozzel F2	390325 *	-
	Nozzel F3	390326 *	-
	Nozzel F4	2311889 *	-
	Deflector cone D20	390207 *	-
	Deflector cone D28	390208 *	-
	Deflector cone D38	390209 *	-
	Fan tip packaged	-	260926 *
Accessory - Manual and automatic application systems			
	Electrode holder for fan spray nozzles for C4 guns	390915 *	-
	Electrode holder for round spray nozzles for C4 guns	390916 *	-
	Protective wedge C4	390310 *	-
	Wedgetool including 20 wedges	390900 *	-
	CoronaStar for C4 guns	390918	-
Accessory - Manual application systems			
	Extension 150 mm	2308703	-
	Extension 300 mm	390977	-
	Extension 500 mm	2301006	-
	Deflector cone Tribo Ø22 mm	-	259474 *
	Deflector cone Tribo Ø28 mm	-	259475 *
	Nozzel extension 300 mm	-	260934
	Powder cup 220 CM ³		241117
	Powder cup 500 CM ³		3050701
	Powder cup 900 CM ³		3053662

ACCESSORIES

Description		Corona Guns	Tribo Guns
Nozzle Accessory - Manual application systems			
	Finger nozzle, 10 fingers	-	260638
	Finger nozzle, 10 fingers, crossed	-	260641
	Finger nozzle, 16 fingers	-	260637
	Finger nozzle, 16 fingers, crossed	-	260642
	Adapter, 10-fingers	-	260639
	Adapter, 16-fingers	-	260648
	Powder shower	-	260504 *
	Round nozzle Ø 2,3mm	-	260505
	Nozzle Ø 8mm	-	260519
	Nozzle Ø 10mm	-	260518
Retrofit sets - Manual application systems			
	Retrofit set, PEM-C2 to PEM-C4 round spray	390929	-
	Retrofit set, PEM-C2 to PEA-C4 fan spray	390928	-
	Retrofit set, PEM-C3 to PEM-C4 round spray	390920	-
	Retrofit set, PEM-C3 to PEA-C4 fan spray	390903	-
Service Accessory - Automatic application systems			
	Powder measurement bag C4	390940	-
	Powder measurement bag C3	935517	-
	High voltage tester HV200N	259010	-
	Mounting tool	390939	-
Accessory - Automatic application systems			
	Mini CoronaStar	390957	-
	Electrical cable 5 m	351216	-
	Electrical cable 10 m	351217	-
	Electrical cable 20 m	351215	-
	Deflector conr Tribo Ø18 mm	-	260267 *
	Deflector conr Tribo Ø25 mm	-	260266 *
	Deflector conr Tribo Ø32 mm	-	260268 *
	Fan spray nozzle Tribo	-	260928
	Electrical cable 5 m	-	351297
	Electrical cable 10 m	-	351296
	Electrical cable 20 m	-	351295
Special Accessory - Automatic application systems			
	Angle adapter WA30 C4	390927	-
	Angle adapter WA60 C4	390930	-
	Angle adapter WA90 C4	390931	-
	CoronaStar WA C4	2306335	-
	Angular nozzle 90°	-	260106
	Tribo lance 1700 mm	-	259272
Retrofit sets - Automatic application systems			
	Retrofit set, PEA-C2/C3 to PEA-C4 round spray	390922	-
	Retrofit set, PEA-C2/C3 to PEA-C4 fan spray	390905	-
	Retrofit set, PEA-C2A/C3A to PEA-C4A round spray	390924	-
	Retrofit set, PEA-C2A/C3A to PEA-C4A fan spray	390907	-
	Retrofit set, PEA-C2XL/C3XL to PEA-C4XL round spray	390923	-
	Retrofit set, PEA-C2XL/C3XL to PEA-C4XL fan spray	390906	-
	Retrofit set, PEA-C2 TWIN to PEA-C4 Twin round spray	390925	-
	Retrofit set, PEA-C2 TWIN to PEA-C4 Twin fan spray	390908	-

* Wearing part