

# SAMES Bell Atomizer

Automatic equipments for liquid paint

## PPH 707 SB



PPH 707-SB is a sprayer dedicated to the electrostatic application with internal charge of **solvent based paint**. It is equipped with the **high speed turbine (HVT)** with magnetic bell. "SB" index means that this type of sprayer is dedicated to solvent based paint application. The high speed allows a high rotation (up to 65 000 rpm on charge). PPH 707-SB is dedicated to the Automotive Industry and Tier 1 for solvent based application. Which ever the product may be: primer, base, clear, it can be installed at any stage of an automotive paint line (car body exterior or interior), as well as on Tier 1 paint line (bumpers, car body parts).

## nanobELL

The new Nanobell robotic rotary atomizer is able to spray solvent borne, water borne, single or multi-component materials. With Nanobell, manufacturers of small plastic parts, of the wood industry, of metal parts now have a robotic sprayer which significantly contributes to paint savings. It also improves the finish of their products. Lightweight, Nanobell can easily and advantageously be mounted on smaller robots.



## PPH 308

[ High speed rotary atomizer

### PPH 308 & PPH 308-EXT

The PPH robotic rotary atomizers offer a better atomization of paint particles, a high transfer efficiency as well as ease of adjustments: They will improve productivity of your paint line with a much higher finishing quality. PPH308 sprays solvent or waterborne materials, depending on the version you choose. An external charge (EXT) is dedicated to waterborne materials and can permit a solvent installation to be switched quickly and easily to a waterborne installation.



## *TRP Automatic Gun*

The TRP gun will spray liquid solvent or water based materials available in the automotive and general industrial markets. It provides a perfect finish and superior paint savings. Another feature of the TRP, is its capability for very high flows (up to 1200 cc/mn, in some cases). It is generally implemented on reciprocators or stationary in general industry, and on robots in the automobile industry. TRP is lightweight, compact and usable practically everywhere. Simple in design and construction, it is probably the most reliable and robust piece of equipment of its kind , available on the market place.





SPRAYMIUM® is a lightweight gun, which integrates controls on the back from where the operator can, with one hand, choose among 3 pre-programmed electrical characteristics and from where managing the flow of paint is instantaneous, through an adjusting knob.

## REV 600 Reciprocator



### RFV2000 reciprocator

The RFV 2000 is dedicated for automatic powder and paint installations. It drives vertical reciprocal movements of powder and liquid paint spray equipments.



### Automatic application control of a painting installation

The REV600 and MCR control modules monitor precisely all the parameters of an automatic painting installation. REV600 and MCR are rack-mounted products, designed to be integrated into the FCR modular cabinet.



### Wood

Particularly good for painting window frames, chairs, ...

## Bell Sample Application



### Plastics

Screen frames  
Auto bumpers  
Telephone shells  
Rearview mirrors ...



### Glass

Perfume bottles  
Bottles, ...



### Steel

Any type of part, any type of surface  
Handles,  
Covers, ...



# AUTO-MACH-JET

[ Automatic electrostatic powder coating applicator



**A**uto-mach-jet provides coating performance, ease of cleaning, simplicity, to allow you to increase your productivity and color change even faster!

The applicator Auto-Mach-Jet easily applies all types of powders on all types of parts. Combine it with the new CRN 457 controller, and the package will allow you to better handle your coating parameters, and provide you with one of the best transfer efficiencies available on the market place.

Because of its design, Auto-Mach-Jet can easily and quickly be cleaned, using minimal compressed air to blow it clean, which allows for faster color changes, and an enhanced production throughput. The electric and pneumatic controls are integral with the CRN 457 controller, which makes the system compact.

On its large screen, the adjustments are done following icons instructions that are easy to understand by everybody: the learning is intuitive, and the training of the operator is extremely quick.



## TWO TYPE OF APPLICATOR

There are 2 basic versions of Auto-Mach-Jet:

### • Auto-Mach-Jet



It comes fixed on a metallic support rod and is secured in place by a nut which permits to replace it quickly and easily on existing systems, or to install it on new ones.

### • Auto-Mach-Jet FCC\*



This version is dedicated to fast color change booths (PVV Easycolor). The profiled assembly is designed for a cleaning in a short time frame. The rear section of the applicator is screwed on the support rod, which is of the same diameter as the gun. Having the same diameter all along makes the cleaning fast and complete. The rod also routes the electrical, air, and powder liaisons directly and cleanly to the back of the gun.

\*FCC : Fast Color Change

## CUSTOMER BENEFITS

### Auto-Mach-Jet applicator

The Auto-Mach-Jet can be used for all industrial applications, on parts of all shapes:

- Metallic furniture • Profiles • Bikes and motor-bikes
- Railway equipment • agricultural equipment
- Fencing, railings and gates
- Glassware
- Automobile wheel rims • penetrant testing • wood, MDF

### Main features

- :: High transfer efficiency
- :: Easy maintenance, the gun is easy to dismantle
- :: Q/D on powder connection (option)
- :: High resistance to shocks
- :: Large choice of nozzles
- :: Quick disconnect counter electrode
- :: Improved finish

## Electrostatic Efficiency

:: The controller provides accurate and fine setting of high voltage (KV) and current (microAmps): by adapting easily these parameters to the site conditions (parts shape, target distance, powder flow), the Auto-Mach-jet + CRN 457 package will allow you to improve on powder penetration into complex parts, on wraparound when needed, on touching up or re-coating parts, to ultimately always offer you the best finished product.

:: When pushed to high powder throughputs (>20 kg/h), the applicator still delivers its charging of the powder is maintained, the transfer efficiency is excellent because of the high power of its electrical characteristics.



## Batching management

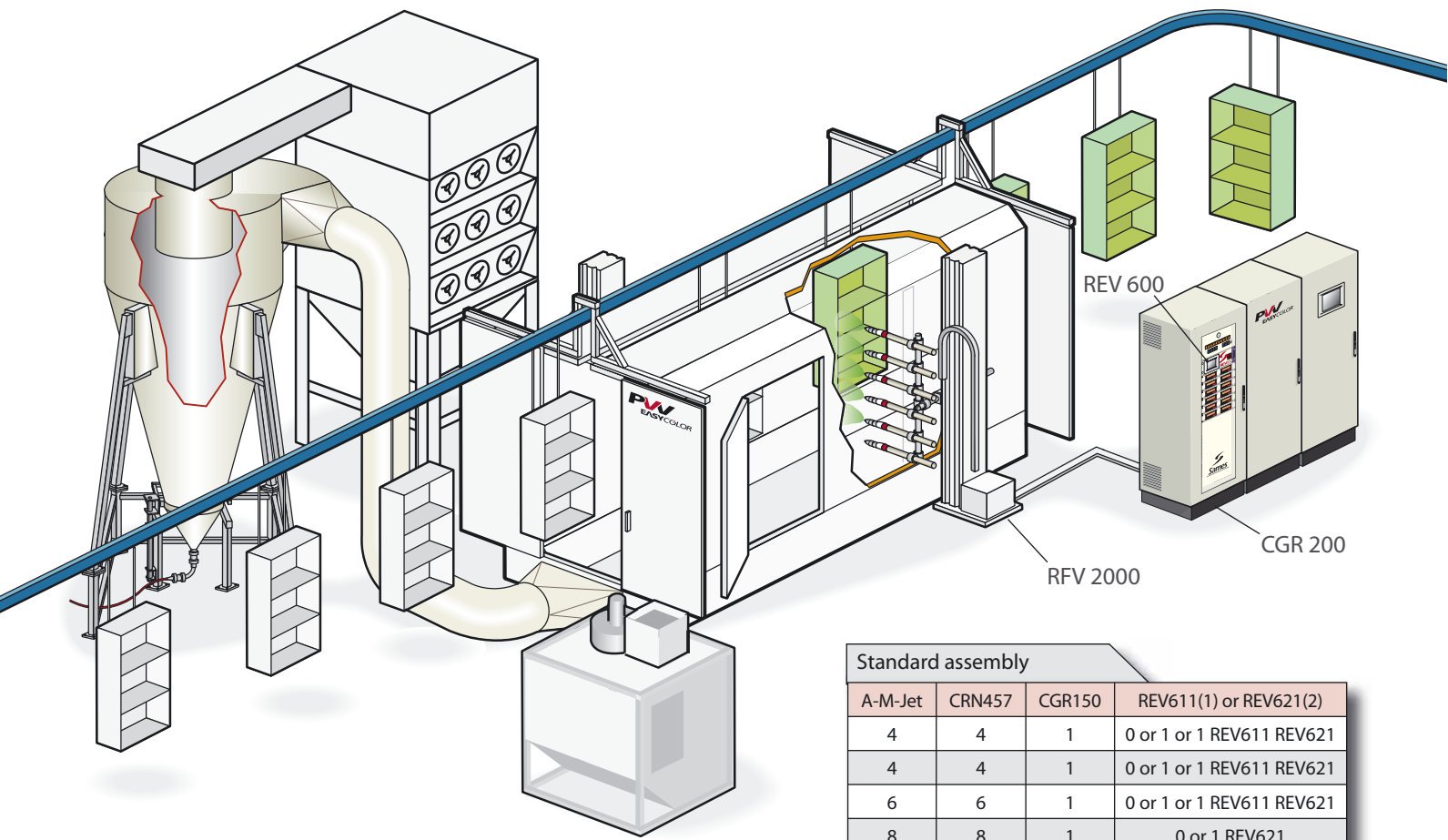
:: While in manual mode, the controller can store up to 9 spray tables, without the need for a PLC. Big time and money saviour for production management.

## Maximum safety

:: The applicator meets the requirements of:  
- EN50050/2001  
- CE, ATEX

:: 5 electrical pre-set settings, adjustable by the operator:  
• round spray  
• flat spray  
• re-coating  
• metallics  
• counter electrode





**Adapts to industrial needs**

:: Sprays metallic powders easily with the standard nozzle.

:: New nozzles with an excellent homogeneity of the pattern:

- Can be used for all kinds of applications
- Compact, robust and lightweight
- Do not build up powder
- Option: A swivel nozzle may be installed (see next page)

:: Nozzles are highly resistant to abrasion.

:: The profiled design of the gun permits to blow it clean easily for automatic color changes.

**Management of the powder flow**

:: The CRN 457 controller handles the air supply to the powder pump. By which the hose length and the mains air pressure do not affect the powder output. This results in a very regular level of quality as powder thickness is perfectly controlled.

:: The digital management of the powder flows permits to make the adjustments simpler, thus ensuring the repetitivity of your results.

Standard assembly

A-M-Jet	CRN457	CGR150	REV611(1) or REV621(2)
4	4	1	0 or 1 or 1 REV611 REV621
4	4	1	0 or 1 or 1 REV611 REV621
6	6	1	0 or 1 or 1 REV611 REV621
8	8	1	0 or 1 REV621
10	10	1	0 or 1 REV621
12	12	1	0 or 1 REV621

(1): REV611 = 1 REV600 + 1 RFV2000 reciprocator

(2): REV621 = 1 REV600 + 2 RFV2000 reciprocator



## TECHNICAL DATA

### Applicator, Auto-Mach-Jet

- Gun weight (w/o hoses): approx. 850 gr
- Powder throughput (Dia. 11 mm ID hose): Up to 24 kg/h
- LV cable to CRN 457: lg 18 m/30 m
- Max output KV: 95 kV
- Max output current: 110 MicroAmps.

### CRN 457 controller

#### Dimensions

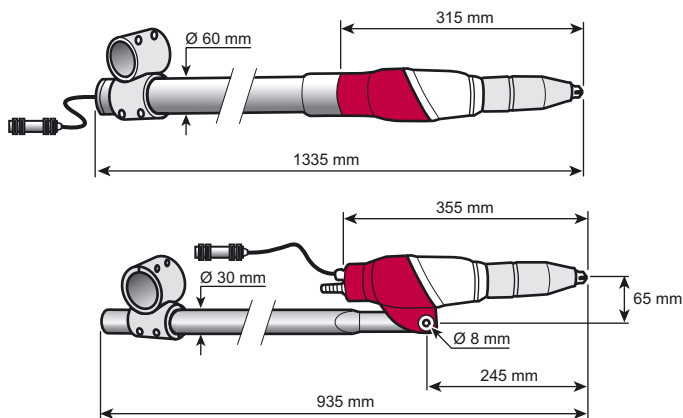
- In a rack: 19"/ 2U (2 modules on front face)

#### Pneumatics

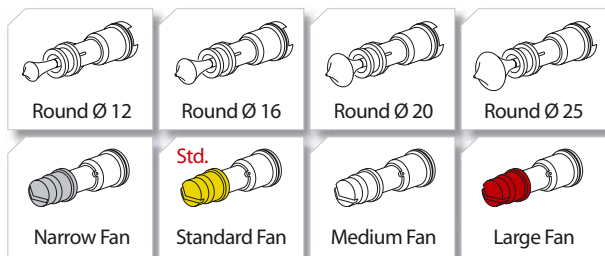
- Max air inlet pressure: 8 bar (150 psi)
- Mini air inlet pressure: 5.5 bar (82.5 psi)
- Max air flow: 8 Nm<sup>3</sup>/h

#### Electrical

- Max output voltage: 40 V rms
- Max output current: 110 mA rms
- Power supply: 90 to 270 V
- Single phase: 50/60 Hz
- Max power: 60 VA
- Dustproof rating: IP 54



### Large range of nozzles:



SAMES Technologies  
 13, chemin de Malacher Z.I.R.S.T. - B.P. 86  
 38243 Meylan cedex - France  
 Ph. +33 (0)4 76 41 60 60 - Fax. +33 (0)4 76 41 60 90  
[www.sames.com](http://www.sames.com)

## OPTIONS AVAILABLE



Swivel nozzle

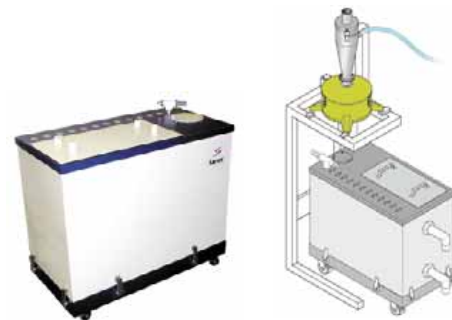


Counter electrode



Q/D on powder connection

The grounded counter-electrode attracts almost all free ions from the electric field, thus permitting to prevent Faraday cage and orange peel. This device improves the finish.



CSV 600



12 Auto-Mach-Jet applicators max per CGR 150 stack