



# inoBell

Powder Bell Technology

## High performance powder bell sprayer

To meet the requirements of companies looking to improve paint savings, SAMES has designed Inobell, the brand new electrostatic powder bell, with high performance, high quality finish and easy integration. It allows the application of powder paint on all types of surfaces with a particular effectiveness on flat surfaces.

### CUSTOMER BENEFITS



#### :: High transfer efficiency

##### ▶ Powder savings

- 15 to 20% efficiency over an automatic gun.



#### :: Quality of application

##### ▶ Best finish and higher productivity

- regularity of film build-up,
- a counter electrode to avoid orange peel,
- large and adjustable impact distance



#### :: Fast and easy to install

##### ▶ Saving time



#### :: Easier maintenance

##### ▶ Simple to use and economical





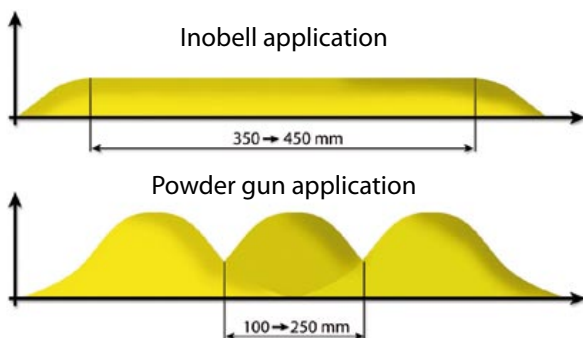
## APPLICATION SCOPE

The technology used with Inobell: A rotating electrode associated with a counter electrode allows maximum powder charge. Performance is naturally higher on large flat surfaces. Inobell is particularly suited to the following industrial sectors:

- Pre-lacquered sheet «Coil coating»
- Application on flat conveyor,
- Contours,
- Metallic furniture,
- Wood furniture, MDF,
- Metallic panels, suspended ceilings,
- Radiators,
- Fencing, gates,
- Automotive: wheels...
- And more generally on all types of flat surfaces.

### :: Excellent regularity of film build-up:

The quality of finish meets the most stringent and tight D.O.I. (Distinctiveness of image).



## TECHNOLOGICAL INNOVATIONS

### :: Integrated High Voltage Unit (UHT165)

- No high voltage cable:
- Less maintenance,
- Easier installation,
- Staff safety.



### :: New removable cartridge turbine:

- Integrated and variable shaping air (with the proportional adjustment control on TCR module),
- Removable bell cup,
- Improved protection level,
- Improved motor efficiency.



### :: Simplified Design:

- Number of parts reduced,
- Access and wiring improved,
- Equipment light and easy to install,
- Compact and ergonomic.

### :: New system for measuring speed:

- More precise adjustments.

### :: Maintenance practical and easy:

- Simple and economical.



### :: Adjustable air shroud:

Allows a rapid and marked variation in cloud size. Control of the jet can adjust the width of the cloud being implemented, proportionally.





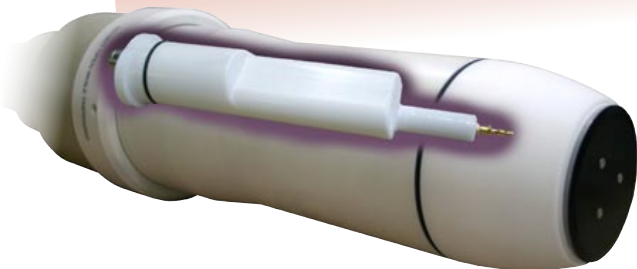
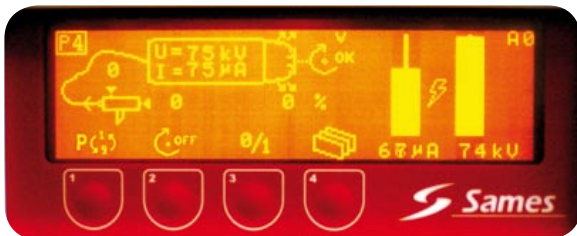
## SINGLE CONTROL MODULE

- Single module to control everything,
  - memory parameters,
  - clear and visual user interface,
  - use accessible and friendly
  - adjustment of all functions on the screen,
  - simplified settings of powder flow rate,
  - air shroud setting (variable cloud size),
  - preset rotation turbine and enslaved,
  - 9 spray presets.
- **2 modes of operation possible:**
    - Local mode (screen and / or driven triggers wired)
    - Remote mode (monitoring by serial link).
- **Easy to implement wiring.**
- **Easier integration:**
    - Standard size 19"- 2U,
    - Complete package and ready to integrate,
    - Operator presets,
    - Simplified cabling between module and sprayer.

## POSSIBILITY OF COMBINING BELLS AND GUNS

**Inobell** sprayer is the ideal supplement of the classic automatic powder guns such as Auto-Mach-Jet. Inobell is designed to guarantee highest finishing quality with higher yields, the guns ensure penetration into the deeper recesses.

Several TCR modules may take place in a FCR standard cabinet along with other modules for a mixed installation of powder sprayers.



### «High Flow Rate» Kit

#### :: High flow rates and reduced equipment:

A powder bell can replace two guns as it can apply efficiently powder flow rate of up to 30 kg / h.

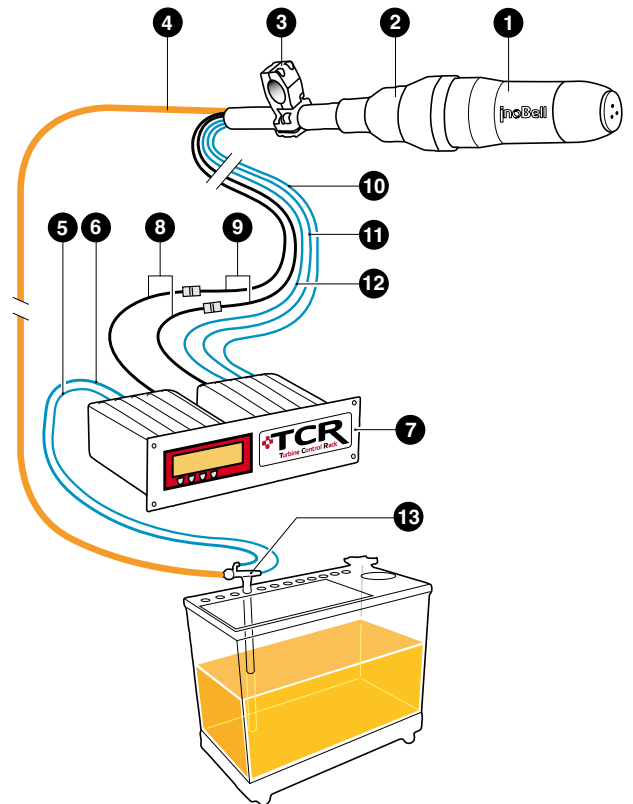
**Reference: 910 003 361**

To learn more, contact your Sames specialist.

## EQUIPMENT READY FOR INTEGRATION

**inoBell**

Item	Qt	Designation	Reference
<b>Powder bell and TCR module set</b>			<b>910 008 096</b>
1	1	Powder bell turbine Inobell (alone)	910 007 600
2	1	Special support arm	900 004 036
3	1	Fixing nut Ø 50/60 mm	1 204 441
4	1	Hose Ø 12/17 mm gray opaque, (15 m)	U1F GBA 034
option		Hose Ø 11/15 mm Colorless	U1F GBA 092
option		Hose Ø 13/18 mm green	U1F GBA 226
5	1	Injection air (Ø 6 / 8 mm), (15 m)	U1C BBT 003
6	1	Dilution air (Ø 4 / 6 mm), (15 m)	U1C BBT 001
7	1	TCR control module	900 005 533
8	1	Cable steering of high voltage and speed sensor, lg. 2 x 2 m	910 007 567
9	2	Extension TCR / Inobell, (15m)	110 000 972
10	1	Rotating air (Ø 5.5 / 8 mm), (15m)	U1G LBT 142
11	1	Shroud air (Ø 5.5 / 8 mm), (15 m)	U1G LBT 142
12	1	Bearings protection air (Ø 5.5 / 8 mm), (15m)	U1G LBT 142
13	1	Powder pump CS127	1 526 400



## TECHNICALS SPECIFICATIONS

### INOPELL Powder bell Sprayer

Weight (without hoses):	3,6 kg
Max powder flow rate (ø12 hose):	up to 30 kg/h
Low-voltage cable:	15 or 30 m
Maximum output voltage:	75 kV
Max output:	100 µA
Pre-set rotation speed:	7500 tr/min
<i>(V<sub>mini</sub> = 6500 et V<sub>max</sub> = 8500 tr/min)</i>	
Airflow shroud:	0 to 80 NI/min
<i>(proportional to 0 to 100%)</i>	
Bearings protection airflow:	60 NI/min
Turbine rotation airflow:	40 NI/min
<i>(at steady speed)</i>	
<i>(transitional arrangements)</i>	100 NI/min

This equipment is under ATEX certification Ex <350mJ

[www.inobell.com](http://www.inobell.com)

**SAMES Technologies**  
 13, chemin de Malacher - Inovalée - B.P. 86  
 38243 Meylan - France  
 Tél. +33 (0)4 76 41 60 60 - Fax. +33 (0)4 76 41 60 90  
**www.sames.com**

### TCR Control Module

#### Dimensions

Rack : 19" / 2U

#### Pneumatic

Air pressure: 6 bar min / max 8 bar

Max air consumption:

Standard 350 NI/min

**with High flow rate kit (option) 380 NI/min**

#### Electrical

Power supply: 90 to 270 V AC

Frequency: 50/60 Hz

Maximum power: 90 V.A