

Equipment

Designation	Part number
NANOBELL 803 - Straight Version Internal Charge Water-Borne	910030961
NANOBELL 803 - Straight Version Solvent-Borne High Resistivity	910029588
NANOBELL 803 - Straight Version Solvent-Borne Low Resistivity	910030960
NANOBELL 803 - Straight Version Solvent-Borne High Resistivity - 2K	910032175
NANOBELL 803 - Straight Version Solvent-Borne Low Resistivity - 2K	910032388
NANOBELL 803 - Straight Version Internal Charge Water-Borne - 2K	910032176

Accessories

Designation	Part number
EX65 Bell Cup Tool	1204427
EC50 Bell Cup Tool	900000803
Trapezoidal tool for clipped fittings	900002665
EC35 Bell Cup Tool	900005784
Installation / Removal tool for T8 outer cover	900017715
Installation / Removal tool for Nano 5 Valves	900019557
Installation / Removal tool for body	900019642
Installation / Removal tool for Low Voltage Connection	900019783
Removal tool for injector	910000700

Spare Parts

Designation	Part number
50 NW Air shroud	900018225
35 NW Air shroud	900018351
65 NW Air shroud	900018362
BELL CUP EC35 Aluminum	910000636
BELL CUP EC50 Aluminum	910003159
BELL CUP EX65 Aluminum	910004615
BELL CUP EC50 Titanium	910008756
BELL CUP EX65 Titanium	910009383
BELL CUP EC35 Titanium	910011188
O-Ring Kit for T8 Exterior Flange	910027917
O-Ring Kit for T8 Interior Flange	910027918
O-Ring Kit for T8 Air Motor front face	910028462
High Voltage Unit - HVU 810	910028548
Nano 5 Valve	910029032
O-Ring Kit for body (QD Plate Side)	910031012
O-Ring Kit for body (Air Motor Side)	910031013




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Nanobell 803

Automatic Electrostatic Rotary Bell Atomizer

Electrostatic / Automatic Bells

THE INDUSTRIAL ELECTROSTATIC ROTARY BELL ATOMIZER!

-  **General Industry Premium Finishing**
-  **High Transfer Efficiency**
-  **Easy to Integrate, Operate and Maintain**

Markets





Nanobell 803

Automatic Electrostatic Rotary Bell Atomizer

The Nanobell 803 is a world-class electrostatic rotary bell atomizer designed for applying solvent or water-based coatings with internal/direct charge for General Industrial markets.

General Industry Premium Finishing - Finest and most uniform atomization

Sames has more than 50 years of experience and knowledge in bell spraying technology. The Nanobell 803 allows full control of droplet sizes for constant patterns and smooth appearances. In addition, the patented NW (Narrow to Wide) air shrouds improve and refine the application. The straight and vortex air combination is fully adjustable for a variable pattern size to fit the shape of the part.

High Transfer Efficiency - Huge Paint Savings

Power is nothing without control! This is the reason why our GNM300 Control Module is perfectly managing the high voltage performances to generate an outstanding wrap-around effect. In parallel, our Bell Speed Controller, BSC300, flawlessly regulates the speed of the air motor for the best centrifugal effect drastically reducing overspray.

As a result, the Transfer Efficiency is up to 40% higher than any Airspray Automatic gun with huge paint savings.

Easy to integrate, operate and maintain - Peace of mind

The NANOBELL 803 is so easy to operate that no specific skills are required to manage the few parameters controlling the atomizer. The components of the NANOBELL 803 are so robust that the number of wear parts is very limited providing easy maintenance. Easy to integrate, the NANOBELL 803 is ATEX Certified in Category 2 for an installation in Zone 1 with limited and simple safety procedures and devices.



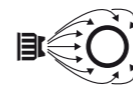
Technical data table

Designation	Value	Unit: metric (US)
Maximum Material Pressure	10 (145)	bar (psi)
Standard Material Supply Pressure	6-8 (87-116)	bar (psi)
Maximum Paint Flow	800 (0.21)	cc/min (gal/min)
Standard Paint Flow	400 (0.1)	cc/min (gal/min)
Minimum Paint Flow	30 (0.008)	cc/min (gal/min)
Maximum Air Pressure	7 (101)	bar (psi)
Weight	3.5 (7.7)	kg (oz)
Shaping Air Consumption (min-max)	200-900	NI/min
Bearing Air Consumption	125	NI/min
Pilot Air Consumption	10	NI/min
Rotation Speed	65 000	rpm
Voltage Max	80	kV
Current Max	100	µA
Viscosity Scale (min-max) (seconds FORD Cup#4)	12 - 40	s
ATEX Certification	II 2 G 350 mJ < Ex < 2J	
High Voltage Unit	HVU 810	
High Voltage Control Module	GNM300: II (2) G [350 mJ < Ex < 2J]	

sames nanocoat



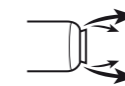
Technologies



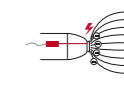
Electrostatic



High Speed Turbine



Hi-TE



Internal Charge



Magnetic Cup



Description

Performance

- 1 Patented NW (Narrow to Wide) air shrouds for unsurpassed transfer efficiency
- 2 Renowned range of high-speed magnetic bell cups for uniform atomization
- 3 High Voltage Unit properly scaled and controlled for outstanding wrap-around effect
- 4 Brand new air motor T8 for High Rotation Speed allowing fine atomization

Productivity

- 4 The T8 air motor provides constant production with accurate flow and paint applications
- 5 Optimized fluid circuits for incomparable application efficiency
- 6 Simple spray head for easy operation without specific skills
- 7 Lightweight and compact to fit on smaller systems and robots to keep productivity at its best.

Sustainability

- 7 Soft body (free of notches & slots for paint) that is fast and easy to clean for improved maintenance
- 8 Integrated 3D print technology for rigidity and robust operation
- 9 Newly patented Nano5 valves are highly durable
- 10 Patented magnetic fixing of bell cups ensures easy, fast, and safe installations

