



## Equipment

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

## NANOELL 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

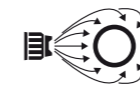
# NANOBELL 803

## 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.



## Technologies



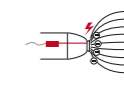
Electrostatic



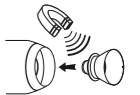
High Speed Turbine



Hi-TE



Internal Charge



Magnetic Cup

### General Industry Premium Finishing - Finest and most uniform atomization

SAMES KREMLIN 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] |                   |

### 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

## Description

