NANOBELL 801
Non-electrostatic rotary bell atomizer

Electrostatic / Robotic Bells

BREAKTHROUGH IN ROTARY BELL SOLUTIONS: THE AUTOMOTIVE HIGH FINISHING FOR ALL

- Premium Finishing Application
- High Transfer Efficiency - Low Overspray
- Safe & Easy Installation - No High Voltage

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NANOBELL 801

Non-electrostatic rotary bell atomizer
SAMES KREMLIN has designed its first non-electrostatic rotary bell atomizer to meet the need of high finishing applications allowing paint savings at a reduced investment. NANOBELL 801 combines Airspray and Rotary Bell technologies to offer all the benefits of rotary bell atomization to non-electro applications at an enhanced production speed with easier set-up and operation.

Technical data table

<table>
<thead>
<tr>
<th>Designation</th>
<th>Value</th>
<th>Unit: metric (US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3.3 (6.7)</td>
<td>kg (lbs)</td>
</tr>
<tr>
<td>Viscosity Scale (min-max)</td>
<td>20-40</td>
<td>seconds FORD Cup#4</td>
</tr>
<tr>
<td>Standard Material Supply Pressure</td>
<td>6-8 (87-116)</td>
<td>bar (psi)</td>
</tr>
<tr>
<td>Maximum Material Pressure</td>
<td>10 (145)</td>
<td>bar (psi)</td>
</tr>
<tr>
<td>Minimum Paint Flow</td>
<td>30 (0.008)</td>
<td>cc/min (gal/min)</td>
</tr>
<tr>
<td>Standard Paint Flow</td>
<td>400 (0.1)</td>
<td>cc/min (gal/min)</td>
</tr>
<tr>
<td>Maximum Paint Flow</td>
<td>800 (0.21)</td>
<td>cc/min (gal/min)</td>
</tr>
<tr>
<td>Shaping Air Consumption (min-max)</td>
<td>200-900</td>
<td>Nl/min</td>
</tr>
<tr>
<td>Bearing Air Consumption</td>
<td>125</td>
<td>Nl/min</td>
</tr>
<tr>
<td>Pilot Air Consumption</td>
<td>10</td>
<td>Nl/min</td>
</tr>
<tr>
<td>Maximum Air Pressure</td>
<td>7 (101)</td>
<td>bar (psi)</td>
</tr>
<tr>
<td>Rotation Speed</td>
<td>≤5 900</td>
<td>rpm</td>
</tr>
<tr>
<td>ATEX Certification</td>
<td>2.3.2.1 (EX)</td>
<td></td>
</tr>
</tbody>
</table>

Premium Finishing Application
Renowned range of magnetic bell cups associated with NW (Narrow to Wide) air shroud from the unsurpassed expertise of SAMES KREMLIN in Automotive industry allows taking advantage of the highest application quality.

High Transfer Efficiency - Low Overspray
SAMES KREMLIN bell-spraying technology increases the transfer efficiency allowing huge savings (up to 30%) in Paint Consumption compared to conventional Airspray gun.

Safe & Easy Installation - No HighVoltage
The non-electrostatic aspect brings a Safe & Easy Concept for integration, operation and maintenance whatever the material sprayed; either solvent-based, water-based, 1K or 2K paint and even on low payload robots.

To adapt to any kind of application, 3 bell cups sizes are available:

- EC35 NW variable pattern from very narrow to small pattern
- EC50 NW variable pattern from narrow to large pattern
- EX65 NW variable pattern from narrow to large pattern & fine atomization

Performance
1. High bell speed rotation up to 65 000 RPM at various flowrates for fine atomization
2. Patented Hi-TE Technology combining straight and vortex air for unsurpassed transfer efficiency
   ♦ Fast trigger response and minimal paint loss due to the proximity of trigger valve

Productivity
3. Narrow Wide air shroud (NW) allowing fast & flexible pattern to fit complex-shaped parts to paint
4. Lightweight & compact design suits all painting robots, full or hollow wrist even with low payload
   ♦ Complete range of magnetic bell cups for full bell/bell processes
   ♦ Easy controlling with BSC 300 bell speed controller offering remote monitoring

Sustainability
5. Patented magnetic fixing of bell cups ensuring easy, safe, and fast installation
   ♦ High reliability of all components to maintain production uptime (valves lasting 3 million cycles, long-life air motor, robust fittings and magnetic bell cups)
   ♦ Bell cups available in Aluminum as Standard with a Titanium option offering extended lifetime

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