

Aerobell 33™ Rotary Atomizer



State of the Art Electrostatic Applicator

Innovative engineering that responds to the changing needs of the market is the trademark of ITW Ransburg and the new AEROBELL 33™ rotary bell paint applicator is no exception. AEROBELL 33 is the obvious choice for new state of the art systems as well as ideal for upgrading the safety and performance of existing electrostatic bell installations. The critical component in all electrostatic finishing systems, upon which their operating safety and performance depend, is the paint applicator. The ITW Ransburg AEROBELL 33 represents the latest and best in rotary applicator technology by incorporating the following beneficial features.

The Ultimate in Operating Safety

- When used in combination with the ITW Ransburg Voltage Master™ and MicroPak™ Power Supplies and LEPS5000-05 Junction Tank, AEROBELL 33 meets Factory Mutual (FM) standards for electrostatic finishing equipment. This approval meets the definition of listed equipment in NFPA Bulletin 33 "Spray Applications Using Flammable and Combustible Materials".

Transfer Efficiency and Coverage

- Patented high voltage circuit ensures optimum charging of the atomized coating regardless of its electrical conductivity.
- Safety circuitry allows maximum flexibility in head-to-target distance for best efficiency and part coverage.
- Continuous sheet of shaping air from unique circular slot provides improved pattern control and coating penetration into recessed areas.
- Higher paint transfer efficiency than any FM approved electrostatic bell system.

Atomization and Quality

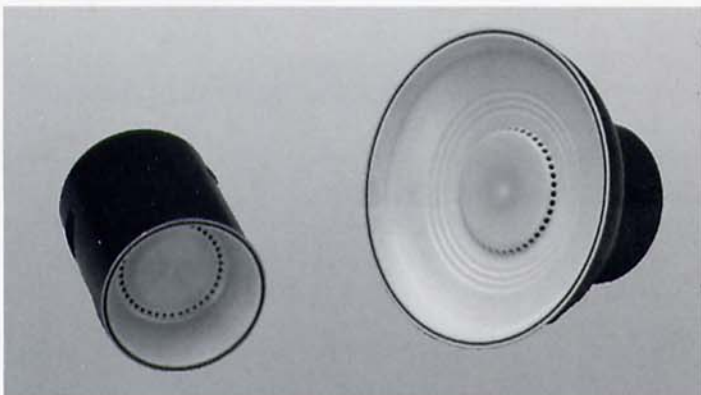
- Patented serrated edge, step-3 bell cup design eliminates air entrapment and provides smaller, more uniform paint particles.
- Bell cup rotates up to 55,000 RPM to achieve optimum atomization of a wide variety of coating materials.
- Choice of bell cup diameters to match part size and configuration.

Reliability and Unique Warranty

- The bell cup is constructed of an engineered thermoplastic, combining improved operating safety and longer service life even when applying corrosive or erosive paints.
- The air bearing cushioned turbine avoids metal-to-metal contact and provides long service life and reliability backed by an exclusive 15,000 hour/3-year warranty.

Available Options

- PulseTrack™ Rotator Speed Monitor and Control utilizes a unique magnetic signal generator with durable fiberoptic cable to monitor and control turbine speed in up to 5 applicators and ensure atomization quality.
- ITW Ransburg's Modular Color Change System utilizes expandable valve manifold blocks designed for quick automatic or manually controlled color changes with a wide variety of coating materials.
- The Flow Totalizer™ from ITW Ransburg provides an easy and accurate means of monitoring fluid flow rates and material usage. You can monitor the total amount of coating material used per month, per week, per day, or by color. The Totalizer helps supply usage information for environmental agencies.
- Choice of 57mm step-3 design or 30mm diameter bell cup, both constructed of engineered plastic materials covered with a proprietary semiconductive coating for optimum electrostatic charging, allows matching of spray pattern with part configuration, size and line speed.



ITW Ransburg

Electrostatic Systems

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Flexibility and Ease of Use

- Handles all of today's paints, including waterborne and even 100% solids (solvent free) materials.
- Center feed fluid delivery provides fast bell cleaning and quick color changes.
- Turbine air exhausts behind bell to prevent paint build-up and to help keep the outer surface of the bell clean during normal spraying and flush cycles.
- All external components are constructed of solvent resistant, engineered materials to ensure mechanical strength, easy cleaning and safer operation.
- AEROBELL 33 is also the answer to upgrading your existing bell installation to enhance its safety and performance.

Specifications

Turbine Speed:	(Continuous/Intermittent) 40,000/55,000 rpm
Turbine Type:	Air Bearing Impulse Drive
Weight:	10.3 lbs.
Length:	16.4" overall (not including support rod)
Diameter:	5.6"
AIR PRESSURE	
Turbine Air:	10-60 psi max., 3-15 scfm
Shaping Air:	60 psi max., 24 scfm Normal 5-15 psi, 4-8 scfm
Bearing Air:	90 psi nominal, 2.4 scfm
Brake Air:	60 psi nominal
Fluid Pressure:	100 psi max.
Fluid Flow Rate:	25-500 cc/min.
Spray Pattern Size:	Adjustable to 30"
Rotator Assembly	
Quick Change Time:	Less than (2) minutes
Bell Change Time:	Less than (2) minutes
Bell Cleaning Time:	(2) to (3) seconds approximately (Solvent Flush)
Color Change Time:	Dependent on system configuration, fluid pressures, line lengths, etc.
Speed Readout:	Magnetic pickup, uni-directional fiberoptic transmission



Form IL-8302-A Litho U.S.A. 07/99-2M
Models and specifications subject to change without notice.
Patents issued and pending in the United States Patent and Trademark Office.