RANSBURG ELECTROSTATIC GUNS: From The World Leader In Electrostatic Innovation

Ransburg invented the electrostatic finishing process over 60 years ago, and the industry has embraced the benefits electrostatic systems have provided. Generations after generations of Ransburg guns have yielded improvements that make the case for electrostatic spray technology more compelling for companies seeking higher efficiency and quality.

**RANSBURG ELECTROSTATIC GUNS DELIVER WORLD CLASS PERFORMANCE**

The Electrostatic Process

The aim of the electrostatic process is to get as much coating material on the part as possible and eliminate wasteful overspray. This is achieved by negatively charging atomized paint particles so that they are attracted to the grounded workpiece...opposites attract.

A charging electrode is located at the tip of the electrostatic spray gun. The paint is atomized as it moves past the electrode and it’s particles become ionized – negatively charged. An electrostatic field is created between the charging electrode and the grounded workpiece, and the spray is concentrated within.

Further atomization is achieved as charged particles repel each other to form a fine cloud. As a result of electrostatic attraction, spray that would normally be lost, attracts to the back and sides of the workpiece to produce “wrap-around”.

**TRANSFER EFFICIENCY**

<table>
<thead>
<tr>
<th>Process</th>
<th>Transfer Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic Air-Assisted Airless Spray (50-90%)</td>
<td>50-90%</td>
</tr>
<tr>
<td>Electrostatic Air Spray (60-90%)</td>
<td>60-90%</td>
</tr>
<tr>
<td>Conventional HVLP</td>
<td>30-60%</td>
</tr>
<tr>
<td>Conventional Air-Assisted Airless</td>
<td>30-60%</td>
</tr>
<tr>
<td>Conventional Airless</td>
<td>20-50%</td>
</tr>
<tr>
<td>Conventional Air Spray</td>
<td>15-40%</td>
</tr>
</tbody>
</table>

This chart represents typical equipment transfer efficiencies, but not every installation. Conditions may vary due to material and application.
| Model       | Gun Type | Typical Applications                                | Spray Type       | Transfer Efficiency* | Weight       | Length     | Waterborne       | Operating Voltage | Bell Sizes                  | Maximum Fluid Delivery | Maximum Fluid Pressure | Hose And/Or Cable Lengths | Air Pressure | Power Supply |
|------------|----------|-----------------------------------------------------|------------------|----------------------|--------------|-----------|------------------|-------------------|---------------------|------------------------|-------------------------|------------------------|--------------------------|--------------|--------------|
| R70 CASCADE | 79501    | Corded                                              | Air Spray        | 60-90%               | 22.9 oz./650 g | 9.6”/24cm | No               | 65kV               | .028”, .042”, .047”, .055”, .070”, .7, 1.0, 1.2, 1.4, 1.8 mm | up to 1,000cc/min.    | 0-100 psi/ 60-90% bar  | 10, 15, 20, 30m, 33”, 49”, 66”, 98” | 50 psi/ 3.4 bar       | 9060 LV3       |
| R70 CLASSIC | 79504    | Corded                                              | Air Spray        | 60-90%               | 19.6 oz./555 g | 9.6”/24cm | No               | 65kV               | .028”, .042”, .047”, .055”, .070”, .7, 1.0, 1.2, 1.4, 1.8 mm | up to 1,000cc/min.    | 0-100 psi/ 60-90% bar  | 10, 15, 20, 30m, 33”, 49”, 66”, 98” | 50 psi/ 3.4 bar       | 9060 HV3       |
| R90 CASCADE | 79500 - Solvent, 79523 - Water | Corded                                                      | Air Spray | 60-90%               | 25.9 oz./735 g | 10.7”/27cm | Yes              | 85kV               | .028”, .042”, .047”, .055”, .070”, .7, 1.0, 1.2, 1.4, 1.8 mm | up to 1,000cc/min.    | 0-100 psi/ 60-90% bar  | 10, 15, 20, 30m, 33”, 49”, 66”, 98” | 50 psi/ 3.4 bar       | 9060 HV2       |

* Based on standard ASTM testing.

## 9060 SERIES POWER SUPPLY

| Model       | Gun Type | Typical Applications                                | Spray Type       | Transfer Efficiency* | Weight       | Length     | Waterborne       | Operating Voltage | Bell Sizes                  | Maximum Fluid Delivery | Maximum Fluid Pressure | Hose And/Or Cable Lengths | Air Pressure | Power Supply |
|------------|----------|-----------------------------------------------------|------------------|----------------------|--------------|-----------|------------------|-------------------|---------------------|------------------------|-------------------------|--------------------------|--------------------------|--------------|--------------|
| 9060 LV3   | 9060 LV3 | On-site/Contractor, fencing, job shops             | Pure Electrostatic | 95-98%               | 56 oz/1588 g | 20”/50.8cm | No               | 90-100kV          | 2-3/4”, 4”, 6”, 6.99, 10.16, 15, 24cm | 6oz/ 180cc with a 6” Bell Cup | 50 psi/3.45 bar          | N/A                       | N/A                       | 9060 HV2         |

* Based on standard ASTM testing.
<table>
<thead>
<tr>
<th>Model</th>
<th>Gun Type</th>
<th>Typical Applications</th>
<th>Spray Type</th>
<th>Transfer Efficiency*</th>
<th>Weight</th>
<th>Length</th>
<th>Waterborne</th>
<th>Operating Voltage</th>
<th>Nozzle/Tip/Bell Sizes</th>
<th>Maximum Fluid Delivery</th>
<th>Maximum Fluid Pressure</th>
<th>Hose And/Or Cable Lengths</th>
<th>Air Pressure</th>
<th>Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>R90 CLASSIC</td>
<td>79503 - Solvent 79520 - Water</td>
<td>Corded</td>
<td>Tier 1, Automotive and General Industrial</td>
<td>Air Spray</td>
<td>60-90%</td>
<td>21.9 oz./620 g</td>
<td>10.7”/27cm</td>
<td>Yes</td>
<td>85kV</td>
<td>.028”, .042”, .047”, .055”, .070” ,7, 1.0, 1.2, 1.4, 1.8 mm</td>
<td>up to 1,000cc/min.</td>
<td>0-100 psi/0-6.9 bar</td>
<td>10, 15, 20, 30m, 33’, 49’, 66’, 98’</td>
<td>0-100 psi/0-6.9 bar</td>
</tr>
<tr>
<td>AA 90 CLASSIC</td>
<td>79581</td>
<td>General Industrial, heavy equipment, farm, and off road</td>
<td>Air Assisted Airless</td>
<td>60-90%</td>
<td>21.2 oz./687.5 g</td>
<td>10.2”/25.9cm</td>
<td>No</td>
<td>85kV</td>
<td>5”, 8”, 10”, 13”, 17”</td>
<td>up to 1,500cc/min.</td>
<td>2,800 psi/193 bar</td>
<td>10, 15, 20, 25, 30m, 33’, 49’, 66’, 82’, 98’</td>
<td>0-100 psi/0-6.9 bar</td>
<td>9060 HV3</td>
</tr>
<tr>
<td>AA 90 CASCADE</td>
<td>79580</td>
<td>General Industrial, heavy equipment, farm, and off road</td>
<td>Air Spray</td>
<td>60-90%</td>
<td>22.6 oz./760 g</td>
<td>10.2”/25.9cm</td>
<td>No</td>
<td>85kV</td>
<td>5”, 8”, 10”, 13”, 17”</td>
<td>up to 1,500cc/min.</td>
<td>2,800 psi/193 bar</td>
<td>10, 15, 20, 25, 30m, 33’, 49’, 66’, 82’, 98’</td>
<td>0-100 psi/0-6.9 bar</td>
<td>9060 HV3</td>
</tr>
<tr>
<td>AA SOLO</td>
<td>79900 - Solvent 79901 - Water</td>
<td>Cordless</td>
<td>Tier 1, Automotive and General Industrial</td>
<td>Air Spray</td>
<td>60-90%</td>
<td>31 oz./880g</td>
<td>12.6”/320mm</td>
<td>Yes</td>
<td>85kV</td>
<td>.028”, .042”, .047”, .055”, .070” ,7, 1.0, 1.2, 1.4, 1.8 mm</td>
<td>up to 1,000cc/min.</td>
<td>0-100 psi/0-6.9 bar</td>
<td>10, 15, 20, 30m, 33’, 49’, 66’, 98’</td>
<td>0-100 psi/0-6.9 bar</td>
</tr>
<tr>
<td>85kV</td>
<td>79965</td>
<td>Tier 1, Automotive and General Industrial</td>
<td>Air Spray</td>
<td>50-90%</td>
<td>29.4 oz./834g</td>
<td>10.1”/257mm</td>
<td>No</td>
<td>85kV</td>
<td>5”, 8”, 10”, 13”, 17”</td>
<td>up to 1,500cc/min.</td>
<td>2,800 psi/193 bar</td>
<td>10, 15, 20, 25, 30m, 33’, 49’, 66’, 82’, 98’</td>
<td>0-100 psi/0-6.9 bar</td>
<td>9060 HV3</td>
</tr>
<tr>
<td>AA</td>
<td>79698</td>
<td>General Industrial, heavy equipment, farm, and off road</td>
<td>Air Assisted Airless</td>
<td>50-90%</td>
<td>31 oz./973g</td>
<td>10.6”/269mm</td>
<td>No</td>
<td>85kV</td>
<td></td>
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<td>65kV</td>
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* Based on standard ASTM testing.
The balanced motor, true bearing and slower operating speeds of the Vector Solo, dramatically decrease the torque and vibration felt at the handle compared to other guns, leading to less fatigue and higher output.

**Replaceable Cascade...**
for easy maintenance

**Lock-in-place air cap positioning system...**
locks air cap position in increments of 90°

**Low motor speed...**
translates to minimal vibration transmitted to the handle. Lower vibration transmission compared to competitive units provides easier handling and less operator fatigue and longer motor life.

**Easily repaired...**
just a few metric tools required to totally disassemble and re-assemble the unit.

In the Typical Spraying Range, the Vector Solo produces higher KV which results in better Transfer Efficiency and less overspray.

The balanced motor, true bearing and slower operating speeds of the Vector Solo, dramatically decrease the torque and vibration felt at the handle compared to other guns, leading to less fatigue and higher output.

**Easily maintained...**
modular design and reduced parts make repair or parts replacement easy.

Triple set point control... puts unparalleled on/off voltage control right at the user’s fingertips and provides for flexible movement between three pre-selected voltage levels.

**NO. 2 PROCESS GUN**

The Ransburg No. 2 Gun is the most efficient applicator for on-site finishing. The Gun's high transfer efficiency provides improved productivity, reduced operator fatigue and higher quality finishes. Reduced labor and material costs, as well as reduced clean up are just a few of the money saving benefits at a cost effective price.

**Superior Bell Coating...**
durability and design ensures extended life for the equipment.

**Improved Atomization...**
gives a higher quality finish.

**Trouble-free Assembly...**
the straightforward design makes the unit easy for one person to handle.
LEADERS IN ELECTROSTATIC FINISHING

Addressing today’s industrial and automotive finishing requirements, Ransburg is out to set new standards for quality, innovation and customer service. To maintain the leadership positions we’ve forged in the markets we serve, we believe it is our role to imagine the future needs of our customers and to constantly improve our products and processes to meet those needs.

As the global innovator and market leader in electrostatic equipment, Ransburg is able to offer quality products and a commitment to service. Customers worldwide benefit from our experience and capabilities.

THE BENEFITS ARE CLEAR

- Innovative Product Design
- Comprehensive Systems
- On-site Technical Representation
- In-house Labs
- Training Center
- 24 Hour Technical Support
- Nationwide Distributor Network

Meets standards of FM/CSA/CE/ATEX for safety

THE ELECTROSTATIC PROCESS OFFERS MANY BENEFITS OVER CONVENTIONAL SPRAY:

- Increased transfer efficiency
- Significantly increases quality and production
- Positive environmental impact
- Reduces overspray, air pollution and VOC emissions
- Decreases paint costs
- More consistent part-to-part quality
- Reduced costs for the disposal of hazardous materials

For over a century, Ransburg has been at the forefront of technological developments in electrostatic finishing that have had the greatest positive environmental impact. In fact, many of the improvements we’ve made have been centered on advancing transfer efficiency. Better efficiency not only results in cost savings and increased productivity, but it’s also key to meeting or exceeding stringent environmental codes.

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