

ELECTROSTATIC SPRAY GUN SELECTION GUIDE

Ransburg



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.

The Enhanced Vector Solo blue fluid tips provide improved atomization and durability



RANSBURG ELECTROSTATIC GUNS DELIVER WORLD CLASS PERFORMANCE

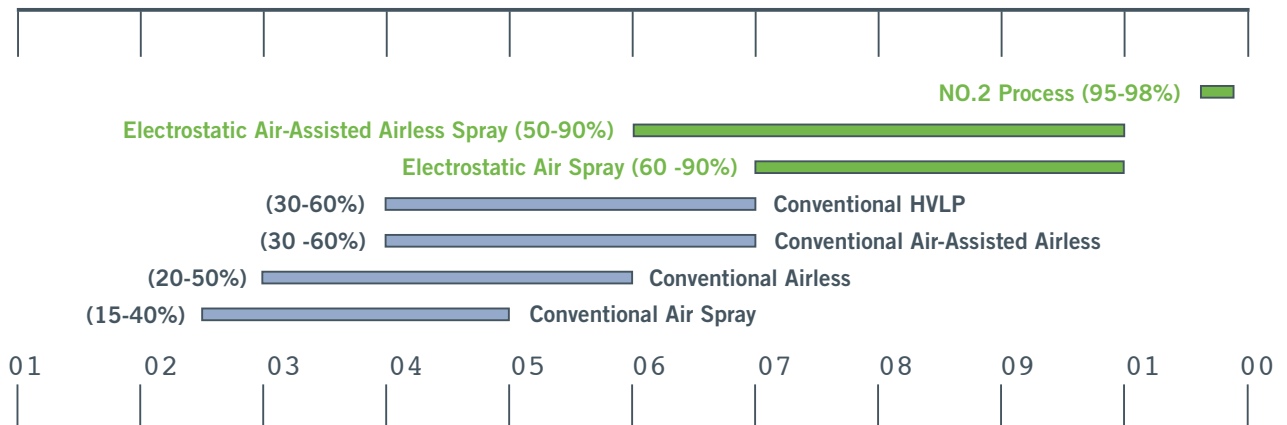
The Electrostatic Process

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 its 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



This chart represents typical equipment transfer efficiencies, but not every installation. Conditions may vary due to material and application.



R70 CASCADE



R70 CLASSIC



R90 CASCADE

Model	79501	79504	79500 - Solvent 79523 - Water
Gun Type	Corded	Corded	Corded
Typical Applications	Tier 1, Automotive and General Industrial	Tier 1, Automotive and General Industrial	Tier 1, Automotive and General Industrial
Spray Type	Air Spray	Air Spray	Air Spray
Transfer Efficiency*	60-90%	60-90%	60-90%
Weight	22.9 oz./650 g	19.6 oz./555 g	25.9 oz./735 g
Length	9.6"/24cm	9.6"/24cm	10.7"/27cm
Waterborne	No	No	Yes
Operating Voltage	65kV	65kV	85kV
Nozzle/Tip/Bell Sizes	.028", .042", .047", .055", .070", .7, 1.0, 1.2, 1.4, 1.8 mm	.028", .042", .047", .055", .070", .7, 1.0, 1.2, 1.4, 1.8 mm	.028", .042", .047", .055", .070", .7, 1.0, 1.2, 1.4, 1.8 mm
Maximum Fluid Delivery	up to 1,000cc/min.	up to 1,000 cc/min.	up to 1,000cc/min.
Maximum Fluid Pressure	0-100 psi/ 0-6.9 bar	0-100 psi/ 0-6.9 bar	0-100 psi/ 0-6.9 bar
Hose And/Or Cable Lengths	10, 15, 20, 30m, 33', 49', 66', 98'	10, 15, 20, 30m, 33', 49', 66', 98'	10, 15, 20, 30m, 33', 49', 66', 98'
Air Pressure	0-100 psi/ 0-6.9 bar	0-100 psi/ 0-6.9 bar	0-100 psi/0-6.9 bar
Power Supply	9060 LV3	9060 HV3	9060 LV3

* Based on standard ASTM testing.

9060 SERIES POWER SUPPLY



HV2, HV3

LV3

Height:	6.5" / 16.5cm	5.5" / 14cm
Width:	14.9" / 37.8 cm	8.5" / 21.6 cm
Depth:	12.1" / 30.7 cm	7.5" / 19.1 cm
Weight	22.5 lbs / 10.2 kg.	7.5 lbs / 3.4 kg.
Input Voltage:	100 - 240 VAC	100 - 240 VAC
Frequency:	50 or 60 Hz	50 or 60 Hz
Current:	1A max RMS	1.0 A max RMS
Wattage:	40 watts (max)	40 watts (max)
Output Voltage:	20 -90kV (max DC)	20 -90kV (max DC)

NO. 2 PROCESS GUN



No. 2 PROCESS

Model	19372
Gun Type	Corded
Typical Applications	On-site/Contractor, fencing, job shops
Spray Type	Pure Electrostatic
Transfer Efficiency*	95-98%
Weight	56 oz/1588 g
Length	20"/25.5cm
Waterborne	No
Operating Voltage	90-100kV
Bell Sizes	2-3/4", 4", 6" 6.99, 10.16, 15, 24cm
Maximum Fluid Delivery	6oz /180cc with a 6" Bell Cup
Maximum Fluid Pressure	50 psi/3.45 bar
Hose And/Or Cable Lengths	25', 36', 50', 75' 8, 11, 15, 23m
Air Pressure	N/A
Power Supply	9060 HV2

* Based on standard ASTM testing.



R90 CLASSIC



AA 90 CLASSIC



AA 90 CASCADE

Model	79503 - Solvent 79520 - Water	79581	79580
Gun Type	Corded	Corded	Corded
Typical Applications	Tier 1, Automotive and General Industrial	General Industrial, heavy equipment, farm, and off road	General Industrial, heavy equipment, farm, and off road
Spray Type	Air Spray	Air Assisted Airless	Air Spray
Transfer Efficiency*	60-90%	60-90%	60-90%
Weight	21.9 oz./620 g	21.2 oz./687.5 g	22.6 oz./760 g
Length	10.7"/27cm	10.2"/25.9cm	10.2"/25.9cm
Waterborne	Yes	No	No
Operating Voltage	85kV	85kV	85kV
Nozzle/Tip/Bell Sizes	.028", .042", .047", .055", .070" .7, 1.0, 1.2, 1.4, 1.8 mm	5", 8", 10", 13", 17" 127, 254, 330, 432mm	5", 8", 10", 13", 17" 127, 254, 330, 432mm
Maximum Fluid Delivery	up to 1,000cc/min.	up to 1,500cc/min.	up to 1,500cc/min.
Maximum Fluid Pressure	0-100 psi/ 0- 6.9 bar	2,800 psi/193 bar	2,800 psi/193 bar
Hose And/Or Cable Lengths	10, 15, 20, 30m, 33', 49', 66', 98'	10, 15, 20, 30m, 33', 49', 66', 98'	10, 15, 20, 25, 30m, 33', 49', 66', 82', 98'
Air Pressure	0-100 psi/0-6.9 bar	0-100 psi/0-6.9 bar	0-100 psi/0-6.9 bar
Power Supply	9060 HV3	9060 HV3	9060 LV3

* Based on standard ASTM testing.



85kV



65kV



AA

Model	79900 - Solvent 79901 - Water	79965	79698
Gun Type	Cordless	Cordless	Cordless
Typical Applications	Tier 1, Automotive and General Industrial	Tier 1, Automotive and General Industrial	General Industrial, heavy equipment, farm, and off road
Spray Type	Air Spray	Air Spray	Air Assisted Airless
Transfer Efficiency*	60-90%	60-90%	50-90%
Weight	31 oz./880g	29.4 oz./834g	31 oz./973g
Length	12.6"/320mm	10.1"/257mm	10.6"/269mm
Waterborne	Yes	No	No
Operating Voltage	85kV	65kV	85kV
Bell Sizes	.028", .042", .047", .055", .070" .7, 1.0, 1.2, 1.4, 1.8 mm	.028", .042", .047", .055", .070" .7, 1.0, 1.2, 1.4, 1.8 mm	5", 8", 10", 13", 17" 127, 254, 330, 432mm
Maximum Fluid Delivery	up to 1,000cc/min.	up to 1,000cc/min.	up to 1,500cc/min.
Maximum Fluid Pressure	100 psi/0-6.9 bar	0-100 psi/0-6.9 bar	0-3,000 psi/207 bar max
Hose And/Or Cable Lengths	10, 15, 20, 30m, 33', 49', 66', 98'	10, 15, 20, 30m, 33', 49', 66', 98'	10, 15, 20, 30m, 33', 49', 66', 98'
Air Pressure	0-100 psi/0-6.9 bar	0-100 psi/0-6.9 bar	0-100 psi/0-6.9 bar
Power Supply	Turbine On Gun	Turbine On Gun	Turbine On Gun

* Based on standard ASTM testing.

VECTOR SOLO™

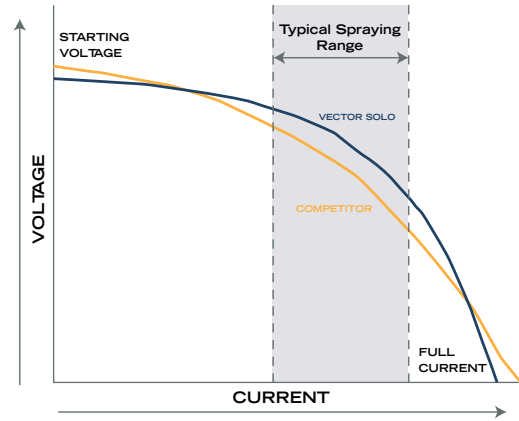


Replaceable Cascade...
for easy maintenance

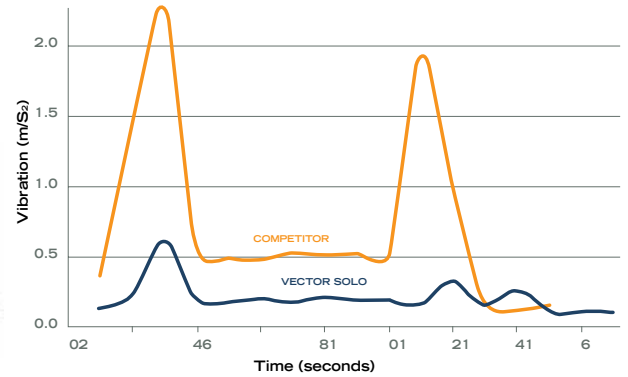
Lock-in-place air cap positioning system...
locks air cap position in increments of 90°

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.

VECTOR™



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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