



Electrostatic Spray Gun Selection Guide



ITW RANSBURG ELECTROSTATIC SYSTEMS

PROVEN LEADERSHIP IN ELECTROSTATIC FINISHING



Lock-in-place air cap positioning system...locks air cap position in

Low motor speed...

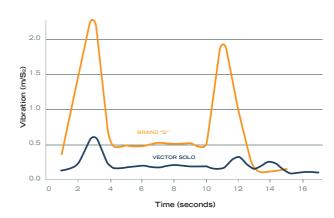
increments of 90°

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 three metric Allen wrenches, an adjustable wrench, special gun wrench and the jam nut tool are all the service tools required to totally disassemble and re-assemble the unit.

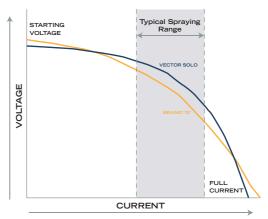
GUN VIBRATION

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.



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

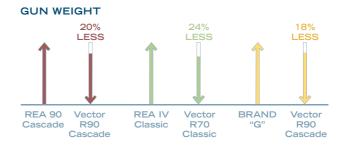






Easily maintained...modular design and reduced parts make repair or parts replacement easy

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.



We cut the weight 24% over other electrostatic guns! This improves operator comfort and reduces fatigue, both of which add up to improved productivity and job satisfaction.



The ITW 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.

ITW RANSBURG ELECTROSTATIC GUNS:

From The World's Leader In Electrostatic Innovation

Anyone in the coatings business knows the critical advantages of harnessing electrostatic technology for their operations. Since ITW Ransburg invented the process over fifty-five years ago, the industry has embraced the special benefits electrostatic systems have provided their painters and the quality of their parts. Generation after generation of ITW Ransburg guns have yielded improvements that make the case for electrostatic spray technology ever more compelling for companies seeking higher efficiency and quality improvement.



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, ends up on the back and sides of the workpiece to produce "wrap-around" effect.

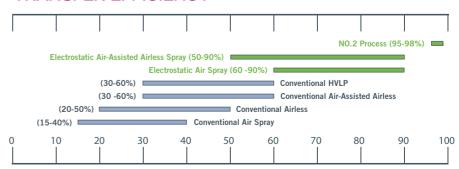
The electrostatic process offers many benefits over conventional spray:

- 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

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 70504

R90 Cascade

70E02 calvant

70501

N	MODEL NO. 79501		79504	79504 79500-solvent 79523-water		79581
					CORDED	
	TYPICAL APPLICATIONS	Tier 1, Automotive and general industrial	Gen. Ind., heavy equip., farm, and off road			
:	SPRAY TYPE	Air Spray	Air Spray	Air Spray	Air Spray	Air Assisted Airless
	TRANSFER EFFICIENCY*	60-90%	60-90%	60-90%	60-90%	50-90%
١	WEIGHT	20.7 oz./586.8g	16 oz./453.6g	22.4 oz./635g	19.5 oz./552.8g	25 oz./708.7g
١	LENGTH	10"/25.4cm	10"/25.4cm	11.5"/29.2cm	11.5"/29.2cm	11.5"/29.2cm
١	WATERBORNE	No	No	Yes	Yes	No
	OPERATING VOLTAGE	65kV	65kV	85kV	85kV	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	.028", .042", .047", .055", .070"/ .7, 1.0, 1.2, 1.4, 1.8 mm	5", 8", 10", 13", 15", 17"/ 127, 203, 254, 330, 381, 432mm
	MAXIMUM FLUID DELIVERY	up to 1,000 cc/min.	up to 1,000 cc/min.	up to 1,000 cc/min.	up to 1,000 cc/min.	up to 1,500 cc/min.
	MAXIMUM FLUID PRESSURE	100 psi/6.9 bar	100 psi/6.9 bar	100 psi/6.9 bar	100 psi/6.9 bar	2,800 psi/193 bar
	HOSE AND OR CABLE LENGTHS	10, 15, 20, 25, 30m/ 33', 49', 66', 82', 98'	10, 15, 20, 30m/ 33', 49', 66', 98'	10, 15, 20, 25, 30m/ 33', 49', 66', 82', 98'	10, 15, 20, 30m/ 33', 49', 66', 98'	10, 15, 20, 30m/ 33', 49', 66', 98'
	AIR	0-100 psi/6.9 bar	0-100 psi/6.9 bar	0-100 psi/6.9 bar	0-100 psi/6.9 bar	0-100 psi/6.9 bar



In the coating and finishing industries, electrostatics are synonymous with being the choice process for providing color versatility and environmental stewardship.

Ransburg liquid electrostatic coating equipment provides our end users with a sophisticated blend of technologically advanced tools and process controls designed to deliver the finest finishes while delivering the added benefits of fulfilling progressive companies' environmental program objectives.













79580	19372	
. Ind., heavy equip.,	On site, fencing,	

79900-solvent 79901-water		

79965	79698
ORDLESS	

		73301-Water		
			CORDLESS	
Gen. Ind., heavy equip., farm, and off road	On site, fencing, lockers and job shops	Aerospace, Tier 1, Automotive and general industrial	Aerospace, Tier 1, Automotive and general industrial	Aerospace, Tier 1, Automotive and general industrial
Air Assisted Airless	NO.2 Process Electric Atomization	Air Spray	Air Spray	Air Assisted Airless
50-90%	95-98%	60-90%	60-90%	50-90%
28 oz./793.8g	56 oz./1587.6g	31 oz./880g (solv) 33.2oz./941g water	29.4 oz./834g	34 oz./973g
11.5"/29.2cm	20"/58.4cm	11.5"/292 mm	10.1"/257 mm	10.6"/269 mm
No	No	Yes	No	No
85kV	100kV	85kV	65kV	85kV
5", 8", 10", 13", 15", 17"/ 127, 203, 254, 330, 381, 432mm	2.75", 4", 6"/ 70, 102, 152mm	.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", 15", 17"/ 127, 203, 254, 330, 381, 432mm
up to 1,500 cc/min.	75-180 cc/min. dep. on bell size	up to 1,000 ml/min.	up to 1,000 ml/min.	up to 1,500 ml/min.
2,800 psi/193 bar	100 psi/6.9 bar	100 psi/6.9 bar	100 psi/6.9 bar	3,000 psi/206 bar
10, 15, 20, 25, 30m/ 33', 49', 66', 82', 98'	25, 36, 50, 75, 100m/ 82', 118', 164', 246', 328'	10, 15, 20, 30m/ 33', 49', 66', 98'	10, 15, 20, 30m/ 33', 49', 66', 98'	10, 15, 20, 30m/ 33', 49', 66', 98'
0-100 psi/6.9 bar	0-100 psi/6.9 bar	0-100 psi/6.9 bar	0-100 psi/6.9 bar	0-100 psi/6.9 bar

HERE'S HOW: RANSBURG ELECTROSTATICS...

- Reduced Overspray...which means reduced VOC's and the challenges associated with containing them.
- Reduced VOC's...meaning reduced energy demand on air handling systems and reduced filter usage and their eventual disposal in industrial or community landfills.
- Reduced Cleanup...reducing overspray also reduces the need for cleaning solvents and valuable water usage.
- Reduced Sludge...reducing post-cleanup gunk means there's less material flowing into industrial waste streams or community landfills.

Ransburg Electrostatic Equipment helps end users achieve environmental guardianship without sacrificing finish quality.

ITW FINISHING SYSTEMS—THE SYNERGY OF LEADERS

Addressing today's industrial and automotive finishing requirements, ITW 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 be constantly improving our products and processes to meet those needs.

As the global innovator and market leader in finishing equipment, ITW 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



For over a century, Ransburg has been at the forefront of technological developments in 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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