

Listed are other misconceptions about electrostatics. If you have heard of others, give us a call and we will help you determine what is fact and fiction.

ELECTROSTATICS.....

- ...can't paint in corners
- ...can't spray metallics
- ...makes parts attract dust
- ...makes paint stick better
- ...makes you sterile
- ...will ruin your wrist watch
- ...will make your hair fall out
- ...just doesn't work
- ...can cause damage to planes
- ...promotes adhesion
- ...can cause premature kidney and liver damage
- ...magnetizes the paint

For more information, contact you local ITW Ransburg representative at 1-800-233-3366 or visit our web site a <http://www.itwransburg.com>. We have a section dedicated to answering your questions.



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Form IL-258

Myths About Electrostatics



Difficult? Who have you been talking to?
Electrostatics, a lot easier than you think.



Common Misconceptions About Electrostatics...

Electrostatics work by negatively charging atomized paint particles so they are attracted to the grounded surface being finished. Paint that would otherwise become overspray ends up on the surface. The result is extremely high transfer efficiency.

Electrostatics means you'll use a lot less paint, so you'll reduce paint costs, as well as the costs of cleaning up and disposing of wasted paint. Additionally, electrostatics reduces overspray and VOC emissions. Environmental concerns are a priority, so companies around the world are doing their part to cut costs and create a safer environment. Ransburg electrostatic systems are a key to the success.



Inability to paint in corners, recesses and plastics is yet another myth about electrostatics.

People have many misconceptions about electrostatics and the electrostatic process. You'll be surprised at how much is fact and how much is actually fiction. *Remember, at one time people actually believed the earth was flat.*

ELECTROSTATICS IS TOO TECHNICAL. NOT EVERYBODY CAN USE IT.

Most electrostatic guns have the same type of controls for atomization, fluid control and fan width that exists on other non-electrostatic guns. Anyone who can operate a conventional gun can usually master the use of electrostatic equipment in 30 minutes or less. One key to success is good equipment maintenance and not abusing the gun.

ELECTROSTATICS CAN'T PAINT ANYTHING EXCEPT METAL.

Almost any product can be finished electrostatically. Some may require pretreatment with chemical sensitizers to produce a conductive surface or with some products a metal object may be placed behind the part to create a ground image for attraction. Many black rubber items have enough carbon content to be sprayable.

ELECTROSTATICS CAN'T SPRAY METALLICS.

Metallics and other conductive coatings can usually be sprayed by use of a coiled fluid tube or other similar fluid supply modification to prevent the voltage from leaking back to ground.

ELECTROSTATICS ARE EXPENSIVE TO OPERATE AND MAINTAIN.

Yes, electrostatics costs more than a conventional spray gun. However, an electrostatic gun is 3 to 10 times more efficient in spraying on the parts. A true return on investment calculation needs to be made on each application.

ELECTROSTATIC GUNS ARE NOT DURABLE AND VERY FRAGILE.

Spray guns are not hammers! All spray guns are designed for the purpose of atomizing and applying coatings. Unlike metal conventional spray guns, electrostatic guns must be made mostly of strong plastic. With today's technology, most electrostatic guns are very rugged and do not break easily.

ELECTROSTATIC GUN CABLES ARE HEAVY AND AWKWARD.

Today's high voltage cables are almost as small and flexible as low voltage cables. The ITW Ransburg line of cascade guns only need about 10 volts supplied to the gun, therefore the cables are much smaller and flexible than older style cables. The Ransburg style classic guns are now constructed of newer improved, lighter materials and employ modern construction technology.

ELECTROSTATICS REQUIRE SPECIAL PAINTS.

Most air spray, airless, air-assisted airless and HVLP electrostatic guns do not need special paints because the charge is applied outside the gun by a charging electrode. Only the No. 2 Process Gun requires paint in a specific resistance range because it's atomization is purely electrostatic.



ELECTROSTATICS CAN'T SPRAY WATERBORNES.

Waterbornes are the most conductive paints made. This makes them ideal for electrostatic applications. However, special isolation hardware is required.

ELECTROSTATICS IS EQUAL TO HVLP.

HVLP is an efficient low energy process that will show a measured improvement in transfer efficiency over standard air spray. Electrostatics, because of the high voltage charge, will show an additional measured improvement in transfer efficiency over HVLP. Electrostatic guns are available in air spray, HVLP, airless or air assisted airless.



Electrostatic Waterborne System

ITW Ransburg
Electrostatic Systems



REA® 70
Air Spraygun
or HVLP Spraygun



REA® 90
Air Spraygun
or HVLP Spraygun



REM™
Air-Assisted
Airless