



TAKE CONTROL OF YOUR POWDER CLOUD... WITH GEMA.

Controlling your powder spray cloud is crucial to your powder coating process for many key reasons – one of them being **BETTER ELECTROSTATIC ATTRACTION AND ADHESION.**

Better electrostatic attraction and adhesion are key indicators of how well a powder coating process is optimized, since powder must be attracted to a part before it can become a durable finished coating. When you struggle with poor powder wrap, light coverage on edges or corners, recessed areas not coating well, powder falling off before cure, and inconsistent film build, the issue may be tied to poor electrostatic attraction and spray cloud control.

Electrostatic attraction helps powder particles cling to the grounded part during application. Final coating adhesion depends on surface preparation, pretreatment, substrate condition, and powder chemistry. Both factors depend on how well your system controls powder charge, grounding, delivery, and spray direction. When the system is working properly, powder deposits more efficiently onto the part instead of drifting away or bouncing back.

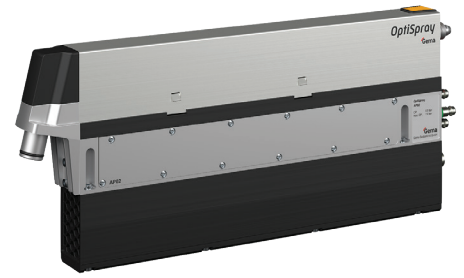


Part edges, corners and profiles can be challenging since powder behavior is influenced by electrical field strength, spray gun settings, part geometry, and grounding. Good grounding is essential for electrostatic coating, so if your hooks, racks, or contact points are dirty or have buildup, powder attraction will be weakened. Proper grounding should be confirmed as part of your surface pretreatment and preparation and overall system maintenance.

***IS POWDER FAILING TO WRAP AROUND EDGES OR CORNERS OR REACH RECESSED AREAS?
ARE OPERATORS INCREASING POWDER FLOW TO ACHIEVE DESIRED COVERAGE?***

When the spray cloud is controlled, powder deposits more effectively – helping improve coverage, reduce waste, and support more consistent coating results. Better attraction starts with a controlled spray cloud.

- PowerBoost™ generates up to 110,000 volts to boost charge efficiency – as kV and μ A control influence particle charging and deposition behavior – and to produce a high-performance cascade for accuracy.
- Precise Charge Control (PCC) technology and SuperCorona auxiliary rings combine to optimize powder electrostatics and penetration to the grounded part surface.
- Dense phase pumps enable independent control of powder and air – so the powder particles can move at a slower speed while charging – to result in a much higher, more uniform electrostatic charge.
- Proper nozzle selection effects the strength, shape and efficiency of an electrostatic field – the nozzle shapes the powder cloud and controls its velocity, determining how well it absorbs a charge and adheres to the part, while gun-to-part distance and movement impact the voltage intensity between gun tip and grounded part.

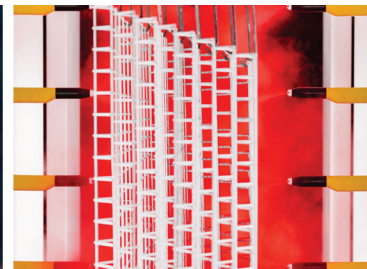
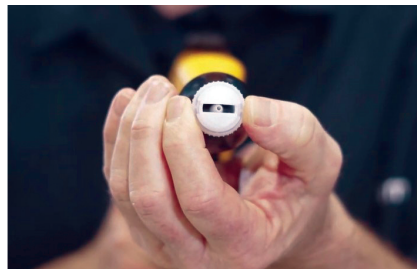


***HAS GROUNDING BEEN CHECKED THROUGHOUT THE HANGING SYSTEM?
ARE WORN NOZZLES AND PARTS AFFECTING SPRAY CLOUD CONSISTENCY?***



We're not just selling powder guns. We deliver systems and technologies that allow you to control the powder cloud. And when You Control the Cloud, you control the quality, time and cost of the finish.
You control the RESULTS.

- Higher first-pass production yield
- Reduced rework from imperfections or rejects
- Improved coating productivity and transfer efficiency
- Lower powder consumption
- More predictable production line process



Contact us at **877.437.6771** or **powdersales@gema.us.com**