



What is electrostatics?

Electrostatics is an environmentally responsible way to atomize powder/oil, because it significantly increases quality and production and equally decreases powder/oil costs

How does it work?

The aim is to eliminate wasteful overspray and put as much coating material on the target as possible. This is achieved by negatively charging atomized powder/oil particles so that they are attracted to the grounded work piece, opposites attract.

A charging electrode is located at the tip of the electrostatic spray head or atomizer. The powder/oil is atomized as it moves past the electrode, its particles become ionized - negatively charged. An electrostatic field is created between the charging electrode and the grounded work piece, the spray is concentrated within it.

Further atomization is achieved as charged particles form a fine cloud. Due to the electrostatic attraction, spray that would normally be lost, ends up on the back and sides of the work piece to produce a “wrap-around” effect.

When to use electrostatics

When you want to achieve maximum transfer efficiency and minimise coating waste and dusting/misting emissions, while achieving maximum application wrap-around effect, high production and high flow rates.

The advantages

Increased transfer efficiency and reduced over spray, which results in significant cost savings and reduced dusting/misting emissions. We build our system with safety in mind. With flexible, lightweight low voltage cable going to the generating spray head.

State-of-the-art technology

With our new modular design, Spice Application Systems has been the leader in the electrostatics food industry for many years. With proven components and circuitry built to IP67. It is a combination that will be hard to beat.

The new Control Unit has the added benefit of putting total control at your fingertips. With its unique design, it provides the ability to monitor current flow and control the pneumatics, in addition to providing the controls to operate your electrostatic spray heads.

Spice Application Systems is a world leader in the application of electrostatic technology

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