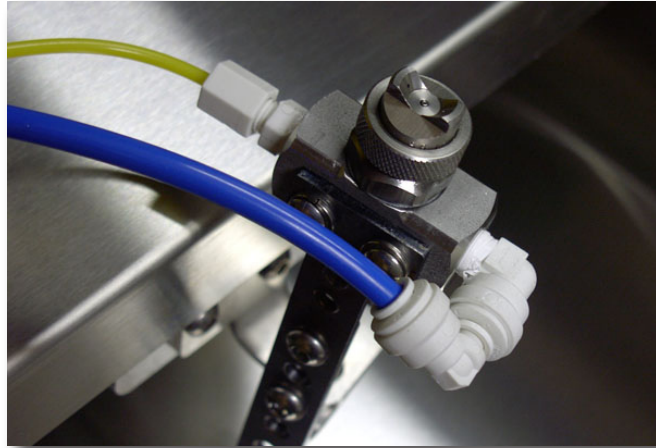


The ServoSpray provides an ideal balance between system performance, functionality and low cost of ownership. The system has the ability to spray in either one or both directions, self-cleaning capability and a pressure tank flux supply system.



Uniform Flux Application

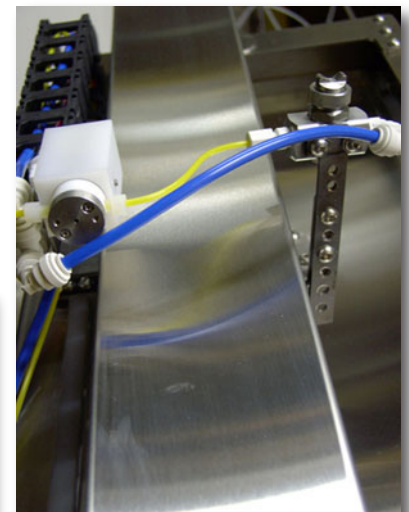
The ServoSpray is a reciprocating air atomizing spray fluxing system. It consists of an air atomized spray head with an automatic self-cleaning function. Spray uniformity is achieved via programmable spray capability. Flux is applied with the nozzle traveling either in one direction or both depending on the application.

External Mix Air Atomizing Nozzle

The ServoSpray's nozzle is controlled by a flux valve and an air valve. Concentric air surrounding the nozzle atomizes the flux droplets into a fine mist. Two additional air ports spray the flux into a fan-like pattern. The flux spray is parallel to PCB holes and pallet openings maximizing hole penetration and minimizing pallet edge shadowing.

The nozzle is transported by a servo motor driven ball-screw actuator traveling at constant speed perpendicular to the direction of the conveyor. Conveyor speed synchronization and unidirectional flux application ensure there is no overlap between flux passes.

The air orifice of the ServoSpray is self-cleaning, minimizing maintenance requirements. A peristaltic pump injects solvent into the air line, and then high pressure air is applied to blow out the solvent and clean the air orifice.



- Servo-controlled reciprocating spray fluxer
- Air atomized spray fluxing technology
- Full software system integration

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Knowledge in process

Pallet Offset Programming

The ServoSpray is software controlled via the wave soldering system or on a stand-alone PC. Its pallet offset programming capability ensures that flux is applied only to programmed board areas, not on pallets and fixtures.

Low Cost of Ownership

The ServoSpray's high transfer efficiency reduces flux consumption. Flux is applied to pre-programmed areas with limited overspray.

Maintenance is reduced with long life components, including a servo controlled linear actuator. No special tools or operator skills are required. Monitoring, tuning or disposal of secondary cleaning solutions is not required, and the self-cleaning feature greatly reduces the need for costly downtime.

The ServoSpray is available as a standard feature on the VectraElite™ and VectraEST™ and as an option on the Electra® wave soldering system.

ServoSpray Benefits

- Ability to spray in one or both directions
- Improved top side hole fill
- Reduced flux usage
- Reduced maintenance costs
- Applies a wide range of fluxes
- Pressure tank flux supply system

SERVOSPRAY SPECIFICATIONS

Flux Deposition	50 - 5000µg/in2 (depending upon flux solids, flow rate and traversing speed)
Deposition Uniformity	± 10 %
Deposition Repeatability	± 10 %
Flux Reservoir	5 gallons (19 liters)
Cleaning Solution Reservoir	2 gallons (7.6 liters)

ABOUT SPEEDLINE TECHNOLOGIES

Speedline Technologies is the global leader in process knowledge and expertise for the PCB assembly and semiconductor industries. Based in Franklin, Massachusetts, U.S.A., the company markets five best-in-class brands – Accel microelectronics cleaning equipment; Camalot dispensing systems; Electrovert wave soldering, reflow soldering, and cleaning equipment; MPM stencil and screen printing systems; and Protect global services, support, and training solutions. For more information, visit us at www.speedlinetech.com.

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