

The ServoJet ensures complete flux penetration by utilizing concentric air atomization. It offers a programmable method of applying flux that results in consistent flux deposition and reduced flux usage.



Complete Flux Penetration

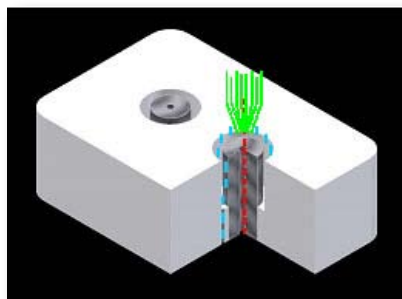
The ServoJet is a servo controlled reciprocating spray fluxing system. It consists of eight JetFlux nozzles controlled via two valves with four nozzles per valve. The ServoJet combines high velocity jetted flux droplets with concentric air atomization to thoroughly penetrate holes, depositing flux where it is needed.

Flux Jet and Concentric Air Atomization Penetration

The ServoJet's high frequency valves are duty cycle-controlled to deliver pressurized flux through precision orifice nozzles. Flux droplets are jetted from the nozzles toward the printed circuit board. Concentric air surrounding the nozzles atomizes the flux droplets into a fine mist. The flux spray is parallel to PCB holes and pallet openings maximizing hole penetration and minimizing pallet edge shadowing. An optional air knife is available to facilitate hole penetration and deposition uniformity.

The nozzles are 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 ServoJet is self-cleaning through concentric air atomization. A high speed valve opens to inject solvent into the air line for 1-2 seconds, then high pressure air is applied to blow out the solvent and clean the air orifice.



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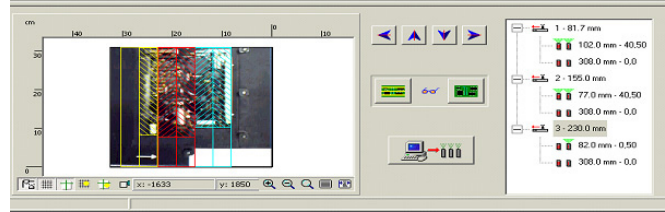
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Knowledge in process

Advanced Selective Programming

The ServoJet is software controlled via the wave soldering system or on a stand-alone PC. Its variable selective fluxing capability places different flux volumes on individual sections of the board. Flux is applied only to programmed board areas, not on pallets and fixtures.



Low Cost of Ownership

The ServoJet'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 ServoJet is available as a standard feature on the Electra® and an option on the VectraElite™ and VectraES™ wave soldering systems.

ServoJet Benefits

- Accurate flux control reduces bridging
- Improved hole penetration
- Reduced flux usage
- Variable selective fluxing
- Applies a wide range of fluxes

SERVOJET SPECIFICATIONS

Flux Deposition	50 - 4000µg/in2 (depending upon flux solids, flow rate and traversing speed)
Deposition Uniformity	± 1
Deposition Repeatability	± 1
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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