

News Release

For Immediate Release

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ITW EAE Releases EcoWave™ option for Electrovert® Wave Soldering

Camdenton, MO – February 25, 2026 – ITW EAE announces the launch of the Electrovert EcoWave, a patented next-generation wave soldering option engineered to deliver significant gains in efficiency, soldering performance, and sustainability.

EcoWave integrates two of Electrovert’s patented technologies, DwellFlex 4.0 adjustable contact length and the Auto Exit Wing defect-mitigation system into a streamlined single-wave nozzle. This combined design enhances wave control and simplifies operation, delivering consistent, high-quality soldering across a wide range of assemblies.

A major highlight of EcoWave is its advanced, nitrogen-directed design, which minimizes oxidation at the wave-forming region. Manufacturers report dross reductions above 50%, with some achieving up to 75%. These savings significantly lower raw material consumption and reduce waste-handling costs.

EcoWave also minimizes maintenance demands. With reduced dross buildup and fewer mechanical components, manufacturers have reported maintenance interval extensions of up to 93%, resulting in increased machine uptime and lower overall operating costs.

Engineered to maintain solder above liquidus throughout the full contact sequence, EcoWave ensures improved vertical fill in plated-through holes and consistently stronger solder joints—all without increasing nitrogen consumption.

Supporting growing sustainability initiatives, EcoWave decreases solder waste and landfill impact, delivering both environmental and operational benefits without added nitrogen use.

EcoWave sets a new benchmark in wave soldering by delivering substantial dross reduction, improved solder quality, reduced maintenance, and meaningful sustainability gains in one integrated solution.

Electrovert is a brand of ITW EAE, a division of Illinois Tool Works, Inc. They are the largest manufacturer of wave soldering and cleaning equipment for the electronics industry. ITW EAE brings together world-leading brands of electronics assembly equipment including MPM, Camalot, Electrovert, Vitronics Soltec, and Despatch. For more information visit www.itweae.com.