

TEAMCO

Econowave *Plus* ♦ *Lead Free* Wavesolder



Econowave *Plus* Standard Features:

- Integrated PC Control with Industrial Computer and Windows 2000. All data, and machine configuration/settings are saved for each board profile. Temperature curve can be saved or printed.
- Dual Wave Solder Pot (Chip wave and Standard Lambda Wave) with adjustable nozzle height to minimize dross.
- Totally Lead Free Design
- Double Hook Titanium Fingers – front-fixed, back fingers move when conveyor width is adjusted. Other finger styles or “mixes” available
- Integrated Finger Cleaner
- Easy Access Roll Out Solder Pot for Maintenance
- Solder Pot Temperature Control from room temperature to over 300°C with Accuracy of $\pm 1^{\circ}\text{C}$
- Pneumatic Spray Fluxer
- Bottomside Preheaters with optional Topside Preheater
- Built in timer for machine auto-off and auto-on control
- Autowidth Conveyor Width Adjust
- Quality parts like Panasonic Drive Motors and Siemens PLC control used throughout

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Econowave *Plus* Standard Features (continued):

- Italian-made Solder Pumps.
- Front Panels on Gas Shocks and Sliding Rear Doors for easy access
- Frequency transducer controls the wave height accurately
- Equipped with Overheat alarm, emergency stop and overload protection
- Quick Solder Pot Heat-up of approx. 20 minutes.
- Cesium Flash at end of Preheater Chamber to maintain temperature prior to Wave (less than 2°C temperature drop)
- Dual Ventilation System at Spray Fluxer and Solder Pot Zones.
- Manual Solder Pot Height Adjust
- Transport Conveyor angle adjustable from 3 to 8 degrees
- Stainless Steel Conveyor Chain
- Specially designed guide rail to reduce the deformation caused by heat over time.
- Three Integrated PC-controlled Thermocouples to perform board temperature profile as it passes through the machine to provide process feedback.
- Warranty, service, support and training available throughout the USA, Mexico and Canada.

Options:

- Separate Tin-Lead Solder Pot that can easily be rolled in and out for non-Lead Free production requirements – Use the same machine for both Lead Free and Tin-Lead production, just change out the Solder Pot.
- Standard Configuration Maximum width of 16" (Model 400) with optional Maximum width configured machines of 18" (Model 450) and 20" (Model 500)
- Convection (hot-air) or IR Preheaters.
- Optional preheat zone extended from 71" (1800 mm) to 75" (1900 mm)
- Topside Preheater.
- Nitrogen Configured System with Nitrogen Flow Control and Oxygen Analysis System.
- Automated Solder Pot Height Adjust
- 220V or 480V 3 Phase 50/60 Hz.
- Spray Fluxer with PLC controlled Stepper Motor.
- Air-Cooled or Water-Cooled Chiller after boards exit Solder Waves to enable fast cooling of more than 10°C /sec.
- "Shaker" for the Chipwave
- Center Board Support System for Wide Boards
- Right to Left Flow Direction (Left to Right standard)

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