



Compatible

[SMARTBOX]

<PROCESS TRACKER>



MTU-500

The MTU-500 is a large-format, high-capacity wave soldering machine designed for demanding PCB production environments. Built for maximum throughput and precision, it combines advanced dual-wave technology, intelligent automation, and efficient thermal management to deliver excellent soldering quality on complex and wide PCBs.

Applications

Ideal for extra-wide and complex PCB assemblies, including:

- Automotive and power electronics
- Industrial equipment and control systems
- Large consumer electronics boards
- EMS high-volume production lines

FEATURES

- Extended PCB capacity up to 500 mm width for large-format boards
- Dual wave system: laminar (first) + dancer (second) for optimal soldering results
- High-precision temperature control ($\pm 1^\circ\text{C}$)
- 4-zone preheating system (1800 mm) with hot air convection
- Advanced PLC + PC control system with intelligent automation and alarms
- Automatic flux spraying system with detection and adjustable flow
- Enhanced flux management system with recycling, air curtain, and filtration
- Automatic finger cleaning system with recyclable alcohol solution
- Energy-efficient matrix heating (up to 95%)
- Robust enclosed structure for durability, safety, and easy maintenance
- SMEMA interface for seamless integration into production lines

PCB width	Max.50~500mm
Solder pot capacity	Approx. 710kg
Dimension	4500*1450*1730mm
Air supply	4~7KG/CM2
Interface	SMEMA
PCB convey height	750±50mm
Wave adjustable height	0-18mm
Wave types	Laminar and dancer
Conveying direction	Left to right
Electricity supply	3P 5 wires 380V/3P 220V
Rail parallelism	Width adjusting accuracy less than 0.2mm

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