



# Model **KISS-104F**

“Keep It Simple Soldering”  
“The Intelligent”

In-Line Selective Fluxing Machine



*Made in America:*

## **FEATURES:**

- High speed Inline “Selective Fluxing” system that will reach all areas of a PCB panel up to 18” x 24” in perimeter
- Standard precision aerosol flux applicator with a deposition range between 4 through 25 mm
- Optional Drop-Jet applicator with dot size down to 1.5mm
- Can be configured with multiple applicators to apply mixed flux chemistry on demand
- Accepts all conventional flux chemistries
- SMEMA protocol interface ready
- Can be used in-line with wave soldering equipment
- Complements the KISS-104 selective soldering module with a concurrent fluxing operation that significantly reduce cycle time
- Windows XP O/S with simple on line teach using the set-up camera or off line programming using Gerber, DXF or DWG
- Completely enclosed with built-in fume hood to a filter bank that collects the solids with take-off to plant exhaust
- CE certified and OSHA compatible
- PCB is held stationary during the process preventing components from toppling during the fluxing process
- Absolute programmable control over the process
  - Select the flux applicator and chemistry
  - Control the width and density of the flux applied

## **DESCRIPTION:**

The customary in-line spray fluxers are intended to apply flux to a PCB just as it enters into a wave soldering process. As such they are non-intelligent. The flux nozzle simply oscillates under the board as the board passes overhead. The flux covers the entire bottom side of the board, including carriers and protective pallets.

The **KISS-104F** in-line fluxer is an intelligent machine that significantly reduces the process time by concurrently applying the flux to the specific components to be soldered while the board previously fluxed is being soldered in the KISS-104. The board is conveyed in on the edge conveyor (SMEMA), located in a known position and the flux is applied via X-Y motion under program control. The board progresses into the next station (pre-heater or directly into the KISS-104 for the soldering process.

## **OPTIONS:**

- Spray fluxing dispenser
- Airless Drop Jet fluxing dispenser
- Ultrasonic dispenser system
- Multiple nozzles (up to 4)
- Offline programming

## **KISS-104F SPECIFICATIONS:**

### Conveyor / PCB Panel Size

•	Minimum 2” x 2”	Maximum 18” x 24”
	SMEMA edge 3mm clearance	

### Motion

- Z-Axis  
Accuracy/Repeatability +/- .002”  
Speed 0-40 inches/min  
Travel Distance = 3.0”
- X and Y Axis  
Accuracy/Repeatability +/- .002”  
Speed 0-300 inches/min

### Controls

PC with Windows XP O.S.

### Physical

- Dimensions  
48” wide x 40” deep
- Weight  
400 lbs.

### Facilities

- Power  
120VAC/1 Ph/60 Hz 15 amps
- Nitrogen  
60-70 PSI @ 15-50 CFH
- Exhaust  
Hood provided, 500 CFM