



# Kince

Automation

Lead Free Wave Soldering

## KWA-350 SUPER EP

- ❑ Patent designed Chip/Lambda Dual-Wave Nozzles
- ❑ (Dross Amount  $\leq 2.8\text{kg}/8\text{hr}$ )
- ❑ Solder-saver Device (Option) Dross oxides powder  $\leq 0.5\text{kg}/8\text{hr}$
- ❑ Hot Air Convection Pre-heaters for VOC Free Liquid Flux
- ❑ Low Temperature Cooling Zone for Fine Micro-structure Solder Joints
- ❑ Stability-enhanced Computerized Fluxer System (Optional Stand-alone Fluxer Available)
- ❑ User-friendly Intelligent Control Interface
- ❑ Design for Low Power
- ❑ Less  $\text{N}_2$  Consumption (Option)



Kince's 18 Patents

**One Kince One Goal**  
同一個建時 同一個目標

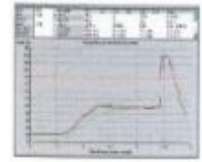
## Feature

- Hydrodynamic-designed Chip/Lambda Dual-Wave Nozzles (Dross Amount  $\leq 2.8\text{kg}/8\text{hr}$ )
- Turbine hot air convection Pre-heater for VOC Free Liquid Flux
- Low Temperature Cooling Zone for Finer Micro-structure Solder Joints
- Motorized fluxer head transverse Optional Stand-alone Fluxer Available)
- Rapid Cool flux management system
- Design for Low Power and  $\text{N}_2$  Consumption

## Customer approved Temp. Profile and Software Interface



Main control display



Temp. Profile



Operational Panel



Temp. Control File

## Specifications

# KWA-350/500 SUPER EP

ITEM	TECHNICAL DATA	
	KWA-350 SUPER EP	KWA-500 SUPER EP
Dimension (L x W x H)	3800(4200) x 1250 x 1900	3800(4200) x 1250 x 1900
Net Weight	2330kg	3150kg
Application	Lead Free Applicable	
Board Width	50 to 350 mm (Standard) / 50 to 500 mm (Option) (350)/Rail adjustable from 50mm to 500mm (PCB effective width 500mm)(500)	
Power Supply	3-phase,380VAC,50/60Hz	
Power Consumption	18Kw(Start-up)/6.8Kw(Normal)(350)	26.4Kw(Start-up)/8.5Kw(Normal)(500)
Pre-Heating Zone Length	900mm x 2/ Hot Air 600mm x 3(Option)	
Temperature Control	P.I.D Close-looped Control	
Temperature Accuracy	$\pm 2^\circ\text{C}$	
Temperature Setting Accuracy	$\pm 0.1^\circ\text{C}$	
Heating Zone Temperature Range	Room Temperature to $250^\circ\text{C}$	
Conveyor Finger Type	Finger double strengthened 'V' groove or 'L' shape type rail chain	
Conveyor Direction	Left to Right or Right to Left	
Conveyor Speed	Computerized Control by 0.3 to 1800mm/min	
Conveyor Height (Unload)	750 $\pm$ 20mm	
Solder Pot Material	Titanium TA1 purity	
Solder Pot Capacity	420kg (350)	600kg (500)
Solder Pot Temperature Setting	Room Temperature to $350^\circ\text{C}$	
Solder Dross Amount	$\leq 2.8\text{kg}$ per 8 hrs (350)/	$\leq 3.5\text{kg}$ per 8 hrs(500)
Solder Wave Height	Computerized Control by 1 to 10mm	
Solder Wave Motor Speed	Computerized Control by 1,450 RPM (max.)	
Fluxer Type/Capacity	Computerized Control Spray Fluxer/8.3Litre	
Machine Control System	Industrial PC + Logical Software	
Operation System	Windows XP	
SPC Database	Board Count, Idle Time, Power-on Time and etc	
Profiling System	3 channel Profiler / $\pm 1^\circ\text{C}$ / Delta T & Temperature Gradient Display	
Oxygen analyzer	Option	
Center Rail Support	Option	
UPS	1Kw	

## Close-up Structure

The contents and specifications in this table may be changed without notice for better quality and capacity of the product



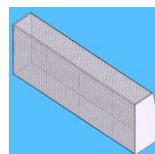
Infrared compensation



Pre heat conversion type



Center board support (option)



Buffering rectifier



Oxygen Analyzer (option)



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