

Alpha 1 Technologies

600 Series Lead Free Reflow Oven



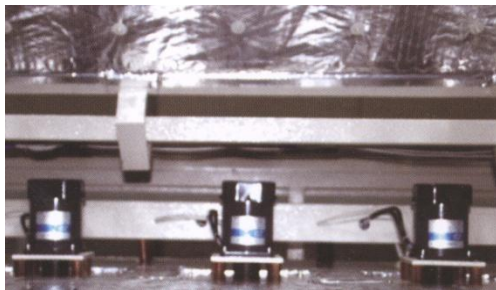
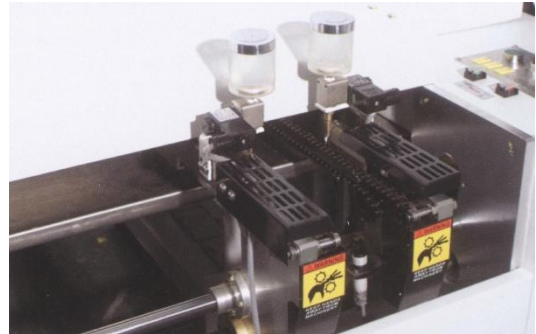
Machine Highlights

- Industrial Computer Controlled & Intelligent Software, featuring Windows 7 Platform
- Forced Air Convection Top & Bottom Independent Temperature Controlled Turbine Blower
- Closed Loop Controlled Independent Air Circulation by Zones Avoids Heat Bleed between Zones
- Mesh Belt and Edge Chain Conveyor
- Motorized Width Adjust
- Temp Set point Room Temp~400°C (Restricted to 310°C Ex-Factory For Protection)
- PCB Status on Screen Display Board Jammed & Board Dropped Alert
- Custom Time Delay for Buffer Conveyors Option
- Center Rail Support With Up/Down Features Option
- Flux Removal System with Cooling Effect Option
- 2800 rpm high rotation Taiwanese blower motors, enhance hot air flow
- Power Input : 3 Phase 480V, Startup Consumption 43KW
- Stepper Motor Speed Regulation for Conveyor
- Specialized & Critical Designed Heat Generation Structure
- Over temp Protection with Visual & Audio Alert
- New Designed Hot Air Flow Duct Increase Heat Transmission Efficiency
- Left & Right Edges Back Flow Efficiently Avoid Heat Influence Between Zones Central Turbine Blower Temperature Maintain $\pm 1^{\circ}\text{C}$, Across Deviation $\pm 2^{\circ}\text{C}$
- Optional Infrared Pre-heater



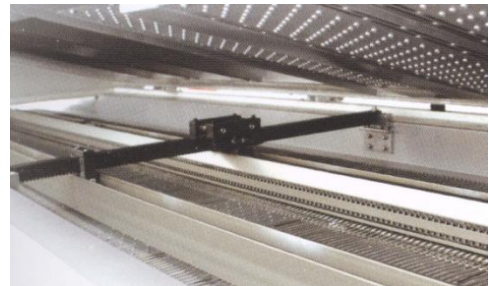
Simple user interface makes it easy to monitor your process.

Solid and reliable conveyor system.



High quality blower motors provide long life and process stability.

Original tunnel design decreases temperature changes between zones.



	ZKS-608	SKS-610	ZKS-612	ZKS-617
General Specifications				
Machine Dimensions	L5173 x W1372 x H1462mm	L5923 x W1372 x H1462mm	L6673 x W1372 x H1462mm	L8548 x W1372 x H1462mm
Weight	2150Kg	2300Kg	2500Kg	2950Kg
Color	Grey, White			
Main Control	Windows 7 + SIEMENS PLC			
User Interface	Multi-Language Interface			
Heating Zones	T8/B8	T10/B10	T12/B12	T17/B17
Overall Heating Length	3200mm	3950mm	4700mm	6575mm
Cooling Zones	2 + 1			
Exhaust Requirements	≥ 3m/min x 2 Vanes			
Compressed Air Requirement	STD Natural Air Cooled; OPT: External Gas Chiller: 4-7kgf/cm2			
Power Requirement	3 Phase 5 Cable AC 380V 3 50/60Hz			
Startup Consumption	≤ 30Kw	≤ 32Kw	≤ 35KW	≤ 40KW
General Consumption	≤ 10-11Kw	≤ 12Kw	≤ 14KW	≤ 22KW
Time To Steady	≤ 20min			
Temperature Set point	Room Temp - 350° C			
Temperature Control	PID Closed Loop Controlled			
Temperature Accuracy	± 1° C			
Temperature Deviation (Across)	± 2° C			
Hot Air Flow	APPROX 70 CFM			
Environmental Heat Energy	≤ 70J	≤ 76J	≤ 82J	≤ 88J
Noise Level	≤ 70db	≤ 70db	≤ 70db	≤ 70db
Production Data	Board Recipes, SPC Data, Alarm & Fault History			
Process Width	Rail Chain 50-400mm			
Process Height	Mesh 875 ± 20mm; Rail Chain 900 ± 20mm			
Conveyor Speed	0-1500mm/min			
Product Clearance	Reference to Rail Chain: Topside 30mm; Underneath 30mm			
Features				
Flow Direction	Left → Right / Right → Left			
Fixed Track	Front Fixed / Rear Fixed			
Rail Chain Lubrication	Programmable Automatic Oiler			
Center Board Support	OPT: Chain Type Center Board Support			
Rail Width Adjustment	Motorized Width Adjustment			
Hood Opening	Electric Actuators			
Up/Dn Stream Interface	5 Cables SMEMA			
Hot Air Convection Style	General Circulation			
Cooling Style	STD: Natural Aired Cooled; OPT: 3hp External 3hp Gas Chiller			
Breakdown Protections	Overload, Over temp & Missing Phase Protection Board Jam Alert			
Fault Alert	Buzzer Alarm, Monitor Display & Light Tower			
Flux Management Unit	STD: None; OPT: Circulated Filtration			
Nitrogen Structured	OPT: N2 Circulated Filtration (<500 ppm): ≤ 20m3/mhr (8 Zones); ≤ 26m3/hr (12 Zones)			
Nitrogen Related	OPT: Oxygen Analyzer & Nitrogen Flow Meters			
Profiling System	3, 3ch Profiling System With Analytical Software			
Standby Power Supply	1000UV, 15-20min			