

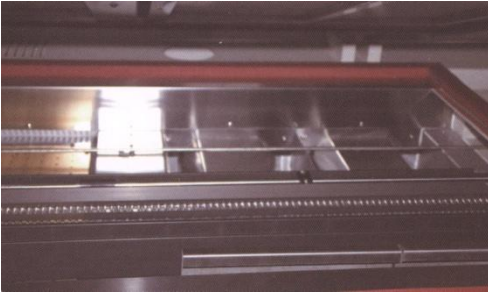
Alpha 1 Technologies

1000 Series Lead Free Reflow Oven



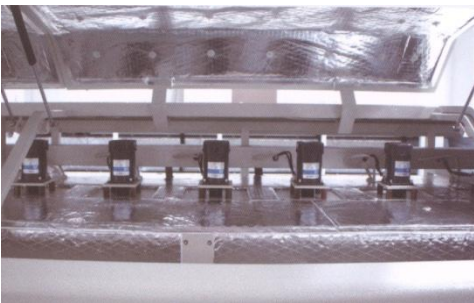
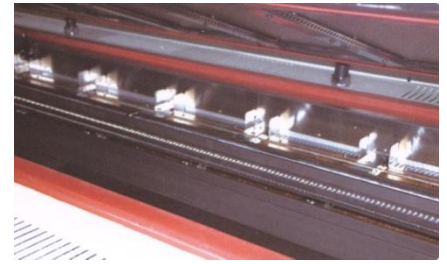
Machine Highlights

- Industrial Computer Controlled + Intelligent Software Windows 7 Platform
- Stepper Motor Speed Regulation for Conveyor Imported Driving Motors
- Power Input : 3 Phase 480V, Startup Consumption 43KW
- Overtemp Protection with Visual & Audio Alert
- Forced Air Convection Imported Hot Air Motors Option of Invertors Controlled Industrial Computer Controlled Option of Infrared
- Power Failure Protection UPS Standby Power Supply Time Delay Shutdown
- PID Closed Loop Controlled Independent Air Circulation by Zones Special Design in Avoiding Heat Influence between Zones
- 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
- Specialized & Critical Designed Heat Generation Structure
- Forced Air Convection Top & Bottom Independent Temperature Controlled Turbine Blower Structure
- 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 $\pm 2^{\circ}\text{C}$



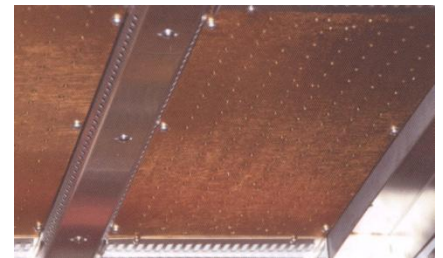
Three cooling zones for better process control.

New style hot air flow ducting for enhanced heat transfer.



Forced convection design, top and bottom zones can be controlled independently. Specially designed turbines spread heat evenly. Features high temp blower motors.

Heaters come with a two year warrantee.



	ZKS-1008	SKS-1010	ZKS-1012	ZKS-1018
Machine Dimensions (Single Track)	L5173 x W1372 x H1600mm	L5923 x W1372 x H1600mm	L6673 x W1372 x H1600mm	L8548 x W1372 x H1600mm
Machine Dimensions (Dual Track)	L5173 x W1641 x H1600mm	L5923 x W1641 x H1600mm	L6673 x W1641 x H1600mm	L8548 x W1641 x H1600mm
Weight	2550Kg	2730Kg	2930Kg	3500Kg
Color	Grey, White; Industrial Duster			
Main Control	PLC , Windows XP Platform Computer + SIEMENS PLC			
User Interface	Chinese, English Multi-Language Interface			
Heating Zones	T8/B8	T10/B10	T12/B12	T18/B18
Overall Heating Length	3200mm	3950mm	4700mm	6575mm
Cooling Zones	2 + 1			
Exhaust Requirements	3m3/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			
Overall Consumption	45 KW	56 KW	67 KW	100 KW
Startup Consumption	30Kw	32Kw	38KW	48KW
General Consumption	≤ 11Kw	≤ 12Kw	≤ 13KW	≤ 16KW
Time To Steady	≤ 20min			
Temperature Setpoint	Room Temp - 400° C			
Temperature Control	PID Closed Loop Controlled			
Temperature Accuracy	± 1° C			
Temperature Deviation (Across)	± 2° C			
Hot Air Flow	APPROX 70 CFM			
Enviromental 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 (Single Track); 50-250mm (Dual Track)			
Process Height	Mesh 875 ± 20mm; Rail Chain 900 ± 20mm			
Conveyor Speed	0-1500mm/min			
Product Clearance	Reference to Rail Chain: Topside 30mm; Underneath 30mm			
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, Overtemp & 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/hr (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	1100VA, 15-20min			