

Lead-Free Reflow Oven S-8800



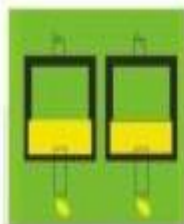
Products Introduction:

- S-8800 lead-free reflow oven is Southern Machinery's mature product after many years of market testing. S-8800 Reflow oven has maintained a larger share of the market for many years.
- Its unparalleled heating performance and temperature control system meets the requirements of various welding processes, It is Southern Machinery 's crystallization of years technical research and development. S-8800 Lead-free reflow is high-end reflow products committed to keeping up with market demand to enhance customers competitiveness.
- Its new design concept fully meets the needs of increasingly diverse processes, and considering the future direction of the industry, entirely suitable for communications, automotive electronics, home appliances, computers and other consumer electronic products .

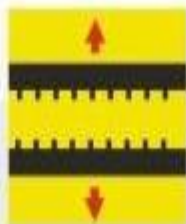
Functions



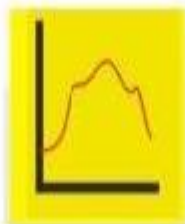
Creepage protector



Automatically Oil



Automatic Width
Adjustment



Temperature Profile
Test



UPS for PC&Conveyor



Automatic Opening
Upper Cover



PC&PLC Controlling



Automatic Annunciator
Emergency Switch



Full modularized Design
(Motor & Heater)



Air Speed Adjustment
With Transducer



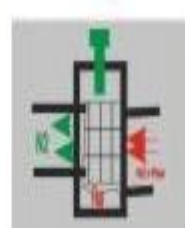
Dual Rail Conveyor
System



External Water-Cooling
System



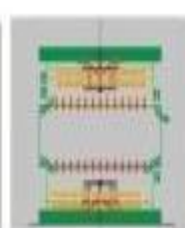
Nitrogen System



Flux Removal Function



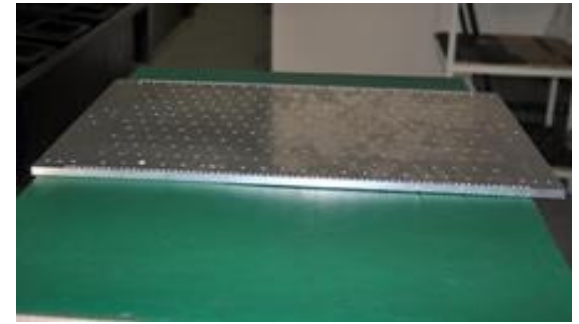
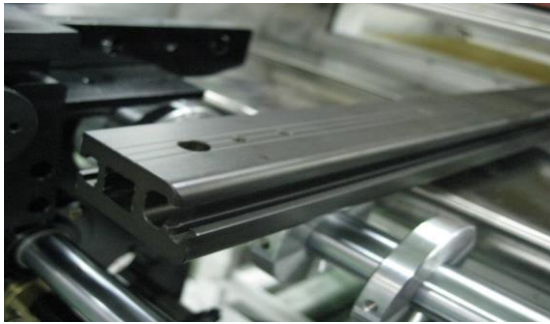
Central Support
System



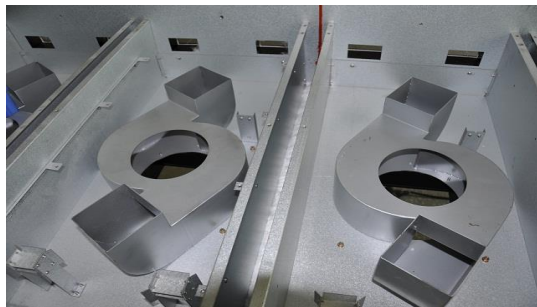
Microcirculation
System

Details Refer:

1. Transportation system and rectifying plate structure

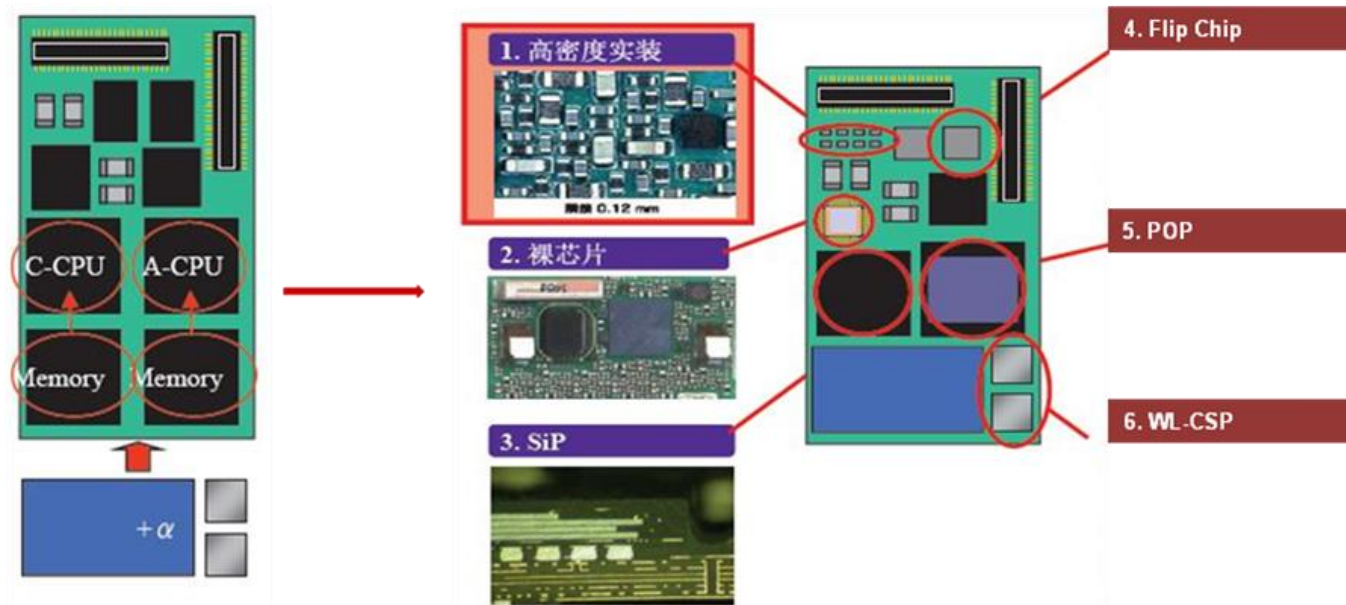


2. Chamber and high temperature structure parts



3.Application

Widely used in high precision products like 01005-QFP, BGA, CSP, Flip, and POP, automotive electronics, mobile devices, home appliances, communications, LED, semiconductor and other industries.



Specifications

MODEL	S-8800
GENERAL	
Dimension(L*W*H)	5000x1350x1550/mm
Weight	1400Kg
Number Of Heating Zones	UP 8/Bottom 8
Length Of Heating Zones	2400mm
Heating Method	Microcirculation Hot Air
Number Of Cooling Zones	2 (Internal)
Length Of Cooling Zones	800mm
Cooling Method	Natural Cooling+Fan
Standard Color	Computer White
Exhaust Volume	10m ³ /min.x2(Zone)

S-8800 (Single Chain with Mesh)

Standard Features Of Conveyor System	
Conveyor Direction	Single Chain + Mesh
Conveyor Width	550mm
Range Of Rail Width	Single Chain 50-450mm
Conveyor Height	900 ± 20mm
Conveyor Speed Range	300-2000mm/min.
Direction	L - R (Optional R- L)

Standard Features Of Control System	
Temperature Deviation on PCB	± 1.5°
Temperature Control Precision	± 1°
Zone Adjacent to the Max. Extent Lavin	Between Heating Area 50° ,Between Heating with Welding Area Max. to 100° .
Temperature Setting Range	Room Temperature ~350°
Temperature Control Method	PID +SSR Drive
Power Supply	5line 3phase 380V 50/60Hz
Power For Warm Up	36KW
Power Consumption	Can Be Set
Total Power	45KW
Trouble Aram	Temperature Alarm

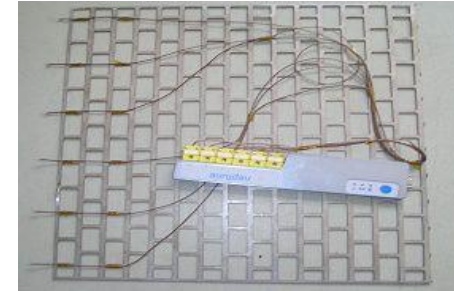
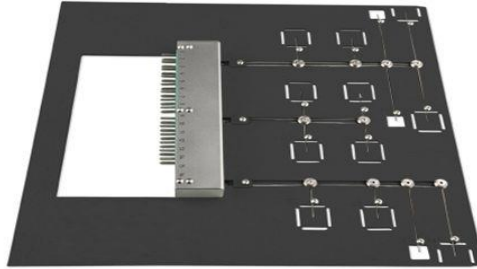
Temperature test:

Test parameters:

- Temperature control accuracy: compare the measured data with the setted temperature (each temperature zone), takes the maximum value, the value should be less than 1 °C.
- Lateral temperature difference: compare the max tested data with the minimum value (by each temperature zone), the value should be less than 1 °C.
- Thermal compensation capability: the higher over board density, the smaller temperature repeat and better thermal compensation,reference standard ± 2 °C.
- Module effective utilization assessment: Module effective utilization refers to the ratio of the actual efficient hot air time and effective heating theory module, equipment zone effective utilization "preferably should be above 65%, it will be better that can reach 80% or more.
- Heat exchange efficiency assessments: estimate the tested temperature difference under the same test conditions.



取样点	3:7.0
Channel 1	300.1
Channel 2	300.5
Channel 3	300.3
Channel 4	300.0
Channel 5	299.8
Channel 6	300.2
温差	0.9



Test result

	Rehm/ERSA	BTU	A Company	B Company	Southern Machinery
Temp. control accurate	±0.5°C	±1°C	±1°C	±1°C	±1°C
Maintenance	Good	Good	Normal	Normal	Normal
Air Transverse temperature	< 2°C	< 2°C	< 2°C	< 3°C	< 3°C
Temp. Repeat	< ±1°C	< ±1°C	< ±1.5°C	< ±1.5°C	< ±1°C
Setted and real tested temperature	< 10°C	< 10°C	< 12°C	< 12°C	< 12°C
PCB Transverse temperature	< ±1°C	< ±1°C	< ±1.5°C	< ±1.5°C	< ±1.5°C
Slope of cooling zones	(-1~8) °C/s	(-1~8) °C/s	(-1~8) °C/s	(-1~5) °C/s	(-1~5) °C/s

TOP Advantage:

- **Simple:** Combined with advanced international concepts, easy to understand, easy to learn, easy to maintain.
- **Expertise:** Learn imported reflow oven's advanced design concepts, and the machine core components are using imported top brands.
- **Hedging:** Import hardware configuration, low failure rate in production, more than a decade service life.
- **Safety:** Based on the general rules of international design, close to imported reflow rating, the highest security level.
- **Stable:** Mature software, hardware and top production processes ensures stability of each equipment.

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