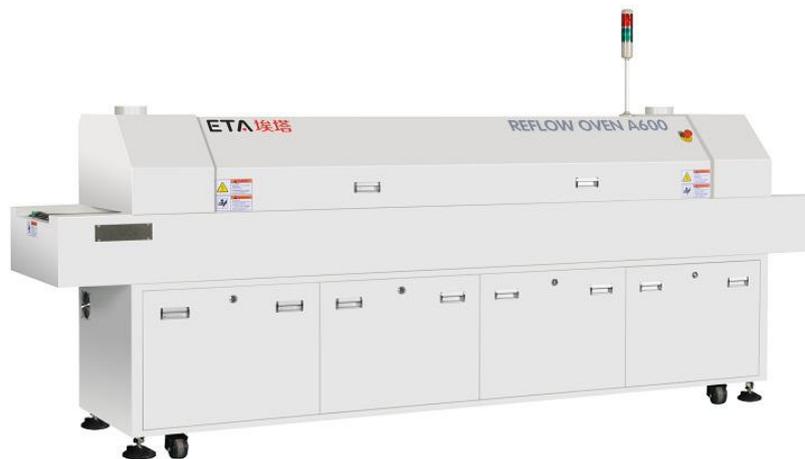


## A series lead free reflow oven

### Introduction



### Company introduction:

ETA is high-tech enterprises focused on the research and development of SMT equipment manufacturing building a new advanced solutions in surface mount (SMT), LED, semiconductor, energy and other areas, providing customers with the entire SMT solutions. Our core technology team members are from Harbin Institute of Technology, Microsoft, Siemens, Panasonic and other business institutions. Learning experience from top international chip mounters meanwhile increasing independent research and development, overseas R & D center in Israel put into operation in September 2013. Currently ETA SMT equipment is representative of high quality , has maintained absolute leading technology in the industry.

Founded in 2000, over the years the company has been committed to improving technology, quality and perfect service. To meet the revolutionary changes taking place in the manufacturing sector, ETA has made customer-oriented strategic adjustment.ETA 3-generation visual pick and place machine M3 is mainly for LED Mounting, S series reflow oven is meeting the high-quality lead-free reflow soldering component 03015, ETA is narrowing the gap with the imported SMT equipments. As a IPC member company, ETA makes a positive contribution to international standard,the annual total capacity of 1200 sets, passed the ISO9001: 2000, ISO14000, CE, UL, RoHS and other certifications. Full implementation of the IPD process, reliable design and testing throughout the entire product life cycle. ETA's continued investment in research and development and great contribution has been unanimously recognized in the field.

By the end of 2012, ETA has declared more than 30 patents and software copyrights (including four invention patents), and actively involved in a number of national and industry standards. ETA provides more

advanced products and fast technical support for global customers, at home and abroad (including Germany, India, Brazil and Vietnam) has multiple marketing centers and technical support center and agent partners world-widely.

## Products introduction:

A series lead-free reflow oven is cost-effective welding equipment produced by ETA, mainly to deal with the application of small household appliances, LED, power panels and other products. A series reflow oven has won the favor of many customers for its high performance.

## Features:

1. Control system:Computer or Instrument control,make sure machine working steadily.
2. Hot air heating:Both top and bottom zones hot air heating,good heater compensatory,High thermal efficiency,energy saving,speedy heating,suitable for soldering components like BGA,CSP etc. Special forced hot air circulation structure makes PCB and components heat evenly, Temperature Accuracy  $\pm 1.5^{\circ}\text{C}$ , room temperature settling time less than 20 minutes.
3. PID intelligent precision controller,automatically control heating volume, fuzzy control function changes the external heating fast,and by internal control ensures more balanced temperature.
- 4.Use imported big current solid relay,without touch point output,safe,reliable,with special SSR radiator,greatly improve thermal efficiency and lifetime.
- 5.Temperature protection: ETA using third-party over-temperature protection, multiple layers protection to ensure safe operation.
- 6.Products comply with CE,CCC,UL and other standard or specifications.
- 7.User-friendly design: fault detection (such as heaters abnormal alarm, etc.), regular maintenance reminders, the economy functions and tool-free maintenance, reducing equipment failure rates.
- 8.With independent wheel support structure and even support,combined with a stainless steel mesh conveyor,steady running.
- 9.Independent cooling area ensures the low temperature when PCB comes out.
- 10.Transmission system use imported motors,speed adjuster,smoothly running,adjustable speed at 0-2000mm/min.
- 11.Main parts:Imported main parts ensure equipment runs smoothly and lower the maintenance cost.



- 12.Special durable stainless steel mesh belt, not out of shape with long term use.
- 13.On the Windows platform,it's convenient to save the temperature curve.
- 14.Functions like temperature tolerance, fault diagnosis, sound and light alarm.

## TOP Advantage:

- 1.Simple: combined with advanced international concepts, based on the Oriental-designed operating system, easy to understand, easy to learn, easy to maintain.
- 2.Expertise: learn imported reflow oven's advanced design concepts, and the machine core components are using imported top brands.
- 3.Hedging: Import hardware configuration,low failure rate in production,more than a decade service life.
- 4.Safety: Based on the general rules of international design, close to imported reflow rating, the highest security level.
- 5.Stable: mature software, hardware and top production processes ensures stability of each equipment.

## Products specification:

ETA Reflow Oven Specifications					
S - Standard, O - Option, M - Manual, A - Auto, N/A - Not Available)					
Specifications	A600	A800	Specifications	A600	A800
Dimension (L*W*H)mm	3600x720x1250	4200x1150x1490	Temperature Control Method PID + SSR	S	S
Standard Color	Computer Grey	Computer Grey	Temperature Control Precision	± 1.5℃	± 1.5℃
Weight	Approx.420KG	Approx.650KG	Temperature Deviation on PCB	± 1.5℃	± 1.5℃
Number Of Heating Zones	Up6/Bottom6	Up8/Bottom8	Commutated Element	Plate	Aluminum Alloy Plate



Length Of Heating Zones	2300mm	2600mm	Max. Temp. Gap Between Preheat Zones Setting	30℃	40℃
Number of Cooling Zones	1	1	Max. Temp. Gap Between Reflow Zones Setting	40℃	50℃
Length Of Cooling Zones	300mm	300mm	Temperature Alarm	S	S
Exhaust Volume	10M <sup>3</sup> /minx2 Exhausts	10M <sup>3</sup> /minx2 Exhausts	Board Dropped Alarm	N/A	N/A
Control System	Instruments	PLC+Computer	Electrical SMEMA Interface SEMEMA	N/A	N/A
Computer	N/A	N/A	Rail Number	N/A	N/A
Siemens PLC	S	S	Max.Width Of PCB	350mm	350mm
Electric Supply Required	3phase,380V 50/60Hz	3phase,380V 50/60Hz	Components Clearance	Top/ Bottom is 25mm	Top/ Bottom is 25mm
Power For Warm Up	15KW	20KW	Conveyor Direction	L→R (Option: R→L)	L→R (Option: R→L)
Power Consumption	5KW	6KW	Transmission Agent	Mesh	Mesh
Warming Time	Approx.20 minute	Approx.20 minute	Conveyor Height	900+/-20mm	900+/-20mm
Temp. Setting Range	Room Temp.-- 300℃	Room Temp.-- 300℃	Conveyor Speed Range	300~ 2000mm/min	300~ 2000mm/min
Cooling Method	Air fan	Air fan	Lubrication Auto-Afflux	N/A	N/A

## Service

- 1.Pre-consultation: provides professional SMT solutions for the full line.
- 2.Factory Warranty: One-year warranty factory service.
- 3.Installation: On-site installation and commissioning, to ensure smooth production
4. Technical Training: provides professional training from Level 1 to Level 3
- 5.Technical support:provides 7 \* 24 technical support
- 6.Software Upgrade: offers lifetime free software upgrades for all products

Thanks for choosing ETA.  
ETA looks forward to win-win cooperation.  
Thank you.