KTR-1000 Specification:

Model	KTR-1000	Control	Industrial computer		
Heating zones quan.	Top 10, bottom 10	Cooling zones	Top 3, bottom 3		
		quan.			
Heating zone length	3892mm	Current plate	Thick copper plate		
Weight	APPROX:2700KG	Dimension	6300*1430*1530mm		
Exhaust capacity	10m²/min×2	Color	Grey		
Control system					
Electricity supply	3P 380V/220V 50/60HZ	Temp. control	Room temp. ~ 300°C		
Electricity supply		range			
Total power	80KW	Temp. control	±1°C (static state)		
Total power	OUK W	accuracy	±1 C (static state)		
Start power	36KW	Temp. control	PID +SSR drive		
Start power	301111	method	TID SOIL GIVE		
Consumption power	11KW	PCB temperature	±1.5℃		
		deviation			
Speed control	3 sections with 3	Data save	All profiles can be		
Speed control	inverters		saved		
Warm up time	Apprx.30minute	Abnormal alarm	High, low temp. alarm		
<u>Conveying system</u>					
Rail structure	2 Sectional structure	Rail fixed method	Front fix		
Chainstructure	Stuck-free type	Conveying height	900±20mm		
PCB Max. width	60-460mm	Conveying	Rail+ chain+ central		
		method	support		
Component height	Top/bottom 25mm	Conveying speed	300-2000mm		
Conveying direction	Left to right	Lubrication	Automatic		
<u>Cooling system</u>					
Cooling method	Forced air cooling				

<u>Heating features</u>				
Heating zones	Top 10,bottom 10 (3892mm) can meet the need of the peak lead-free technique.			
Cooling zones	After cool down by air, PCB temp. is ≤70°C at the exit.			
Warm up time	From the normal temp, to set temp, approximate 30 minutes.			
Warm up sequence	Warm up from two side, save the power and time			
Profile transfer time	< 15min			
Heating zone temp.	±1°C			
PCB temp. deviation	±1.5°C			
Empty→ full load heat balance respond time	≤20 s			
Heating zones separately close function	Every heating zone can be closed separately on computer. When the bottom heating zones are closed, the PCB two sides temp. different reaches max.(PCB of different material, thickness, size, the temp. difference value is different.)			
Heating parts				
Hot air motor	Import anti high temperature motor, RPM:2800rpm. Adopts inverter to control, can adjust the speed of motor from 0to 3000, stepless. Motor warranty is 5 years.			
Heater	The heater is specially made, with high efficiency and sensitivity, warranty time is 5 years.			
Air lane structure	High efficient air lane, provides abundant air			
Exhaust system	Forced exhaust device, ensure no escape of flux.			

Transmission parts			
Anti torque rail	High strength and hardened rail, is very durable and wear resistant.		
Rail parallelism	±0.3mm		
Chain stretch out	Standard: 5mm, the chain is anti-stuck type, solve the soldering		
length	problem of small PCB		
C/V speed set	0.01m/min, 0~2m/min		
min.unit range	0.01m/mm, 0~2m/mm		
C/V speed deviation	Computer close loop, within ±2%		
range	Computer close loop, within ±2%		
Chain tension device	Automatic adjust by spring, avoid the chain stuck due to the heating.		
Conveying motor	Panasonic adjustable motor		
Chain lubrication	The lubrication is controlled by PC, lubrication cycle and time can be		
	set (there are three modes: fine, standard, economical. There is also		
	manual lubrication in software)		
Rail width-adjusting	Independent adjusting		
Machine structure			
Frame	The frame is well soldered, firm and durable.		
Door	Dismountable structure, provide wide space for maintenance.		
Hood open method	Double electric cylinder to open the hood, with self-lock function,		
	safe and reliable.		
Cover open method	Self-made holder, easy to clean up		

Electrical parts and c	control performance		
Control system	Industrial PC	PLC+ Modular + PID, stable and reliable, with high repeat accuracy	
Operation interface	Windows7 with Chinese& English shift easily.		
Machine&operator safety	With creepage protector		
Electric part	All electric parts are imported, very durable, ensure the machine runs stably.		
Working mode	Three working mode: operation, edition and presentation, with on-line editing function		
Real time monitor	Generate the operation record daily, if there happen some problems, the responsible operator will be found easily.		
Temperature profile	Generate the profile for each zone daily, user can review and analyze. This function is not for PCB profile testing, just for inspecting when some problem happens in a certain zone.		
Production database	Generate production statement for all kinds of PCB and statistics, printable.		
Alarm list	The system saves all alarm information for user to review the alarm item and time.		
Alarm system	The system enters cool down mode when the alarm is strict.		
Profile test	With temp. profile testing function, can analyze according to the profile.		
Abnormal alarm	1.PCB runs abnormally 2. Operation abnormal 3.Temperature abnormal 4.Conveyor speed abnormal 5.Hot air devices abnormal.		
Flux recycle device	Standard configured. When use nitrogen, as it is closed recirculation, if the flux fog cannot be spread, it will pollute the PCB.		
After-sales services			
Warranty	2 years for the whole machine, 5 years For motors, heaters.		
Out of warranty	Charge only purchase price for parts.		
Service respond time	12 hours		