



## YIHUA-853AA, YIHUA-853AAA BGA ReworkStation

### Features

1. YIHUA-853AA, YIHUA-853AAA BGA rework station is 2 in 1 BGA rework equipment integrated with the preheating station and hot air gun. It is designed with the latest SMD technology, on the basis of the current market demand.
2. Yihua-853AAA is added with the 3 in 1 function of the soldering station. It occupies less area. This conventional machine is practical, powerful, and energy-saving. It can basically meet all applications.
3. The temperature control part masters the core technology. The air guns use SAMSUNG microchip PID control procedures to speed 100ms cycle of real-time tracking and real-time correction of the air gun outlet wind and soldering iron tip temperature. Therefore, the rework station comes with high temperature stability.
4. PID speed 100ms rapid temperature correction, high energy efficiency conversion at a constant temperature help lower the power consumption. This equipment saves more energy than the comparable machines.
5. YIHUA853AAA also uses the high temperature silicone cable which won't be damaged within 30s when exposed to the soldering tips of 300 degrees. Its heating element is Hakko heater featured by high power and fast temperature compensation. This equipment is particularly suitable for de-soldering crude terminals, solder joints, and miscellaneous difficult solder joints.
6. The rework station comes with the air gun handle safe protection. After connected to the power supply, it won't start the normal working until the handle has been placed on the air gun frame. If the handle is not put on the air gun frame, the main unit couldn't get the safety directs. The purpose is to effectively prevent the damage caused by the unknown circumstances that the air gun is placed in the areas of fire or other places.

### Parameters

Machine Unit	
Rated Voltage	AC 220V±10% 50Hz

Power	1270W	
300°C The thermostat power of (high-speed PID programmable energy saving)	250W±10%	
<b>Working Environment</b>	<b>0~40°C relative humidity&lt; 80%</b>	
Storage Environment	-20~80°C relative humidity< 80%	
Body Size	255*188*125mm	
Weight	7.26KG	
<b>Parts Parameters</b>		
Item	Hot air rework	Soldering iron
Work Voltage	AC 220V±10% 50Hz	AC 26V±10% 50Hz
Output Power	720W	75W
Temperature Range	100°C~480°C	200°C~480°C
Airflow Type	Brushless fan	---
Air Flow	120L/min (Max.)	---
Temperature Stability	±1°C (Static)	±1°C (Static)
Display Type	Red/green LED display	Red/green LED display
Temperature Correction Type	The PID digital program proofreading	The PID digital program proofreading
PID Temperature Correction Cycle	Rapidly 20ms	High-speed 100ms
Heating Elements	Ceramic skeleton heater	Hakko heater
Standard Nozzles/Tips	(10mm, 8mm, 5mm, 13mm) 4 PCS nozzles	B
Tip Ground Impedance	---	< 2Ω
Tip of Ground Voltage	---	< 2mv
<b>DC Power Supply</b>		
Output Voltage	0~30V	
Output Current	0-5A adjustable	
Protection Type	Short-circuit over-current	
Voltage/Current Display	Red/green LED display	
Load Stability	< 0.01±2mv	
Ripple dB	< 1mvrms (virtual value)	

### Application

This equipment is suitable for various kinds of soldering or de-soldering (removals) purposes of the electronic components such as: SOIC, CHIP, QFP, PLCC, BGA, SMD, etc. It is ideal for other purposes, including thermo shrinking, paint drying, adhesive removal, thawing, warming, plastic welding, etc. It is especially ideal for mobile phone's cable.

DC power supply suitable for scientific research, product development, laboratory, laptop maintenance, etc.

This BGA rework station is chiefly applied in the following fields:

1. Industrial production of electronic products assembly
2. Scientific research departments for product development
3. Repair industry for electronic product repair
4. Enterprises electrician soldering operation
5. Students of various Colleges Electrical Skills Training