Shenzhen Dinghua Technology Development Co., Limited
4th Floor, Bulding 6B, St. George Industrial park, Xinyu Road, Shajin, Baoan, Shenzhen, China
Tel: +86-755-29091833, Mobile: +86-13713526219, Email: sales63@dinghua-bga.com

DH-A4D Automatic Optical Alignment
(Plus size, Wide Uses, Direct Manufactured)



Auto de-soldering, feeding & re-soldering, with intelligent reminder for next step

Support compressed nitrogen to avoid rust, Panasonic optical, laser positioning

Precise multiple temp. control system, German imported IR Infrared pre-heater

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Specification:

Total Power	6800W
Top heater	1200W
Bottom heater	2nd 1200W, 3rd German IR infrared heater 4200W
Voltage	AC220V/110V ±10％ 50Hz/60Hz
Operation mode	Double joysticks operation. Fully automatic positioning, soldering, cooling, integration.
Optical CCD camera lense	Automatic Frontward / backward, right / left, or manual by joysticks
Camera magnification	2.0 million pixels(Digital zoom 10X-180X times)
Workbench fine-tuning:	±15mm forward/backward, ±15mm right/left
BGA positioning	Laser position, fast and accurate position of PCB and BGA
Top air speed	Can be adjusted by adjusting knob, prevent tiny bga from movement.
PCB Positioning	Intelligent positioning, PCB can be adjusted in X, Y direction with “5 points support” + V-groove pcb bracket + universal fixtures.
Temperature control	K sensor, close loop, PLC control, Servo driver
Placement accuracy:	±0.01mm
Temp accuracy	±1℃
Lighting	Taiwan led working light, any angle adjustable
Temperature profile storage	50000 groups
PCB size	Max 500×420 mm Min 22×22 mm
BGA chip	1x1 - 80x80 mm
Minimum chip spacing	0.1mm
External temper sensor	4pc
Dimension	790x60x950mm
Net weight	95KG

Features:

1. High definition touch screen conversational interface, drawer type design, PLC control, Intelligent man-machine, digital system setting, fully automatic position, soldering and desoldering integration. HD CCD monitor, Coordinate Orientation, intelligent temperature curve control. Meanwhile, with muti-function: “keep same temperature”, “instant curve analysis” and “voice warning before heating finish”. Real-time actual temperature and temperature curve setting can also be used to analyze and correct the curve if necessary.
2. High precise k-type thermocouple closed-loop control and PID automatic temperature

compensation system, with PLC and temperature module and intelligent control unit to enable precise temperature deviation on ±1℃. Meanwhile, external temperature measurement connector enables temperature diction and accurate analysis of real time temperature curve.

3. Used Panasonic servo control unit to realize automatic control of position, soldering and desoldering: stable, reliable, safety and high effective.
4. Optical alignment system, auto focus, auto magnification, auto color separation. Also, with micrometer, fine-tuning position of pcb and bga.
5. Panasonic camera Lens automatic frontward/ backward, and manual frontward/backward, right/left with joysticks, to avoid “dead angle”.
6. Automatic feeding system can be added if need, more intelligent and effective.
7. Movable universal fixture + V-groove bracket prevent pcb from damaged on fringe component, suitable for all kinds of pcb repairing. Meanwhile, X, Y and R axis can be fine-tuning with micrometer, fast, accurate and convenient positioning.
8. With different size of magnet nozzles, titanium alloy material, 360 ºrotation, easy replace and install, never deformation and rusty.
9. Three heating zones can independently heat and they are multiple temperature control, which can ensure best integration of different temperature areas. Heating temperature, time, slope, cooling and vacuum can all be set and controlled in touch screen conversational interface. Meanwhile PID calculation to control heating process more accurate and more stable.
10. 6-8 segments temperature can be set for top heating and lower heating(up to 16 segments). 50,000 groups of temperature curves can be stored, which can number, modification and apply at any time according to different BGA. Curve analysis, setting and adjustment are also available on touch screen.
11. With Voice warning 5-10 seconds before heating finish: remind operator to pick up bga chip on time. After heating, cooling fan will work automatic, when temperature cool down to room temperature (<45℃), cooling system will stop automatic to prevent the heater from aging.
12. CE certification approval. Double protection: Overheating guard + emergency stop function.
13. Machine comes with instruction and Machinery maintenance records, easy and convenient for search and maintenance.
14. To ensure temperature accuracy, temperature adjustment of machine strictly according to <<Process capability analysis of the measured temperature>>. To ensure placement accuracy, alignment system strictly according to << X, Y, repeat SMT process capability analysis>>

With Manual and video demonstration CD-ROM, The information is easy to understand.

Training included if needed.

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Company profile

SHENZHEN DINGHUA TECHNOLOGY CO LTD is a manufacturer specialized in design, production and sales of BGA Rework Station, rework tools and associated equipment. We are committed to provide the most advanced equipment with high quality and timely service to our customer. As one of pioneer in this industry, we continue to improve and innovate along with the market demands by absorbing the advanced development experience abroad and adhering to our vision of 'Professionalism, Honesty, Innovative and Responsibility'.

Providing leading technology is our primary motives. Through teamwork, we achieved the core thermal-control technology with related patent. At the same time, our products cover 3 categories: high-end, mid-end and low-end for development and production using manual, semi-auto to fully automated processes. Our market had expanded into industries like: individual repair, factories, education, military and aerospace etc. At the same time, we had established the point-of sales and end service at locally and abroad.

Your satisfaction is our pursue, adhering to customer-focus, market oriented, our company provides fist class products and high efficient services for customers through continuous innovation. We are honored to work with you to create a brighter future.



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