

Alpha 1 Technologies

ZHX-Y50 Pick and Place Gantry



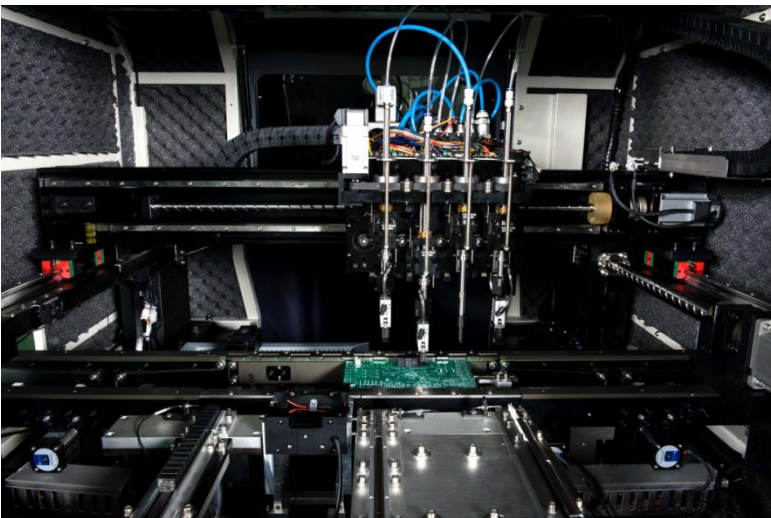
Machine Highlights

- Dual vision system positioning, component vision recognition with automatic compensation & reject if over specification
- Modular feeder unit, capable to handle bulk, tape and tray package components up to 8 stations
- 3 sectors conveyor structure, efficiently reduce idle time and maintain positioning accuracy
- Varies type insertion nozzles, rapid nozzle change, enhanced machine flexibility
- Optical correction for insertion head centering & home position
- 0-360° insertion angle
- Industrial computer controls, high precision servo driving system
- High rigidity machine frame and structure, maintain stable operation & high speed accuracy requirement
- PCB Dimension: 50x50mm-350x300mm
- PCB Thickness: 0.60-2.36mm
- PCB Deformation: Raised <1mm, Sunk <1.5mm
- Hole Size: Increase 0.5mm in diameter of lead



The Y50 features a four spindle placement head that offers the flexibility for a wide variety of part placement.

The Y50 can be fitted with a variety of feeder options, Radial Tape Feeder, Multi-tube Feeder, Bulk Component Bowl Feeder, and Tray Feeder.



The Y50 uses “Off the Shelf” components to save money and extend the service life of your equipment.

Techwin ZHX-Y50 Specification

General Specifications	
Theoretical Speed	1.2~2 sec/component
Insertion Direction	0°- 360°, 1° Increment
Board Size	Min 50mm*50mm Max 350mm*300mm
Board Thickness	0.6~2.36mm
Component Style	Capacitor, Transistor, IC, Inductor, Connector, Transformer & etc..
Component Size	< L30 x W35 x H30mm
Insertion Accuracy	±0.05mm (3σ)
Repeatability	±0.02mm
Insertion Head	4 sets
Feeder Capacity	2 ~ 6
Feeder Type	Multi-tube Feeder, Bulk Component Bowl Feeder, Tray Feeder
Programming Method	Manual Teaching, Vision Teaching, Excel Format Data Input
Component Alignment	CCD Vision Recognition (2.0 Mega pixel industrial CCD)
Board Offset Correction	Fiducial mark recognition by Industrial CCD
PCB Conveyor	3 Sector Belt Driving, board flow L→R or R→L
	Auto Width Adjustment
	Process Height 900mm±20mm
Operation System	Industrial Computer, Windows Platform, LCD Display
Machine Dimension	Main Body: W1400xD1300xH1600 mm
Weight	Main Body : Approx 1000kg
Power Requirement	AC220V, Single Phase, 50/60Hz, 1.5Kw
Power Protection	UPS, 15 minutes duration after power cut-off
Air Pressure	0.4-0.7 Mpa
Air Consumption	100NL/min