

## Enhanced model from AP series Handler



### Product Highlights

- 4-site (expandable up to 16 sockets) pick-and-place automated programming system!
- Throughput up to 1000 UPH
- Downward CCD camera for vision centering and Auto Teach
- High-speed upward CCD camera for placement alignment
- High-speed H9600 universal programmers
- Fully integrated subsystems with network-oriented JOB software
- Network-oriented JOB Windows software with USB interface
- Optional I/O media for tube and tape packages
- Available gang socket boards

# Specifications

## • Pick & Place System •

- ▶ Throughput: up to 1000 devices per hour
- ▶ Placement accuracy:  $\pm 0.05\text{mm}$
- ▶ Placement repeatability:  $\pm 0.03\text{mm}$
- ▶ Placement force: 95 grams
- ▶ Pick-and place method: single vacuum nozzle
- ▶ Component detection: vacuum sensor

## • Physical Specifications •

- ▶ Dimension: 160(L) \*90(W) \*140(H) cm  
(Display included) 63.0 \*35.4 \*55.1 inch
- ▶ Shipping dimension: 190(L)\*120(W)\*170(H) cm  
(Options not included) 74.8 \*47.2 \*66.9 inch
- ▶ Net Weight: 550 kg (1210 lbs.)
- ▶ Shipping Weight: 650 kg (1430 lbs.)

## • Drive Systems and Specifications •

- ▶ X-Y drive system: Servo motor drive system
- ▶ X axes resolution: 0.001 mm
- ▶ Y axes resolution: 0.001 mm
- ▶ X-Y axes repeatability: 0.010mm
- ▶ X-axis maximum velocity: 1500mm/sec
- ▶ Y-axis maximum velocity: 1500mm/sec
- ▶ Z-theta drive system: Servo motor
- ▶ Z axis resolution: 0.001 mm
- ▶ Z axis repeatability: 0.020mm
- ▶ Z axis maximum velocity: 500mm/sec

## • Alignment System •

- ▶ Upward camera:  
IC dimension up to 35 x 35 mm  
(for device position recognition.)
- ▶ Downward camera:  
Region of Inspection 35 x 35 mm  
(for sockets and I/O position teach)

## • Programming System •

- ▶ Programming sites: 4 sites of H9600 Universal Programmers
- ▶ Devices supported: EPROM, EEPROM, Flash, PLD, CPLD, FPGA, Micro-controllers, Anti-Fuse and more.
- ▶ Packages supported: PLCC, TSOP, TSSOP, TQFP, PQFP, SOIC, SSOP,  $\mu\text{BGA}$ , CSP and more.
- ▶ Model H9600 RAM Buffer: 2 Gbits
- ▶ Communications: USB

## • System Software •

- ▶ User interface: Windows-based HMI
- ▶ Operating system: Microsoft® XP or Windows 7

## • Operating Requirements •

- ▶ Input voltage: 220/220/240, Single phase, 3-wires.
- ▶ Input line frequency: 50/60 Hz
- ▶ Power consumption: 0.8 KVA
- ▶ Air pressure: 75 to 95 PSI (0.4 to 0.6Mpa)
- ▶ Air flow: 100 liters/min (Peak)
- ▶ Operation temperature range: 15° to 30°C (59°-86°F)
- ▶ Relative humidity: 35-90%

## • IO Media Subsystems •

- ▶ Tray In / Out: Manual Type

## • Optional Subsystems •

- ▶ Tray In / Out: JEDEC trays up to 20 plates
- ▶ Tape In / Out: 8mm to 56mm
- ▶ Tube In /Out: SOIC8 to PLCC84
- ▶ Label Feeder: Hover Davis and more

## • Regulatory Compliance •

- ▶ CE Compliant