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An Enhanced Model from the Reliable AP700



Product Highlights

- An automated device programming system equipped with 4 sites of System General H9800 Universal Programmers!
- A redesigned Z axis and optimized motion algorithms to elevate throughput up to 1000 devices per hour!
- A new digital airflow regulator to set the system for handling ultra-small device packages!
- A new downward CCD and an optional "Code Recognition S/W" to decipher those 1D/2D codes (OCR, QR Codes, Barcode and more), and to integrate code recognition and device programming in one programming flow!
- A high-resolution upward CCD to detect the pickup offset for small package types and to align them for accurate placement!
- Coupled with the new S-type gang socket boards and the new FAST algorithm, each embedded H9800 site programs up to 4 NAND/NOR Flash, or 8 eMMC Flash simultaneously at high speed!
- Supports all I/O peripherals and inspection systems, including Tray, Tape, Tube, Ink-dot Marker, 2D/3D Inspection Modules.



Specifications

Pick & Place System •

▶ Throughput: up to 1000 devices per hour

Placement accuracy: ±0.05mm
 Placement repeatability: ±0.03mm
 Placement force: 95 grams

Pick & place method: single vacuum nozzleComponent detection: vacuum/airflow sensor

Physical Specifications

▶ Dimension: Auto Tray included

160(L) *90(W) *140(H) cm 63.0"(L) *35.4"(W) *55.1"(H)

▶ Shipping dimension: Options not included

74.8"(L) *47.2"(W) *66.9"(H)

Net Weight: 580 kg (1276 lbs.)
 Shipping Weight: 700kg (1540 lbs.)

• Drive Systems and Specifications •

► X-Y drive system: Servo motor drive system

X axis resolution: 0.001mm
Y axis resolution: 0.001mm
X-Y axis repeatability: 0.010mm
X-axis maximum velocity: 1500mm/sec
Y-axis maximum velocity: 1500mm/sec
Z-theta drive system: Servo motor
Z axis resolution: 0.001mm
Z axis repeatability: 0.020mm
Z axis maximum velocity: 900mm/sec

• Alignment System •

▶ Upward camera:

IC dimension up to 35 x 35 mm (3M pixels resolution, for device position recognition.) $_{\rm I}$

Downward camera:
 Region of Inspection 35 x 35 mm
 (3M pixels resolution, for sockets and I/O position teach)

• Programming System •

▶ Programming sites: 4 sites of H9800 Universal Programmers

▶ Devices supported: EPROM, EEPROM, NAND/NOR/SPI Flash,

eMMC, PLD, CPLD, FPGA, Microcontrollers and more.

Packages supported:
PLCC, TSOP, TSSOP, TQFP, PQFP, SOIC,

SSOP, µBGA, CSP and more.

▶ Model H9800 RAM Buffer: 16 Gbits▶ Communications: USB 2.0

• 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%

► Vacuum release air flow

adjustment range: 0.01~ 3.00 liter/min

• IO Media Subsystems •

▶ Tray In / Out: Up to 20 JEDEC trays

• Optional Subsystems •

Tape In / Out: 8mm to 56mm
 Tube In /Out: SOIC8 to PLCC84
 Label Feeder: Hover Davis and more
 3D Lead Inspection: ROI (45mm x 45mm)

• Regulatory Compliance •

CE Compliant



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