



HCT-800S Automatic SMT Pick & Place Machine

As HCT-800S SMT Pick & Place Machine that equipped with 8 heads as well as a new flying vision system, the HCT-800S realizes a chip mounting speed of 20,000 CPH. In addition, it is applicable to 0402 chips to the largest 30mm ICs by default and increases actual productivity and placement quality by applying a smart nozzle checking and replacing system.

Technical Parameters

Model		HCT-800S
Number of Heads 贴装头	Vision on the Fly 飞行视觉	8
Placement Rate 速度	Under the optimum condition 最优	20000CPH
	IPC9850	15500CPH
Feeder Capacity 飞达料位	Front and Back 前后	64 Tape Feeders (8mm)
IC Tray Capacity IC 托盘	325 x 135mm	2
Component Alignment 原件校正		Vision Detection 视觉识别
Component Sizes 原件尺寸	Handled by Head Camera 头部飞行相机	Smallest: 0201 (inch)
		Largest: 10 x 8 (mm)
	Handled by Fixed Bottom Camera 底部固定相机	Smallest: 1206 (inch)
		Largest: 30 x 30 (mm)
Resolution	X/Y Axis XY 轴	Magnetic Levitation Linear Motor 磁悬浮直线电机
	Z Axis Z 轴	Step-Servo Motor 步进伺服马达



Rotation 旋转角度		0 to 360°
Placement Accuracy 贴片精度		±0.05mm
X-Y Repeatability 重复精度	Magnetic Grid 磁栅	±0.002mm
PCB Size 基板尺寸	Maximum	L 300 x W 250mm
	Minimum	L 50 x W 50mm
Programming 编程		Vision Teach-in 视觉编程
		Coordinates Import 坐标导入
Main Control 主控制		Industrial PC 工业电脑
Power 电源		AC 220V ±10% (50/60Hz, 1 phase)
		Max. 3.0KW
Air Pressure 供气		0.55-0.7MPa (5.6-7.1kgf/cm ²)
External Dimension(mm) 尺寸	L x W x H	1150 x 1370 x 1500 mm
Mass 重量		Approximate 1500kgs

Product Features

- Vision On the Fly Alignment
- Bottom Vision Alignment System for big components/IC
- Fiducial recognition and coordinate correction
- Conveyor system with SMEMA interface and automatic-width-control
- Magnetic levitation linear motor in X and Y axis for high repeatability and stability
- **Smart Nozzle System provides automatic nozzle checking and replacing**
- Perfect for medium & high volume production
- Strong and rigid mechanical design
- Optimized pick / place routing design, ensures precision and speed
- Each mounting head has its own Z - direction step-servo motor, which is designed for vertical motion
- Works with different types of high-precision nozzle
- For different PCB , FPC, MCPCB, PSB, etc.;
- Suit for variety of SMD components: resistors, capacitors, IC, QFP, CFP, etc.
- Using imported high precision ball screw, motor, solenoid valve, cable, etc., effectively improve the placement accuracy, stability.

Excellent Quality Hardware Support

Ball Screws	KURODA / THK / NSK (Japan)
Linear Guide	HIWIN (Taiwan)
Magnetic Levitation Linear Motor Driver	SERVOTRONIX (IRAQ)
Servo Motors & Drivers	PANASONIC (Japan) / MOONS (China)
Stepper Motors & Drivers	MOONS (China)
Cables & Tank Chain	IGUS (Germany)
Solenoid Value	CKD (Japan) / MAC (America)
IPC	Independent Research & Development



Attached 1: P&P Machine Standard Spare Parts List

No.	Specifications	Qty
1	Standard Samsung Nozzles	24
2	Hexagon Wrench Tool 六角扳手	1
3	Feeder Stand 飞达料架	2