A & A Global Resources Pvt. Ltd.

327, Siddharth Towers 12/3B, Kothrud, Pune, Maharashtra 411038
Website: http://www.smt-india.com/
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Four Head Flying Camera Pick and Place Machine
AA-PP-F452/AA-PP-F452L (Flying Camera)
Automatic nozzle replacement function

Your partner in SMT Automation since 1993

Desktop Four Head Flying Camera Chip Mounter
AA-PP-F452 (Flying Camera)

Vertical Type Four Head Flying Camera Chip Mounter
AA-PP-F452L (Flying Camera)

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A & A RESOURCES
Creating Future Together

AA-PP-F452L

Average Mounting Speed 7500-11000CPH

Automatic nozzle change (12-hole nozzle library)

Independent Z-axis simultaneously picking+high speed flying camera

Bulk components automatic identification

Separable machine and base

Imported TBI high-precision grinding ballscrew + Imported TBI high-load linear guideway+Japanese Servo Motor

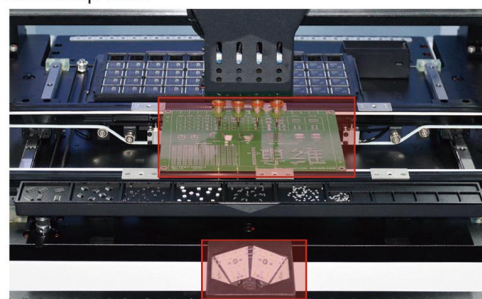Transmission board by guide rail(No manual)

Components library function

Advantages ① High-end accessories are used to ensure the accuracy and stability of the machine at high speed operation

The machine has used imported TBI high-precision grinding ballscrew and TBI high-load linear guideway.The noise is low when the machine is running at high speed.The machine has long service life and small error.

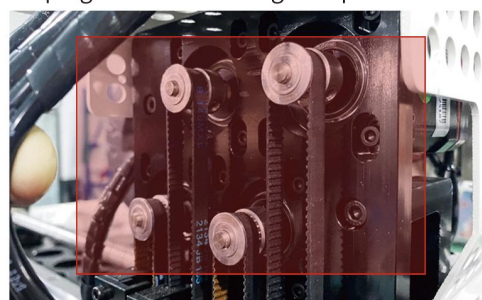

The recognition camera use high-frame rate flying camera with Gigabit network port communication,compared with the traditional USB communication interface,the recognition speed is faster,the accuracy is higher,and high- speed recognition without step loss.

The XY Axis use Japanese servo motors,to control the repeated positioning accuracy error within 0.01mm,it also support mounting 0201 and pin pitch above 0.3mm QFP, BGA and etc.

The "closed-loop" Z Axis motor (four sets) will not lose step when running at high speed.Each set of motors controls a suction nozzle,which can support various picking ways(4 heads simultaneous picking,2+2simultaneous picking),it can be programmed according to requirements.

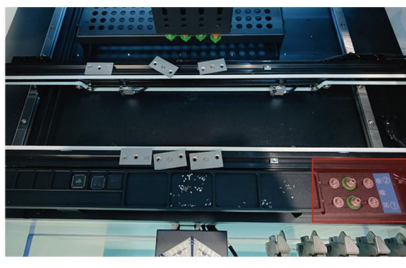**A&A RESOURCES** Creating Future Together

Advantages ② Compared with other similar model in the same industry, our machine have been upgraded variously, its performance is far better than other machine's

Supporting bulk components identification function, can put components in 12 areas, can automatically scan and identify the bulk components. This is our exclusive development mounting system, it can also be used as a bulk components tray for mounting.
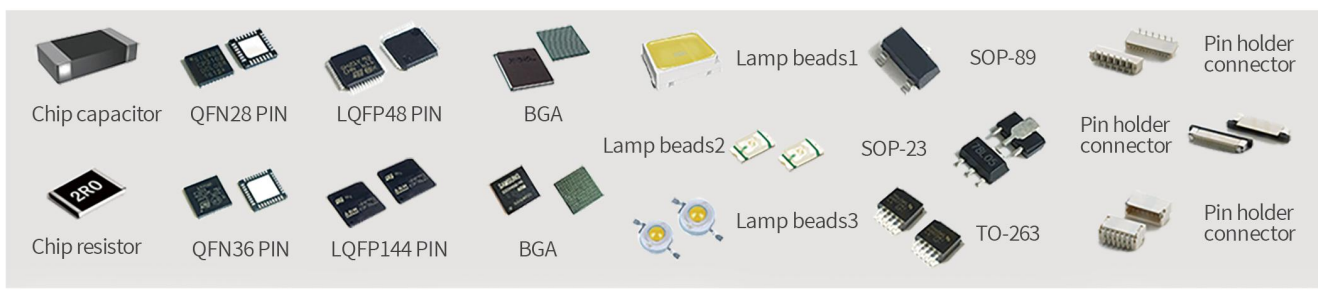
Automatic nozzle replacement function, fast speed, saving labor and time to change the nozzle

The machine is upgraded with a one-to-one electric feeder interface, can use electric, pneumatic and vibration feeder at the same time.
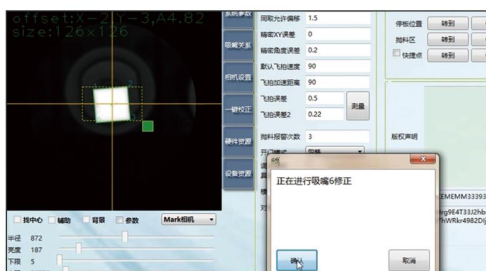
APPLICABLE COMPONENTS TYPE:SUITABLE FOR 0201,0402,0603,0805,1206,LED LAMP BEADS,DIODES, TRANSISTORS,SOT, WITHIN RANGE 45MM*45MM,PIN PITCH≥0.3MM QFP,BGA ETC.

Chip capacitor | QFN28 PIN | LQFP48 PIN | BGA | Lamp beads1 | SOP-89 | Pin holder connector

Lamp beads2 | SOP-23 | Pin holder connector

Chip resistor | QFN36 PIN | LQFP144 PIN | BGA | Lamp beads3 | TO-263 | Pin holder connector
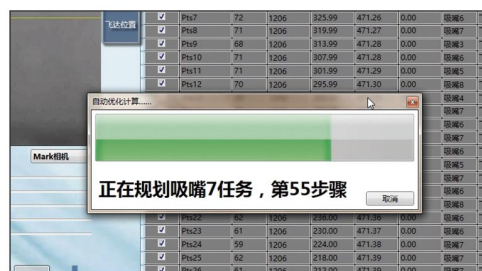
Advantages ③ Independently developed software, developed a variety of practical functions, and support free unlimited upgrades
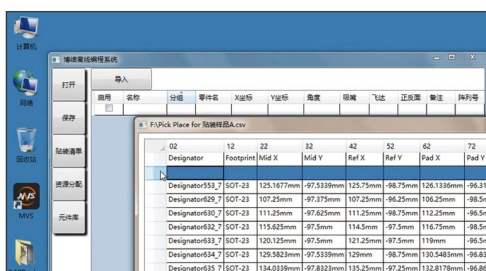
One-click automatic calibration of the nozzle. No manual calibration of the nozzle. So there is less error, the mounting accuracy will be higher.

One-click optimization program (nozzle path), minimizes the picking and placement time

Support multiple programming methods, such as online programming, offline programming and program import, with higher flexibility.

* The new component library function saves time and effort in programming
* Display current mounting progress, maximum speed, current speed, attrition rate, transmission board amount, etc
* New burn-in test mode, simulated mounting mode, board transmission mode and mounting testing mode
* New feeder automatic alignment function, feeder mounting head automatic allocation
* Accuracy automatic correction mode, repeatable positioning, mounting accuracy is guaranteed
* Optimising MARK point recognition accurately [standard, non-standard automatic measurement].
* Automatic nozzle replacement function
* Bulk components automatic identification

Parameter

Operation system	win7	Flying Camera	fast and synchtonous recognition
software version	Independent machine integrated upgradeable software	Average Mounting Speed	7500-11000pcs/h (Visual)
Feeder No.	52	XYZ Drive Guideway	Imported TBI high-precision high-load linear guideway
Automatic nozzle change	Support	Machine structure	Separable from the top and bottom
Mounting Heads	4	Average Power	300W
Component Height	13mm	Compressed Air	0.5-0.6Mpa
Positioning Accuracy	0.01mm	Max. Circuit Board Size	475x370mm
Power Supply	220V，50Hz	Machine Weight(N.W)	300KG(Vertical Type) 150KG(Desktop)
Bulk Components Tray	12 Sets	Dimension(L*W*H)	1015*1105*1257mm(Vertical Type) 1015*1105*760mm(Desktop)
Bulk components identification	Support	Typical Speed	8000 pcs/h (Visual)
Drive motor	Japanese Servo Motor	Max. Movement Range in Z Axis	38mm
XY Max. Movement Range	600x519mm	Operation Window	17-inch Industrial Control Display
Max.Theoretical Mounting Speed	12000Pcs/h	X/Y Transmission Mode	Imported TBI high-precision grinding ballscrew + Imported TBI high-load linear guideway
Guideway Adjustment Mode	Manual + Automatic	Program Optimization Mode	Intelligent one-click optimization
Belt Type Feeder	(8-56)mm electric feeder, pneumatic feeder, vibration feeder	MARK Camera	Gigabit network port communication+ coaxial light source High speed dynamic recognition of Mark points
Motion Drive System	Japanese High-Speed DSP Drive	Components library function	Support
Z Axis Driving Motor	Four heads,each head is equipped with an independent Z-axis motor (without step loss)	Board Entering Mode	one section from left to right to conveyer, automatic PCB transfer positioning
Programming Mode	Point-to-point programming, visual programming, PCB file coordinates inputting,etc.Adding off-line programming which greatly improves the programming efficiency, and the software can be humanized design	Applicable components type	Suitable for 0201,0402,0603,0805, 1206,LED lamp beads,diodes, transistors,SOT,within range 45mm*45mm,Pin Pitch≥0.3mm QFP,BGA etc.