

AUTOMATIC HANDLER

Automated Programming System



SG3000

The New SG3000 High performance dual nozzles automated programming handler from System General. equipped with up to four universal SG8000 programmers which can serve up to total 32 programming sites. Average performance for pick, place and program is 2500 units per hour.

Supports UFS, eMMC, Nor/Nand Flash, EEPROM, CPLD, FPGA, Anti-Fuse and other customized IC/module programming.

- To ensure the stability and reliability of the machine, the programming handler is built based on Acroview Group's Intelligent Programming System.
- The innovative dual nozzle Pick & Place mechanism can achieve UPH2500 high speed programming.
- Supports programming request for all types and sizes of IC assembly.
- The MES (Manufacturing Execution System) makes the whole programming process controllable and traceable.

Features

Universal programmer SG8000

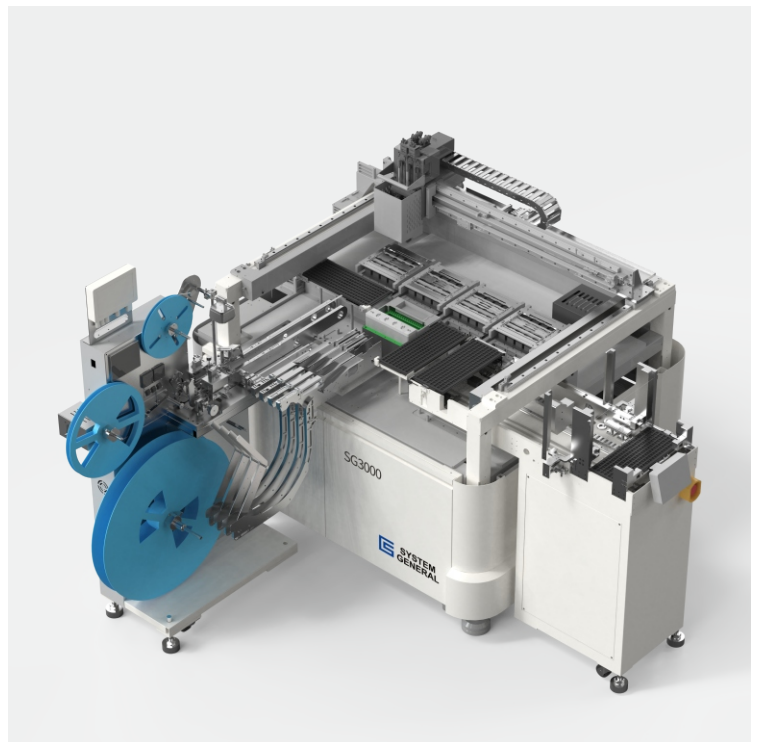
- Equipped with programmers and 32 socket boards
- Can perform up to 2500UPH(Unit Per Hour)
- Supports UFS, eMMC, Nor/Nand Flash, EEPROM, CPLD, FPGA, Anti-Fuse and other customized IC/module
- Supports all types of IC assembly

Smart Multi Vision System

- Equipped with 2 sets of upward CCD camera (1.3 mega-pixel) for the alignment of IC and 1 set of downward CCD camera(1.3 mega-pixel) for positioning of tray, tape, and socket board etc.
- Using automated frame detection in Position Recognition System instead of the traditional pattern recognition system, makes the alignment process more user-friendly
- Can detect tiny IC with high accuracy, supports 2x2mm IC assembly
- Highly accurate Pick & Place System ensures high stability and production output level

High Output Level & Reliability

- Highly accurate dual-nozzle Pick &Place
- UPH2500
- Real-time IC overlapping detection



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AutoTray

- Highly efficient AutoTray System that doesn't affect UPH
- Easy-to-use, reliable and stable



Tape Out Unit

- Supports PSA & HSA
- Supports tape width of 8-44mm
- High accuracy of input with less than 0.04mm of deviation



Marking System

- Optional ink dot marking mechanism
 - Supports marking on tray and during tape out
- √ Dotting √ Multiple colors √ ink conforms with RoHS requirements

Specifications

Performance	Deviation of Pick&Place Repetition	±0.02mm		
	Pick&Place Device	vacuum nozzle x2		
	Unit Per Hour	up to 2500 UPH		
Programmer	can be equipped with up to 4 SG8000 programmers, equivalent to 32 individual adapters			
Placement System	X-Y-Zaxis Motor	High performance servo motor driving system		
	Transmission Mechanism	High speed rail and belt pulley		
	Resolution	X/Y/Z axis: 0.001mm: R axis: 0.036 ° /pulse		
Vision System	No. of Upward CCD	2 sets of upward CCD camera		
	No. of Downward CCD	1 set of downward CCD camera		
	Vision Deviation	±0.01mm		
Input/Output System	Tray Input&Output	Automated tray in and out system which can accommodate about 25 JEDEC tray		
		Supports manual tray in and out		
	Tape Input	Electronic tape-in feeder which supports tape width of 8-44mm (with options of extension to 72mm)		
	No. of Tape Input	Supports up to 4 tape input at a time		
	Tape Output	Automatic tape out system which offers pressure and hot sealing assembly, and supports tape width of 8-44mm (with option of extension to 72mm)		
Marking System	Tube Input	Supports up to 6 tube input at a time		
	Ink-dot Marking	Mechanical Ink-dot marking		
Vision Inspection	Labeling	Supports backing paper of width 10-40mm and sticker of width ≥3mm		
	Tape Automated-Optical Inspection	IC rotation check, marking check, ink-dot quality check, empty pocket check		
Tray Automated-Optical Inspection				
Operating System	OperatingSystem	Windows 10		
	Monitor	21inch LCD Monitor		
	Input Device	Keyboard, mouse, teachbox		
Operating Requirments	Input Voltage	200V~240Vsinglephase/50~60HZ/2KW(power consumption)		
	Compressed Air Pressure	0.6MPa, ~40L/min		
	Net Weight	~750KG		
	Gross Weight	~900KG		
		W	D	H
Host		1450mm	1190mm	1520mm(1965mm incl. warning light)
Host + AutoTray		1990mm	1190mm	1520mm(1965mm incl. warning light)
Host + AutoTray + Input Feeder		1450mm	2060mm	1520mm(1965mm incl. warning light)
Host + AutoTray + Tape Out + Input Feeder		1990mm	2060mm	1520mm(1965mm incl. warning light)
Shipping dimension of Host		1940mm	1390mm	1840mm

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