AUTOMATIC HANDLER

Automated Programming System

SG5200S

The New SG5200S High performance Quad 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 2400 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 Quad nozzle Pick & Place mechanism can achieve UPH2400 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.
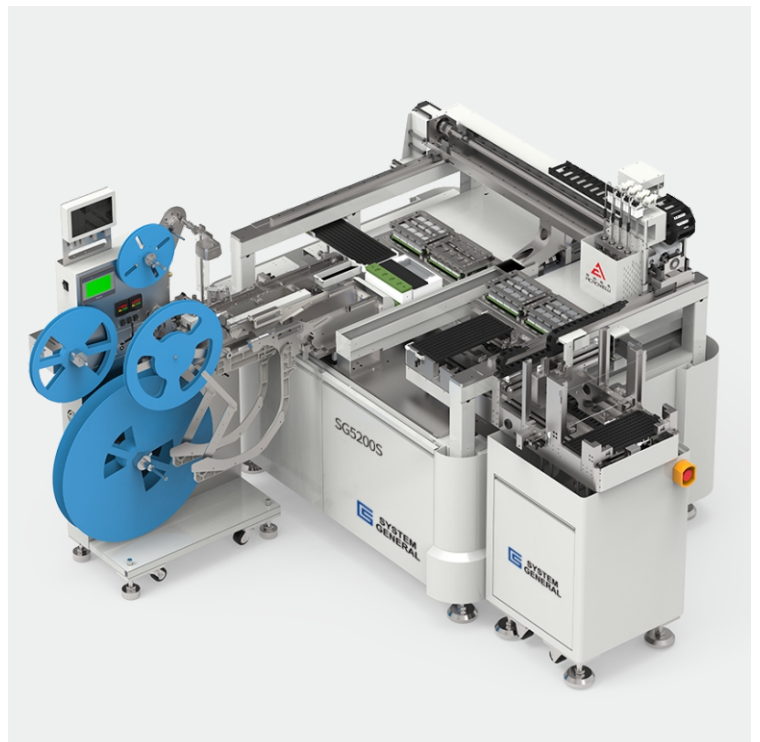
Features

Universal programmer SG8000

- Equipped with programmers and 32 socket boards
- Can perform up to 2400UPH(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 4 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 1.0x1.5mm IC assembly
- Highly accurate Pick & Place System ensures high stability and production output level

High Output Level & Reliability

- Highly accurate quad-nozzle Pick &Place
- UPH2400
- Real-time IC overlapping detection

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	±0.01mm
	Pick&Place Device	vacuum nozzle x4
	Unit Per Hour	up to 2400 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 precision Ballscrew system & Linear Slide Rail
	Resolution	X/Y/Z axis: 0.001mm: R axis: 0.036 ° /pulse
Vision System	No. of Upward CCD	4 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 20 JEDEC tray
		Supports manual tray in and out
	Tape Input	Electronic tape-in feeder which supports tape width of 8-44mm
	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
	Tube Input	Supports up to 6 tube input at a time
Marking System	Ink-dot Marking	Mechanical Ink-dot marking
	Labeling	Supports backing paper of width 10-40mm and sticker of width ≥3mm
Vision Inspection	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