

PG280P

Fully Automated IC Programming Equipment

PROSYSTEMS



PG280P is a special automation chip programming equipment with high cost performance designed by PROSYSTEMS for customers who require chips Tube/Tape in and Tape out. PG280P adopts single X-axis PPU & 4 nozzle structure, uses industrial computer (built-in motion control card), servo system and double positioning seats to quickly and accurately locate, and fully automatically completes the whole process of chip placing, programming, picking and packaging. It replaces the traditional manual operation, not only greatly improves the production efficiency, but also eliminates the possible human error in the IC programming process.



High efficiency:

up to 2800 UPH; Built-in new generation of programmer BeeHive204AP and uses high speed CPU, FPGA, high capacity pin driver, USB interface to provide a high speed, low noise, stable and reliable programming platform. PG280P supports up to 16 adapters synchronous or asynchronous programming, and it is the first choice for mass programming Memory and Flash.



Support various chips

- Supported IC types: Flash (NOR, NAND, MCP, MMC, eMMC, SD, MoviNAND, OneNAND, iNAND, Serial Flash, EEPROM, EPROM...), microcontroller, Logic Device (CPLD, FPGA, PLD...)
- Support IC package: SOP, SSOP, TSSOP, TSOP, PLCC, QFN, LQFP, BGA...



Especially for Tube/Tape in, Tape out packaging chips



Intelligent operation: Boot self-check, modular design provides simple maintenance, repair and replacement work; Different input and output devices can be changed quickly.



Complete the assigned tasks: IC pick-place, positioning, programming, printing (optional) and packaging. Homemade software communicates directly with programmer to quickly integrate the movement and programming control.



Powerful operating software -- parameter Settings and test results are automatically saved. These data can be used directly next time, so as to realize product quality control and production tracking.



Precise positioning -- double positioning seats. Positioning IC before placing SOKET and Tape to avoid bad placement.



Data traceability: the whole process of picking-placing, programming, equipment information can be traced, and production information can interact with MES in real time.



High intelligence: GP280P can connect with CPS system of our company to collect equipment operation data and predictive maintenance. It can realize deep learning and analysis, and use the collected big data for industrial data modeling and data application development.



Optional: For Tape package, PG280P provides marking/printing function options (optional printer can print 1~2 numbers or words).



National high-tech enterprise

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Fully Automated IC Programming Equipment Product specification



(optional) laser marking system



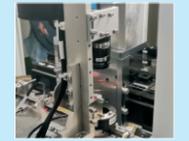
Feeding assembly



High precision manipulator



Software control interface



(optional) AOI visual inspection

PG280P Specifications of four-nozzle IC programming machine

| | | |
|--------------------|--------------------------|---|
| Program components | Supported programmer | Special programmer, self-made machine |
| | Adapter | 16PCS |
| Capacity | Nozzle | PPU four-nozzle system |
| | UPH | 2800PCS/H |
| Control system | Transmission | High precision grinding ball screw; ball spline; linear slide rail; cam mechanism |
| | Drive system | Servo drive system |
| | X/Y/Z precision | X ±0.05 mm; Y: ±0.02mm; Z: ±0.05mm; P: ±0.05mm U(θ): ±0.15 degree |
| Positioning | Machinery | High precision mechanical double positioning sockets |
| I/O device | Feeder | Power-driven feeder (8-24MM); YAMAHA Air-feeder(8-24MM) |
| | Tube (TB16V) | Tape in, Tube in |
| | Tape (Tp15) | Tape width (8~32mm); Velum: heat seal, film adhesive |
| Marking | Ink marking | Cylinder ink marking device (ATMK20): dot, number |
| | Laser marking (optional) | Brand laser marking machine |
| | AOI recheck (optional) | AOI recheck (detection content can be uploaded to MES system) |
| | Labeling (optional) | Label Feeder |
| Control system | Operating system | Windows 7/32 bit operating system |
| | Display | 19.5 inch LCD display (16:9) |
| | Input device | Keyboard and mouse |
| | PGMES | Standard MES interface (order number, NG/OK number, running status) |
| | Onekey setting | Built-in standard template data (One key setting parameters) |
| | Auxiliary function | Report abnormal causes and provide solutions when alerting |
| | Device monitoring | Monitor and respond to device status (warning and adjusting parameters when the reject rate is high). |
| | Status monitoring | CPS platform (optional) |
| | Maintenance | Remote service, Debugging; Maintenance reminders, Replacement reminders |
| | Equipment parameters | Reject rate |
| Pass-Yield | | 99.97% |
| MTBF | | 210H |
| Voltage | | Single Phase 220~240V, 50-60 Hz |
| Power | | 1.5KW (including CP) |
| Air source | | 0.5-0.7 MP a, 180--200 l/min |
| Size (W*D*H) | | 1450(L) * 720(W) * 1325(H)mm (without the height of the mat 100mm/alarm light 400mm) |



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