DP2000

DediProg

Automated Programming System

DP2000 is an automated programming system especially designed for tube/tape in & tape out. The system is equipped with a moving programming module and 4 nozzles to handle pick & placement of IC input, positioning, programming and IC output. With 4 nozzles functioning synchronously with the moving programming module, DP2000 easily achieves high throughput, 3,000 UPH. This unique and creative design already obtained a patent.

Features

◆ **Dedicated for Tube or Tape in ; Tape out**
1. Input : Tube and Tape
2. Output : Tape
3. Supported IC : EEPROM, NOR/NAND FLASH, Microcontroller…
4. Supported Package : DIP, SOP, SSOP, TSOP, PLCC, QFN, LQFP, BGA…

◆ **High Expansibility**
Able to built in 2 units of ProgMaster-S8 programmer and expand up to 16 programming sites. The system will not idle and decrease throughput when programming those chips with high density.

◆ **Software Support NAND FLASH Bad Block Skip and Partition Programming**
Each programming site functions independently. It only takes 30 seconds to program (P+V) 1Gb NAND FLASH.

◆ **High Throughput**
Achieve 3,000 UPH when SPI Flash density is 64Mbit and smaller.

◆ **Fast & Accurate Positioning**
Design dedicated Positioner for different IC package to handle positioning.

◆ **Software Support Work Project**
Press Start button to start programming after loading work project so operators will not load wrong file or select wrong IC part number.

◆ **Support PSA & Heat Sealing**

◆ **Unique & Creative Design obtains a Patent**
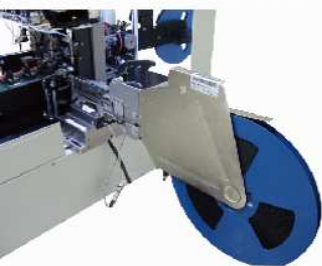
◆ **Vertical & Horizontal Infrared Inspection**
Check empty pocket and jammed component before taping.

◆ **Optional Ink Marker**
Different color available; support dot, character and number.

◆ **Optional CCD-Camera**
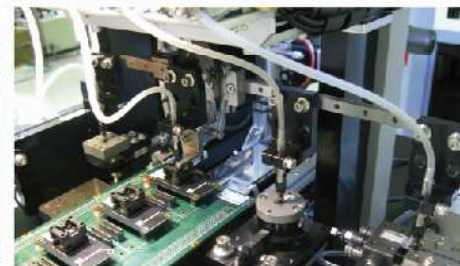Check empty pocket and the position of pin 1 and mark.

| Tape In | Tube In | CCD-Camera | Ink Marker | Nozzles & Programming Module |

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Specification

Pick & Place System	Placement Accuracy	±0.02mm
	Pick & Place Device	Vacuum Nozzle*4
	Throughput	3,000 UPH
Positioning System	2 Units of Positioner For IC Input & Output	Dedicated Positioner for different package type
Transmission System	Drive Method	High performance servo motor
	Transmission	Ball screw & Cam mechanism
	Max Stroke	560mm
Input/Output System	Tube In	1. Manual Single-Tube In Loader
		2. Automatic SOP IC Tube Loader；Capacity：35~40 tubes
	Tape In	1. Mechanical Tape Feeder；Support 8~46mm tape width
		2. Electrical Tape Feeder；Support 8~46mm tape width
	Tape Out	Automatic Taping Machine；PSA & Heat sealing；Support 8~46mm tape width
Programming System	Programmer	ProgMaster *2
	Programming Site	2*4 or 2*8
	Supported IC	EEPROM, NAND/NOR FLASH, Microcontroller … etc
	IC Package	SOP、SSOP、TSOP、PLCC、QFN、LQFP、BGA … etc
Operation Environment	Input Voltage	200~245V / 50-60Hz
	Power Consumption	10A
	Air Flow	6 liter/hr
	Air Pressure	0.5 MPa (~5.0 kg/cm2)
	Temperature & Humidity	Temperature：22°C± 2
		Humidity：55 ~ 65 %
Dimension	Main Unit	W x D x H : 1610mm x 520mm x 1540mm
	Main Unit+Tube Loader	W x D x H : 1610mm x 1240mm x 1540mm
	Main Unit+Tape Feeder	W x D x H : 1610mm x 1640mm x 1540mm
	Weight	170 KG
Control System	PC O/S	Windows XP
	Display	19"LCD
	Input Devices	Keypad & Mouse
Marker	Ink Marker	Different color available；support dot (1.5mm~2.0mm)、character and number (2mm x 3mm)