



# DP2000

## 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 and place of IC input, positioning, programming and IC output. With 4 nozzles functioning synchronously with the moving programming module, DP2000 easily achieves high throughput, 3,000UPH. The 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, SPI FLASH, MCU...etc.
4. Supported Package: SOP, SON, TSOP, QFN...etc.

#### 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 Supports 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 Supports Work Project.

Press Start button to start programming after loading work project so operators will not load the wrong file or select the 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.

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For more information, please contact: [sales@dediprogram.com](mailto:sales@dediprogram.com)  
[www.dediprogram.com](http://www.dediprogram.com)

## Specification

<b>Pick &amp; Place System</b>	Placement Accuracy	±0.05mm
	Pick & Place Device	Vacuum Nozzle * 4
	Throughput	3,000UPH
<b>Positioning System</b>	2 Unit of Positioner for Input & Output	Dedicated Positioner for different package type
<b>Transmission System</b>	Drive Method	High performance servo moto
	Transmission	Ball screw & Cam mechanism
	Max Stroke	560mm
<b>Input/Output System</b>	Tube In	Automatic SOP, TSOP Tube Loader; Capacity: 30~40 tubes.
	Tape In	Electrical Tape Feeder; Support 8~32mm tape width.
	Tape Out	Automated Taping Machine; PSA & Heat Sealing; support 8~50mm tape width.
<b>Programming System</b>	Programmer	ProgMaster-S8*2
	Programming Site	16
	Supported IC	EEPROM, SPI Flash, Microcontroller...etc
	IC Package	SOP, SON, TSOP, QFN...etc
<b>Operation Environment</b>	Input Voltage	220-240Vac, 50/60Hz
	Power Consumption	1.1KVA
	Air Flow	30 liter/min
	Air Pressure	0.6MPa(~6.0kg/cm <sup>2</sup> )
<b>Dimension</b> (Include Monitor and Alarm LED light)	Main Unit	WxDxH: 1640mm x 703mm x 1900mm
	Main Unit + Tube Loader	WxDxH: 1640mm x 1480mm x 1900mm
	Main Unit + Tape Feeder	WxDxH: 1640mm x 1640mm x 1900mm
	Weight	190KG
<b>Control System</b>	PC O/S	Windows 10
	Display	19"LCD
	Input Devices	Keyboard and Mouse
<b>Marker</b>	Ink Marker	Different color available; support dot (1.5mm~2.0mm), character and number (2mmx 3mm).

**Taiwan Headquarter:** 4F,No.7,Lane 143, Xinming Rd., Neihu District, Taipei, Taiwan, R.O.C 114 TEL: 886 - 2 - 2790 - 7932 FAX: 886 - 2 - 2790 - 7916

**China Office:** Room 518, Building 66, Lane1333, Xinlong Road, Vanke Hongqiao CBD. Min Hang District, Shanghai, P.R.C. 201101

TEL: 86 - 21 - 5160 - 0157

**U.S. Office:** 209 E Baseline RD, Suite E208 #8, Tempe, AZ, 85283, USA TEL: +1 - 909 - 274 - 8860

