

DP1000-G3

Automated Programming System

www.dediprogram.com



DP1000-G3 automated programming system is the third generation of DP1000, which supports different input/output peripherals to provide an overall solution for IC programming. It supports most of the IC families, such as EEPROM, NAND/NOR FLASH, MCU, eMMC, and UFS, etc.

The system can embed with 2 sets of ProgMaster-S8 Programmer or NuProgPlus-S16 to provide up to 32 programming sites with stable quality and high throughput. Additionally, the Auto Teach Feature will automatically adjust the parameter to increase the productivity.

Features

High Throughput

The system will be able to perform up to 3,200 UPH.

High Expansibility

Able to embed two sets of ProgMaster-S8 (Univesral Devices) or NuProgPlus-S16 (Universal & UFS) to expand up to 32 programming sites.

Support All IC Families

1. Supported IC: EEPROM, NAND/NOR FLASH, MCU, eMMC, and UFS, etc.
2. Supported IC Package: SOP, SSOP, TSSOP, PLCC, QFN, LQFP, and BGA, etc.

Adjustable Socket Actuating Kit

Adjust socket actuating kits make it easier and quicker to switch to different types of socket adaptors according to the socket size. Therefore, you will not need extra socket actuating kits!

Software Supports Work Project

Able to create a programming file directly through DediWare according to your programming demands. It allows you to start programming right after loading the project, which will greatly reduce human errors.

Support Different Input/Output Peripherals

Input/Output: Tube, Tape, and Tray.

DediProg Auto Teach Feature

1. Proceduralize- Automatically adjust handler's parameters step by step.
2. Digitalized- Automatically adjust the heights of nozzles.
3. Increase the speed of system adjustment.
4. Self-detection Function- Increase the accuracy & stabilities for nozzles' pick and place.

Report Engine

To consolidate and report multiple real time handlers' statuses for manufacturing management.

One Click Project Execution (OPRJ)

New software integration included both machine project & programming project to avoid any human setting error

MES (Manufacturing Execution System)

DediProg handlers can apply different MES; production line via API protocol is easily to be integrating with their internal server. Work report can be converted to excel file as a record.

Optional Ink/Laser Marker/Labeling

Different colors are available.

Ink Marker supports dot, character & number.

Laser Marker and Labeling support barcode & QR code.

Specification

Pick & Place System	Placement Accuracy	±0.02mm
	Pick & Place Device	Vacuum Nozzle x 2
	Throughput	Up to 3,200 UPH
Transmission System	X-Y-Z Drive	High Performance Servo Drive System
	Transmission	Ball Screw & Linear Guide Mechanism
	Resolution	X axis: 0.003mm, Y axis: 0.003mm, Z axis: 0.005mm
	Maximum Stroke	X axis: 690mm, Y axis: 505mm, Z axis: 85mm
	θ Axis Resolution	0.1125°
Input/Output System	Tube In	Manual Tube In Loader; capacity: 4 Tubes
	Tube Out	Manual Tube Out Loader; capacity: 6 Tubes
	Tape In	Electrical Tape Feeder; support 8~32mm tape width
	Tape Out	Automated Taping Machine; PSA and Heat Sealing; Support 8~32mm tape width; up to 32mm carrier tape depth
	Tray In/Out	1. Manual Input JEDEC Tray 2. Manual Output JEDEC Tray 3. Automatic Tray In/Out Loader; capacity of 25 JEDEC/Non JEDEC Trays 4. NG IC Trays
Vision System	Camera	728 x 544 (0.4M Pixels)
	Vision Alignment	IC corner leads
	Vision Accuracy	±0.01mm
	Vision Process Time	~0.03sec/unit
Programming System	Programmer	ProgMaster-S8 x 2 or NuProgPlus-S16 x 2
	Programming Site	16 sockets or 32 sockets
	Support IC	EEPROM, NAND/ NOR FLASH, MCU, eMMC, and UFS, etc.
	IC Package	SOP, SSOP, TSSOP, PLCC, QFN, LQFP, and BGA, etc.
Markers	Ink Marker	Different color available; support dot (1.5mm~2.0mm), character and number (2mm x 3mm)
Operation Environment	Input Voltage	220-240Vac, 50/60Hz
	Power Consumption	6A/1.3kVA
	Air Flow	46liters/min
	Air Pressure	0.6MPa (~6.0kg/cm ²)
Dimension (W x D x H) (Monitor Wide Opened and Alarm LED light)	Main Unit	1500 x 1050 x 1600mm
	Main Unit+Tube Loader	1500 x 1100 x 1600mm
	Main Unit+Tape Loader	1500 x 2000 x 1600mm
	Main Unit+Tray Loader	1500 x 1700 x 1600mm
	Weight	540kg
Control System	PC O/S	Windows 10 IOT
	Display	19"LCD
	Input Devices	Keypad & Mouse

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