



DP3000-G3

Automated Programming System

www.dediprogram.com



DP3000-G3 automated programming system is the third generation of DP3000. It is able to support CSP packages as well as small size packages, like 1.5 x 0.8mm size chips. DP3000-G3 supports different input/output peripherals, like tube, tape, and tray, to provide an overall solution for IC programming with more advance features.

DP3000-G3 supports all kinds of IC families, such as EEPROM, NAND/NOR FLASH, MCU, eMMC, and UFS, etc. It is able to expand up to 96 programming sites, which will keep the high throughput even when handling the high density memory, like NAND Flash, eMMC, and UFS.

Features

High Throughput

The system will be able to perform up to 3,600 UPH.

Support Different Input/Output Peripherals

Input/Output: Tube, Tape, and Tray.

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, BGA, and WLCSP, etc.

High Expansibility

Able to embed up to six sets of eMMC-S8 or ProgMaster-S8 or NuProPlus to get up to 96 sites.

1. eMMC-S8 supports eMMC.
2. ProgMaster-S8 supports Universal Devices.
3. NuProPlus supports Universal, eMMC, and UFS.

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!

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.

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.

MES (Manufacturing Execution System)

DediProg handlers are able to apply to 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.

Various Additional Functions

Laser, Label Printer, Inkjet Marker, and 3D Inspection.

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Specification

Pick & Place System	Placement Accuracy	±0.01mm
	Pick & Place Device	Vacuum Nozzle x 4
	Throughput	Up to 3,600 UPH
Transmission System	X-Y-Z Drive	High Performance Servo Drive System
	Transmission	Ball Screw & Linear Guide Mechanism
	Resolution	X axis: 0.01mm, Y axis: 0.01mm, Z axis: 0.01mm
	Maximum Stroke	X axis: 1155mm, Y axis: 480mm, Z axis: 30mm
	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 Dual Electrical Tape Feeders, support 8~24mm tape width
	Tape Out	Automated Taping Machine; PSA and Heat Sealing; Support 8~50mm 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	1. Fixed CCD: 659 x 494pixels 2. Carried CCD: 659 x 494pixels
	Vision Alignment	IC corner leads
	Vision Accuracy	±0.01mm
	Vision Process Time	~0.03sec/unit
Programming System	Programmer	eMMC-S8, ProgMaster-S8, NuProgPlus
	Programming Site	Expandable from 48 up to 96 sockets
	Support IC	EEPROM, NAND/ NOR FLASH, MCU, eMMC, and UFS, etc.
	IC Package	SOP, SSOP, TSSOP, PLCC, QFN, LQFP, BGA, and WLCSP, etc.
Markers	Ink/Inkjet 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	3.3kVA
	Air Flow	94liters/min
	Air Pressure	0.6MPa (~6.0kg/cm ²)
Dimension (W x D x H) (Monitor Wide Opened and Alarm LED light)	Main Unit	2200 x 1300 x 1700mm
	Main Unit+Tube Loader	2200 x 1300 x 1700mm
	Main Unit+Tape Loader	2200 x 2100 x 1700mm
	Main Unit+Tray Loader	2200 x 1850 x 1700mm
	Weight	840kg
Control System	PC O/S	Windows 10 IOT
	Display	19"LCD
	Input Devices	Keypad & Mouse