

DP3000-G3

Automated Programming System

www.dediprog.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.

DP3000-G3 supports different input/output peripherals, like tube, tape, and tray, to provide an overall solution for IC programming with more advance features.

The system can embed with up to 6 sets of gang Programmers to provide up to 96 programming sites with stable quality & high throughput. Especially fits all high density device, such as eMMC and UFS programming demand.

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 NuProgPlus-S16 to get up to 96 sites. (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!

One Click Project Execution (OPRJ)

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

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.

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.

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.

Various Additional Functions

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

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 8~44mm tape width Dual Electrical Tape Feeders, support 8~24mm tape width
	Tape Out	Automated Taping Machine; PSA and Heat Sealing; Support 8~44mm 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	NuProgPlus-S16
	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 Marker	Different color available; support dot (1.5mm~2.0mm), character and number (2mm x 3mm)
Operation Environment	Input Voltage	200±15% Vac, 40-60Hz
	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

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