DP2T
Automated Programming System

DP2T is the most compact and cost saving automated programming system. It can embed with one unit of All-in-one Programmer (NuProgPlus-S8) to support SPI Flash, EEPROM, MCU, CPLD, eMMC, and UFS, etc.

DP2T also supports both input and output in Tray or Tape and Reel.

With stable quality & high efficiency, the UPH can easily go up to 1000. Save your budget and lower your labor cost starts from DP2T now.

Features

High Throughput
The system will be able to perform up to 1,000 UPH.

High Expansibility
Able to embed with one set of NuProgPlus-S8 (Universal & UFS) with 8 programming sites.

Support Different Input/Output Peripherals
Input/Output: Tape In/Out, Tray In/Out & Manual Tube In.

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.

One Click Project Execution (OPRJ)
New software integration included both machine project & programming project to avoid any human setting error

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

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 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 Marker on Tape Out
Different colors are available; support dot, character & number.

Specification

Pick & Place System	Placement Accuracy	±0.03mm
	Pick & Place Device	Vacuum Nozzle x 1
	Throughput	Up to 1,000 UPH
Transmission System	X-Y-Z Drive	High Efficiency Stepper Drive System
	Transmission	Belt & Linear Guide Mechanism
	Resolution	X axis: ±0.03mm, Y axis: ±0.03mm, Z axis: ±0.03mm
	Maximum Stroke	X axis: 498mm, Y axis: 402mm, Z axis: 40mm
	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 Trays 4. NG IC Trays
Vision System	Camera	728 x 544 (0.4M Pixels)
	Vision Alignment	IC corner leads
	Vision Accuracy	±0.02mm
	Vision Process Time	~0.03sec/unit
Programming System	Programmer	NuProgPlus-S8
	Programming Site	8 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	200±15% Vac, 40-60Hz
	Power Consumption	1kVA
	Air Flow	25liters/min
	Air Pressure	0.6MPa (~6.0kg/cm2)
Dimension (W x D x H) (Monitor Wide Opened and Alarm LED light)	Main Unit	1200 x 610 x 1590mm
	Main Unit+Tube Loader	1200 x 990 x 1590mm
	Main Unit+Tape Loader	1200 x 1830 x 1590mm
	Main Unit+Tray Loader	1200 x 1700 x 1590mm
	Weight	210kg
Control System	PC O/S	Windows 10 IOT
	Display	19"LCD
	Input Devices	Keypad & Mouse

DediProg Technology Co., Ltd.