



# DP2T

Automated Programming System

[www.dediprogram.com](http://www.dediprogram.com)



DP2T is the most compact & cost saving automated programming system. It can embed with either one unit of universal programmer (ProgMaster-S8) to support SPI Flash, EEPROM, MCU, and CPLD, etc. Or All-in-one Programmer (NuProgPlus-S8) to support not only above devices, but also eMMC & UFS.

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 ProgMaster-S8 (Universal Devices) or 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

<b>Pick &amp; Place System</b>	Placement Accuracy	±0.03mm
	Pick & Place Device	Vacuum Nozzle x 1
	Throughput	Up to 1,000 UPH
<b>Transmission System</b>	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°
<b>Input/Output System</b>	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 8~50mm 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 Trays 4. NG IC Trays
<b>Vision System</b>	Camera	728 x 544 (0.4M Pixels)
	Vision Alignment	IC corner leads
	Vision Accuracy	±0.02mm
	Vision Process Time	~0.03sec/unit
<b>Programming System</b>	Programmer	ProgMaster-S8 or 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.
<b>Markers</b>	Ink Marker	Different color available; support dot (1.5mm~2.0mm), character and number (2mm x 3mm)
<b>Operation Environment</b>	Input Voltage	220-240Vac, 50/60Hz
	Power Consumption	1kVA
	Air Flow	25liters/min
	Air Pressure	0.6MPa (~6.0kg/cm <sup>2</sup> )
<b>Dimension (W x D x H)</b> (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
<b>Control System</b>	PC O/S	Windows 10 IOT
	Display	19"LCD
	Input Devices	Keypad & Mouse

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