



DP2T

Automated Programming System

www.dediprogram.com



DP2T is the most compact & cost saving automated programming system. It is able to 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) to support all devices such as SPI Flash, EEPROM, MCU, CPLD, eMMC & UFS, etc.

DP2T also supports both input & output in Tray or Tape & reel. With stable quality & high efficiency, the UPH can easily go up to 1000. Save your budget & 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 (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.

Optional Ink/Inkjet Marker on Tape Out

Different colors are available; support dot, character & number.

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.

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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	Stepper Motor
	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
Input/Output System	θ Axis Resolution	0.1125°
	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
Vision System	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
	Camera	1. Fixed CCD: 659 x 494 pixels 2. Carried CCD: 659 x 494 pixels
	Vision Alignment	IC corner leads
	Vision Accuracy	±0.02mm
Programming System	Vision Process Time	~0.03sec/unit
	Programmer	ProgMaster-S8 or NuProgPlus
	Programming Site	8 sockets
	Support IC	EEPROM, NAND/ NOR FLASH, MCU, eMMC, and UFS, etc.
Markers	IC Package	SOP, SSOP, TSSOP, PLCC, QFN, LQFP, and BGA, etc.
	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	1kVA
	Air Flow	25liters/min
	Air Pressure	0.6MPa (~6.0kg/cm ²)
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