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-S16) 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-S16 [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**
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**: 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
- **6 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 8~50mm 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

#### 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**: ProgMaster-S8 or NuProgPlus-S16
- **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/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/cm2)

#### Dimension (W x D x H)
- **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