DP1000-G3 automated programming system is the third generation of DP1000, which supports different input/output peripherals to provide an overall solution for IC programming. It supports most of the IC families, such as EEPROM, NAND/NOR FLASH, MCU, eMMC, and UFS, etc.

The system can embed with 2 sets of ProgMaster-S8 Programmer or NuProgPlus-S16 to provide up to 16 programming sites with stable quality & high throughput. Additionally, the Auto Teach Feature will automatically adjust the parameter to increase the productivity.

**Features**

**High Throughput**
The system will be able to perform up to 3,200 UPH.

**High Expandability**
Able to embed two sets of ProgMaster-S8 (Universal Devices) or NuProgPlus-S16 (Universal & UFS) to expand up to 16 programming sites.

**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.

**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!

**Support Different Input/Output Peripherals**
Input/Output: Tube, Tape, and Tray.

**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.

**Optional Ink/Inkjet/Laser Marker/Labeling**
Different colors are available. Inkjet Marker supports dot, character & number. Inkjet/Laser Marker and Labeling support barcode & QR code.

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## Specification

### Pick & Place System
- **Placement Accuracy**: ±0.02mm
- **Pick & Place Device**: Vacuum Nozzle x 2
- **Throughput**: Up to 3,200 UPH

### Transmission System
- **X-Y-Z Drive**: High Performance Servo Drive System
- **Transmission**: Ball Screw & Linear Guide Mechanism
- **Resolution**: X axis: 0.003mm, Y axis: 0.003mm, Z axis: 0.005mm
- **Maximum Stroke**: X axis: 690mm, Y axis: 505mm, Z axis: 85mm
- **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/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**: ProgMaster-S8 x 2 or NuProgPlus-S16 x 2
- **Programming Site**: 16 sockets or 32 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**: 6A/1.3kVA
- **Air Flow**: 46liters/min
- **Air Pressure**: 0.6MPa (~6.0kg/cm²)

### Dimension (W x D x H)
- **Main Unit**: 1500 x 1050 x 1600mm
- **Main Unit+Loader**: 1500 x 1100 x 1600mm
- **Main Unit+Tape Loader**: 1500 x 2000 x 1600mm
- **Main Unit+Tray Loader**: 1500 x 1700 x 1600mm
- **Weight**: 540kg

### Control System
- **PC/D/S**: Windows 10 IOT
- **Display**: 19” LCD
- **Input Devices**: Keypad & Mouse