



DP3000

Automated Programming System



With the ProgMaster Universal Programmer embedded in DP3000 and various input/output peripherals, the system can provide an overall solution for IC programming. DP3000 not only supports all kinds of IC families, such as NAND/NOR FLASH, EEPROM and MCU... but also offers different input/output options of tube, tape and tray. The system is able to be embedded in 6 sets of ProgMaster-U8 Programmer providing 48 programming sites so that DP3000 can perform high throughput even if handling high density memories, like NAND FLASH.

Features

◆ Support All IC Families and Different Input/output Peripherals

1. Input/output : Tube, Tape and Tray
2. Supported IC : EEPROM, NOR/NAND FLASH, MCU, emmc/eMCP/SPI nand...
3. Supported Package : DIP, SOP, SSOP, TSOP, PLCC, QFN, LQFP, BGA...

◆ High Expansibility

Able to be embedded with 6 units of ProgMaster-U8 programmer and expand up to 48 programming sites. The system will not idle and decrease throughput when programming those chips with high density.

◆ Modular Design

Set up input/output peripheral quickly and easily when changing different IC package.

◆ Adjustable Socket Actuating Kit

Adjust socket actuating kits easily and quickly according to socket size when changing other type of socket adaptors. No need to buy extra socket actuating kits.

◆ High Throughput

DP3000 performs 1,500 UPH when the programming time of IC is fewer than 50 seconds.

◆ Software Support NAND FLASH Bad Block Skip and Partition Programming

Each programming site functions independently. It only takes 30 seconds to program (P+V) 1Gb NAND FLASH

◆ Software Support Work Project

Press Start button to start programming after loading work project so operators will not load wrong file or select wrong IC part number.

◆ Fast & Accurate Positioning

System is equipped with 2 sets of CCD Camera to handle positioning.

◆ Optional Ink Marker When Tape Out

Different color available : support dot, character and number.

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Specification

Pick & Place System

Placement Accuracy	±0.03mm
Pick & Place Device	Vacuum Nozzle*4
Throughput	1,500 UPH

Transmission System

X-Y-Z Drive	High Performance Servo Drive System
Transmission	Ball Screw & Linear Guide Mechanism
Resolution	X axis : ±0.02mm, Y axis : ±0.02mm, Z axis : ±0.02mm
Maximum Stroke	X axis : 1155mm, Y axis : 480mm, Z axis : 30mm
Theta Axis Resolution	0.15°

Input/Output System

Tube In	1. Manual Tube In Loader : Capacity : 4 Tubes 2. Automatic SOP IC Tube Loader : Capacity : 35~40 Tubes
Tube Out	
Tape In	1. Mechanical Tape Feeder : Support 8~46mm tape width 2. Electrical Tape Feeder : Support 8~46mm tape width
Tape Out	
Tray In/Out	Automatic Taping Machine : PSA & Heat Sealing : Support 8~46mm tape width 1. Manual Input JEDEC Tray 2. Manual Out Put JEDEC Tray 3. Automatic Tray In Loader : Capacity : 25 JEDEC Trays 4. Automatic Tray Out Loader : Capacity : 25 JEDEC Trays 5. Failed & NG IC Plate

Vision System

Camera	1. Fixed CCD : 659 x 494 pixels 2. Carried CCD : 659 x 494 pixels
Field Of View	25mm x 25mm
Vision Alignment	IC corner leads
Vision Accuracy	±0.01mm
Vision Process Time	~ 0.1 sec/unit

Programming System

Programmer	ProgMaster series *6
Programming Site	6*4 or 6*8
Support IC	EEPROM、SPI/NOR/NAND/SPI NAND Flash、Microcontroller、eMMC、eMCP、CPLD、FPGA...etc
IC Package	DIP、SOP、SSOP、TSOP、PLCC、QFN、LQFP、BGA... etc

Marker

Ink Marker	Different color available : support dot (1.5mm~2.0mm), character and number (2mm x 3mm)
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Operation Environment

Input Voltage	200~245V / 50-60Hz
Power Consumption	1.3 KVA
Air Flow	45 liter/min
Air Pressure	0.6 MPa (~6.0 kg/cm2)

Dimension

Main Unit	W x D x H : 1610mm x 1030mm x 1540mm (Not included monitor and alarm LED light)
Main unit+Tube Loader	W x D x H : 1610mm x 1750mm x 1540mm
Main unit+Tape Feeder	W x D x H : 1610mm x 2150mm x 1540mm
Main unit+Tray Loader	W x D x H : 1610mm x 1450mm x 1540mm
Weight	400 KG

Control System

PC O/S	Windows XP
Display	19"LCD
Input Devices	Keypad & Mouse

