

DP2000

Automated Programming System

www.dediprogram.com



DP2000 is an automated programming system especially designed for Tube/Tape In and Tape Out.

The system is equipped with a moving programming module and 4 nozzles to handle pick and place of IC input, positioning, programming and IC output. With 4 nozzles functioning synchronously with the moving programming module, DP2000 easily achieves high throughput, 3,000UPH. The unique and creative design already obtained a patent.

Features

High Throughput

Achieve 3,000 UPH when SPI Flash density is 64Mbit and smaller.

High Expansibility

Able to built in 2 units of ProgMaster-S8 programmer and expand up to 16 programming sites. The System will not idle and decrease throughput when programming those chips with high density.

Support All IC Families

1. Supported IC: EEPROM, SPI FLASH, MCU...etc.
2. Supported IC Package: SOP, SON, TSOP, QFN...etc.

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.

Software Supports 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.

Fast & Accurate Positioning

Design dedicated Positioner for different IC package to handle positioning.

Support Different Input/Output Peripherals

1. Input: Tube and Tape.
2. Output: Tape.

Support PSA & Heat Sealing

Vertical & Horizontal Infrared Inspection

Check empty pocket and jammed component before taping.

Report Engine

To consolidate and report multiple real time handlers' statuses for manufacturing management.

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

Different color available; support dot, character, and number.

Optional CCD-Camera

Check empty pocket and the position of pin 1 and mark.

Unique & Creative Design Obtains a Patent

Specification

Pick & Place System	Placement Accuracy	±0.02mm
	Pick & Place Device	Vacuum Nozzle x 4
	Throughput	Up to 3,000 UPH
Positioning System	2 Unit of Positioner for Input & Output	Dedicated Positioner for different package type
Transmission System	X-Y-Z Drive	High Performance Servo Motor
	Transmission	Ball Screw & Cam Mechanism
	Maximum Stroke	560mm
Input/Output System	Tube In	Auto Tube In Loader (SOP, TSOP); capacity: 30~40 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
Programming System	Programmer	ProgMaster-S8*2
	Programming Site	16 Sockets
	Support IC	EEPROM, SPI Flash, Microcontroller, etc.
	IC Package	SOP, SON, TSOP, QFN, etc.
Markers	Ink Marker	Different color available; support dot (1.5mm~2.0mm), character and number (2mm x 3mm)
Operation Environment	Input Voltage	200±15% Vac, 40-60Hz
	Power Consumption	1.1kVA
	Air Flow	30liters/min
	Air Pressure	0.6MPa (~6.0kg/cm ²)
Dimension (W x D x H) (Monitor Wide Opened and Alarm LED light)	Main Unit	1640 x 703 x 1900mm
	Main Unit+Tube Loader	1640 x 1480 x 1900mm
	Main Unit+Tape Feeder	1640 x 1640 x 1900mm
	Weight	190kg
Control System	PC O/S	Windows 10 IOT
	Display	19"LCD
	Input Devices	Keypad & Mouse

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