

The PSV3000 automated programming system delivers trusted performance, high reliability and local support at a great value.

**Performance:** Engineered with leading handling and programming technology to easily manage any programming job

**Reliability:** Designed for highest quality programming, yield and production uptime

**Cost effectiveness:** Developed to deliver the lowest total cost of programming while maintaining the highest yield



## Performance

- Up to 1000 devices/hour with 1 to 4 programmers (4 to 16 sockets)
- FlashCORE III programming engine with SuperBoost Technology for optimized algorithms & universal device support
- Industrial vision alignment system for fast image acquisition
- Flexible media I/O options for fast changeover
  - tray
  - tray stacker
  - tape in/tape out

## Reliability

- Precision handling and placement with:
  - Data I/O's perfected pick and place head
  - Dual support gantry
  - Vision alignment system
- Proven programming technology with Data I/O's FlashCORE III programming engine
- High Insertion Count sockets (HIC) for highest programming yield
- Local service, engineering and support in local language

## Cost effectiveness

- Lowest total cost of programming
- Access to the world's largest library of device support
- Investment protection: Compatible with all existing FlashCORE III adapters, algorithms and JOBS
- Highest quality programming yield minimizes scrap cost

# PSV3000 Performance. Reliability. Cost effectiveness

## Device Handling System

- **Throughput:** Up to 1000 parts per hour (with tray,tape and tube,even with large file sizes)
- **Placement Accuracy:** ± .03mm
- **Placement Force:** Precision placement reduces the chance of bent pins
- **Pick-and-Place Method:** single vacuum nozzle
- **Component Detection:** Vacuum sensor
- **Frame Dimensions:** 1200mm D x 870mm W x 1520mm H (not including media I/O & monitor)
- **Shipping Dimensions:** 1310mm D x 930mm W x 1760mm H (not including media I/O & monitor)
- **Net Weight:** 450Kg
- **Shipping Weight:** 550Kg
- **Regulatory:** CE Compliant
- **Alignment:** Vision alignment
- **Package Size Range min / max** (4 mm x 4 mm) to(30 mm x 30 mm)

## Positioning System

- **X-Y Drive System:** Servo-driven screw drive
- **X-Y-axis Resolution:** ±0.02 mm, using rotary encoders
- **Theta-axis Resolution:** .07° servo drive
- **Z-axis Resolution:** .06°
- **X-Y Encoder Type:** Rotary encoder
- **Z-drive System:** Stepper belt-drive
- **Theta Drive System:** Servo motor

## I/O Media Options

- **Tray Feeder:** Support up to 20 JEDEC Trays
- **Tape-In:** Support 8,12,16,24,32,44,56 mm tape widths
- **Tape-Out:** Support 8-44 mm tape widths(adjustable)
- **Manual Tray:** Available without any special tooling

## Universal Device Support

- Flash Memory (NOR, NAND, MCP, MMC, e.MMC, SD, MoviNAND, OneNAND, iNAND, Serial Flash, EEPROM, EPROM...), Microcontrollers and Logic Devices (CPLD, FPGA, PLD...)

## Package Support

- PLCC, SO, SOIC, TSOP, TSSOP, SSOP, BGA, CSP, MLP,QFN, MLF, LAP,QFP, TQFP

## Our customers

Leading global automotive electronics companies trust Data I/O systems to correctly program engine control units and braking systems. Industrial, medical & military companies trust us for their products. Top wireless handset manufacturers use Data I/O's solutions to program millions of devices each year. At Data I/O, we bring the world's premier companies' products to life.

## System Requirements

- **Air Pressure:** 80 psi (552KPa)
- **Air Flow:** 6 SCFM (max)
- **Operational Temperature:** 55° F - 90° F
- **Input Line Voltage:** 208-240 VAC
- **Input Line Frequency:** 50 - 60 Hz
- **Power Consumption:** .88 KW (max)
- **Humidity:** 35% to 90% RH, non-condensing

## Software

- TaskLink
- CH700
- Windows 7

## Service Option

- Operator training
- Annual Programmer Support (APS)

## Service Spares

- PSV3000 Basic Spares Kit
- PSV3000 Supplemental Spares Kit
- PS-FlashCORE III Spares Kit

## Programmer

- FlashCORE III

## Optional Software

- Serial Number Server

## Device Testing

- Continuity, checksum, blank check, mis-insertion test, verify, backwards device, two pass verify

Automotive	Consumer & Wireless	Industrial

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# Data iO