

PSV7000

Velocity. Versatility. Value.

The world's premier automated programming system with the speed, flexibility and fast changeover to handle any job at the lowest total cost of ownership

Velocity: Engineered for speed

Versatility: Designed for ultimate flexibility and zero changeover

Value: Delivering unprecedented capability & quality for the lowest total cost of ownership



When Velocity Matters

- Up to **2000 devices/hour** with tray, tape and tube, even with large file sizes
- Optimized system for faster file download
- FlashCORE III programmers with **optimized** algorithms
- Alignment-on-the-fly
- **Zero** mechanical changeover

When Versatility Matters

- **Smallest device handling** down to 1.5mm x 1.5mm
- **Greatest socket density:** scalable up to 24 programmers for up to 96 sockets
- **Concurrently** installed media options
- **Ergonomic design** for easy access to programmers

When Value Matters

- **Lowest** total cost of ownership
- **Investment protection** for FlashCORE customers' adapters, algorithms, programming jobs & value added software
- Backed by Data I/O's **global** service, & support available 24/7
- **Local** engineering support

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Data I/O

Device Handling System

- **Throughput:** Up to 2000 devices per hour with tape, tray or tube; even with large file sizes
- **Placement Accuracy:** ± .03mm
- **Placement Force:** Compliant probe tips, combined with precision placement reduces the chance of bent pins
- **Pick-and-Place Method:** 2 single vacuum nozzles
- **Component Detection:** Vacuum sensor
- **Frame Dimensions:** 1250mm W x 1280mm D x 1500mm H (not including media I/O & monitor)
- **Shipping Dimensions:** 1900mm W x 1600mm D x 1600mm H (not including media I/O)
- **Net Weight:** 500Kg
- **Shipping Weight:** 765Kg
- **Regulatory:** CE Compliant, RoHS, WEEE
- **Alignment:** Alignment-on-the-fly (laser based)
- **Package Size Range min / max** (1.5mm x 1.5mm) to (32mm x 32mm)

Positioning System

- **X-Y drive system:** Servo-driven belt drive
- **X-Y-axis resolution:** ±.001 mm using linear encoders
- **Theta-axis resolution:** .072° servo drive
- **X-Y encoder type:** Linear/rotary dual encoder
- **Z-drive system:** Stepper belt-drive
- **Theta Drive System:** Servo motor

I/O Media Options

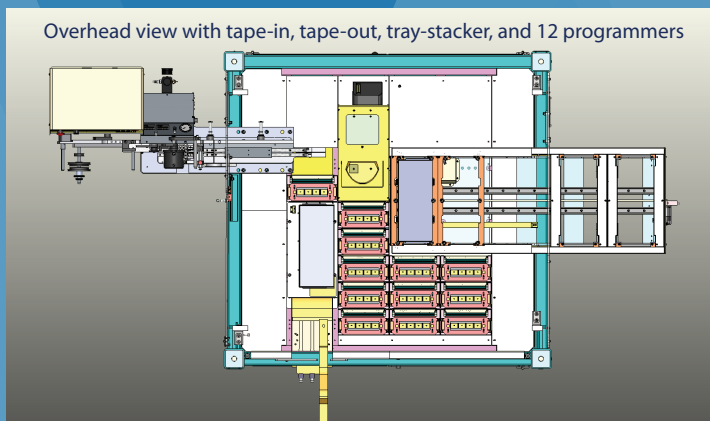
- **Dual Input Tray Feeder:** Independent tray-in/tray-out system to prevent possibility for mixing programmed and un-programmed devices with support for up to 20 JEDEC trays
- **Tape-In:** Tape-in 8mm to 56mm tape-width
- **Tape-Out:** Tape-out system 8mm to 56mm tape-width
- **Tube-In / Out:** Available without any special tooling
- **Manual Tray:** Available without any special tooling

Device Marking Options

- **Laser Marker:** Solid-state pulsed fiber laser for alpha-numeric / graphic / 2D bar-code laser marks up to 28mm x 28mm mark area
- **Power:** 10 Watt

Additional Options

- **Vision:** 3D Coplanarity Vision System down to 7 microns



System Requirements

- **Air Pressure:** 80 psi (5.5 bar)
- **Air Flow:** 6 SCFM (max)
- **Operational Temperature:** 55° F - 90° F
- **Input Line Voltage:** 220 V AC Single-phase
- **Input Line Frequency:** 50 - 60 Hz
- **Power Consumption:** 1.5 KVA (max)
- **Humidity:** 35% to 90% RH Non-Condensing

Software

- TaskLink for Windows
- AH700
- Windows 7

Optional Software

- Factory Integration Software
- Automotive Performance PAK
- Serial Number Server and more!

Support Options

- Operator training
- Annual Programmer Support (APS)

Service Spares

- PSV7000 Basic Spares Kit
- PSV7000 Supplemental Spares Kit
- PS-FlashCORE III Spares Kit

Programmers

- FlashCORE III

Universal Device Support

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

Package Support

- PLCC, SOIC, SON, WSON, SSOP, CSP, BGA, uBGA and FPGA, QFP, TQFP, TSOP, PoP, DIP and more

Device Testing

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

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