

PS 388

Compact High Performance Automated Programming

Unrivalled quality & flexibility in a small footprint

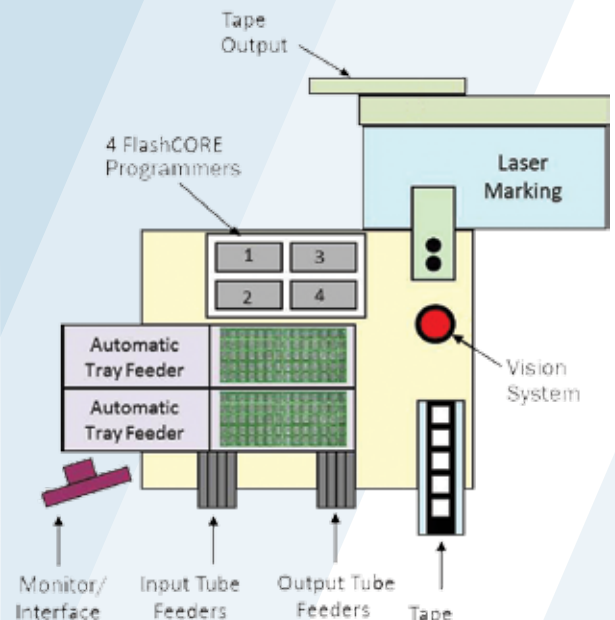


Quality Programming

- ✓ Precision handling with Data I/O's patented pick & place head
- ✓ Value added software applications for controlling the programming process
- ✓ Highest yield with Data I/O's proprietary HIC adapters

Speed & Flexibility

- ✓ Scalable up to 16 sockets (4 programmers)
- ✓ Supports all media i/o options & laser marking
- ✓ FlashCORE III programming engine with optimized algorithms
- ✓ Universal device support



Device Handling System

- **Throughput:** up to 850 devices per hour
- **Placement Accuracy:** 0.038mm (0.0015")
- **Placement Force:** <10N
- **Pick-and-Place Method:** Single probe with vacuum nozzles
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- **Alignment:** Upward looking camera
- **Regulatory Compliance:** CE
- **System Software:** TaskLink for Windows, AH500, Windows XP

I/O Media Options

Any combination of input/output media I/O

- **Tape Input:** 12 mm - 56 mm
- **Tape Output:** 8 mm - 56 mm
- **Cover tape, pressure or heat sealer**
- **Tube Input and Output**
- **Tray feeder Input/Output:** JEDEC (TF20)
- **Tray location for device rejects**

Device Marking Option

- **Laser Marker:** CO2 Laser with a spot size: 0.29 mm
- **Power:** 0 - 10 Watts

Value Added Software

- **Serial Number Server**
- **Automotive Performance PAK:** (Version Control, Serial Number Server, Factory Integration Software, Tape Label Generator, Enhanced Yield Programming, Confirm Input Device)
- **NAND Bad Block Schemes and more!**

Support Options & Service Spares

- **PS388 Basic Spares Kit**
- **PS388 Supplemental Spares Kit**
- **PS- FlashCORE III Spares Kit**
- **Operator training**
- **Annual Programmer Support (APS):** The first year of support is included in the system purchase price and can be extended via annual support agreement renewal. The APS support program covers both hardware and system software (consumables are not included).

- **Dimensions (less option bay):** 90 cm (35") L x 80 cm (31") W x 163 cm (64") H
- **Shipping Dimensions (less option bay):** 124.5 cm (49") L x 99 cm (39") W x 180.3 cm (71")
- **Net Weight:** 364 kg (800 lbs)
- **Shipping Weight:** 455 kg (1000 lbs)

Programming Engine, Adapters & Device Support

Programmer

- FlashCORE III with SuperBoost Technology

Socketing Technology

- **Standard burn-in sockets** (5,000 - 10,000 insertions per socket)
- **High Insertion Count (HIC)** for BGA, TSOP, QFP (250,000 insertions per socket)

Universal Device Support

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

Package Support

- Package geometries up to 21.65 mm wide, 14mm long and 3 mm high (4 probes) or 16.5 mm long and 3 mm high (2 probes)
- TSOP, BGA, QFP, TSOP2, FBGA, TQFP, CSP, uBGA, PLCC, SOIC, EBGA, PoP, SSOP, TFBGA

Device Programming & Testing

Program, continuity, checksum, blank check, mis-insertion, test, verify, backwards device, two pass verify, ID check, Illegal bit-check

Requirements

Electrical/Power

- **Input voltage:** 208 - 240 VAC, 50/60 Hz, 1 PHZ
- 10 Amps Max

Compressed Air Usage

- **Air pressure:** 80psi (5.5 bar)
- **Air flow:** 3 CFM (85 liters/min.)

Operating Temperature

- 55°F to 86°F (+13°C to +30°C)

Humidity

- 35% to 90% RH Non-Condensing



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