

A light gray world map is visible in the background, centered behind the main text.

SMT Worldwide

SMT America

SMT Europe

SMT Nordic

SMT Asia

www.smtworldwide.com

Data iO

- Fast & Robust
- In line or Off line
- Modular Systems
- Immediate savings

Main fields of use

Automotive: Quality, fast eMMC, Global Support

Internet of Things: small parts handling, security

Capabilities

Flashcore III: eMMC, NAND, NOR, Serial Flash, Microcontroller, FPGA, CPLD,



LumenX: eMMC, Upgradable 68GB, 50Mhz to 100Mhz, speeds of 80MB/sec. High speed downloads at 25MB/sec.

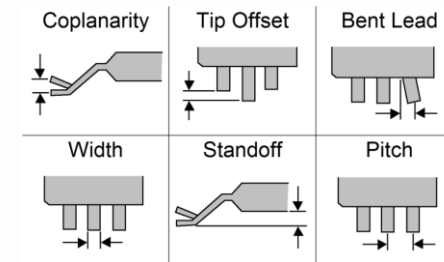
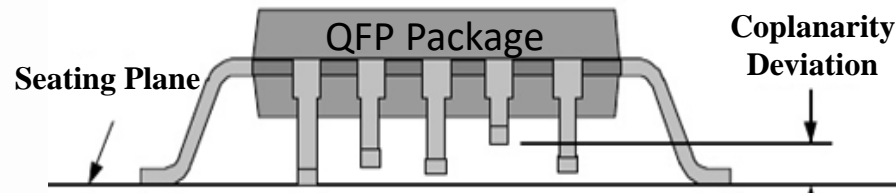




- **Programming Solutions**
- Off line programming
- Fastest in the market
- Most flexible

Data I/O is the highest quality programming equipment provider in the world, serving mission critical applications for over 40 years

- Integrated Software for Traceability, Statistical analysis, Serialization and Version control
- FlashCORE programming engine with universal device support
- High insertion count sockets deliver the highest programming reliability and yields
- Tested programming algorithms from deep and long term semiconductor relationships
- 3D co-planarity checking to insure long term reliable operation



Automotive manufacturers achieve the highest production yields and process efficiency using the Data I/O PS588 with its fully integrated 3D co-planarity vision system.

Traceability matters

Flexibility that adapts to your needs

- In-cell
- Labeling
- Laser marking



Flexibility matters

Flexibility that adapts to your needs

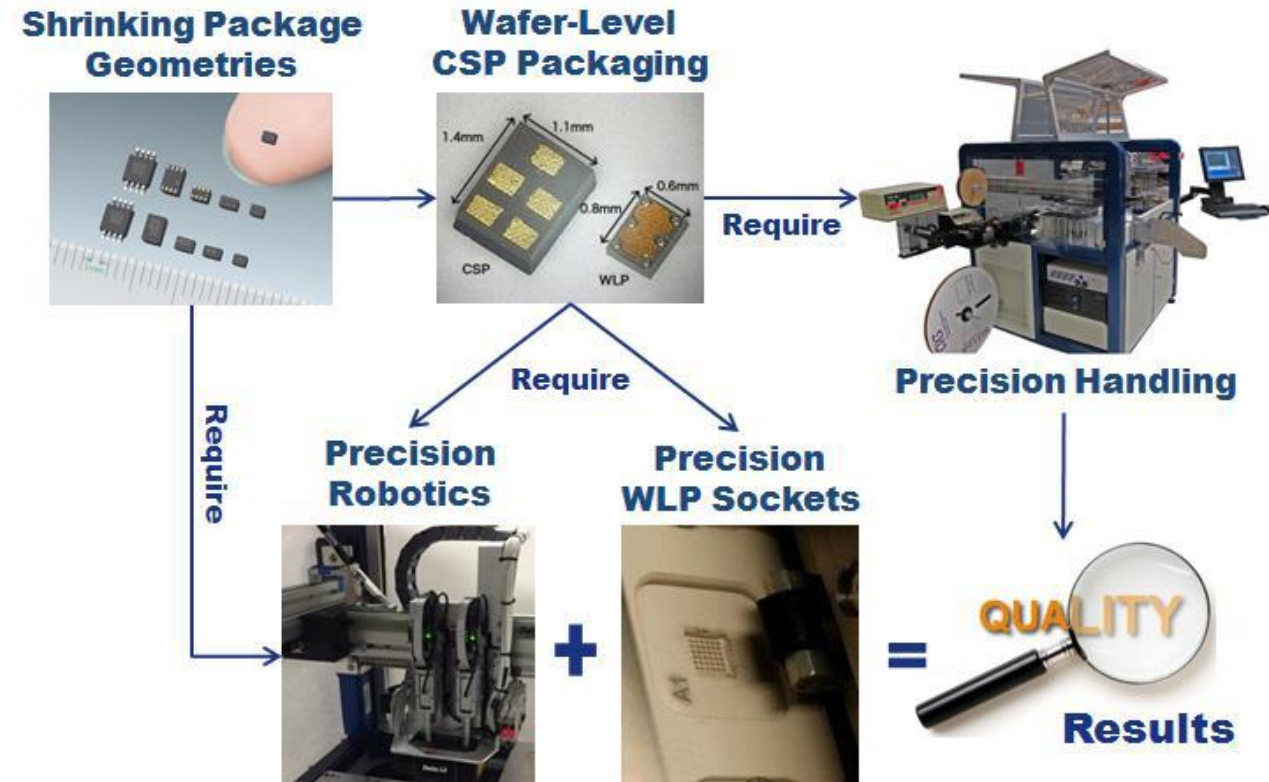
- Tray feeding
- Reel feeding
- Tube feeding

OUTPUT Flexibility

- Tape output
- Tray output
- Tube output



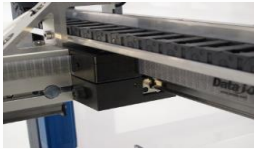
PSV7000 is designed to handle the Smallest programmable devices on the market, (1.5mm x 1.5mm) including **SOT, WLCSP, MLF and TDFN packages**





Alignment on-the-fly

Dual-alignment-on-the-fly is done with a head-mounted laser-align system originally designed for SMT placement machines



H-Bot Gantry

The servo-driven H-bot gantry, coupled with dual-loop encoders and kinematic algorithm achieves the highest accuracy and throughput



Linear X-Y Encoders

PSV7000 features non-contact X-Y linear encoders with a resolution of 1 micron (1 μ m) to provide the real position of the pick and place locations



Compliant PnP nozzles

Reconfigurable PnP nozzles support device handling of components ranging in size from 1.5 x 1.5mm to 32 x 32mm. Three nozzle sizes:

- Small (1.5/1.0mm)
- Medium (5.0/3.2mm)
- Large (9.5/8.0mm)



Ultra Rigid Frame

The PSV7000 features a high-quality welded steel frame for a strong and rigid structural design with excellent anti-vibration characteristics.





- **Just-in-time**
- In line programming
- Only one in the market
- Most flexible



- **Unique** solution to upgrade your line capabilities to a whole new level





- **Revolutionary Programming Technology**
- Fastest
- Most secure
- Most flexible

ConneX™ Software is used to track LumenX and FlashCORE III programming activity during production

Data is Tracked for each programmed device including:

- Time and date stamp
- Programming job (data file & programming algorithm)
- Socket adapter
- Detailed results and error information

Programming process is Monitored real time:

- Integrates through factory software environment
- Automatically tracks yield to minimize scrap and rework

Perform data export, allowing customer to conduct post production analysis using data collected

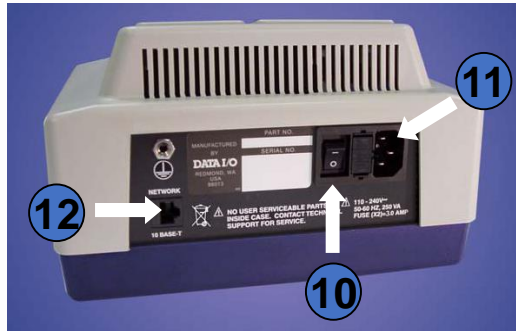
ConneX™ Software provides traceability of all devices programmed, while optimizing the overall operating efficiency of the production line



- **Tailored Solutions**
- Fastest
- Most secure
- Most flexible

- **FlashPAK III supports over 4000 devices**
 - >800 microcontroller devices
 - >3200 memory (NAND/NOR) devices
- **FlashPAK III package support**
 - QFP (quad flat pack)
 - TSOP (thin small outline package)
 - BGA (ball grid array)
 - uBGA (micro ball grid array)
 - SOIC (small outline integrated circuit)
 - PLCC (plastic leaded chip carrier)
 - Others





1. Control Panel with LCD display
2. Status Lamps
3. Reject Area
4. Actuator Cover
5. Socket LED (light emitting diode)
6. Actuating Bar
7. Socket Adapter
8. Actuator Plate
9. Card Slot & Eject Button
10. Power Switch
11. Power Connection
12. Network Connector (100 Base-T)