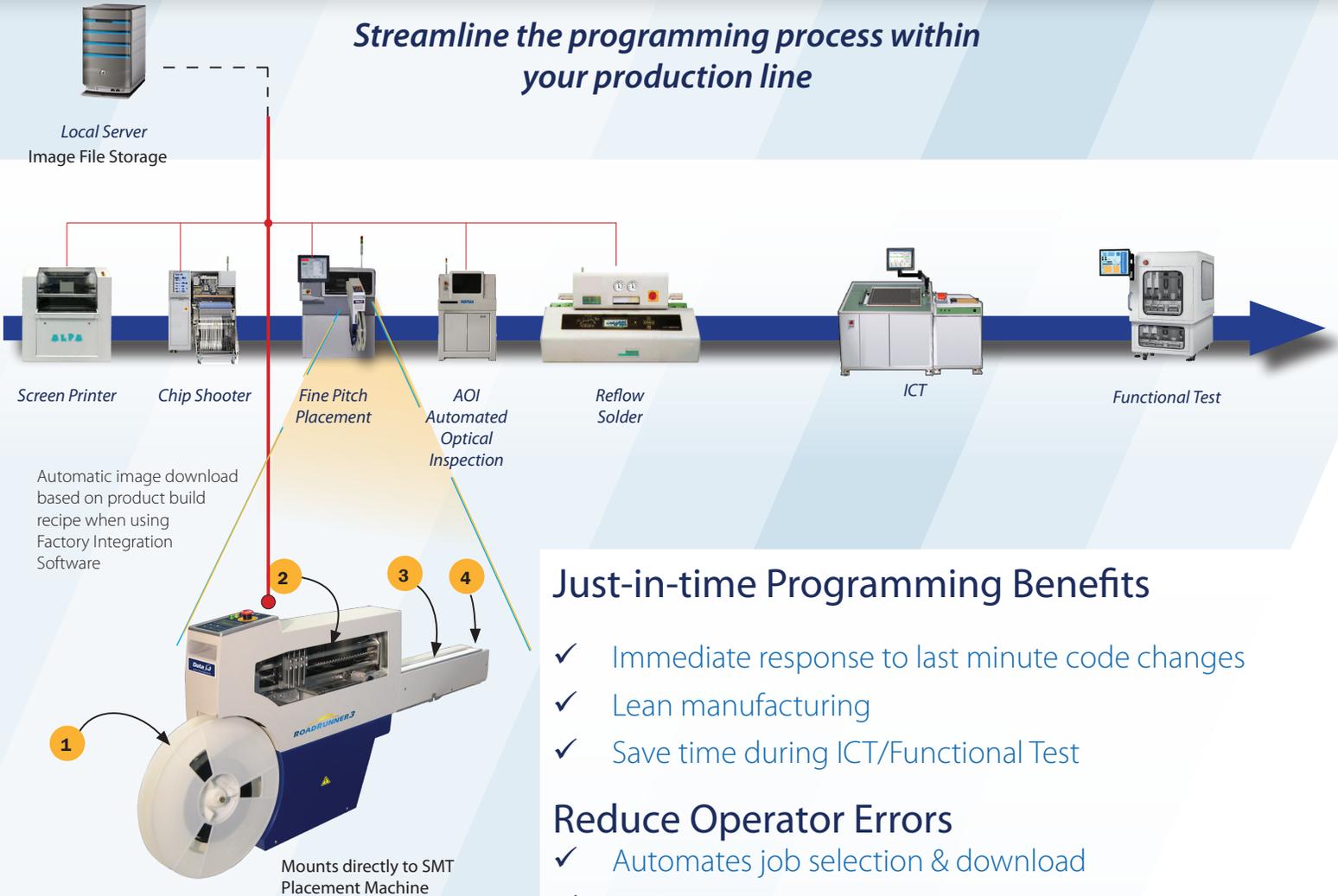


Streamline the programming process within your production line



Just-in-time Programming Benefits

- ✓ Immediate response to last minute code changes
- ✓ Lean manufacturing
- ✓ Save time during ICT/Functional Test

Reduce Operator Errors

- ✓ Automates job selection & download
- ✓ Reduce scrap
- ✓ Minimizes rework

Enable Data-driven Decision Making

- ✓ Ensures traceability
- ✓ Tracks yield to improve efficiency
- ✓ Sends programming results and process data records to MEX/QMS factory Software
- ✓ Receive machine alerts by email or SMS for specific programming conditions parameters

RoadRunner3 System Operation

Typical operation of RoadRunner:

1. Removes blank programmable devices (ICs) from a reel.
2. Places them into sockets and programs and verifies them with your data. Other processes such as erase and blank check, can be set in TaskLink.
3. Places verified devices onto the conveyor belt.
4. Delivers them to the pick-point of the placement machine.

ROADRUNNER3

SMT Platform Support

Configurable to popular SMT models

Adapter/interface kits enable the RoadRunner3 to easily move between different SMT manufacturing lines including:

- SIPLACE
- MYDATA
- Panasonic
- Universal
- Fuji

Don't see your SMT line listed? Contact your local Data I/O Sales representative to learn how RoadRunner3 can be supported on your platform.

Technical Specifications

Throughput

- 815 parts per hour (zero programming time, 4 sockets, 4 probe-operation)

Physical Specifications

- Length with reel mounted less any SMT Adapter extension: 1263 mm (49.7 in.)
- Width: 98 mm (3.86 in.)
- Height with reel: 510 mm (20.1 in.)

Product Weight

- Weight: 21- 23 kg (47 - 50 lbs) depending on model (+ SMT Adapter for some models)

Tape-Input Options

- Tape width: 16 mm to 44 mm
- Tape Reel, max: Ø 330 mm (Ø 13 inch)

Coplanarity Alterations

- Leaded device coplanarity deformation: <.025 mm (1 mil)

Regulatory Compliance

- CE, OSHA

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

Package geometries up to:

- 31 mm L x 32 mm W and 6 mm H (in 2 probe operation)
- 15 mm L x 32 mm W x 6 mm H (in 4 probe operation)

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)

High Insertion Count (HIC) adapters

Using HIC socket adapter modules, the RoadRunner produces the highest first pass yields and lowest cost per programmed device available

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)

Changeover Time* (New Job Set-up)

- < 15 minutes
- Change reel (13 in. reel diameter)
- Empty cover tape take-up reel
- Change socket adapter
- Insert carrier tape and align pocket

***Tape configuration using adjustable tape-in module**

Changeover Time* (consumables)

- <1 minute
- Replace PNP nozzle tips
- Replace socket adapter

Requirements

PC Workstation for TaskLink

Tasklink software accompanies RoadRunner for creation of programming jobs

- Personal computer running Microsoft Windows XP or Windows 7
- Hard disk space: 75 MB minimum for TaskLink files
- CD ROM drive
- Memory card (PC-card) drive for job transfer

Air Requirements

- Regulated Air to RoadRunner: 75 PSI ± 5 PSI @ 4 SCFM

Power Requirements

- AC Input: 100/240 V AC, 50/60 HZ (single phase)
- AC Input Power: 100 W

Operating Temperature Range

- +15° to +40°C (+60°F to + 104°F)
- Temperature stabilization time ≥ 8 hours
- Operating humidity, non-condensing: 20 - 80%



Four-Probe Operation



Adjustable Tape-Input



Mechanical Precursors



High Insertion Count (HIC) Socket Adapter

Americas

Data I/O Corporation
Redmond, Washington, USA
Website: www.dataio.com
Email: sales@dataio.com

Europe

Data I/O GmbH
Gräfelfing, Germany
Website: www.dataio.de
email: salesgmbh@data-io.de

Asia

Data I/O Electronics (Shanghai) Co. Ltd
Shanghai, China, PRC
Website: www.dataio.com.cn
Email: ChinaSales@dataio.cn

Data iO