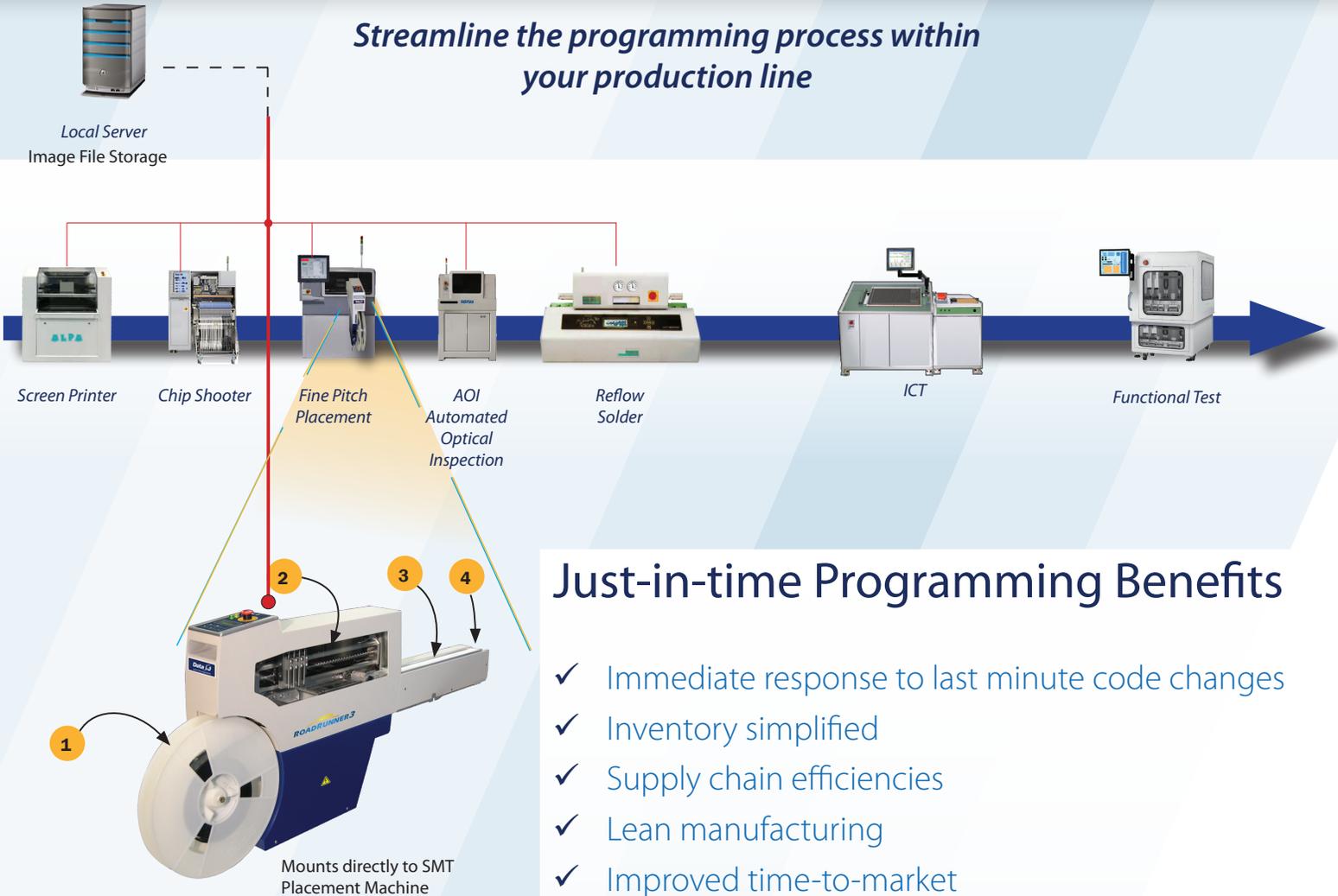


RoadRunner

The World's Only Just-in-Time Programming System

Streamline the programming process within your production line



RoadRunner 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.

Just-in-time Programming Benefits

- ✓ Immediate response to last minute code changes
- ✓ Inventory simplified
- ✓ Supply chain efficiencies
- ✓ Lean manufacturing
- ✓ Improved time-to-market
- ✓ Higher profits
- ✓ Highest quality
- ✓ Save time during ICT/Functional Test

RoadRunner

SMT Platform Support

Siplace

- S20, S23, S25, S25H, S27
- 80F4, 80F5
- HF3, HS50
- D1, D2, D3, D4
- X-Series
- SX-Series

Fuji

- NXT
- AIM / AIM-EX
- XPF

MyData

- My-Series

Panasonic

- NPM
- KME420, CM402, DT402, CM602
- CM20, CM201, CM202, CM301

Universal

- GSM-1, GSM-2
- Genesis, Genesis II
- Advantis, Advantis 3, Advantis X
- Fuzion

Assembleon

- ACM, ACM Micro
- AQ1, AQ2, D9
- AX201, AX301, AX501

Technical Specifications

Typical Product Dimensions

(Varies by Model)

- Length: 1045 mm (41 in.)
- Width: 78.5 mm (3.1 in.)
- Height: 483 mm (19.02 in.)
- Protrusion distance from machine:
Length: 740 mm (29 in.)

Product Weight (Varies by Model)

- Net weight: approx. 16 kg (35.2 lbs)

Tape-Input Options

- 16/24/32mm (using standard adjustable tape input module)
- Optional fixed tape-in module supports 12 mm tape
- Reel size: 32 mm tape x 330 mm (13 in.) diameter max

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 21.65 mm wide, 14 mm long and 3 mm high (4 probes) or 16.5 mm long and 3 mm high (2 probes)

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 \pm 5 PSI @ 4 SCFM

Power Requirements

- AC Input: 110/240 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 \geq 8 hours
- Operating humidity, non-condensing: 20 - 80%



Four-Probe Operation



Adjustable Tape-Input



Mechanical Precision



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