![Data I/O logo]

ROADRUNNER3

The world's only just-in-time programming system. 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 MES/QMS factory software
- Receive machine alerts by email or SMS for specific programming conditions parameters

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SMT PLATFORM

Configurable to popular SMT models

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

- KNS
- Fuji/NXT/AIM

UNIVERSAL DEVICE SUPPORT

FlashCORE: 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

TECHNICAL SPECIFICATIONS

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

- **Tape Input Options:** Tape width: 16mm to 44mm
  Tape Reel, max: 0 330mm (0 13 inch)

- **Regulatory Compliance:** CE, OSHA

PHYSICAL SPECIFICATIONS

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

PACKAGE SUPPORT

- **Package geometries up-to:** 31mm L x 32mm W and 6mm H (in 2 probe operation)

  15mm L x 32mm W x 6mm H (in 4 probe operation)

ADDITIONAL SPECIFICATIONS

- **Weight:** 21-23 kg (47-50 lbs) depending on model (+ SMT Adapter for some models)
- **Coplanarity:** Leaded device coplanarity deformation: <.025 mm (1 mil)

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.

Changeover Time* (consumables)
- <1 minute
- Replace PNP nozzle tips
- Replace socket adapter

Socketing Technology:
Standard burn-in sockes (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

REQUIREMENTS

PC Workstation for TaskLink:
- Personal computer running Microsoft Windows 10
- 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:** +15° to 40° C (+60°F to 104°F)
  Temperature stabilization time ≥ 8 hours
  Operating humidity, non-condensing: 20-80%

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