

InStrip® Test Handling System



the Facts >

- > ambient-hot-cold strip handler
- > unlimited parallel testing capability
- > standard SEMI mapping interface G84 or E142
- > integrated soak station
- > multi slot soak buffer option
- > slotted / stacked input and output
- > conversion in less than 15 min
- > maximum contacting force 250 kg

Handling Solution for >

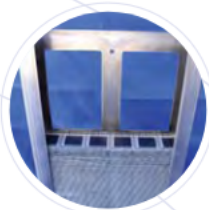
- > panels and lead frames up to 100x300 mm
- > all SO, QFP and BGA packages with a device pitch down to 0.4 mm

Applications >

- > consumer
- > automotive and power devices
- > RF and communication
- > logic, linear and flash memory
- > MEMS test and calibration



slotted magazine loader



stack magazine loader



contact unit



quick loadboard exchange

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InStrip® Test Handling System



1 Base System

- 1.1 Available Versions:
 - slotted or stack magazine loader
 - test module ambient / hot / cold
 - slotted or stack magazine unloader
- 1.2 Available Options:
 - multi slot soak buffer for hot / cold test
 - auto - width adjustment at transport track
 - rotation unit (live bug / dead bug strip)
 - ESD ionizer
 - matrix code reader from top or bottom
 - InMEMS modules for various MEMS test applications
- 1.3 Software:
 - HMI: Panel-PC, Windows XP
 - online help system
 - user configurable menus and run-screen
 - remote recipe management
 - control system: operating system VxWorks
- 1.4 Display:
 - panel-PC with 15" touch display

2 Conversion

- 2.1 Package Style Conversion:
 - conversion time required: < 15 min
 - only 1 person necessary
- 2.2 Adjustment/ Calibration after Conversion:
 - the system provides automatic adjustment

3 Packages

- 3.1 Package Styles:
 - leadframe packages
 - strip (panel) packages
- 3.2 Min. and Max. Size of Packages:
 - panel size: min.: 20x150 mm; max.: 100x300 mm
- 3.3 Min. Lead Pitch:
 - 0.4 mm

4 Loading/Unloading

- 4.1 Loading/ Unloading Options:
 - slotted magazine
 - stacked magazine
- 4.2 Available Loader/ Unloader Types/ Capacity:
 - slotted loader stack capacity: 450 mm (typical 5 to 6 cassettes)
 - stacked loader: 2 cassettes

5 Contacting

- 5.1 Number of Contact Sites/ Versions:
 - for 1 contact site up to a complete strip at a time
 - maximum contacting force 250 kg
- 5.2 Contact Modes:
 - synchronous parallel
- 5.3 Applications:
 - standard
 - Kelvin
 - high frequency
- 5.4 Available Contact Sockets:
 - standard (pogo pin sockets)
 - Kelvin (pogo pin sockets, Multitest micro Kelvin)
 - high frequency (pogo pin sockets)

6 Docking

- 6.1 Docking Height:
 - 960 mm, horizontal docking

7 Performance

- 7.1 Throughput:
 - throughput is depending on: tester capability (number of parallel CS), number of devices on a panel and testtime. For throughput values please specify above parameters.
- 7.2 Index Time:
 - panel exchange time: ~ 2 s
 - contact sub-index time: < 200 ms (dependent on index distance)

8 Facility requirements

- 8.1 Power Supply Requirements:
 - 3x208 to 3x480 V, 50/ 60 Hz, + N + PE
 - < 10 kVA at hot operation
- 8.2 Mobility:
 - system on casters can be moved by 2 persons as one machine
- 8.5 Weight:
 - 1,300 kg including loader and unloader
- 8.6 Size:
 - test module w/ slotted magazine loader / unloader: LxWxH: 160x215x140 cm (H:170 cm incl. signal light)
 - test module w/ stacked magazine loader / unloader: LxWxH: 128x240x140 cm (H:170 cm incl. signal light)

9 Compliance and Standards

- 9.1: Compliant to:
 - CE, SEMI S8
- 9.2: Strip Mapping Interface:
 - SEMI standard SECS/GEM G84 or E142

All performance figures such as MTBF, MTBA, Uptime, Yield, Jam Rate, Life Span, Cleaning Cycles etc. can vary with specific package type, test program and / or specific application environment. They assume that only original Multitest spare and consumable parts are used, recommended maintenance intervals and procedures are respected, operators/maintenance technicians have successfully participated in formal equipment training by Multitest to the appropriate level, and only Multitest approved software is used on the systems. Multitest assumes no warranty or liability if any of these requirements is not met. All listed data are for information only. For binding specification please contact your sales person.