

Applications

- consumer
- automotive and power devices
- RF and communication
- logic, linear and flash memory
- MEMS test and calibration
- 3D In-Process test

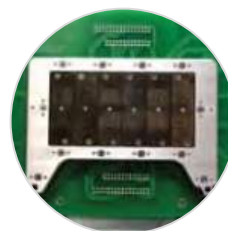
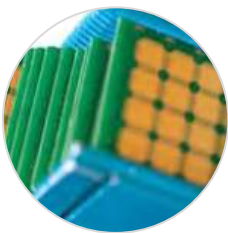
Facts

- ambient-hot-cold strip handler
- unlimited parallel testing capability
- standard SEMI mapping interface G84
- integrated soak station
- multi slot soak buffer option
- slotted input and output
- conversion in less than 15 min
- maximum contacting force up to 4,000 N



Solution for

- panels and lead frames up to 100 x 300 mm
- all SO, QFP and BGA packages with a device pitch down to 0.35 mm



Test Handling System

1. Base System

- 1.1 Available Versions
 - ambient, ambient hot (+125° C)
 - tri-temp (-40° C to 125° C)
 - slotted magazine loader (stack magazine loader optional)
 - test module ambient / hot / cold
 - slotted magazine unloader (stack magazine unloader optional)
- 1.2 Available Options
 - multi slot soak buffer for hot / cold test (optional)
 - auto - width adjustment at transport track
 - ESD ionizer
 - matrix code reader from top or bottom
 - InMEMS modules for various MEMS test applications
- 1.3 Software
 - HMI: Panel-PC, Windows
 - online help system
 - user configurable menus and run-screen
 - remote recipe management
 - control system: operating system VxWorks
 - vision system: operating system Linux
 - InSite statistic tool

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
 - carrier
- 3.2 Min. and Max. Size of Packages
 - panel size: min.: 30x150 mm; max.: 100x300 mm
- 3.3 Min. Lead Pitch
 - 0.35 mm

4. Loading

- 4.1 Loading/ Unloading Options
 - slotted magazine
- 4.2 Available Loader/ Unloader Types/ Capacity
 - slotted loader capacity: 450 mm (typical 5 to 6 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: 4.000 N
- 5.2 Contact Modes
 - synchronous parallel

- 5.3 Applications
 - standard
 - Kelvin
 - high frequency
 - MEMS test and calibration

6. Temperature Accuracy

- 6.1 Test Site Accuracy
 - +/- 2° C:
- 6.2 Test Site Temperature Stability
 - +/- 1° C

7. Docking

- 7.1 Docking Height
 - 960 mm, horizontal docking

8. Performance

- 8.1 Throughput
 - throughput is depending on: tester capability (number of parallel CS), number of devices on a panel and test time..
- 8.2 Index Time*
 - panel exchange time: < 3.5 s
 - contact sub-index time: < 250 ms (dependent on index distance)

9. Facility requirements

- 9.1 Power Supply Requirements
 - 3x208V / 50/60 Hz, + PE (Y – connection)
 - 3x230V / 50/60 Hz, + N + PE (delta connection)
 - < 10 kVA at hot operation
- 9.2 Mobility
 - system on casters can be moved by 2 persons as one machine
- 9.3 Weight
 - 1,300 kg including loader and unloader
- 9.4 Size
 - test module w/ slotted magazine loader / unloader:
 - LxWxH: 160x225x160 cm (H:180 cm incl. signal light)
 - test module w/ stacked magazine loader / unloader:
 - LxWxH: 128x240x160 cm (H:180 cm incl. signal light)

10. Compliance and Standards

- 10.1 Compliant to
 - CE, Machine Directive 98/37/EC, Low Voltage Directive 73/23/EEC, Electromagnetic Compatibility Directive 89/336/EEC
 - SMEMA interface standard 1.2
- 10.2 Designed according to
 - SEMI S8, SEMI S2, SEMI F47
- 10.3 Strip Mapping Interface
 - SEMI standard SECS/GEM G84

* Index time for standard strip test. Sensor test applications will have different index times.

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

