TEST HANDLERS
TEST INSERTS
TEST SYSTEMS
TEST APPLICATIONS
TEST FIXTURES
IPTE Test Handling systems are designed to facilitate the automated testing of PCBs in an in-line or stand alone process. The handlers are economical in footprint and cost, give an excellent return on investment and embrace all the latest concepts in lean design. Each welded steel framed unit is fully equipped with its own control and diagnostics via a user friendly interface. The units are fully compatible with other SMEMA units and other standard equipment in electronics manufacturing lines to ensure a truly ‘plug and play’ assembly line strategy. Fixture exchange can be carried out in seconds to ensure minimum downtime.

Test Handlers

- Full automatic in-line ICT and FT test handler
- Single stage, dual stage and double sided contacting
- 90° jig tilting for debugging
- 19” mounting space
- 3,5 seconds exchange time

In-line Test System
ITS

- Fully controlled test temperature at PCB level
- 4 heating zones and heated test zone
- 50°C to 125°C temperature
- SMEMA compatible
- Optional dual lane

In-line Hot Tester
IHT
Multi Functional Testhandlers

MFT 19”

- Automatic in-line ICT and FT test handler
- Single stage, dual stage and double side contacting
- Optimized footprint for parallel testing
- Easy fixture exchange
- Flexible in-line solutions
- 3,5 seconds exchange time

MFT Bridge

- Full automatic in-line test handler
- Aeroflex 44xx test platform
- Keysight 3070i, series II and series 3 test platform
- Teradyne Z18xx, Spectrum 885x test platform
- Single stage, dual stage and double side contacting
- Optional dual lane

MFT 19” Tester Integrated

- Automatic in-line test handler
- Acculogic Scorpion test platform
- Aeroflex 5200/530x/5800 test platform
- CheckSum test platform
- DigitalTest MTS300 test platform
- Dr. Eschke CT3XX test platform
- elowerk test platform
- Keysight i1000 test platform
- SPEA 3030 test platform
- Teradyne TSR128 /TSi05x-102 test platform

MFT Bridge pick&place

- Fully automatic Pick&Place in-line handler
- Accepts manual vacuum fixtures
- Fixture compatible with off-line and in-line use
- Single well or dual well fixtures
- Suitable for all manually operated test stations
  (Aeroflex, CheckSum, DigitalTest, Dr. Eschke, Keysight, Spea, Teradyne)
Test handlers

EasyTest Handler
ETH
- Automatic in-line test and programming
- Optional pass-through in contacting position
- Functional test or Keysight DTS (mini ICT), Checksum or Programming (Promik, FlashRunner,...)
- Economical fixture
- Single and dual side contacting
- Easy fixture exchange
- 6 seconds exchange time

MultiTest Handler
MTH
- Automatic in-line test and programming
- Up To 8 Fixtures
- Optional 16 half size test positions
- Single and dual side contacting
- Easy fixture exchange
- Optimized footprint
- Optional second conveyor in lift

RoundTable
RTC
- Rotation table with 2 or 4 positions
- Optimized footprint
- Cost optimized design
- Easy fixture exchange
- Based in 19” cabinet

Shuttle Test Handler
STH
- Manual test and programming
- Economical fixture
- Single and dual side contacting
- Optimized footprint
- 19” Mounting space
- Easy fixture exchange
- Odd-form PCBs
Fixtures

In-line fixture

- Drawer type fixture
- Bottom and/or top side contacting
- Board positioning and orientation sensors
- Space for additional DUT electronics

Manual fixture

- Manual operated Fixture
- Suitable for PCB or final product testing
- Manual and pneumatical press down
- Optional removeable needlebed

Easy “Cage of Farady”

- RF shielded box
- Manual or semi automatic test of RF products
- For placement in production lines
- Diversity DUT types
- Suitable for high throughput

ElVis box

- Manual / Automatic Box for FT / Vision test
- Bed of nails for PCB or final products
- Interchangeable camera jig
- Maximum press-on force 300 N
## Test handler specifications

<table>
<thead>
<tr>
<th></th>
<th>ITS</th>
<th>MFT 19&quot;</th>
<th>MFT Bridge</th>
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</thead>
<tbody>
<tr>
<td>Dimensions (L x D x H):</td>
<td>600 x 880 x 1.550 mm</td>
<td>600 x 1.470 x 1.945 mm</td>
<td>2.400 x 1.300 x 1.960 mm</td>
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<tr>
<td>PCB Exchange Time:</td>
<td>Typical 3,5 sec</td>
<td>Typical 3,5 sec</td>
<td>Typical 5 sec</td>
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<tr>
<td>Edge Support:</td>
<td>3 mm</td>
<td>2,0 - 4,5 mm</td>
<td>2,0 - 4,5 mm</td>
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<tr>
<td>Press Down Force:</td>
<td>3,000 N</td>
<td>5.000 - 15.000 N</td>
<td>5.000 - 15.000 N</td>
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<tr>
<td>Transport Speed:</td>
<td>max. 800 mm/sec</td>
<td>max. 800 mm/sec</td>
<td>max. 800 mm/sec</td>
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<tr>
<td>Transport Height:</td>
<td>940 + 25 mm</td>
<td>940 + 25 mm</td>
<td>940 + 25 mm</td>
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<tr>
<td>Width Independent Fixture:</td>
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<td>Standard</td>
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<tr>
<td>Bypass Conveyor:</td>
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<td>Optional</td>
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<tr>
<td>Bottom Side Contacting:</td>
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<td>YES</td>
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</tr>
<tr>
<td>Top Side Contacting:</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Dual Stage Contacting:</td>
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<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Cage of Faraday:</td>
<td>Optional</td>
<td>NO</td>
<td>NO</td>
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<tr>
<td>19&quot; Build-in Space:</td>
<td>12 HE</td>
<td>12HE</td>
<td>none</td>
</tr>
<tr>
<td>Extension Rack:</td>
<td>MTU (16 HE)</td>
<td>TRM (16 HE)</td>
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<tr>
<td>PCB Width:</td>
<td>340 mm</td>
<td>300, 588 or 2 x 254 mm</td>
<td>300, 588 or 2 x 254 mm</td>
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<tr>
<td>PCB Length:</td>
<td>460 mm (420 mm top side cont)</td>
<td>460 mm (420 mm top side cont)</td>
<td>560 mm (520 mm top side cont)</td>
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<td>PCB Weight:</td>
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<td>Top Component Clearance:</td>
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<td>Bottom Component Clearance:</td>
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<tr>
<td>Tester Integration:</td>
<td>DigitalTest, Scorpion, TRI</td>
<td>Acculogic, Aeroflex, CheckSum, Functional Test</td>
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<table>
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<th>ETH</th>
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<th>IHT</th>
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<tbody>
<tr>
<td>Dimensions (L x D x H):</td>
<td>500 x 840 x 1.500 mm</td>
<td>1.500 x 800 x 1.400 mm</td>
<td>3.600 x 1.200 x 1.670 mm</td>
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<tr>
<td>PCB Exchange Time:</td>
<td>Typical 8 seconds</td>
<td>Typical 14 seconds</td>
<td>Typical 6 seconds</td>
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<td>Edge Support:</td>
<td>2,0 - 4,5 mm</td>
<td>2,0 - 4,5 mm</td>
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<td>Press Down Force:</td>
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<td>Transport Speed:</td>
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<td>max. 800 mm/sec</td>
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<td>Transport Height:</td>
<td>870 - 970 mm</td>
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<tr>
<td>Width Independent Fixture:</td>
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<td>Bypass Conveyor:</td>
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<td>Bottom Side Contacting:</td>
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<tr>
<td>Cage of Faraday:</td>
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<tr>
<td>19&quot; Build-in Space:</td>
<td>12 HE</td>
<td>NO</td>
<td>2 x 12 HE</td>
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<tr>
<td>Extension Rack:</td>
<td>BTR 500</td>
<td>BTR 500</td>
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<td>PCB Width:</td>
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<tr>
<td>PCB Length:</td>
<td>400 mm (360 mm top side cont)</td>
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<td>430 mm (390 mm top side cont)</td>
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<tr>
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<td>Top Component Clearance:</td>
<td>50,8 mm</td>
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<td>Bottom Component Clearance:</td>
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<td>40 mm</td>
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<td>Tester Integration:</td>
<td>FT or Keysight DTS, Checksum, Flasing / Programming devices</td>
<td>FT or Keysight DTS, Checksum, Flasing / Programming devices</td>
<td>Functional Test</td>
</tr>
</tbody>
</table>

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**IPTE SALES**
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