

Test Fixtures and ITAs

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Functional ATE & Power Supply Testers

Military and Aerospace Test Systems
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Power Supply Test Systems
Hi-Pot Test Systems
ESS / Burn-In / Vibration Monitoring Systems
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Test Fixtures and ITAs
Box Builds and Sub-Assemblies
Switching and I/O Cards
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FineTest 1 Industry Drive, Palm Coast, FL 32137 Tel: (386) 569-6189 Fax: (386) 446-0463 email: sales@finetest.com

Functional ATE & Power Supply Test Systems





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Test Fixtures and Interface Test Adapters (ITAs)

Test Fixtures and Interface Test Adapters are used with FineTest Testers for many diverse applications including the following:

Military and Aerospace Power
Telecom Power
Avionics Functional Test
Design Verification Test
Sub-Assembly and Board Test
Hipot Testing
Test System Self-Test



Self-Test Fixture for Power Supply Tester

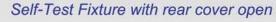




Self-Test Fixture with rear cover closed



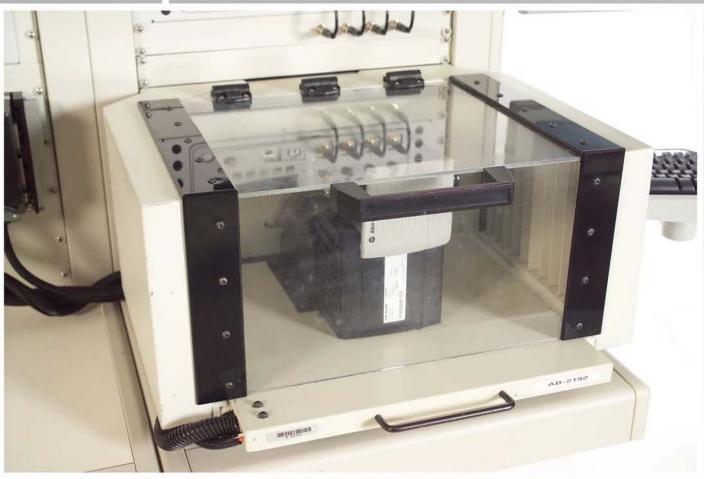
Fixture front with Virginia Panel Connectors







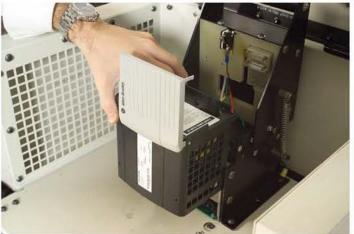
Production Test Fixture with Built-In Thermal Chamber



TEST FIXTURES & ITAS



Test Fixture with cover open

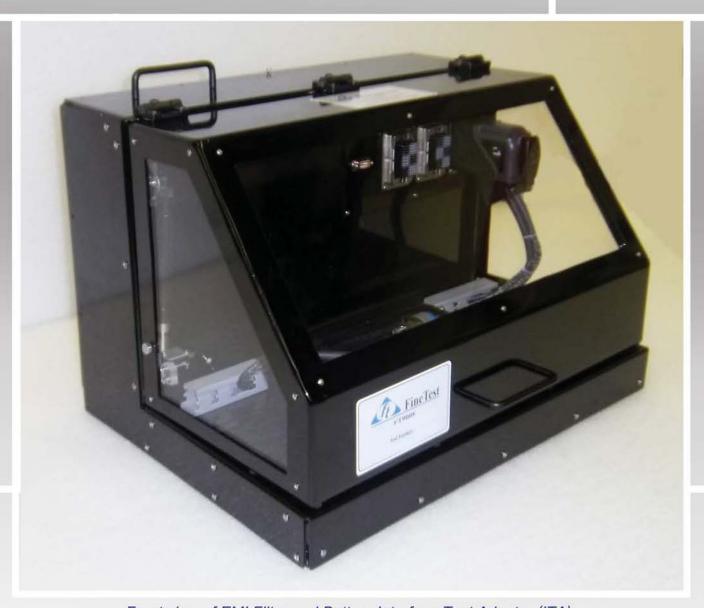


Installing a UUT into the Test Fixture

Test Fixture
with a UUT
Installed



Interface Test Adapter (ITA) for EMI Filter and Battery Test



Front view of EMI Filter and Battery Interface Test Adapter (ITA)



TEST FIXTURES & ITAS

Interface Test Adapter (ITA) for Military Power Supplies



Front View of ITA with Cover Removed allows access to test points

with clips for Scope and DMM Probes

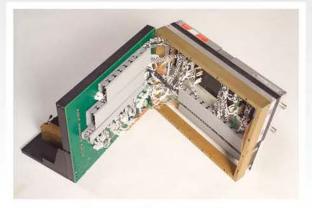
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Front View of Interface Test Adapter

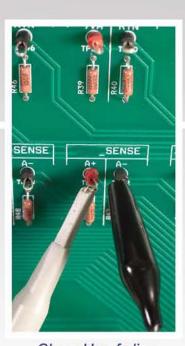


Side View

Rear View



Adapter Opens to allow easy access to wiring

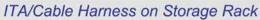


Close-Up of clips for Scope Probes



Interface Test Adapters (ITA) for Military Functional Test







Inside ITA/Cable Harness with Bus Bars



Inside ITA/Cable Harness wiring



Test Cable Harnesses for Military Functional Test



Duplicate Cable Harnesses for Military Functional Test



TEST FIXTURES & ITAS





Front view Roll-Around ATP Fixture

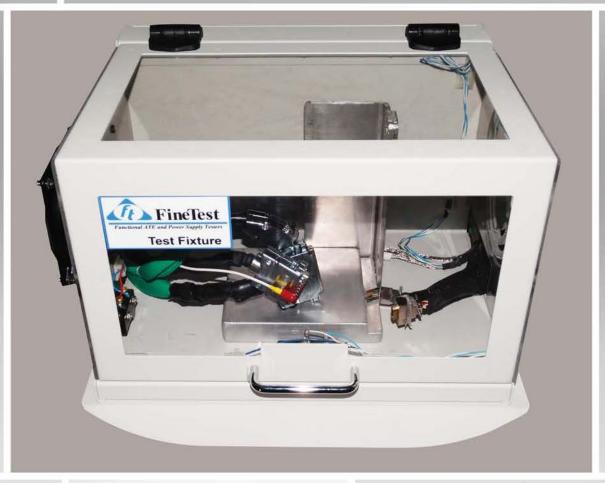
Rear view with Safety Cover Open showing Cable to Connect Fixture to ATE



Pull-Out shelf for easy access to parts



Interface Test Adapter for Avionics Functional Test



TEST FIXTURES & ITAS



ITA mounted on height adjustable arm

Front view of
Interface Test Adapter
with safety cover and
built in heat sink







Front view Roll-Around ATP Fixture

ATP Fixture with Safety Door Open



Cable to Connect Fixture to ATE







Pull-out Interface Unit for easy Maintenance, and Service

Interface Unit with Top Removed showing

Differential and Current Probes,

Resistive Loads, Relays etc.



Close-up of the Fixture Top showing

Mating Connectors, Gas Springs, and

Top plate as a Heat-Sink



Safety Cover MicroSwitch and Latch



Production Test Fixture for **Telecom Controller Board**



Fixture & Tester

TEST FIXTURES & ITAS





Close-Up Test Fixture with a UUT

Cabinet Test Fixture for Telecom Power Supplies



Tester & Cabinet Test Fixture with multiple slots per shelf



Fixture with Safety Door Closed



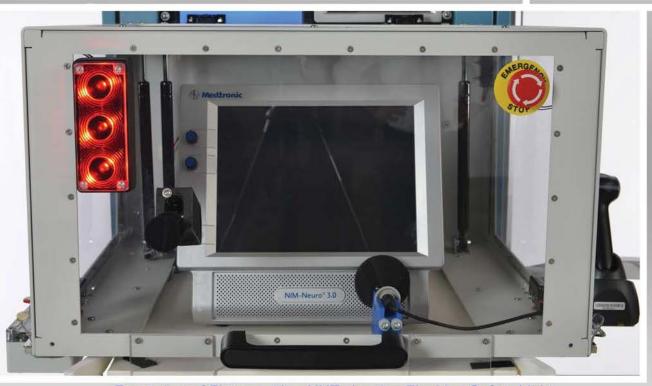
Fixture with added HV Loads and Scope



Installing a UUT



Roll-In Cart Test Fixture for Medical Device Testing



Front view of Fixture with a UUT showing Flashing Safety Light, Emergency On/Off, and Sound Pressure Measurment Microphone









Rolling-In a UUT with a Cart

Production Test Fixture for Battery Chargers



Close-Up of Fixture with a UUT



Tester & Test Fixture



TEST FIXTURES & ITAS

Motorized Test Fixture for Inverters and Battery Chargers



Front view of System with Inverter Test Fixture and a UUT



Side Angle View
of Inverter Test Fixture
showing safety cover doors
and Ball Transfer Table
for direct integration into the
Production Line









Adapter Palte to connect to UUT

using Pogo-Pins, LED sensors & Bus Bars

Bus Bars and large PCB Pads for Test Fixture Pogo-Pins

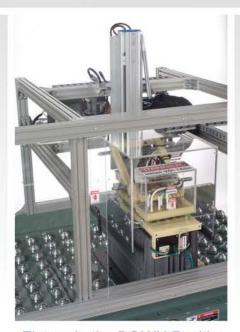


Fixture in the UP Position





Fixture Top Pogo-Pins



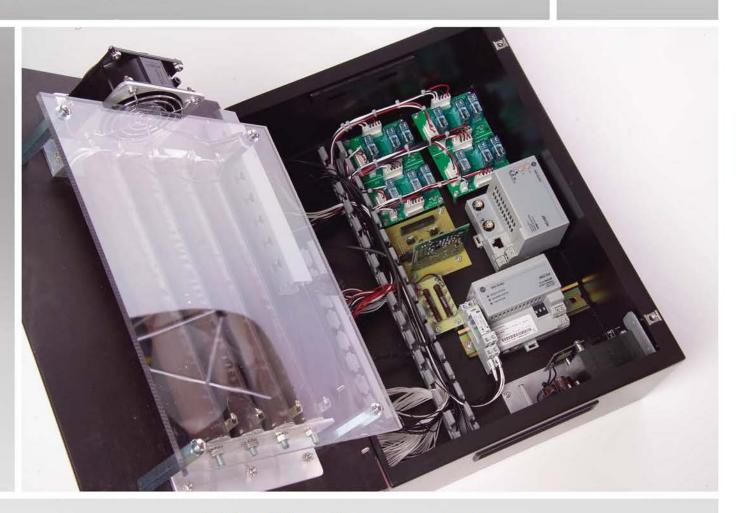
Fixture in the DOWN Position connected to a UUT



Close-Up of High Current Pogo-Pins making contact with the Adapter Plate and UUT



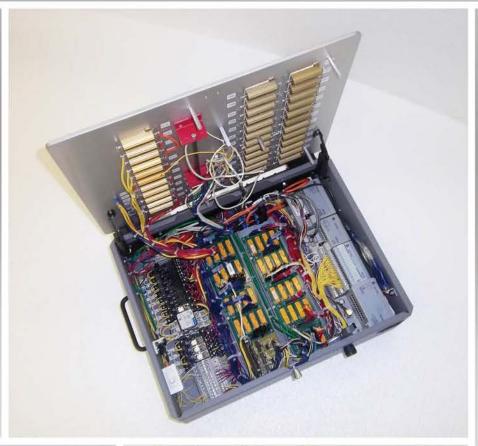
Self-Test Fixture for Functional ATE

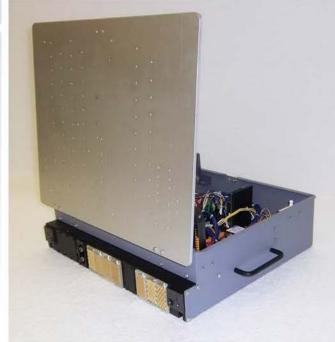


Self-Test Fixture with cover open showing: Resistor Loads, Relay and Digital IO Controls, Ethernet and USB Test Devices



Build to Print Test Fixture for System Self-Test





Gen-Rad Connector Side with Cover Open



Fixture Front with cover closed



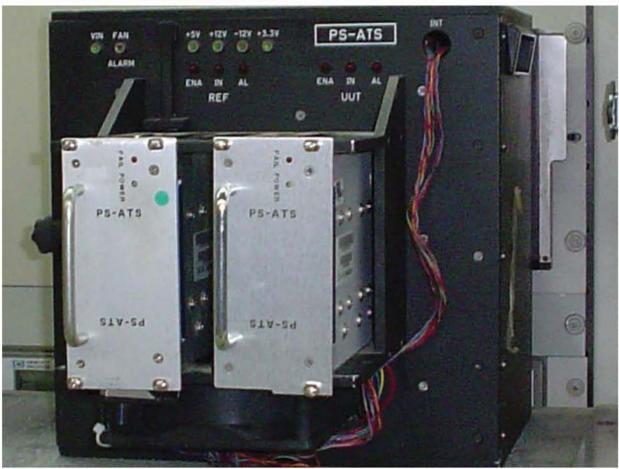
TEST FIXTURES & ITAS

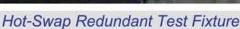




Front view of Tester with Test Fixture

Hot-Swap Test Fixtue for Redundant Telecom Power







2nd Hot-Swap Fixture



Tester with Fixture on the Production Floor

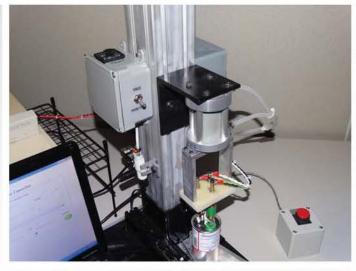


TEST FIXTURES & ITAS

Vertical Cylinder Fixture for Capacitor Production Test



Front view of System with Label Printer, Computer, LCR Meter and vertical Air Cylinder to connect to UUT



Close-Up Vertical Air Cylinder to connect to UUT





Close-Up connect to UUT

Production Test Fixture for Telecom Power Supplies







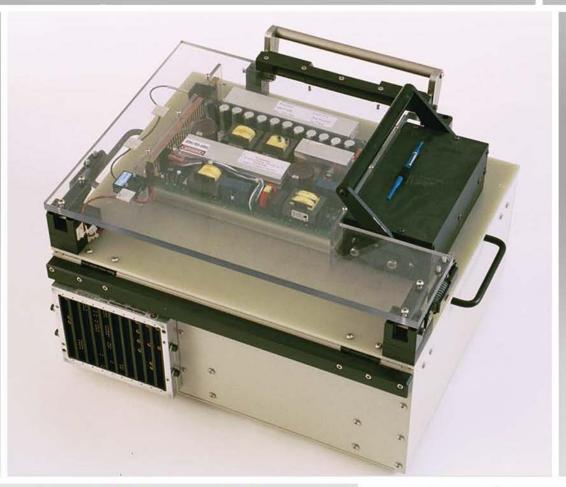
Tester with Test Fixture and UUT

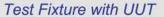


Test Fixture with safety cover open

Close-Up of Test Fixture with a UUT Installed







Application: High Volume Production Test

Features: Mechanical arm to plug in UUT

Optical Sensor to verify

LED On/Off and Color

Locking Safety Cover

Large base with room for

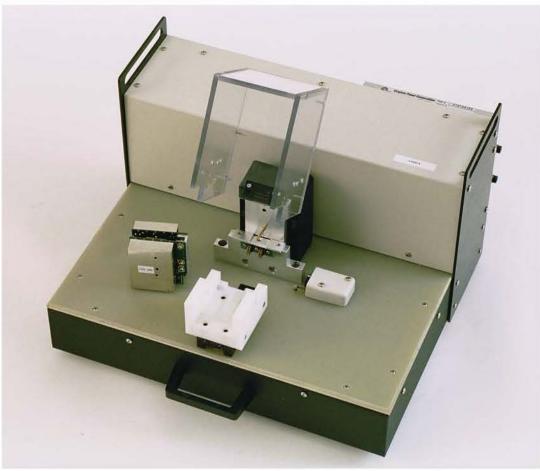
Relays, PCBs etc.



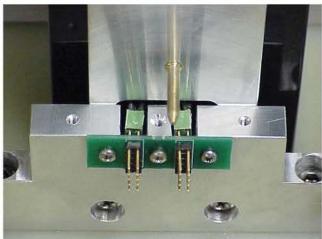


Test Fixture with Safety Cover Open

Production Test Fixture for Telecom Power Supplies



TEST FIXTURES & ITAS



Close-Up of UUT Mating Connectors
and Guide Pin

Front view of Test Fixture with UUT

Application: High Volume Production Test

Features: Sliding plug for UUT

UUT Mating Guide Pin

Safety Cover



Production Test Fixtures for Mainframe DC-DC





Rear view of DCA Test Fixture

Front view with front panel removed



Side view with UUT



Front view with UUT



Multipl,e Test Fixtures on the Production Floor

Application: High Volume Production Test

Features: PCB to UUT Mating Connector

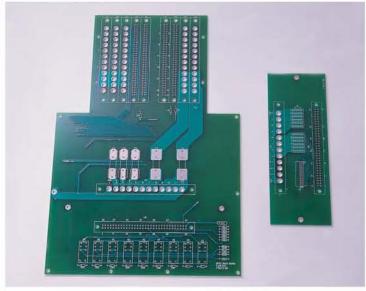
Output Capacitor Bank with Low ESR



Production Test Fixture for Bulk Power Regulators



TEST FIXTURES & ITAS



PCBs used in Test Fixture

Test Fixture with UUT on Production Floor

Application: Production Test

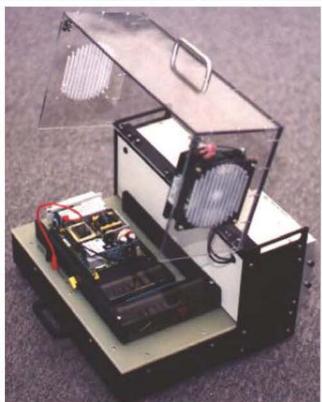
Features: PCB to UUT Test Fixture

Roll-In Cart to Tester



FineTest Test Fixture Kit for Open-Frame Power Supplies





FineTest Test Fixture Kit with UUT

Test Fixture with Test Probes to Test Points inside UUT

Application: High Volume Production Test

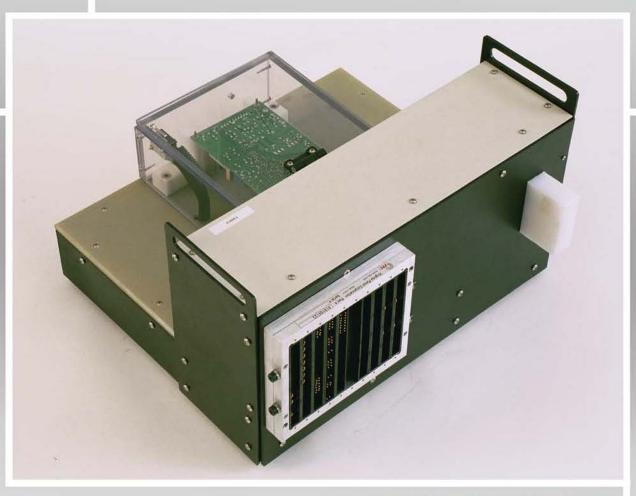
Features: FineTest Test Fixture Kit with:

Safety Cover and Cooling Fan

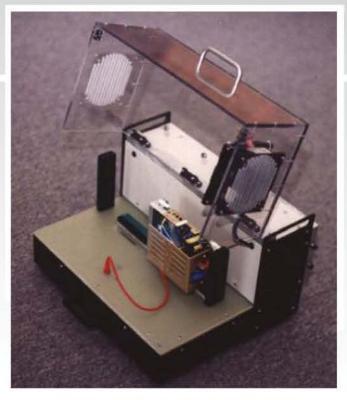
Custom milled rails to hold UUT and Mating Connector

Test Probes for Test Points inside UUT





FineTest Test Fixture Kit with UUT



FineTest Test Fixture Kit with UUT



Production Test Fixtures for Telecom Power Supplies



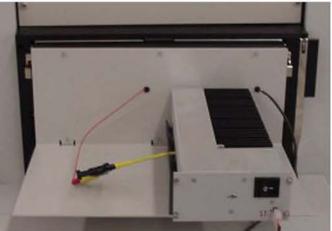


Test Fixture with a Fan to test UUT Fan Output

Test Fixture with UUT



Side view of a Test Fixture



Front view of a Test Fixture with Test Probe

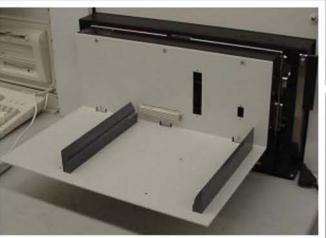
Application: High Volume Production Test

Features: Easy UUT Plug In Test Fixtures



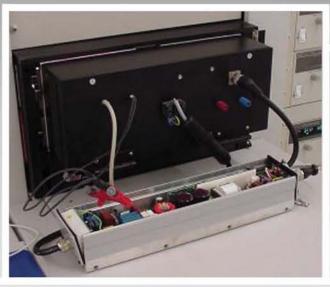
Pogo-Pin Test Fixtures for Boards





Plug-In Test Fixture

Plug-In Test Fixture





Test Probes inside UUT

Card Cage Test Fixture



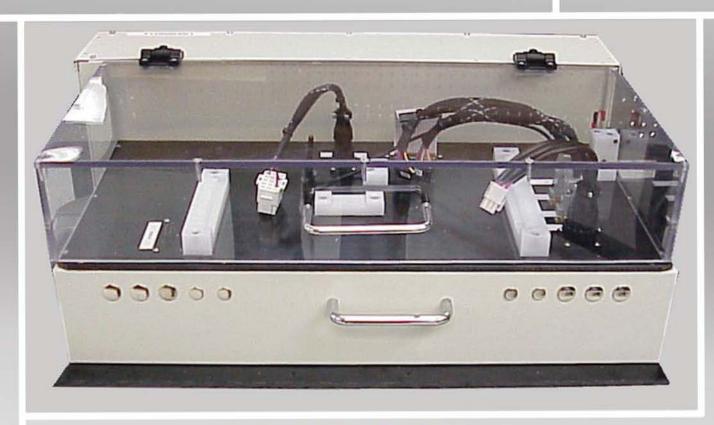
Side view Pogo-Pin Board Test Fixture



Front view Pogo-Pin Board Test Fixture



Sub-Assembly Boards Test Fixture



Sub-Assembly Board Test Fixture

Application: Sub-Assembly Board Test

Features: Plug-In Cables to UUT

Multiple Board Types

on same Test Fixture

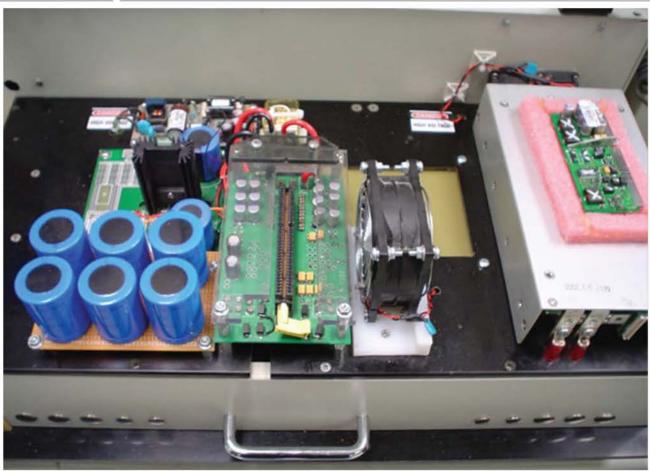


Test Fixture with Safety Cover Open



S

Production Test Fixture for Voltage Regulator Modules



TEST FIXTURES & ITAS



Test Fixture with Safety Cover Closed

Top view of Test Fixture with Safety Cover Open

Application: Voltage Regulator Modules

High Volume Production Test

Features: Custom High Slew Rate Load

built into Test Fixture

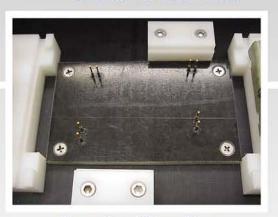
Cinch Connector to Hold UUT



Pogo-Pin Test Fixture for Sub-Assembly Board Test



Side view of Test Fixture



Close-Up of Pogo-Pins



Front view of Test Fixture

Application: High Volume Production Test

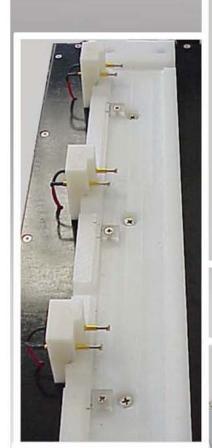
Features: Pogo-Pin connection to UUT

External Banana Jacks for Manual Test Points

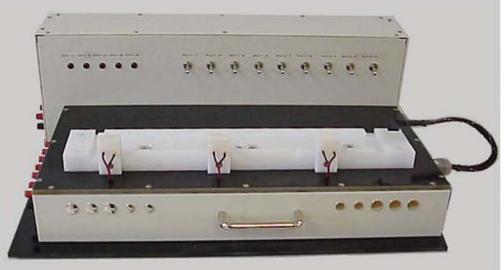
Operator switches to control UUT



Pogo-Pin Board Test Fixture



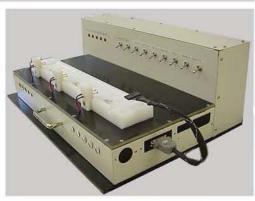
Close-Up of Pogo-Pins



Front view of Test Fixture



Left side view of Test Fixture



Right side view of Test Fixture

Application: High Volume Production Test

Features: Pogo-Pin connection to UUT

External Banana Jacks for Manual Test Points

Operator switches to control UUT

UUT Status LEDs



Production Test Fixture for Medical Power Supplies



Front view of Test Fixture



Test Fixture with a UUT



Rear view of Test Fixture

Application: Medical Power Supplies

High Volume Production Test



Features:

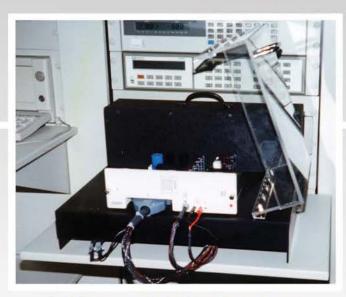
Plug-In Cables to UUT

TEST FIXTURES & ITAS

Production Test Fixture for Telecom DC/DC Converter



Side view of Test Fixture with a UUT



Test Fixture with Safety Cover Open



Features: Plug-In cables to UUT

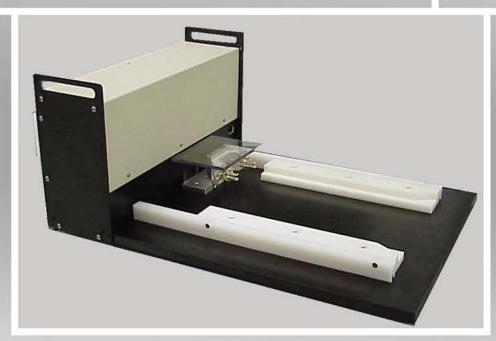
Safety Cover with access to POTs



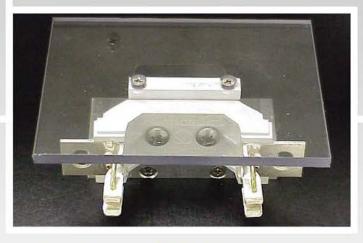
Test Fixture on ATE



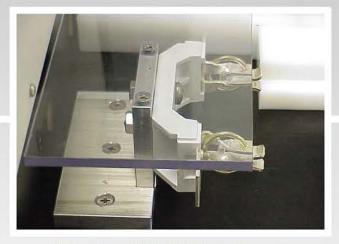
Production Test Fixture for Telecom Power Supply



Front view of Test Fixture



Front close-up of UUT Mating Connector



Side view of UUT Mating Connector

Application: Telecom Power Supplies

High Volume Production Test

Features: Integrated UUT Mating Connector Clips

Custom milled rails for long power supply



Production Test Fixture for Telecom Power



TEST FIXTURES & ITAS



Close-Up of Test Fixture without UUT

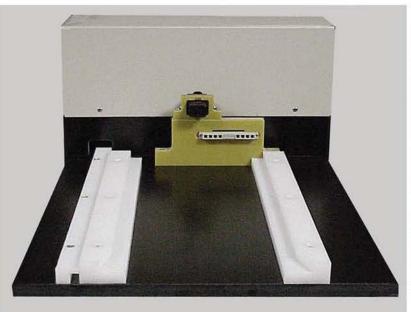
Test Fixture with UUT

Application: High Volume Production Test

Features: Pogo-Pin connection to UUT
Front access for POT Adjust



Production Test Fixture for Telecom 3kW Power Supply





Close-Up of UUT Mating Connectors

Front view of Test Fixture



Side view of Test Fixture and UUT

Front view Test Fixture and UUT

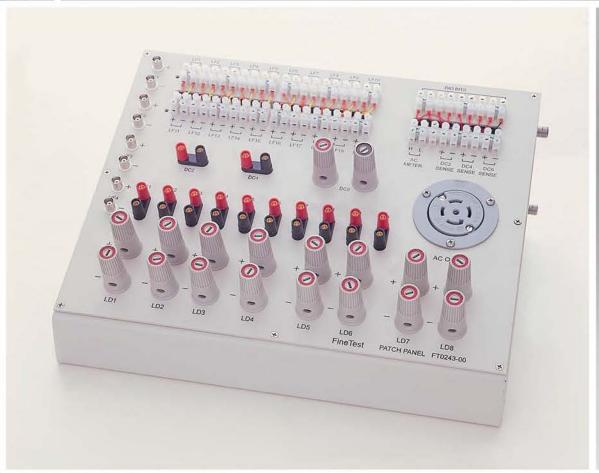
Application: High Volume Production Test

Features: Slide-In to UUT Mating Connectors

Custom milled rails for long power supply



Engineering Quick Connect Virginia Panel Adapter







Engineering Quick Connect Adapter on ATE

Front view Engineering Quick Connect Adapter

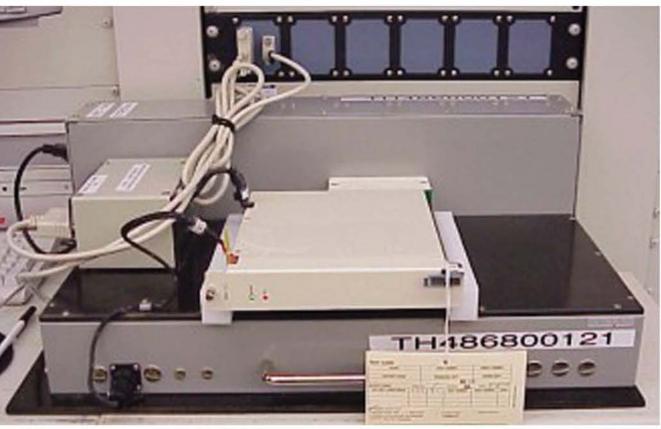
Application: Engineering Lab Testing

Features:

Converts ATE Virginia Panel front panel interface to quick connect Banana Jacks, BNCs, AC Connector, and Agilent Electronic Load Jacks



Production Test Fixture for Telecom Power Modules



Front view of Test Fixture

Application: Production Test

Features: Slide-In UUT

Communications Test

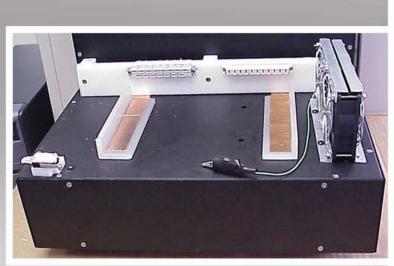
EEPROM Programming



Full front view of Test Fixture and UUT on ATE



Production Test Fixture for Military Power Supplies



Mating Connectors and Grounding Rails



Test Fixture installed on ATE

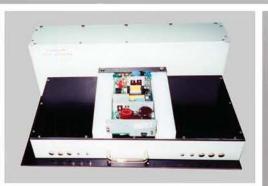
Application: Military Production Test

Features: Slide-In to UUT Mating Connectors

UUT Grounding on Rails



TEST FIXTURES & ITAS



Power Module Test Fixture



Dual UUT Test Fixture



Dual UUT Test Fixture



Plug-In UUT Test Fixture



Cable to UUT Test Fixture





Cable to UUT Test Fixture



Self-Test Fixture with Cover open



Cable to UUT Test Fixture



Plug-In UUT Test Fixture



Cable to UUT Test Fixture



Slide-In Test Fixture



Interface Test Adapters (ITA) for Military Power Supplies





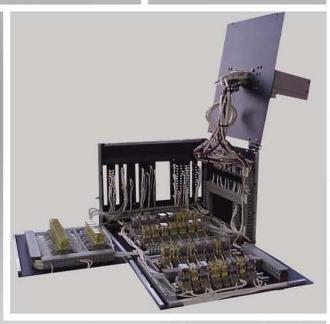
ITA with hookup for Thermal Hood on top where the UUT is plugged in

Tester with ITA installed



ITA with the Top Cover open and front panel removed to show wiring





ITA for multiple output supply with Top Cover and Side Panels open to show wiring and ease of maintenance



Rear view of duplicate ITAs with alternate Thermal Hood hookups



Front view of duplicate ITAs with front panels removed to show wiring

System Self-Test ITA



Self-Test ITA with cover open to show wiring



Front view of Self-Test ITA



Connector side of Self-Test ITA



Production Test Fixtures for Telecom Modular Rectifiers



Front view of Test Fixture



Test Fixture with UUT on Production Floor

Application: Production Test

Features: Rolling Cart and Cable



Rear view Test Fixture on Production Floor



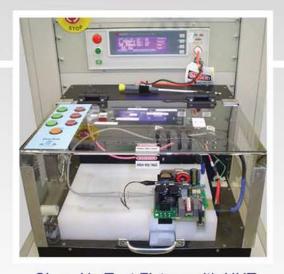
Production Test Fixtures for Medical Power Supplies



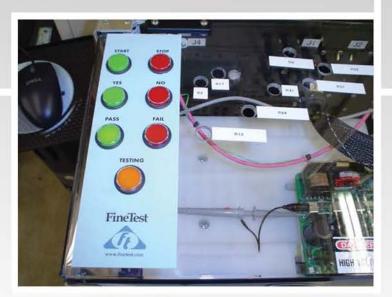
Test Fixture connected to HIPOT



Duplicate Test Fixtures on production floor



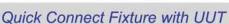
Close-Up Test Fixture with UUT



Close-Up of Test Fixture showing Push Buttons and Indicator Lights for easy Operator Interface









Quick Connect Test Fixture



Quick Connect Fixture on production floor



SMT Board Test Fixture



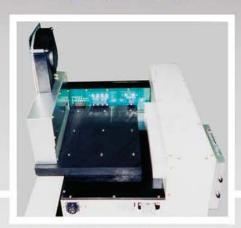
Test Fixture with UUT





Test Fixture on ATE





Side entry PCB Mating Connectors



Fixture with PCB Mating Connectors



Cart and Cable Test Fixture with UUT































FineTest Production Floor

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