Orbis Systems India
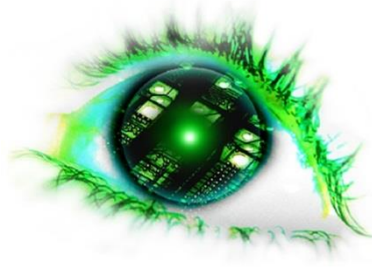
Automotive Sector Project References
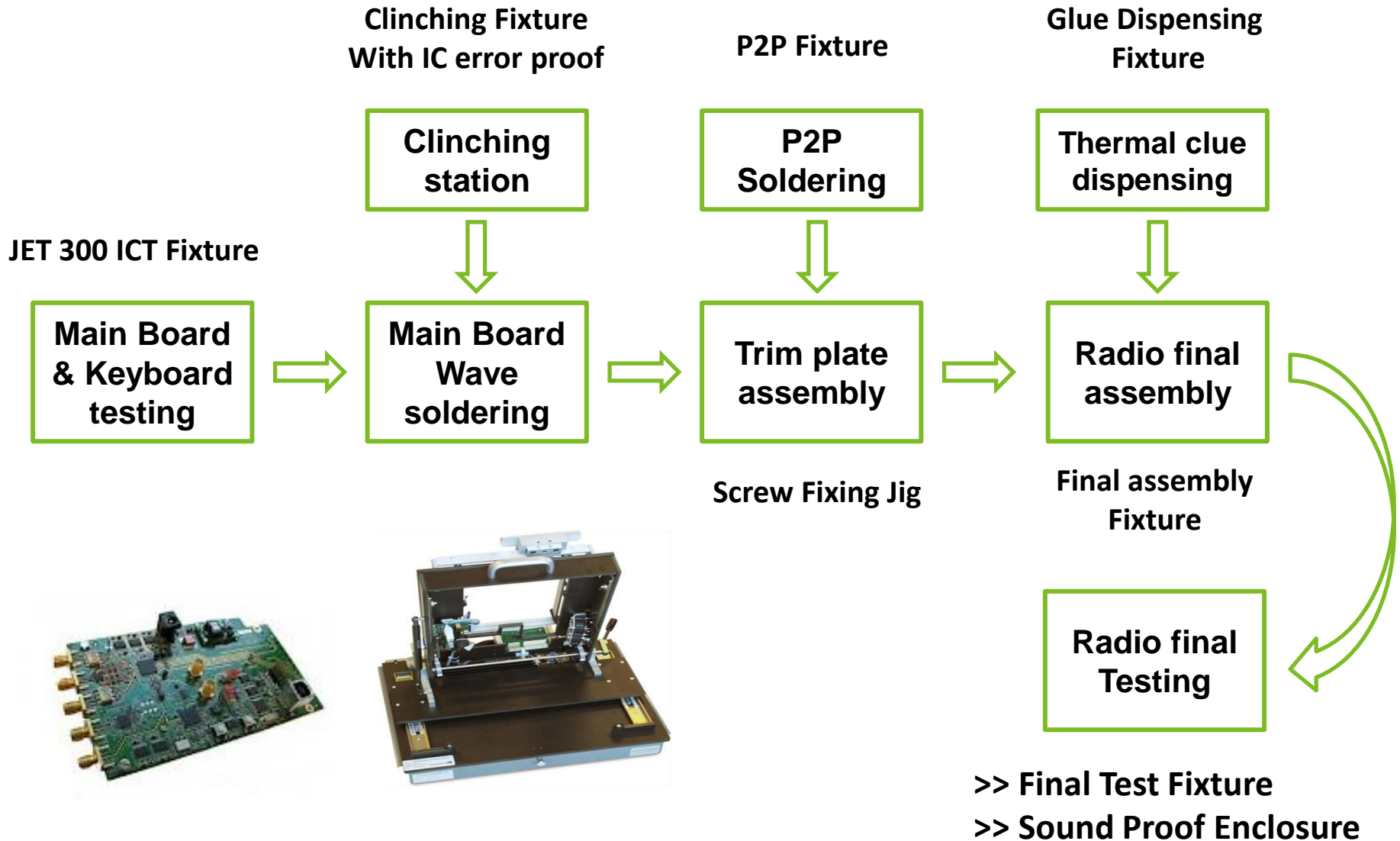
✓ More than 10 years of experience in automated testing in India

✓ India Delivery references since 2005:

- More than 500 quality assurance & functional device testers

- More than 500 flashing test systems delivered

- More than 500 fixtures & adaptors

- More than 100 thousand km of cable assemblies

Complete Assembly Line Support

orbis/systems

**Clinching Fixture
With IC error proof**

P2P Fixture

**Glue Dispensing
Fixture**

JET 300 ICT Fixture

Clinching station	P2P Soldering	Thermal clue dispensing

Main Board & Keyboard testing	→	Main Board Wave soldering	→	Trim plate assembly	→	Radio final assembly

Screw Fixing Jig

Final assembly Fixture

Radio final Testing

>> **Final Test Fixture**
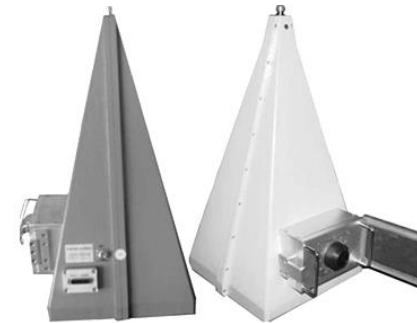>> **Sound Proof Enclosure**

orbis/systems

✓ Mass Interconnect Solution

- Inspection of wrong assemblies

- Custom designed gauges

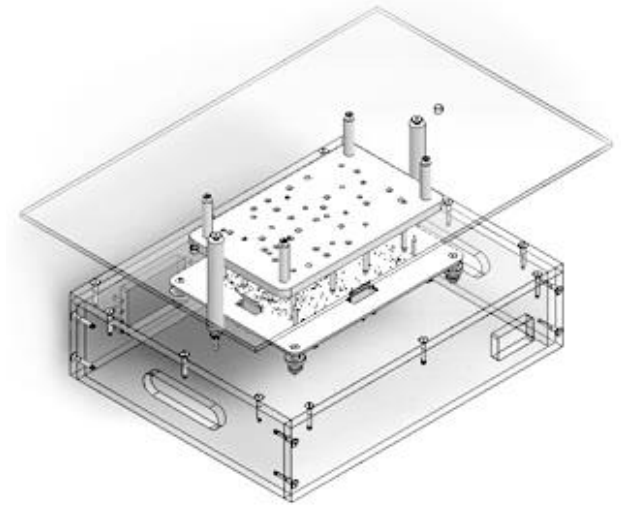- Precise mechanics for testing reliability

✓ RF Test Set

- Functional / Performance test for radiation and susceptibility

- Broadband TEM Cell up to 3 GHz

- High shielding: >80dB at 2GHz and 70dB at 3GHz
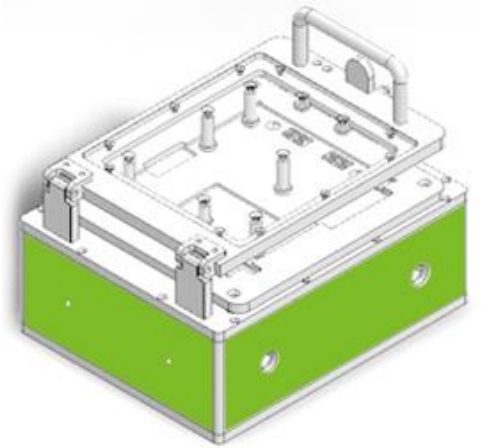
WE CALL IT KNOWLEDGE

✓ Features:

- ICT Fixture for JET-300 machine
- Fixture to test the SMD components for dry soldering and faulty components
- 512 Test Points
- Counter for measuring test cycles
- Cost effective design

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✓ Pneumatically operated fixture for heat sink bracket clinching

- In-built IC error proof checking logic
- Clinching is operated only if the correct IC's are placed
- Wrong IC's are identified with LED indications

✓ Applications & Benefits

- Placement of correct IC's is checked before Clinching
- Reduces rework time

orbis/systems

✓ Features

- Concepts supports test automation
- Upgrades to support assembly verification

✓ Other

- Radio System: FT - Base & Mother fixture
- Pallets for Wave Soldering

✓ Features

- Assembly automation jigs & fixtures
- Manual, Semi-Automatic & Fully Automatic types
- Pneumatic, Electro magnetic
- Assembly verification
- Conveyors – Shuttle, Full-line

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- ✓ ATE / Testers:
  - Fuse Box Inspection
  - Instrument Cluster Inspection
  - RF tester: Remote Keyless Entry
  - Audio tester: AM/FM, Bluetooth's Audio Functions
  - Audio – Main board: ICT Tester/ Fixture
  - Immobilizer tester / fixture
  - EOL - Functional / Visual Inspection tester

- ✓ Assembly automation:
  - Heat Control Switch (Seats) – Assembly Stage 1 & 2
  - Radio housing / PCB Assembly
- ✓ Other
  - Customized Connector with Housing for Cable Harness