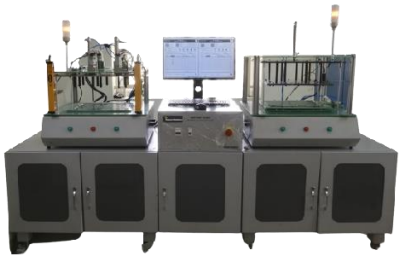
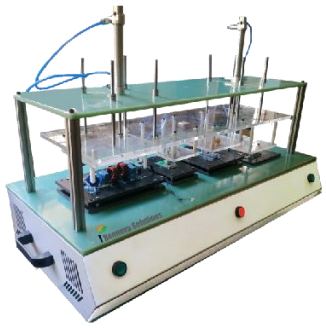
RENNOVA INCIRCUIT TESTERS AND FIXTURES

In-circuit testers and fixtures are essential tools used in the electronics manufacturing industry to test and verify the functionality of printed circuit boards (PCBs) and electronic components. They are employed during the production process to ensure the quality and reliability of the assembled PCBs.

In-Circuit Testers (ICTs): In-circuit testers are specialized automated test systems that assess the electrical performance of individual components and circuitry on a PCB. They use a combination of test probes, test points, and signal measurement techniques to detect faults such as open circuits, short circuits, incorrect component values, and manufacturing defects. In-circuit testers typically operate by applying test signals to specific nodes on the PCB and comparing the measured responses to expected values. They can quickly identify defects and provide valuable feedback to improve the manufacturing process.





In-Circuit Test Fixtures: In-circuit test fixtures, also known as test beds or test fixtures, are mechanical structures that securely hold the PCB in place during testing. These fixtures provide precise alignment of the test probes with the PCB's test points and facilitate accurate and repeatable measurements. In-circuit test fixtures are custom-designed to match the specific layout and dimensions of the PCB being tested. They may contain spring-loaded or pogo-pin test probes that make contact with the test points on the PCB, enabling the ICT to access and measure various nodes and components.

The combination of in-circuit testers and fixtures allows for high-speed and efficient testing of PCBs in a production environment. The ICTs generate and measure test signals, while the fixtures ensure proper alignment and electrical contact between the PCB and the test probes. This comprehensive testing approach helps identify manufacturing defects, component failures, and design flaws early in the production process, enabling prompt corrective actions and improving overall product quality.

In-circuit testers and fixtures are valuable assets in electronics manufacturing, helping to streamline production, reduce scrap and rework, and enhance the reliability of electronic products. They play a crucial role in ensuring that PCBs and electronic components meet the required specifications, functionality, and performance standards before they are integrated into finished products.

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Specification and Features:

- Capability to fabricate up to 50 mils spring loaded probes
- Bed of Nail method is used for testing the PCBs
- Access the PCBA signals through test pads and solder pads
- Signals are accessed through highly durable spring loaded pins
- Short circuit and continuity testing of PCB traces
- Cost effective fixtures (manual and pneumatic)
- Faster and error free testing
- Historical data store of test results
- Traceability of DUTs, report generation facility, label printing facility,
- FPY analysis options, etc., are provided for productivity analysis

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