



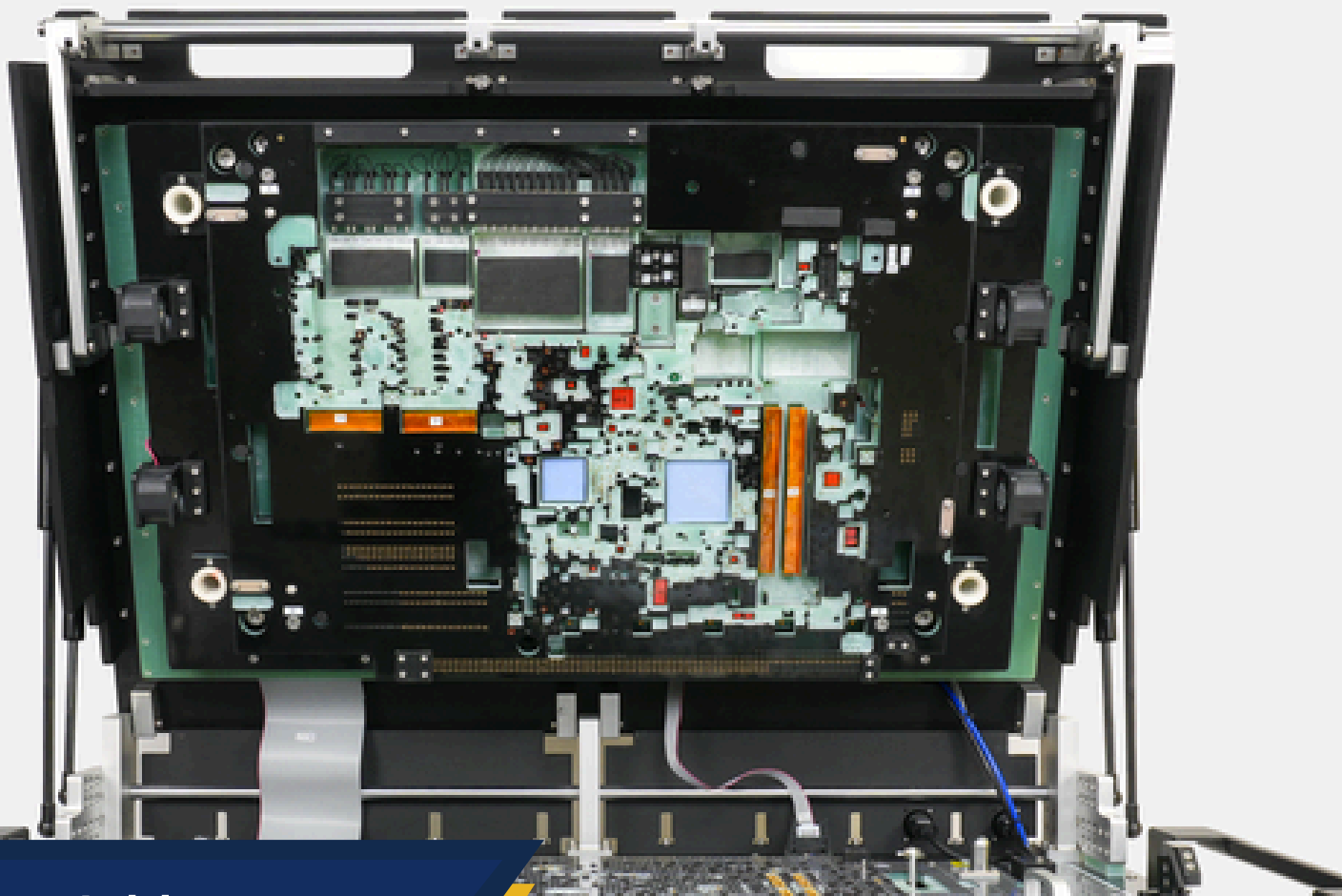
FORWESSUN



TEST FIXTURES, TEST SYSTEMS & TEST SOFTWARE

THE COMPLETE TEST SOLUTION

www.forwessun.net



About Us

Forwessun is a global leader with over 50 years of experience in providing In-Circuit-Test and Functional-Test solutions in the Automated Test Equipment industry.

Our dedicated teams develop software, design test fixtures, and supply turnkey solutions to help manufacturers verify PCB functionality before installation.

Unlike any of our competitors, Forwessun's strength lies in the fact that we provide a **Total Test Solution**; we cover all aspects of testing and support under one roof.



Diverse
Workforce

50+

Years
Experience



All In One
Solutions



Global
Support

40+

Test
Engineers

Locations & Support

Located at The Printworks Liverpool, Forwessun coordinates worldwide operations from our UK base. Our strategic global network includes Manufacturing & support teams in Guadalajara, Shanghai and Oradea. Allowing for responsive, high quality service for our customers across the globe.



INDUSTRIES WE SUPPORT



Computer Networking

Ensuring the reliability and performance of high-speed data and communication systems critical for maintaining seamless network operations.



Medical

Providing precision testing for healthcare devices and equipment, guaranteeing safety and functionality in medical technologies.



Industrial

Supporting efficient and reliable testing for industrial machinery & equipment, enhancing productivity and operational excellence.



Military and Aerospace

Delivering robust & accurate testing for mission-critical components, supporting the high standards required in defence and space applications.



Automotive

Ensuring the quality and durability of automotive systems and electronics, contributing to the safety and efficiency of modern vehicles.



Test Software

Forwessun has an in-house team of skilled test engineers focused on creating custom solutions tailored to your specific testing needs. This ensures exceptional quality control and adaptability for a wide range of applications. Our test software portfolio is designed to meet the most demanding conditions across various industries.

- Serial Communications
- BIST / Functional Test
- Clock Measurement
- JTAG Implementation
- Device Programming
- Dynamic Data Programming
- Analog Functional and Mixed Testing
- Digital Vector Test
- Loopback Testing
- Vectorless Test
- Sensors
- Parallel Programming
- LED Detection
- MDA Testing
- CAN/LIN Bus

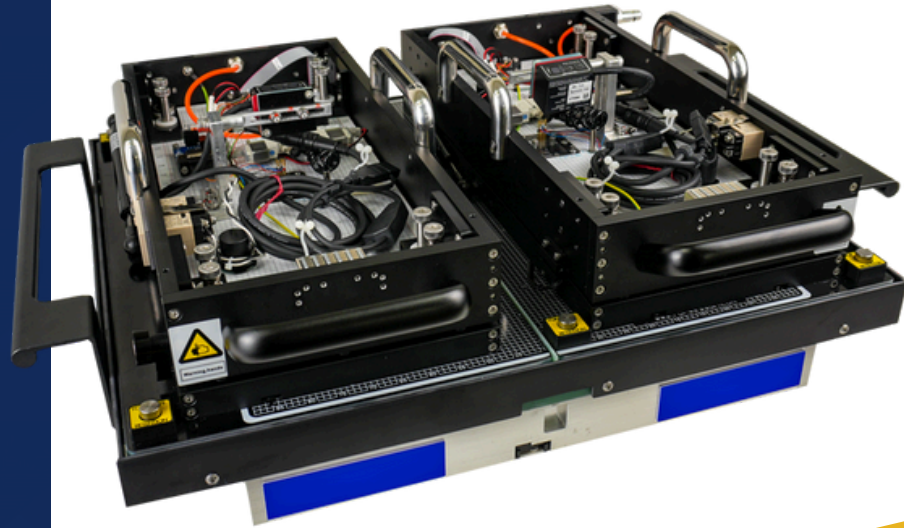


Our global team includes 40+ test engineers with experience ranging from recent graduates to veterans with 40 years in the field. We offer pre-project consultation calls with customers, sales managers, and engineers to develop robust, tailored solutions for your project.

In-Circuit Test Fixtures

We design & manufacture high-precision ICT fixtures across a range of platforms.

Our fixtures are built for accuracy, efficiency, and durability, ensuring reliable PCB testing. We provide ICT fixtures and support across a range of industries including Automotive, Medical and more.

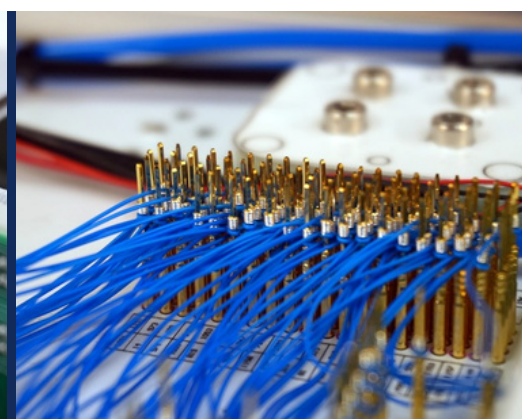
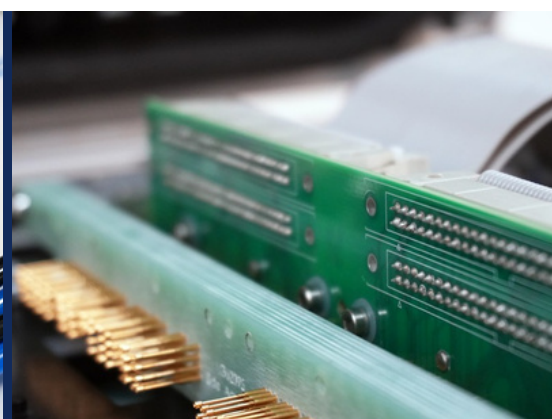
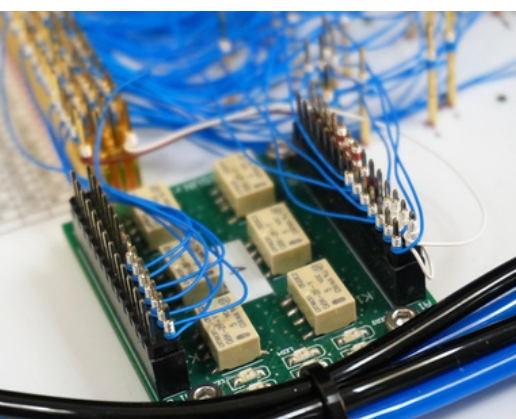


PLATFORMS

- **HP3070**
- **GENRAD**
- **TERADYNE**

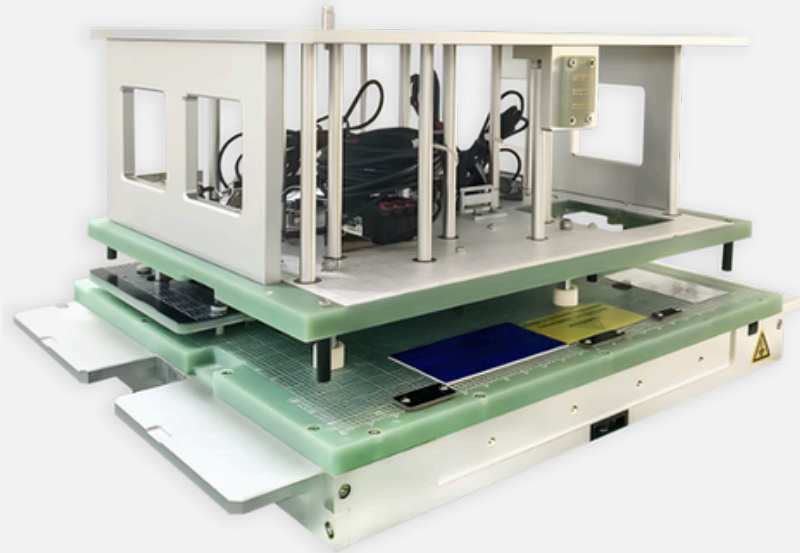
We offer both standard and inline configurations with extensive customisation options, enabling us to deliver the ideal solution for your testing requirements. Our fixtures are precision-engineered to your exact specifications and integrate seamlessly across varying production volumes, testing complexities, and automation needs throughout multiple industries.

- Designed to withstand the demands of modern electronics testing
- Ensures your products achieve the highest quality benchmarks
- Offered in both standard and inline fixture configurations
- Bespoke options tailored to your precise testing requirements
- Service agreements and continuous support available



Fixture Customisations

With our extensive experience, we tailor each fixture to meet the specific testing needs of your Unit Under Test. Our optimised solutions support both inline and standard test fixtures for Keysight, GenRad, and Teradyne platforms.



Standard Test Fixtures

If you need adaptable testing options that support batch testing or in-depth diagnostics outside the production line, our Standard Test Fixtures offer the ideal solution. These fixtures are perfect for smaller-scale testing or when more detailed testing is needed.

Inline Test Fixtures

In high-volume production settings where speed and automation are key, our Inline Test Fixtures provide smooth integration with your production line. They're built to handle fast testing while maintaining high accuracy & reliability.

CUSTOMISATIONS

Board Catching

Dual Well Test Fixtures

ZeroFlex Board Support

Auto Opening Fixtures

Auto Closing Fixtures

Socketless Fixtures

Dual Stage Methods

LED Testing

Probe Guidance

Board Marking

Programming

Vectorless Testing

Automatic Scanning

Alumalift Compatability

UUT Cooling

Relay Cards

Safety Features

Loopback Connectors

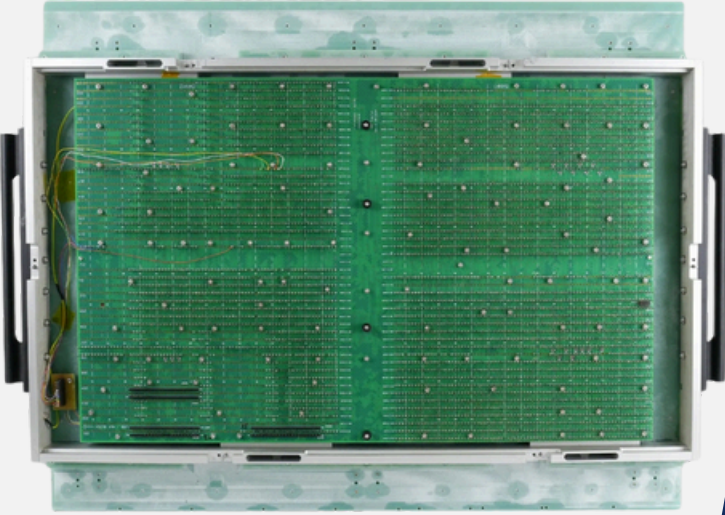
Physical Strain Gauge

Mechanical Detection

Clock Measurement



Wireless Test Fixtures



Forwessun brings extensive expertise in designing and delivering Wireless In-Circuit Test fixtures tailored to diverse industry requirements.

Whilst we specialise in full and half-bank fixtures for Keysight/HP3070 systems, we also provide bespoke wireless solutions for GenRad, Teradyne, and SPEA platforms.

ADVANTAGES OF WIRELESS FIXTURES

Enhanced Signal Quality

Cleaner signals & reduced strain improve test speed, reliability and reduces damage to probes.

Design and Assembly

Neater internal layouts simplify the integration of custom electronics and reduce assembly time.

Better Test Accuracy

Reduced ground bounce improves the performance of digital tests.

Stability

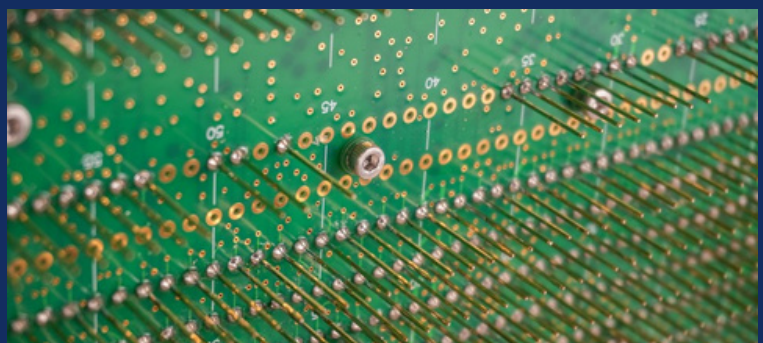
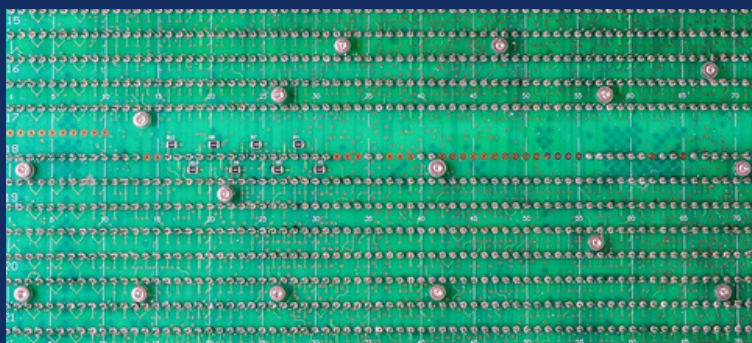
The design enables two-wire probe connections instead of one, delivering enhanced stability and accuracy in testing.

Efficient Resource Use

Wireless designs eliminate resource blocking, enabling higher node counts and larger units on compact fixtures.

Cost & Time Efficiency

Duplicate fixtures are easily produced, ensuring consistent performance whilst reducing costs.



Functional Test Fixtures

We design and manufacture customised Functional Test Fixtures to ensure your PCBAs perform as expected.

Our fixtures help identify issues not covered by ICT such as system-level failures. With expertise in both hardware and software, we offer tailored solutions and fully integrated systems for your production line.

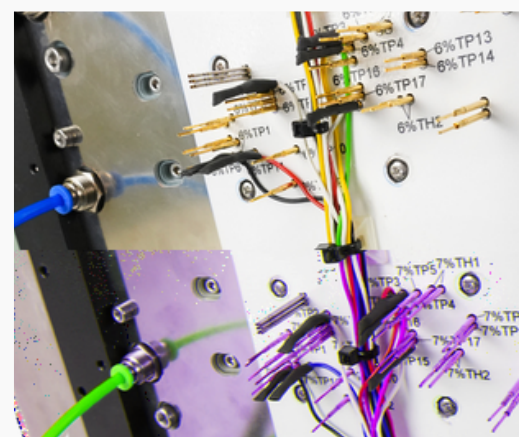
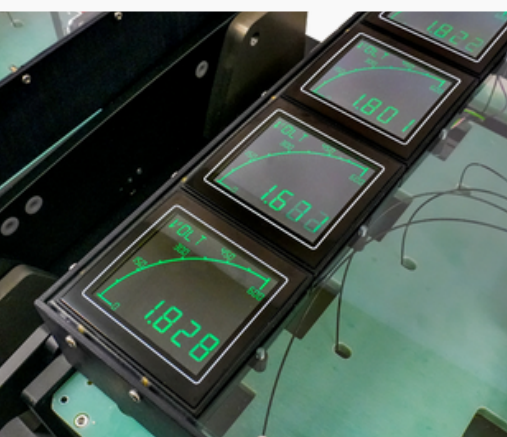


SOLUTIONS

We offer a range of Functional Test Fixture solutions, backed by robust service contracts. With extensive experience, we deliver fixtures that exceed industry expectations. Some of the solutions we offer include:

- Ingun Customisation
- RF Test Fixtures
- Connector Testing
- Flash Programming
- Programming jigs
- Hipot Testing

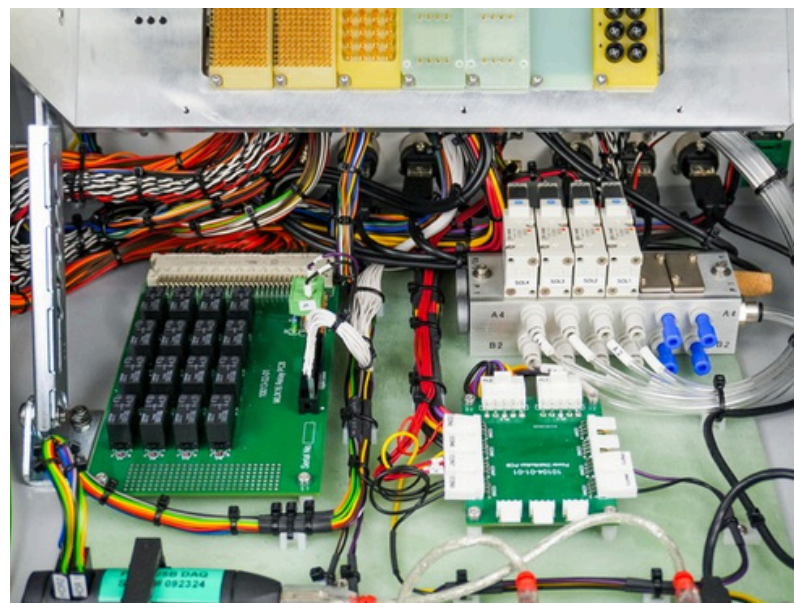
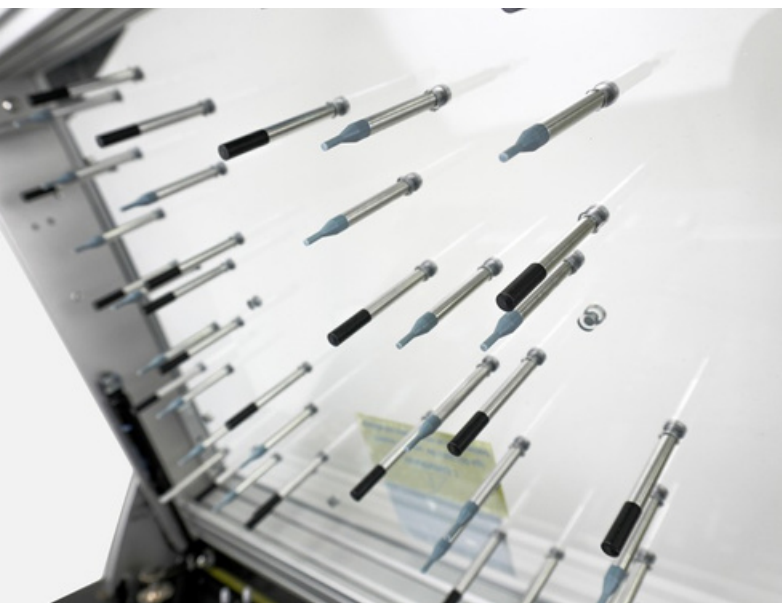
Forwessun excels in developing Custom Functional Test Fixtures, which are vital for validating the performance and functionality of your electronic assemblies. Our fixtures are designed to be flexible, offering configurations that meet the specific challenges of your testing needs.





Customisation of the Ingun Kit

Forwessun combines its expertise with Ingun's high-quality Test Fixture equipment to provide versatile test fixture solutions that meet the unique demands of various industries. Our customisable Ingun Kits are ideal for creating tailored, modular setups that streamline testing processes and improve accuracy.



Interchangeable kits

INGUN's interchangeable kits, provided by Forwessun, offer robust and modular solutions for mass testing. These kits support single or dual-stage testing with high durability and adaptability to various inline systems.

Manual test fixtures

We provide manual test fixtures from INGUN, designed to meet a variety of testing needs. These solutions offer flexibility in size, force, and service life, ensuring precision and reliability for diverse applications.



Test System Services

At Forwessun, we proudly offer worldwide services and support for a broad range of In-Circuit Test Systems, including HP3070, GenRad, Teradyne, and more. Our rigorously tested, refurbished systems are available at a fraction of the original cost, providing both long-term solutions to enhance your testing capabilities and temporary options to boost productivity.

Refurbished Systems



Our systems offer like-new performance at a fraction of the cost, providing a reliable and cost-effective solution.

System Rentals



Need a temporary solution? Rent systems for short-term projects or to meet fluctuating demand with ease.

System Repairs



Trust Forwessun for expert repair services ensuring minimal downtime and maximum efficiency.

Service Contracts



Comprehensive service contracts for your systems with regular maintenance & support, ensuring long-term reliability

System Calibrations



Keep your systems accurate & compliant with precise calibration performed on site by our experienced technicians.

System Parts



We supply a wide range of parts to ensure optimal performance and longevity.



GET IN TOUCH

With over 50 years of experience in the test industry and a proven track record of supporting diverse industries, Forwessun is backed by a remarkable global team. Our skilled professionals across Programming, Engineering, Management, Sales, and Support bring a wealth of expertise and innovation to every project. You can rely on Forwessun for exceptional service and support wherever you are. Get in touch today to see how we can support you – we look forward to hearing from you!

Connect With US!



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