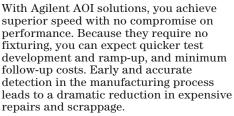# Cut costs. Build profits. Compete to win.

It's what we help the world's electronics manufacturers do every day.

Shrinking components. Shorter lifecycles. Pricing pressures. Intense competition. Agilent PCB Test and Inspection solutions are designed to address the industry's toughest challenges. They can help you lower costs today and control them well into the future, so you can protect your margins and compete to win in a volatile market. Agilent enables electronics manufacturers worldwide to produce high quality products quickly and cost-effectively.

Automated Optical Inspection—Agilent SP50 and Agilent SJ50

Our AOI systems give you exactly what you need today and the ability to meet changing needs in the future. The Agilent SP50 is a solder paste measurement system with 100% 2D and 3D capability enabled by laser technology. The optical-based Agilent SJ50 uses breakthrough solid-shape modeling— an industry first—to measure and characterize components and solder joints with lifelike 3D visualization. Together, they constitute the most scalable, versatile, and flexible AOI platform available. The Agilent SJ50 Series II and SP50 share a unified platform that allows the systems to switch functions quickly, providing industry-leading flexibility for in-line AOI. The 3D paste inspection system can be turned into a pre- or post-reflow system, and vice versa, by simply swapping the interchangeable lighting head.

Agilent SJ50 Series II Automated Optical Inspection System

With Agilent AOI solutions, you achieve superior speed with no compromise on performance. Because they require no fixturing, you can expect quicker test development and ramp-up, and minimum follow-up costs. Early and accurate detection in the manufacturing process leads to a dramatic reduction in expensive repairs and scrappage.

3D X-Ray Test—Agilent 5DX

The 5DX is designed to protect your margins in manufacturing environments where board complexity is a driving factor and fault tolerance is narrow.Our patented 3D X-ray test technology, incorporating cost-cutting advancements such as 3D X-ray Laminography, leads the industry in fault coverage and reveals defect information earlier in the process. This kind of detection guarantees the highest degree of end-product quality and reliability possible.
The 5DX Series 5000XL is a superset and a member of the 5DX Series 5000 family. The big difference is that the 5DX Series 5000XL tests standard sized boards as well as extra-large boards -- larger, thicker, heavier boards with taller components. Board size dimensions can go up to 609mm x 1016mm x 6.35 mm weighing up to 18kg.

Agilent 5DX 5000 Automated X-ray Inspection System

The Agilent 5DX features automated program development, faster prototyping, and shorter time-to-market. With the 5DX there are no fixtures ever. The result is fewer failures and repairs, an increase in shipping speed and downstream yields, and lower warranty and scrap costs. It's no wonder the 5DX is a popular automated in-line X-ray solution with leading OEMs and CEMs worldwide.

In-Circuit Test—Agilent 3070

The most scalable, versatile, and transportable ICT platform on the market, the Agilent 3070 testers are exceptionally easy to reconfigure, so you can adapt them to a wide range of needs without having to buy new equipment. The 3070 provides industry-leading test stability, repeatability, transportability defect coverage, and throughput with the benefit of state-of-the-art hardware design, Monte Carlo simulation, No-Wire Fixturing technology, Vectorless Test EP, boundary scan solutions, and other limited-access tools.
Vectorless Test EP is Agilent's latest innovation for the 3070 in-circuit test series. Building on the strength of TestJet, Vectorless Test EP will provide up to 50% improvement on unpowered test coverage for BGAs, micro-BGAs and SMT connectors. In addition, the test debug process for Vectorless EP is fully automated, potentially saving hours of test development time per board. No-Wire Fixturing technology is another recent innovation that replaces wired fixtures with a No-Wire PCB for improved test performance, coverage, lead times, reliability and cost.

Agilent 3070 Board Test System

Low-price alternatives are now available for expanded platform offerings, including remarketed systems and our unique pay-per-use financing program. The 3070 also helps you accelerate time-to-market with such features as In-System Programming (ISP) software and ScanWorks. ScanWorks allows you to leverage boundary-scan tests from the design phase into the ICT test development process.

Agilent Intelligent Test Software Solutions

Agilent Intelligent Test Software Solutions provide end-to-end integration and real-time data across all Agilent test and inspection platforms, from the CAD translation phase to the repair loop. The Intelligent Test Framework helps you identify and repair not just product defects but also process problems. The Agilent Quality Tool is a data-analysis tool which uses Agilent SJ family measurement data to quickly identify process and quality issues on boards. The Agilent Repair Tool (ART) provides a common, easy-to-use interface that enables higher throughput, yields, and flexibility in your repair processes. Agilent OmniNET enables earlier involvement of test engineering in the design process, prioritizing test access for faster board layout and higher test coverage. And Agilent AwareTest xi helps programmers automatically reduce the number of nets required for ICT test pads, saving weeks of development time in the PCB layout phase.

Accelerate Your Success through Agilent Services and Support

Agilent Technologies understands the mounting challenges facing PCB manufacturers and designers and has the specialized test expertise and global services and support you need to keep your operations on track. Count on Agilent to contribute the real world expertise, flexible training, service and uptime

Agilent Leads the Way in Board Test and Inspection

Keeping pace with the rapid growth and demanding standards within the electronic manufacturing services industry is a challenge that can be met with Agilent's family of Intelligent Test systems and software solutions. EMS providers will reap the benefits of increased flexibility, improved asset utilization and management, superior capital deployment, rapid re-deployment and reduced ramp-up and time-to-production costs. No matter what the requirements, Agilent delivers world-class test and inspection systems that add value to the bottom line.

Agilent Technologies