SOLUTIONS FOR SEMICONDUCTOR TESTING

TESTING INNOVATION
Reduced Cost of Test. A massively parallel, system level test approach helps you reduce your cost of test (COT) dramatically.

Innovative Test Solutions. Our “engineer to engineer” design and manufacturing philosophy ensures smart, custom test systems that exceed your testing requirements.

Shortened Time to Volume. Rapid test development and deployment get you up and producing, fast.

Flexibility & Scalability. Configurable systems accommodate the device under test (DUT) and your test objectives, while manufacturing and “copy-exact” methodologies support global scaling.

Innovative Test Solutions Deliver Smarter, Faster Semiconductor Testing

More semiconductors powering more devices. Faster production ramps. Multiple test insertions. Improving yields for a reduced cost of test (COT). Astronics Test Systems excels at solving these test challenges and more with test strategies, custom systems integration, and automatic test equipment for high-volume manufacturing testing.

Astronics Test Systems brings a rich heritage of proven test expertise to the semiconductor industry, where the market leaders we serve trust us with their capacity. With the mission of finding defects, we have cumulatively tested more than 5 billion devices over the past 15 years. There is a very good chance that your laptop, tablet, or current mobile device contains semiconductor ICs screened by Astronics Test Systems.
A Complete Range of Technical Capabilities Solves Your Toughest Challenges

Reduce your number of test insertions and speed up your hourly throughput exponentially with test solutions from Astronics. Our cost-effective production test systems deliver your product to market in record time. In a snapshot, here's how our technical approach fuels your success:

- **A strong heritage of custom systems integration.** We offer proven tools and processes to design and build your system to your specifications.

- **Expert system level test.** As the pioneering leader, we find emerging defects with integrated test systems that emulate real-world applications. Testing at the system level can cut your number of individual test insertions.

- **Industry-leading, massively parallel approach.** Systems can test hundreds of DUTs simultaneously to reduce the relentless pressure for the lowest COT.

- **Stress testing.** Burn-in plus precise closed-loop thermal stimulus and control reveals process variations that impact quality.

- **Test management software.** ActivATE™ software provides an integrated development environment (IDE) plus runtime data collection, data automation and control, production floor tracking, report generation, and integration with production system software.

- **Standards-compliant design.** We engineer our solutions to comply with industry standards for test and measurement hardware.

- **Ability to accommodate multiple device types.** Digital test expertise and I/O schemes for application processors and CPUs can be extended to encompass additional semiconductor device types including RF, mixed-signal, and other ICs.

- **Expert installation and maintenance.** A global team works with you for delivery, installation, training, and support of systems at your location.

Astronics Test Systems solutions are ideally suited for semiconductor manufacturers, outsourced semiconductor assembly and test (OSAT) firms, integrated design manufacturers, and others specifying test solutions for the production of semiconductor devices.

Examples of Proven Test System Solutions

**ActivATE™ IDE & Runtime Software**

Written by test engineers, for test engineers.

**Custom Systems Integration**

Expertise to design and build a specific solution to your exact requirements.

**ATS 503X Series of Massively Parallel System Level Testers**

Tests hundreds of DUTs for large-scale production.
Our People Form the Foundation of Your Program’s Success

Our values encompass innovation, ethics, responsiveness, collaboration, and passion. Your goals become our goals, which is why we are such a valuable partner in your commercialization efforts. Together, the synergy of our partnership will ensure success. We offer you:

- A “By Engineer, For Engineer” collaborative design workflow
- Program progress updates from dedicated program managers
- Qualified, trained production staff to ensure quality test system delivery
- A global installation team and network to support installation, training, and maintenance

Manufacturing Facilities Provide Exceptional Test System Capacity and Quality

With more than 150,000 square feet of certified manufacturing capability, our manufacturing processes follow industry-standard quality guidelines set forth in ISO 9001 and AS9100 as well as CMMI.

About Astronics Test Systems

Astronics Test Systems verifies performance of the world’s most critical electronics with a complete line of test and measurement solutions. Bringing more than 50 years of experience, Astronics delivers proven test expertise to electronics manufacturers and integrators in the aerospace, defense, semiconductor, and medical industries. Astronics’ wide range of products and capabilities includes automatic test equipment (ATE), integrated test systems, instrumentation, software, and custom engineering solutions, served up with innovative technology, engineer-to-engineer customer service, and exceptional, certified quality. Above all, we deliver solutions on time and within budget. Today Astronics solutions are implemented on a global scale, with more than 5 billion devices tested to date to ensure reliable operation of everything from the aircraft you fly to the mobile device in your pocket.

Start Your Solution Today

Put our history of innovation and engineering expertise to work for you. Get started by contacting us today.