



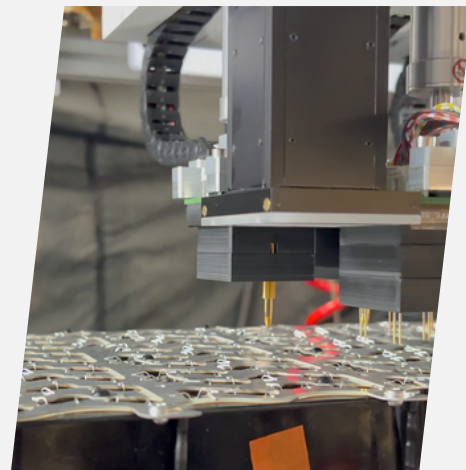
STINGRAY EV0500

Automated Battery Tester

Battery interconnect issues must be caught during battery production rather than after. Otherwise, field failures can be costly and harmful to a company's reputation. For battery manufacturers, it is critical to have a production test solution that can quickly, reliably, and cost-effectively test battery module interconnects.

- ✓ **Single or double-sided probing with up to 22 probe modules provides optimal access, allowing simultaneous testing of both sides and saving you time**
- ✓ **Configurable platform can handle unique applications, eliminating the need to invest in multiple tools**
- ✓ **Scalable systems allow you to buy what you need today and add to it in the future, making it affordable**
- ✓ **Factory automation solutions offer improved throughput, enhanced traceability and data management**
- ✓ **Largest test area (640 mm x 1200mm) without incrementation reduces handling resulting in time savings**
- ✓ **A first-to-market solution and a large international install base instill confidence in the system**

World-class companies keep their production lines moving smoothly by investing in quality verification systems that quickly and reliably test the manufacturing quality of their battery modules. By choosing the patented STINGRAY test platform, manufacturers gain a commanding advantage. The STINGRAY has repeatedly proven its value and technology with over ten years of production use and hundreds of thousands of battery arrays tested.



THE TRUSTED SOLUTION FOR HIGH VOLUME BATTERY TEST

Battery cell interconnects create a consistent structure that enables the smooth flow of current with minimal resistance. The electrical resistance measurement across a battery cell interconnect accurately assesses bond quality.

The STINGRAY employs a set of test heads to measure the electrical resistance of each bond in the battery array. By utilizing the four-wire technique, the tester can perform electrical tests on low-resistance interconnects, even as low as **200uΩ**. Each test is completed within milliseconds, ensuring rapid testing of each battery array.

The STINGRAY has a proven track record of reliable performance and is used in high-volume production across multiple customer sites. Test heads can be readily adapted to different cell patterns using configurable contact pins.


RESISTANCE MEASUREMENTS

Wire bond / Laser weld / Interconnect	Measurement Range	Typical Tolerance
4 Wire Delta Resistor Test (M&S) Test time of 1ms	200uΩ - 500uΩ	30%
	500uΩ - 5mΩ	10%
	5mΩ - 80mΩ	5%
	80mΩ - 160mΩ	0.5%
	160mΩ - 1Ω	0.5%
	1Ω - 100M Ω	5%
4 Wire Resistor Test (external instrument) Test time of 1s	10uΩ - 500uΩ	5%
	500uΩ - 100mΩ	5%
	100mΩ - 1Ω	2%
	1Ω - 100M Ω	1%

**THE STINGRAY CHECKS
ALL THE REQUIREMENTS
FOR BATTERY
MANUFACTURERS**

- ✓ Prototype & Production Test
- ✓ 100% of Interconnects Tested
- ✓ High Measurement Accuracy
- ✓ Fast Test Speed
- ✓ Configurable
- ✓ Factory Automation

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Catch Defects Before It's Too Late!