



EV Battery Products, Services, and Solutions



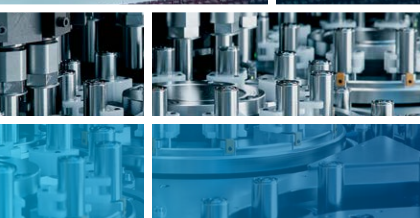
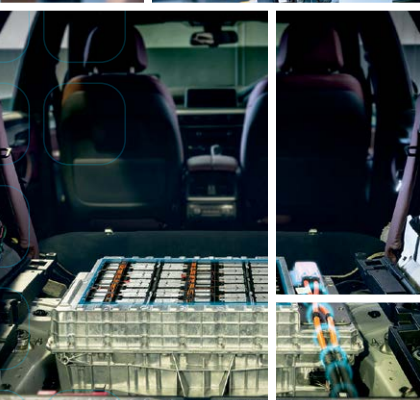
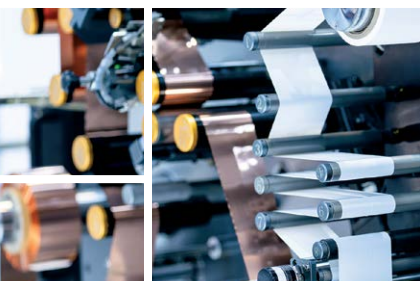
The EV battery manufacturing industry is growing rapidly in the United States, with new processes and plants opening weekly. And, like any developing industry, it is rapidly innovating, meaning that requirements and specifications are constantly being updated. Market pressure to **get up to capacity quickly** and the need to **minimize scrap of critical raw materials** must be balanced with **precision manufacturing needs**.

Whether you are manufacturing battery cell components, assembling cells or packs, or recycling batteries, Cross Company can help you to **produce high quality products** to demanding and sometimes changing specifications, **without compromising on safety or efficiency**.

Although much of the processing and assembly equipment is made outside of the country, Cross can help with networking machines together and with overall plant automation & control. We can also help to automate any manual processes that support production. Count on Cross to help update your machines to **adapt to process changes and improvements**.

With our 22 ISO 17025 calibration labs and industry-leading scope of accreditation, we can help **ensure your measurement and testing equipment accuracy**. We also offer a wide range of measurement equipment to purchase, from simple hand tools and hard gaging to sophisticated video measurement machines. We also sell other essential measurement equipment for torque, force, pressure and temperature measurement, and more!

Keeping your workers and workplace safe during production is critical in any stage of the process. From gas and flame detectors to personal air monitoring and PPE, Cross has the right equipment to allow you to **maintain production efficiency with the highest levels of safety**.



Providing Tangible Value

- **Improve quality** and **reduce waste** in your process with world class instrumentation to measure level, temperature, flow, torque and more
- **Raise the quality** of the parts you are producing by ensuring each and every piece of measurement equipment is measuring correctly through routine calibration
- **Increase efficiency** by networking all the disparate parts of your plant together with one central control system. Cross's expertise in programming DCS's, SCADA systems and PLC's can help.
- **Reduce downtime** when installing updates or upgrading your system with Cross's service and maintenance agreements
- **Reduce the risk** of a dangerous situation with a complete gas detection system for a wide range of gas types
- **Increase efficiency** by automating dull, dirty or dangerous jobs, like machine tending and palletizing, which may still be manual

The emerging **battery recycling industry** has many of the same requirements as battery manufacturing. In the dismantling process, monitoring and controlling emissions and hazardous waste is also essential. Cross can help with the right equipment for accurate measurement and reporting, as well as providing essential safety gear and breathing apparatus for personnel.

Products:

- Portable and fixed gas detection systems
- Flame detectors
- Equipment for spot measurement of volatile organic compound (VOCs) concentration
- Personal air monitoring
- PPE including respirators and escape hoods
- Wide variety of industrial valves and assistance in specifying the correct configuration and automation, including valves for high temperature processes like thermal oil systems
- Balances, hand tools, force gages, scales and many other types of measurement equipment

Services:

- Onsite and in-lab ISO17025 accredited calibration of a variety of measurement parameters including torque, force, pressure, weight, level, time, resistance and temperature. We can also calibrate lux meters, thickness gages and other dimensional gaging, multimeters, insulation testers, levels, oscilloscopes, video measurement equipment, ground bond testers and more
- First article, PPAP and incoming parts inspection
- Physical and environmental testing including sun simulation, salt spray, vibration, safety, materials and electronic testing
- UL508a panel building facility
- Valve automation and repair

Solutions:

- Integration systems to connect skids, instruments and accessories which all need to communicate with each other. As a full service certified systems integrator (CSIA), we have extensive experience programming PLCs, SCADA and DCS systems from brands like Rockwell/Allen Bradley, Siemens, Honeywell and Emerson.
- Turn key robotic and electro-mechanical automation solutions, including robotic machine tending, palletizing and robot-assisted inspection