Short Circuit Test Unit

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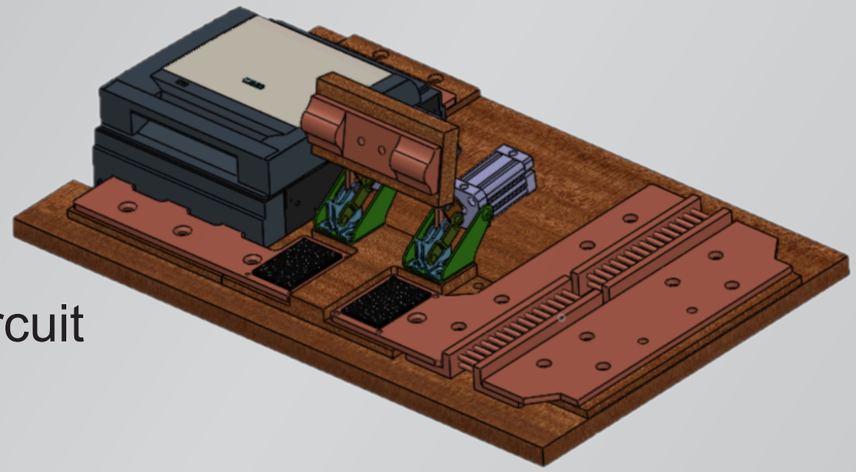
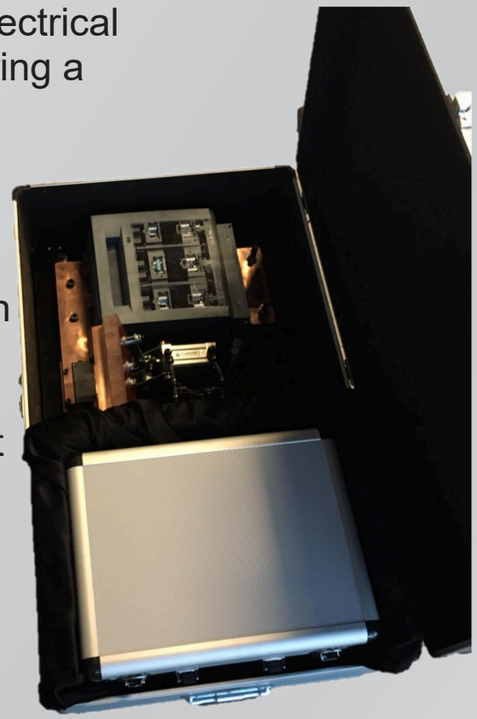
High-Speed Short Circuit Test Device

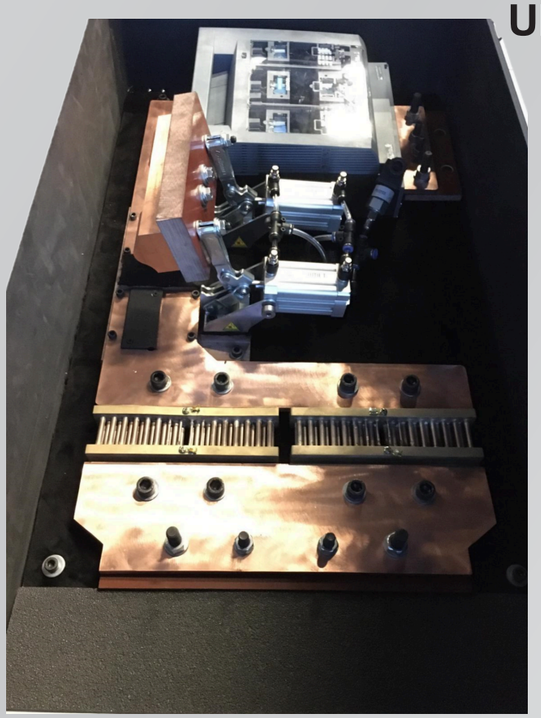


UN ECE R100 Compliant Battery Safety & Short Circuit Validation

- **UN ECE R100 Battery Behavior Monitoring:** Specifically engineered to observe and analyze the thermal and electrical behavior of electric vehicle batteries during a controlled short-circuit event.

- **Low-Impedance DC Shunt Resistance:** Features a high-precision DC shunt with a resistance of < 5mΩ, ensuring full compliance with strict regulatory requirements for high-current discharge testing.





Ultra-High Speed Data Acquisition
Equipped with specialized high-speed analog input cards, allowing for laboratory-grade precision in extreme conditions.

- **10 Microsecond Sampling Rate:** Captures critical voltage and current data points every **10µs**(100kHz), providing a high-resolution map of the battery's reaction in the first microseconds of the short circuit.

- **Real-Time Synchronized Control:** Powered by the industrial PC architecture to ensure ultra-low latency and perfect synchronization between current measurement and safety interlocks.

- **USB Data Export:** Upon test completion, export all high-resolution graph data and measurement results in CSV format directly to a USB flash drive.

- **Plug-and-Play Analytics:** Simply plug the USB drive into your workstation to perform advanced data analysis using standard spreadsheet software (Excel, etc.).