

The low-risk path to battery production in record time

Metrology Automation for Electric Vehicle Battery Manufacturing

Situation

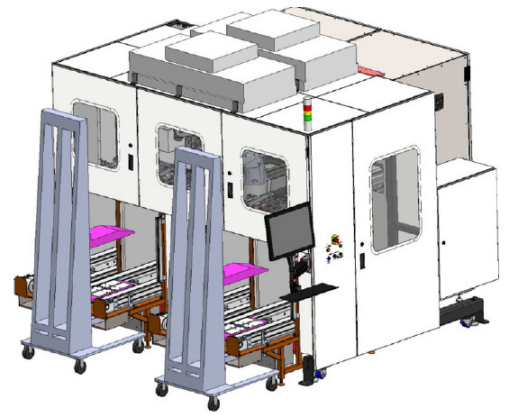
A solid-state EV battery manufacturer needed to automatically test individual parts and trays of parts at high speeds. A primary metrology method was specified with the requirement that other metrology platforms might be used in the future.

Solution

A flexible robotic architecture was developed by Owens Design to maximize test throughput by either using two differing metrology systems or two identical systems in a parallel configuration. The system included a custom tray handling solution designed for extendibility across the factory with quick tray exchanges while queueing a number of stacks to minimize operator intervention.

Problem

Creating a custom, high throughput, manufacturing-ready machine requiring minimal dry room space with flexibility to accommodate undefined metrology units.



About Owens Design

From startups to Fortune 500 manufacturers, you can minimize risk, accelerate time-to-market, and scale high-tech production with custom design, build and turnkey manufacturing from Owens Design. OEMs meet impossible customer demands with production-ready prototypes designed and built with Owens Design. Manufacturers rapidly scale production of new products with custom automation developed by Owens. Since 1983, Owens has designed and built thousands of tools with 100% delivery, through highly experienced engineers, a proven product development process and customer commitment. Owens Design has deep expertise in semiconductors, biomedical, renewable energy, batteries, displays, and emerging technologies.

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