

The low-risk path to battery production in record time

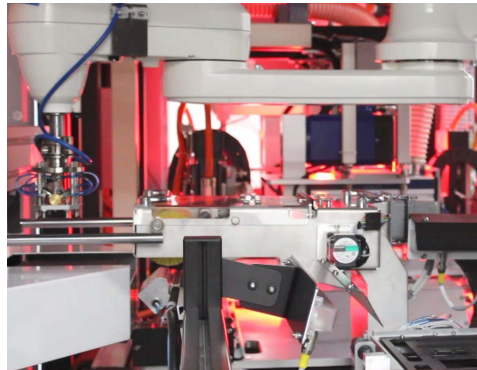
Aligning and Stacking Tool for EV Battery Manufacturing

Situation

A pre-pilot production tool was needed to stack materials around the key battery layer prior to entering into the next process. The same tool needed to work in reverse to unstack the components and send the layer to its next process step.

Problem

The tool needed to be designed while the components and sizes were still in flux.



Solution

Owens created a 5-robot, 12-camera, multi-conveyor system with the flexibility to handle various inputs (quantity and type) to accurately stack and unstack the parts at a ~360 UPH rate. With end of arm modifications and adjustments to the vision jobs, future adaptability exists to handle even more types of parts.

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