USE CASE

COMPREHENSIVE BATTERY QC

A leading, global manufacturer of primary, consumer batteries wanted to integrate QC and sensor data from pumps used in battery manufacturing to optimize maintenance schedules and avoid unplanned line downtimes by fixing or replacing pumps before they fail.

CHALLENGES

- Technical: Make pump failure prediction more reliable and develop a robust maintenance schedule that optimizes maintenance during planned downtime.
- Change Management: Foster cross-departmental collaboration between operations and plant maintenance departments which traditionally work independently

SOLUTION

AI model that links data from quality control and maintenance to generate a holistic picture of pump health that allows catching emerging problems before they lead to unplanned downtime or significant scrap. The Accella MFG Bot™ platform along with the Accella Quality Box™ and custom models are used.

PROCESS

- Collection, cleansing and aggregation of IoT data from sensors.
- Development of a 60-parameter pump health model with defect detection data from QC fed into the model. The model was trained to detect anomalies in pump operations and deployed to the shop floor.

OUTCOMES

- Improved maintenance cycles for pumps.
- Less unplanned downtime.
- Improved overall equipment efficiency.

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