

CASS-IQ | HIGH THROUGHPUT CELL ASSEMBLY

The Quality Control Centre for Your Battery Lab



Coated
Electrode

Cutting

Electrode
Analysis

Cell
Assembly

Electrolyte
Filling

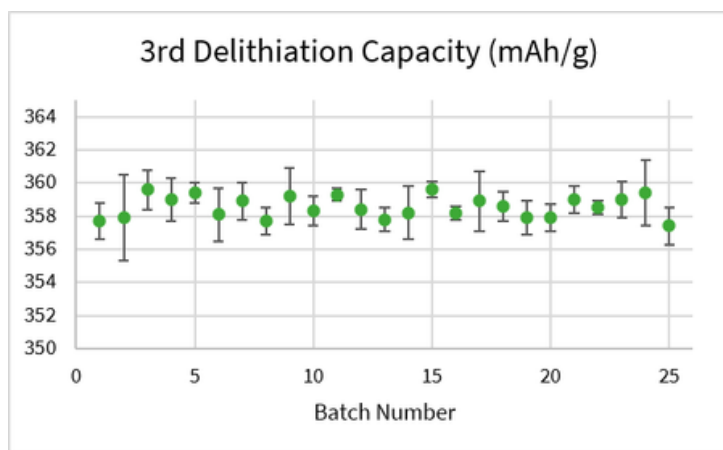
Completed
Cells With
Data Report

The CASS-IQ is a turnkey cell production system that brings together Cellerate's CASS and E-PREP platforms into a single, integrated workflow. From coated electrode sheets through to finished, quality-controlled cells. Everything runs in sequence, with full data capture at every step, ideal for making over 100 cells per day.

Up to 300 cells per day: High-throughput automated cell production for routine QC, validation and screening workflows.

Reduce operator time: Automate electrode preparation, characterisation, and cell assembly to increase output without increasing headcount.

Improve consistency and traceability: Standardise every build and capture key process and material data for each individual cell.



<0.5% STDV between batches

Quality: The CASS-IQ delivers consistent, high-quality cell assembly and data across operators, batches and builds, reducing operator-to-operator variation and reinforcing the benefits of automation for reliable QC workflows.

Traceability: Full materials and process traceability from input electrodes through to the final assembled cell, creating a clear digital record of each build for easier analysis, comparison and quality control.

Built for production environments: CASS-IQ continuously logs and trends key process data, including alignment accuracy. This provides early warning of process drift enabling preventative maintenance to be scheduled before performance is affected and helping maintain consistent cell quality and system uptime.

TECHNICAL SPECIFICATIONS

Throughput	Up to 300 cells per day
Operator Time	1 hour per 100 cells
Cell Performance Variability	<0.5% STDV in delithiation capacity
Cell Formats	Coin cells (CRXXXX) and Protocells
Glovebox Configuration	Double-sided 4-port glovebox
Electrode Compatibility	Compatible with common battery materials, including lithium and sodium metal, PP and GF separators, and most electrolytes



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