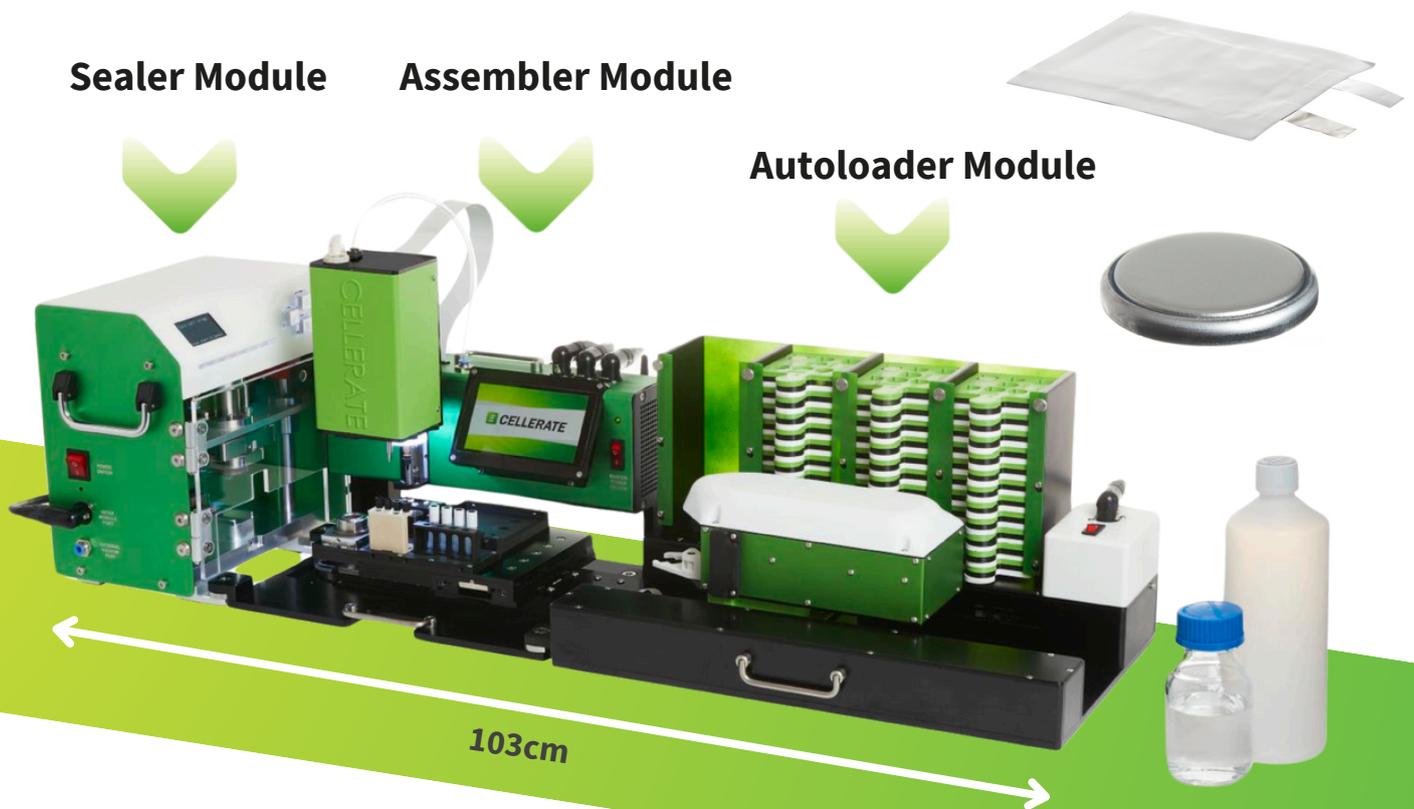


CASS | BENCHTOP AUTOMATED CELL PRODUCTION

Make coin cells and pouch cells with the same system.
Automate cell assembly, reduce staff time and innovate faster.



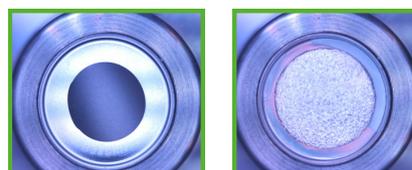
Reliable Data for Effective Research

Cellerate's benchtop system fabricates the small coin and pouch cells commonly used for testing new electrode materials and electrolytes. By automating cell assembly, researchers can save time, gather more data, and gather better quality data.

This system can be used across the entire battery industry, from fundamental research to production quality control, and it enables reliable technology transfer between departments and organisations.



Make custom cell configurations with our intuitive user interface.



Machine vision ensures accurate electrode alignment.

Assembler Module

Patented machine vision to accurately stack cell components

Assemble cells with precision, in fully- or semi-automated modes. The Assembler module never gets tired, and will make a week's worth of cells in 2 days, whilst providing unprecedented sample traceability and quality control.

Key features:

- Average electrode alignment 78 μm
- Cell build quality report automatically generated
- Customise, save, and load cell build routines
- Designed to minimise cross-contamination
- Capable of handling thin Li foils and all separators



All modules fit through the glovebox antechamber

Autoloader Module

Enables 100 cells to be built unattended

Key features:

- Create, save, and load routines for batch cell building
- Make every cell unique to explore parameter space



Sealer Module

Crimps coin cells and seals pouch cells

Key features:

- High quality coin cell crimper
- Seal pouch cells with up to 40 x 60 mm electrodes
- Swap between coin and pouch cell sealing in 5 min

The Cellerate system has been designed to fit seamlessly into existing workflows and lab spaces, handle a variety of cell materials, and provide the versatility needed for a holistic research approach. R&D and QC teams are already using the Cellerate system to make coin cell assembly 41% faster and consistently achieve standard deviations of 0.2-0.3%*

*Based on trials done with Prof. Jeff Dahn, and manufacturers of both cathode and anode materials.

 **CELLERATE**

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