Want to Make Your Own Cylindrical Li-Ion Cells on a Budget? Solith Has the Right Solution.
This compact line, designed for both research and factory labs, is suitable for the production of a wide range of cylindrical Li-Ion cells, including 18650, 26650, and 21700 formats. It covers the entire assembly process, from electrode cutting to cell filling and sealing.

**SPB 150 - STRIP PREPARATION BENCH**
Unwinding and cutting machine for anode or cathode, composed of:
- Electrode roll unwinding and cutting unit;
- Electrode cutter (adjustable length);
- Frame and safety enclosures.

**CWM 150 - CELL WINDING MACHINE**
The main function of this machine is winding pre-cut tabbed anode and cathode electrodes and interposing separator layers unwound from rolls. Electrode placement is precise thanks to a tensioning system and positioning of sensors for the pre-cut electrode. Large graphic HMI provides all information and setting adjustments.
The machine is composed of:
- Equipment frame;
- n.2 separator roll unwinding spools;
- n.2 electrode feeding plates with tensioning gripper;
- n.2 electrode instertion grippers on winding turret;
- n.1 cylindrical winding mandrel;
- Automatic cell taping system;
- Safety guards, electrical cabinet, HMI graphic display.

**TWB 150 - TAB WELDING BENCH**
This machine is used to weld a tab on each electrode, and it is composed of:
- Equipment frame;
- Tab roll unwinder;
- 40 Khz ultrasonic welding unit;
- Frame and safety enclosures.

**DCWM 150 - DEEP CAN WELDING MACHINE**
The machine is used to perform resistance welding of the anode tab to the bottom of the can.

**EFM 150 - ELECTROLYTE FILLING MACHINE**
This machine fills the cylindrical cell with electrolyte under vacuum conditions.

**CNM 150 - CAN NECKING MACHINE**
This machine carves the groove to accomodate the cell’s top cap.

**CCM 150 - CAN CRIMPING MACHINE**
This machine is used to crimp the top cap on the can’s top.

**TCWM 150 - TOP CAP WELDING MACHINE**
This machine combines the aluminium positive tab to the cell’s top cap by ultrasonic welding.
KEY FEATURES AND BENEFITS

- Compact footprint: SMALL DIMENSIONS, EASY INSTALLATION
- Smooth tool changing: EASE OF CONFIGURATION WITH SIMPLE INTERFACE
- High quality/price ratio: GOOD AUTOMATION LEVEL AND PRECISION WITH AFFORDABLE INVESTMENT
- Complete solution suitable for pilot production and lab installation: CELL ASSEMBLY PROCESS FROM A TO Z