

AUSTRALIA'S LEADING SUPPLIER OF



LI-ION FORKLIFT BATTERIES

Lithium-Ion Battery technology is quickly becoming the far superior choice of battery for specialised **high usage** Electric Forklift applications over all other Forklift variants. Backed by a global Leading 5 Year / 3000 cycle product Warranty, CEIL are proud to provide and service our Maxwell+Spark Li-ion batteries Australia wide.



WHY LITHIUM BATTERIES?

Lithium Batteries allow a much greater usage performance and Battery life expectancy compared to traditional Lead Acid Battery power options for Electric Forklifts.

Lithium Batteries are 100% maintenance free (no watering required), have significantly more Battery cycle life expectancy than any other Battery type and can completely eliminate shift Battery requirements due to their Fast Charge by design ability .

BENEFITS OF LI-ION TO LEAD ACID BATTERIES

- LOWEST OVERALL TOTAL COST OF OWNERSHIP
- LONGER LIFE (3000+ CYCLES; 10+ YEARS)
- FASTER CHARGING (24/7; 3 SHIFT AVAILABILITY)
- MORE ENERGY EFFICIENT (uses 30% LESS ELECTRICITY)
- NO SECOND/THIRD SHIFT BATTERY REQUIREMENTS
- NO MAINTENANCE
- NO EMISSIONS

AUSTRALIA'S LONGEST WARRANTY



SYDNEY | BRISBANE | MELBOURNE | ADELAIDE | PERTH



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CHOOSING THE RIGHT BATTERY FOR YOUR ELECTRIC FORKLIFT



• ONE SHIFT OPERATION (LIGHT)	✓	✗
• ONE SHIFT OPERATION (HEAVY)	✓	✗
• TWO SHIFT OPERATION	✗	✓
• MAINTENANCE FREE	✗	✓
• NO SECOND SHIFT BATTERY REQUIREMENT	✗	✓
• NO MAINTENANCE	✗	✓
• LOW CARBON EMISSIONS	✗	✓
• EXTREME FAST CHARGING	✗	✓
• EXTREME COLD (FREEZER-20°C)	✗	✓
• EXTREME HEAT (35°C+)	✗	✓

24/7 BATTERY ONLINE MONITORING

An online Telemetry system is integrated into every Maxwell+Spark Lithium Battery providing monitoring data on demand.

This system allows external access to all relative battery information at any given time from the factory all the way through to the end user of the battery.

FEATURES:

- 24/7 Remote Monitoring of every Battery
- Key Battery data such as State of Charge, Cell and Battery Voltage, Battery Current, Battery Temperature, BMS Status, Battery Cycles and more!
- Powerful reporting and fleet monitoring
- Easy user friendly access on any device
- Customisable to suit your business needs



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UNIVERSAL DASHBOARD INTEGRATION

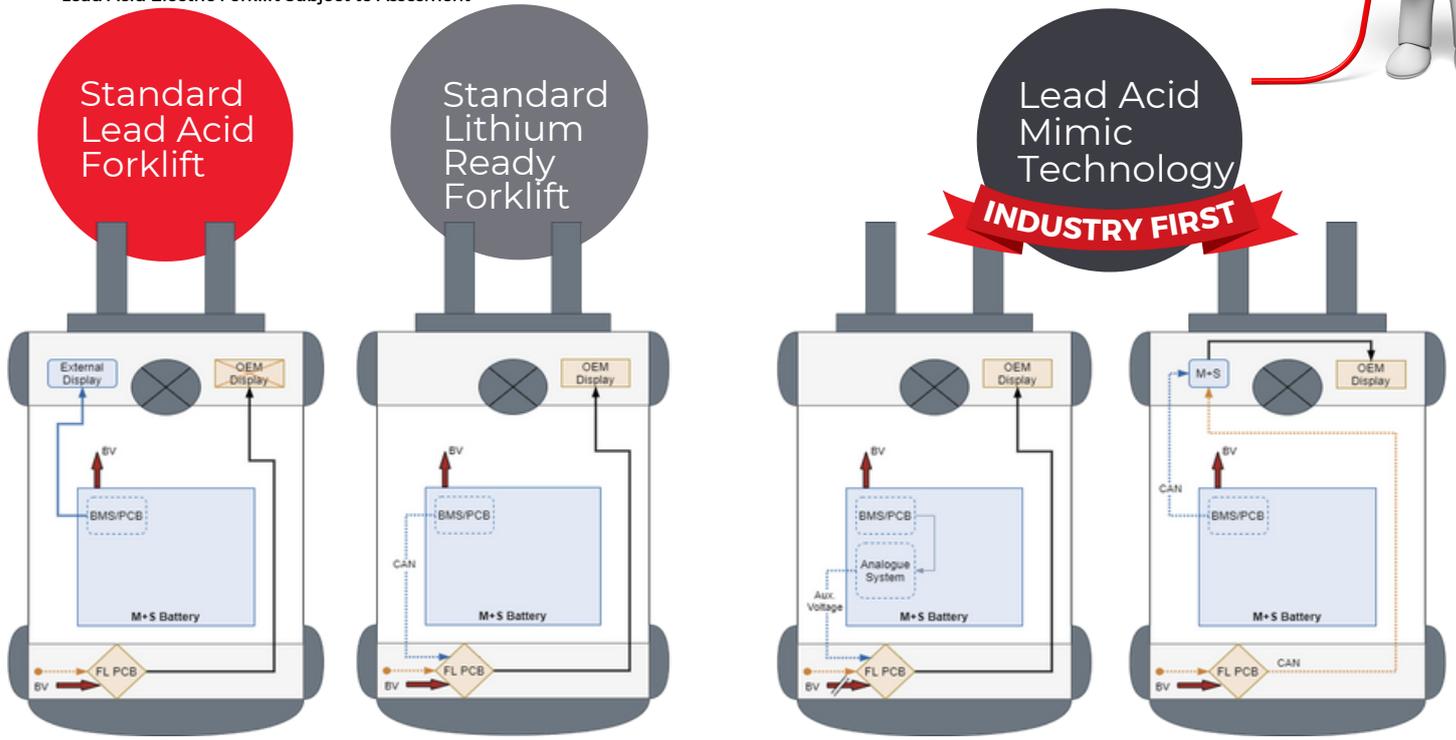
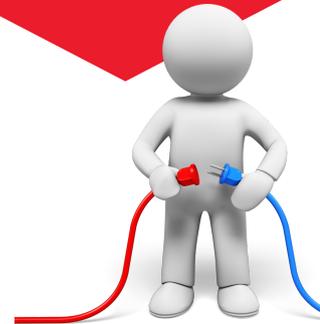
RETROFIT OUR LITHIUM BATTERIES INTO ANY ELECTRIC FORKLIFT

NO LITHIUM READY FORKLIFT - NO PROBLEM!

Maxwell+ Spark LI-ION Batteries can be fitted into ANY Electric Forklift* without the need to supply required and costly third party display and safety mechanisms that are not factory standard for an Electric Forklift that is not Lithium Battery ready by design.

This allows for much greater flexibility with the Motive Power options that CEIL can supply, as well as a seamless Lithium Battery integration into BOTH traditional Lead Acid Battery Electric Forklifts and Lithium Ready Electric Forklift options as standard.

*Lead Acid Electric Forklift Subject to Assessment



THIRD PARTY NO DASHBOARD INTEGRATION

Onboard forklift safety features + BDI void.

Lithium Battery supplied with an external BDI screen and Low Battery voltage alarm. Low voltage lift lockout disabled.

OEM STANDARD DASHBOARD INTEGRATION

Lithium Battery is supplied as standard, using the Lithium Forklifts CANBUS Protocol to communicate between the Lithium ready Forklift and the supplied Li-ion Battery

VOLTAGE MIMIC DASHBOARD INTEGRATION

(NON CANBUS ENABLED FORKLIFT)

Lithium Battery feeds an auxiliary voltage to the Forklift, safely mimicking that of a Lead Acid Battery. The Forklift BDI and protections are fully functional, as standard with a Lead Acid Battery.

Available for most Lead Acid Forklifts. Subject to assessment

CANBUS INTERCEPT DASHBOARD INTEGRATION

CANBUS ENABLED FORKLIFT

The M+S system listens to the Forklift's CAN messages. The 'listening' process is inherently isolated and cannot interfere with the Forklift's operation.

The M+S system adds the correct SoC to the CAN messages, broadcasting to the BDI on a separate CAN line.

Available for most Lead Acid Forklifts. Subject to assessment

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Lithium
6.941

BATTERY CHEMISTRY

WHY WE USE LIPO4 CELLS

Our Maxwell+Spark Li-ion Forklift Batteries are based on a modular design where only high quality Li-Po4 Battery cells are used to ensure our customers can receive a Battery with maximum life expectancy and greater supplied warranties. This has also enabled the localised ability to repair and service each Lithium Battery and Charger asset here in Australia, ensuring a complete and total 'service and support' package is supplied for all products.

- ✓ BEST SAFETY PROFILE - PROVEN TECHNOLOGY
- ✓ BEST LIFECYCLE FOR PRICE (10-15 YEARS+)
- ✓ HIGHEST TEMPERATURE RANGE (-40°C - 80°C)
- ✓ MOST RECYCLABLE (VS COBALT/NMC)
- ✓ MOST ETHICAL MINING (VS COBALT/NMC)
- ✓ LEAST ENERGY DENSITY (VS COBALT/NMC)



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TEAM
TODAY**



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CELL
TRUSTED BATTERY SYSTEMS