



HYSTER® LO2.0-2.5 & L5.0-7.0T

POWERED BY LITHIUM-ION BATTERIES FOR MAXIMUM ENERGY EFFICIENCY

L5.0-7.0T



Li-ion



LO2.0-2.5

MARKET SEGMENTS

- Chemicals
- Automotive
- Retail
- Logistics
- Beverage
- Food

Hyster Lithium-ion (Li-ion) battery and charging system will help to deliver the best productivity levels for warehouse equipment and battery driven forklift trucks.

Particularly efficient in multi-shift and extended applications, these batteries help to lower the overall cost of ownership and improve energy efficiency.

Hyster now offers Li-ion battery systems for the LO2.0-2.5 Low Level Order Picker and the L5.0-7.0T Tow Tractor series.

APPLICATIONS

This fast charging, long-life battery system is most effective in intensive warehouse operations.

Li-ion batteries replace multiple conventional battery sets with a single unit, releasing storage space and simplifying management requirements.

The sealed unit design reduces the risk of chemical spillage found in conventional batteries, which is valuable for food and pharmaceutical industry applications.

Managers of multi-shift operations in manufacturing, retail and logistics will find the use of a single battery especially helpful in reducing downtime.

BATTERY CAPACITIES AND CHARGERS

The Li-ion battery capacities available for these 24V truck series are:

- LO2.0, L02.0S, L5.0T - 300Ah
- LO2.5, L7.0T - 400Ah

Hyster offers a range of charger options, providing full charge in 1 hour, 2 hours or 4 hours.

Li-ion Battery Capacity	Approximate charge time (hours)		
	Low	Standard	Fast
300Ah	3.0	2.0	1.0
400Ah	4.0	2.0	1.2



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BENEFITS

Charging efficiency

- Fast charging options increase operational uptime
- Opportunity charging has no adverse affect on battery life
- No battery exchange process needed

Zero maintenance

- Completely sealed unit means no spills or emissions
- Li-ion technology does not require equalisation charge
- No requirement to top up water levels
- Reduced CO₂ footprint

Advanced technology

- Lithium Iron Phosphate (LFP) battery
- Li-ion technology offers 3x the cycle life of conventional batteries with over 3750 cycles (at 80% discharge)
- Higher energy efficiency can lead to up to 30% savings in energy costs compared to Lead Acid

Integrated Solution

- Battery discharge indicator displays real-time charge information
- Over discharge during operation is prevented by lift lock out function
- Error messages are clearly displayed and, in case of critical battery malfunction, the truck will shut down
- Battery performance and life is optimised by battery/charger communication via CANbus



Li-ion



COMPARISON OF LEAD ACID AND LI-ION BATTERY FEATURES

	Lead Acid	Li-ion (Lithium Iron Phosphate)
Cycles (80% DOD)	1200	3750+
Charge temperature (°C)	Above 0°C	Above 0°C
Recommended operating temperature	0-35°C	0-35°C
Recharging time	6-12hr	1-4hr
Opportunity charging	No	Yes
Equalising charge	Required	Not required
Maintenance	Medium/high	Annual inspection
Initial cost (incl. charging equipment)	Low	Medium/high
Total cost of ownership in suitable applications	High/Medium	Medium
Emissions	Gassing during charging	No emissions