



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, LO2.0S, 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 |