

# NOBLELIFT

NOBLELIFT INTELLIGENT



## THE NOBLELIFT **LITHIUM** RANGE



Noblelift is proud to present our new Lithium powered material handling solution range, which includes Power Pallet Trucks (1200kg - 2500kg), Power Stackers (1200kg - 2000kg), Reach Trucks (1400kg - 2000kg), as well as the Counterbalanced Sit Down Forklift Truck (1600kg - 3500kg), providing a more efficient and cleaner solution for your material handling tasks.

The Lithium battery operates in temperatures ranging from -20 deg C to +55 deg C, and with IP3X it is ideal for applications in harsh environments, such as in tropical countries with high temperatures and high humidity.

## **Advantages:**

**Opportunity charging and Fast charging**

**Environmentally friendly and Maintenance-free**

**Optimized Productivity and Flexibility**

**Lower total cost of ownership (TCO)**



# PT12-20L/PS12-20L

## Walkie Range Class 3

The PTxxL and PSxxL series Walkie Pallet Trucks and Stackers are designed, tested and equipped to deliver the best performance and reliability for most of your material handling applications with 1200-2000kg capacity and lift height up to 5300mm. The PTxxL and PSxxL series are equipped with the top brand components such as Kordel gear box, Schabmuller motor, ZAPI controller, WICKE wheel, REMA control handle as well as the HPI pump unit for the stackers, to ensure the best performance and reliability. Proportional lift is standard for stackers.

PS12L/16/20L

PT16-20L

PT12L

Optional easy access charging connect for Class 2&3 products, charging can be done without opening the battery compartment as for Class 1.



Load Capacity : 1600-2000kg  
Lift High : 2.9-5.3M

Load Capacity : 1200-2000kg



Straddle Leg

# PT20PLUS/PT25P/PS15

## Rider Range Class 3

The PT20PLUS/PT25P and PS15 series Pallet Trucks and Stackers are optional with foldable ride-on platform for comfortable ride-on applications esp. large warehouse transportation with 2000-2500kg capacity for power pallet trucks, and 1500kg for Stacker with lift height up to 6000mm. The PT20PLUS/PT25P series are equipped with the top brand components such as Kordel gear box, Schabmuller motor, ZAPI or Curtis controller, WICKE wheel, REMA control handle with fast travel speed for excellent efficiency. Adjustable Straddle leg and power steering is optional for stackers.

PS15

PT20PLUS

PT25P

Optional easy access charging connect for Class 2&3 products, so charging can be done without opening the battery compartment.



Load Capacity : 1500kg  
Lift High : 2.9-6.0M

Load Capacity : 2000kg  
Travel Speed : 7-12 Km/h

Load Capacity : 2500kg  
Travel Speed : 9/12 Km/h

# PS14RP/PS15RM/RT Series

## Walkie Reach & Reach Truck

The Walkie Reach and Reach Truck series come with Pantograph reach or Mast reach for double depth stacking operations and small turning radius. With 1400-2000kg capacity and lift height up to 4.5m and 5.5m for walkie reach, 12.5m for sit-on reach. Walkie Reach also comes with an optional foldable ride on platform for comfortable ride-on applications esp. large warehouse applications. Electric power steering standard for effortless control. Optional side-shift for accurate stacking at different heights.



Li-ion

Load Capacity : 1400-2000kg

Lift High : 1.6-12.5M

# FE3D/FE4P N Series

## Sit-down Counterbalance

The Noblift N series electric forklift is ideal for indoor and outdoor use, offers you both quality and attractive price at the same time. Capacity 1600-3500kg, lift height up to 6m. Full AC system with great energy efficiency and low operation costs. The N series is equipped with Curtis intelligent controller, large display with complete diagnostics suite. Ergonomic design, low noise, and operator's comfort in one package.

FE4P N Series



FE3D N Series

Li-ion

Load Capacity : 1600-3500kg

Lift High : 3-6M

# Auto-Sleep Function and Wake-up Button for the Battery

Noblelift Class 2&3 Lithium battery offers auto-sleep function after static for 30-60mins (time can be set with the PCAN), the battery will not discharge when it is not operating. On the truck near the key switch there is a start button, the battery can be easily activated when the truck needs to be switched on for operation. Or optional to have an added position on the key switch to start the battery easily.



There is an integrated LCD on the battery that displays status of charging, battery temperature, current, voltage, single cell voltage as well as error codes of the battery so the battery is monitored intelligently. USB connectors are available near the key switch for warehouse management device or cell phone charging etc.



Noblelift Class 1 Lithium battery is set with 1 week auto-sleep to prevent discharging when the truck is left during long holidays, the battery also has a USB port, the programmer can be connected to the battery to check all the detailed battery information battery. (recommended to buy with the truck).

## Charging the NOBLELIFT Way



No manipulation, ultra-safe, charge whenever you have time (no memory effect, fully charged in less than 2 hours).

## Charging the Old Fashion Way



Long charging, and cooling down periods, heavy battery manipulation, and chemical hazards (acid+hydrogen).



## Kick-start Charging Button and LCD Display Screen for the Charger

Noblelift Class 2&3 Lithium battery charger offers a kick-start function if the battery voltage is too low. For battery  $\geq 200\text{Ah}$ , press the start button until the charging process is kick-started, for battery  $< 200\text{Ah}$  there is a separate kick-start button at the back side of the charger to kick-start the charging. The charger is with LED and CAN, so the charger can adjust the charging mode based on the lithium battery charging curve to charge the battery to 100% of its capacity.



## Class I & II --- Electric Forklifts & Reach Trucks

Workable for Models	RT15ST RT16/RT20	FE4P16/18N	FE4P20/25N	FE4P30/35N
Nominal Battery Capacity	345Ah	250Ah	400Ah	400Ah
Nominal Voltage of Battery	48V	48V	48V	80V
Nominal Voltage of Truck	51.2V	54.75V	54.75V	
Battery Weight	210kg	360kg	380kg	560kg
Battery Dimension(mm)	1190x255x614	980x398x760	980x538x605	1016x688x760
Cell Chemistry	Lithium/iron Phosphate			
Operating Temperature	-20 °C ~ + 55 °C			
Optional Charger	48V/100A	48V/150A	48V/200A	80V/200A
Charging time	<160min	<120min	<120min	<120min
Operating Temperature for charger	0 °C ~ + 40 °C	-10 °C ~ + 45 °C		

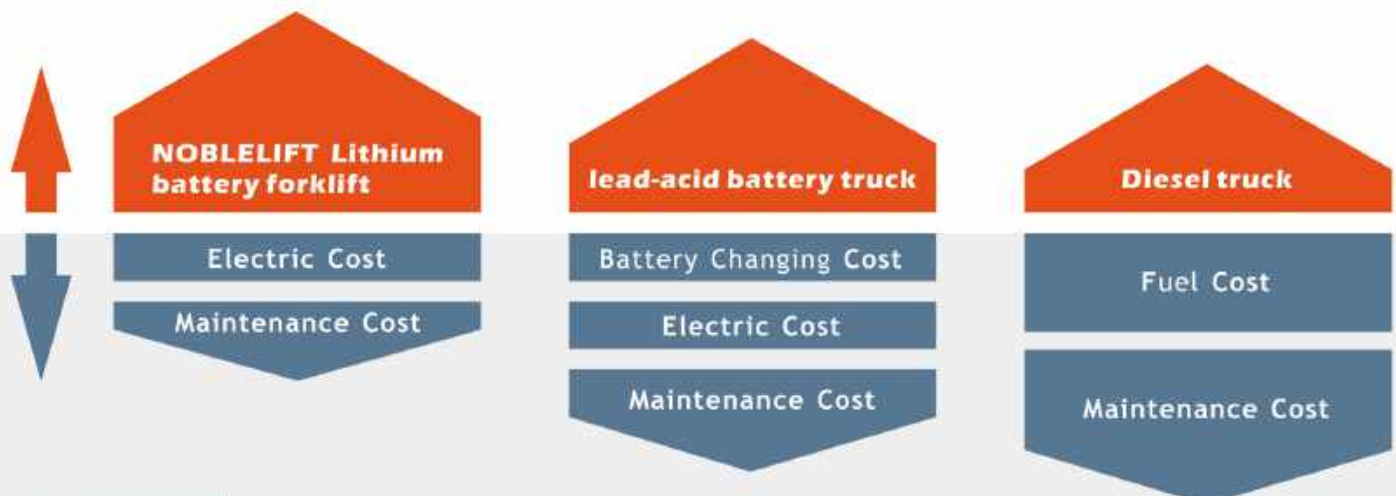
## Class III --- Power Pallet Trucks & Stacker, Walkie Reach

Workable for Models	PT12LI	PT16L/20L PT20PLUS PS12L	PT16L/20L PT20PLUS PS15 2-Stage/PS20 PS16/20L	PT25P PS15 3-Stage PS14RP PS15RM				
Nominal Battery Capacity	50Ah	100Ah	150Ah	200Ah				
Nominal Voltage of Battery	24V	24V	24V	24V				
Nominal Voltage of Truck	25.6V	25.6V	25.6V	25.6V				
Battery Weight	25kg	40kg	55kg	75kg				
Battery Dimension(mm)	550X69X450	624 X146 X525	624 X146 X462	624 X218 X537				
Cell Chemistry	Lithium/iron Phosphate							
Operating Temperature	-20 °C ~ + 55 °C							
Optional Charger	24V/25A	24V/50A	24V/30A	24V/50A	24V/50A	24V/80A	24V/60A	24V/80A
Charging time	120min	60min	150min	120min	150min	120min	150min	120min
Operating Temperature for charger	0 °C ~ + 40 °C							

Acquisition / rental cost

1 Lithium battery =

- 2 Lead acid battery in productivity
- 3 Lead acid battery in life cycle
- 5 Lead acid battery in total value



Hidden cost

## Opportunity Charging and Fast Charging Charge Your Battery Whenever and Wherever You Need

The Lithium battery solution is ideal for multi-shift operations with its unique advantage of opportunity and fast charging. Battery change between shifts is no longer needed, neither spare batteries nor charging rooms, comparing to the traditional lead acid battery. The Lithium equipped trucks can be recharged quickly during breaks, no memory impact to the battery. Thanks to its environmental-friendly feature, the chargers can be placed in convenient locations instead of a separate charging room enabling more flexibility in charging.

**Power Pallet Trucks & Stacker, Walkie Reach: 1-2 hrs**  
**Reach Trucks: 2-2.5 hrs Electric Forklifts: 1.5-2 hrs**

**15 mins charging = 60 mins running**

## The Environmentally-friendly and Cost-Effective Solution

Lithium batteries are environmentally and budget friendly. No acid evaporation, smell or pollution is caused when charging the Lithium battery, they are also maintenance free. There are ZERO CO<sub>2</sub> emissions and are quieter in operation. As such the Lithium solution is perfect for environmentally cautious operations such as in food, chemical or pharmaceutical applications. Each truck only requires one battery, irrespective of the number of shifts thanks to its fast and opportunity charging. Lithium batteries are proving to have a life cycle 3 times that of a lead acid battery. Lithium technology is more cost effective and delivers a lower cost of ownership than lead acid technology due to the zero maintenance.

## High Efficiency & productivity

Lithium technology reduces energy consumption by 35%, a Lithium battery also has a life span 3 times longer than traditional Lead Acid batteries. Lithium batteries not only reduce energy consumption but it also negates the need for battery changing during or between shifts. It removes the need for specific charging areas, and also reduces the need for staff for battery management. Lithium technology frees up space as there is no need for shift batteries, no need for ventilation or water supply. Not need to change batteries also increases the uptime of your MHE and operators who can simply put a charge into the Lithium batteries during coffee or bathroom breaks.

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