www.nobleliftna.com

NOBLELIFT NORTH AMERICA

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LITHIUM

PT45L-Li

4,500 lbs. Capacity

Powered Pallet Jack

- LB Capacity 4500lb
- Lithium Battery
- Compact Size
- Low Service Weight
- Smart Design
- Highly Cost Effective
- Easy Maintenance
- CE Mark

Why choose between price and quality **WHEN YOU CAN HAVE BOTH!**



HIGHLIGHTS

- American Curtis Travel Controller with CAN-bus control
- Powerful AC drive motor
- Lithium battery: 24V/100Ah with battery heating system
- Built-in charger 24V/20A
- Fast charging 5 hours
- Pin-code panel and RFID card access
- Pinwheel turning - drive with tiller in vertical position
- Ergonomic German REMA control handle with horn and emergency belly button, dual butterfly-style thumb controls for traveling
- Electric lifting and lowering buttons
- Travel speed: 3.7mph (unloaded), 3.1mph (loaded)
- Speed reduction in turns
- Traction tire PU
- Gradeability: 12% (unloaded), 20% (loaded)

PT45L-Li

4,500 lbs. Capacity

Powered Pallet Jack

The high performance PT45L-Li Lithium Walkie Pallet Jacks are powerful, quiet, very low maintenance, ultra-smooth, and are perfect for medium and heavy-duty material handling. Their extremely compact design and small turning radius make them ideal for loading docks, warehouses, manufacturing, supermarkets, narrow aisles, and applications within confined spaces like retail stores, business centers, elevators, trailers, and containers.

ERGONOMIC AND SMART DESIGN



Automatic speed reduction, while turning, helps to prevent product damage.

The German REMA tiller head is comfortable and ergonomic, with large buttons that can be easily used by operators, even while wearing gloves.

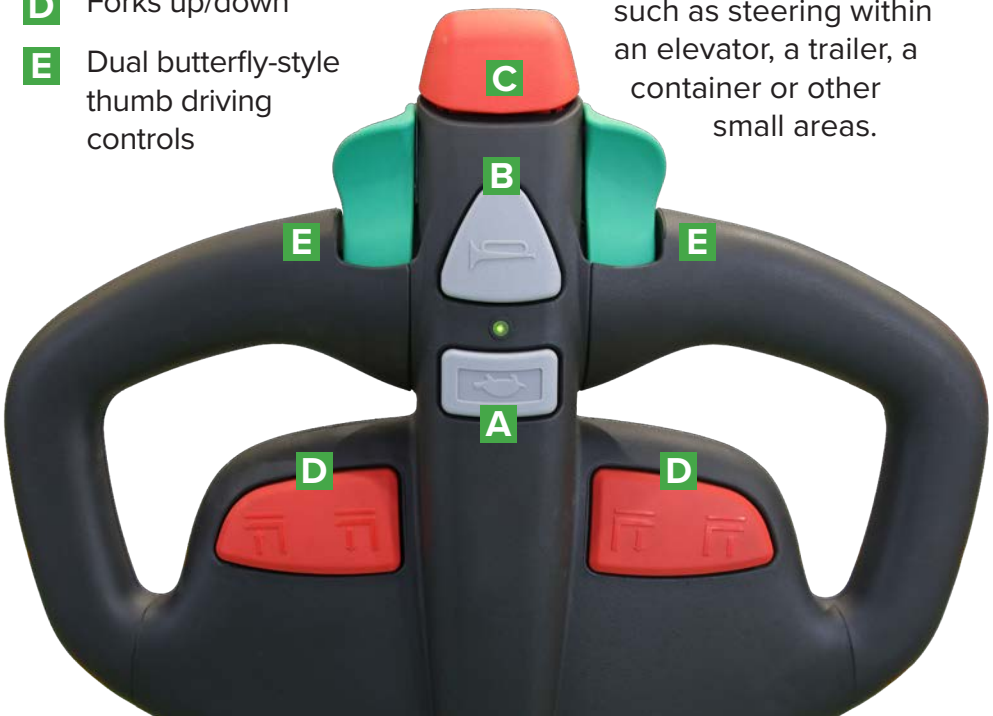


Keyless PIN code lock or RFID card access simplifies access when several users operate one truck.

A Curtis battery discharge indicator with hour meter displays state of charge and tracks usage for maintenance scheduling.

- **A** Turtle speed button
- **B** Horn button
- **C** Emergency belly button
- **D** Forks up/down
- **E** Dual butterfly-style thumb driving controls

Turtle button allows the truck to operate with the handle in the upright position (pinwheel capability), providing safe and easy operation within confined spaces such as steering within an elevator, a trailer, a container or other small areas.



HIGHLY PRODUCTIVE AND RUGGED

- Powerful AC drive motor delivers smooth acceleration, strong torque, and precise control
- Rugged steel chassis frame is stable and reliable, ensuring a long service life
- Rigid connection of drive end with battery compartment
- Emergency power disconnect
- Enclosed design and one-piece steel battery cover provides protection to the main components and delivers higher waterproof and dustproof ratings





A wear-resistant and shock-absorbing polyurethane traction wheel ensures superior traction.



Compact design allows for an extremely small turning radius, making it highly-maneuverable in tight environments.



An air spring returns the tiller of the truck to its vertical position smoothly, reducing wear.



A unique fork design allows for easy entrance and exit from pallets.



Capacity up to 4,500 lbs and ability to overcome ramps up to 12/20% (laden/ unladen) makes the PT45L-Li suitable for work in loading docks and on delivery operations.

HIGHLY PRODUCTIVE AND RUGGED

The PT45L-Li is equipped with a thermal heated battery designed specifically for cold storage and low-temperature environments. This advanced heating system helps maintain optimal battery performance and power delivery even in extreme conditions, allowing the truck to operate efficiently in refrigerated warehouses, freezers, and other sub-zero applications down to -0.4 degrees Fahrenheit.

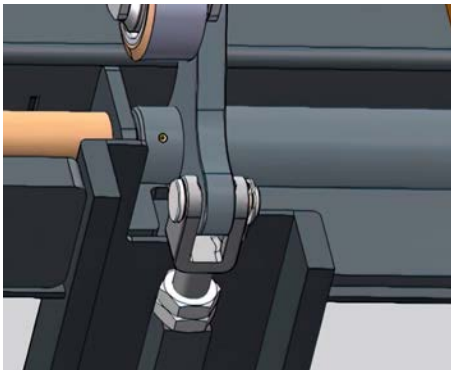




Suspension casters enhance stability and ensure smooth transport.



The frame is surrounded by stamped steel, providing protection to the truck's components and the operator's feet during work.



Grease nipples on axles help reduce wear, extending equipment lifespan.

EASY MAINTENANCE



Convenient and fast access to all components. No special tools required.



External programming port makes parameter adjustments and maintenance efficient.



Easily check truck's condition and troubleshoot with Curtis controller and CAN-bus technology.

LONG LASTING AND SAFE LITHIUM POWER

NOBLELIFT uses LiFePO4 chemistry, the longest lasting and safest lithium battery chemistry available. Our lithium batteries are equipped with a Battery Management System (BMS), thermal management system, and an automotive-grade DC high-voltage control system. BMS manages charging and discharging data to ensure safety throughout its life cycle.

3 YEAR WARRANTY

PT45L-Li Pallet Jacks have a 3 year or 6,000 hour warranty on the lithium battery cells.

ADVANTAGES OF LITHIUM POWER

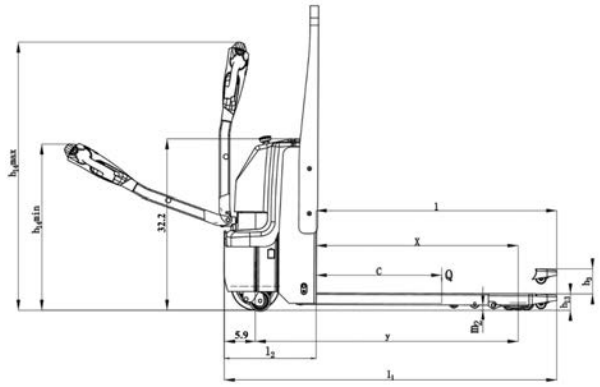
LITHIUM BATTERY ADVANTAGES

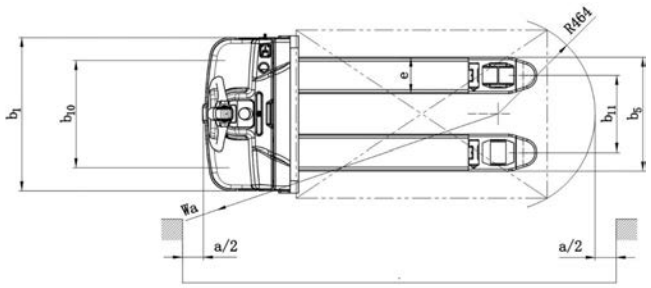
Lead-Acid Battery		Lithium Battery
Lower fleet availability - Work is interrupted because battery needs to be fully charged before next use	**Productivity - Memory Effect**	100% Fleet availability - Opportunity charging allows battery to be charged in between use
Periodic battery replacement	**Service Life**	Batteries last 3 times longer and do not need to be replaced
Outsourced or in-house maintenance personnel required	**Ongoing Maintenance**	No maintenance cost
8-10 Hours - 2 or more batteries per lift truck	**Charge Duration**	5 Hours - 1 Battery per lift truck
Build an expensive battery room with ventilation	**Battery Room**	No battery room needed
Releases hydrogen while charging - Can result in explosion - Acid burns can happen during maintenance	**Dangerous Substances**	No dangerous substances
Power loss	**Power Savings**	No power loss - Reduces energy consumption by 35%

Fast-charging maintenance-free Lithium battery is fully charged in 5 hours. Battery can be opportunity charged during user breaks and during shift changes which allows the truck to run continuously through multi-shift operations. No battery changes are necessary.



Built-in charger provides added convenience.





Identification				
1.2	Model		PT45L-Li	
1.3	Drive (electric – battery or mains, diesel, petrol, fuel gas, manual)		Lithium	
1.4	Type of operation (hand, pedestrian, standing, seated, order picker)		Pedestrian	
1.5	Load capacity / rated load	Q (lb)	4,500	
1.6	Load center distance	c (in)	24	
1.8	Load distance, center of drive axle to fork	x (in)	38	
1.9	Wheel base	y (in)	49.5	
Weights				
2.1	Service weight	lb	853	
2.2	Axle loading, laden front / rear	lb	2,650 / 2,612	
2.3	Axle loading, unladen front / rear	lb	683 / 170	
Wheels, Chassis				
3.1	Tires (solid rubber, superelastic, pneumatic, polyurethane)		Polyurethane (PU)	
3.2	Tire size, front	∅xw (in)	∅ 9.1 x 2.8	
3.3	Tire size, rear	∅xw (in)	∅ 2.9 x 4.33	
3.4	Additional wheels (dimensions)	∅xw (in)	∅ 3.9 x 1.6	
3.5	Wheels, number front / rear (x = driven wheels)		1x+2/4	
3.6	Tread, width, front	b_{10} (in)	20.1	
3.7	Tread, width, rear	b_{11} (in)	14.4	20.2
Basic Dimensions				
4.4	Lift	h_3 (in)	7.5	
4.9	Height of tiller in drive position min./max.	h_{14} (in)	30.9 / 50.4	
4.15	Height, lowered	h_{13} (in)	3.1	
4.19	Overall length	l_1 (in)	62.6	
4.20	Length to face of forks	l_2 (in)	17.3	
4.21	Overall width	b_1 (in)	28.7	
4.22	Fork dimensions	s/e/l (in)	2.4 / 6.8 / 45	
4.25	Width between forks	b_5 (in)	21.3	27
4.32	Ground clearance, center of wheelbase	m_2 (in)	1	
4.34	Right Angle Stack with 32x48 pallet	Ast (in)	74.23	
4.35	Turning radius	Wa (in)	56	
Performance Data				
5.1	Travel speed, laden / unladen	mph	3.1 / 3.7	
5.2	Lift speed, laden / unladen	in/s	1 / 1.4	
5.3	Lowering speed, laden / unladen	in/s	2 / 1.4	
5.8	Max. gradeability, laden / unladen	%	12 / 20	
5.10	Service brake		Electromagnetic	
E-Motor				
6.1	Drive motor rating S2 60 min	HP	2.3	
6.2	Lift motor rating at S3 10%	HP	1.1	
6.4	Battery voltage, nominal capacity K2	V/Ah	24V/100Ah	
6.5	Battery weight	lb	65±1	
6.6	Energy consumption acc. to VDI cycle	kWh/h	0.187	
Others				
8.1	Type of drive control		AC-speed control	
8.4	Sound level at driver's ear acc. to EN 12053	dB (A)	<70	

NOBLELIFT reserves the right to make technical changes and improvements to our products to maintain or enhance the quality, delivery, and efficiency.

A GLOBAL LEADER

NOBLELIFT is a global leader in Lithium Technology. We manufacture more than 200 categories and around 30 series of each product. Our products are designed to meet different application demands and are well accepted by our customers in more than 100 countries and regions in Europe, America, Asia, Africa and more.

Products include: sit-down forklifts, rough terrain forklifts, narrow aisle forklifts, walkie-stackers, order pickers, electric pallet trucks, scissor lifts, tuggers, tow tractors, scrubbers/sweepers, lift tables, manual pallet jacks and more.



FORKLIFTS



NARROW AISLE



STACKERS



POWERED PALLET TRUCKS



SCISSOR LIFTS



TUGGERS



SCRUBBERS

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HABLAMOS ESPAÑOL

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OVER 40 YEARS OF INDUSTRY EXPERIENCE!

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