

NOBLELIFT

XWS140



Walkie Reach Truck

noblelift.nz

HIGHLIGHTS

- ▶ Offset Positioning-for tight spaces.
- ▶ Pantograph reach mechanism.
- ▶ Proportional hydraulics -for precision handling.
- ▶ Smooth proportional carriage tilt.
- ▶ Electric power steering(EPS).
- ▶ Full free lift mast (three stage mast models).
- ▶ Adjustable straddle legs.
- ▶ 24V fully electric AC drive.
- ▶ Lithium battery: 25.6V/206Ah.
- ▶ Fast charging 2-3 hours.
- ▶ Smart handle has LCD display with battery indicator, hour meter and fault code.
- ▶ Pinwheel turning-drive with tiller in vertical position.
- ▶ Ergonomic control handle with horn and emergency belly button, dual butterfly-style Finger Tip for traveling.
- ▶ Travel speed: 5.5km/h(unloaded), 5.5km/h(loaded).
- ▶ Speed reduction in turns.
- ▶ Gradeability: 12% (unloaded), 8% (loaded).
- ▶ USB connector.



XWS-140

1400 kg Capacity

Walkie Reach Truck

The XWS-140 Lithium Walkie Reach Trucks, with their breakthrough offset positioning, proportional hydraulics, and pantograph reach mechanism, provide the versatility of two trucks in one -acting as both a counterbalanced lift and a straddle reach truck depending on operator needs. Electric Power Steering (EPS) delivers smooth, precise handling with minimal effort. Operators can navigate tight aisles, position loads with confidence, and work longer without fatigue. With easier steering comes safer operation, faster workflows, and lower maintenance -giving your team the control they need to stay productive all day.



OFFSET POSITIONING

Offset Positioning: A Leap for Safety and Storage Density

Offset Positioning allows operators to turn the tiller 90° and stand safely at the side of the machine instead of directly behind it. This positioning delivers three critical advantages:

- **Unmatched Visibility:** Operators have a clear view of both the load and surroundings during pick and place operations.
- **Space Savings:** The XWS-140 requires just 2616mm to right-angle stack a standard 1000x 1200mm pallet, dramatically shrinking aisle width requirements.
- **Safer Operation:** By removing the operator from behind the truck, Moon Walking significantly reduces the risk of injury, product damage or fixture damage.

Versatility of Two Trucks in One

When the pantograph is extended, the XWS-140 functions like a counterbalanced truck, supporting any size pallet or load and allowing direct placement from height to the floor.

When retracted, the unit operates like a compact straddle truck, executing extremely tight turns even with a load. This makes it ideal for narrow aisles, tight storerooms, and sideloading flatbed trailers where maneuverability is essential.



PINWHEEL CAPABILITY FOR CONFINED SPACES



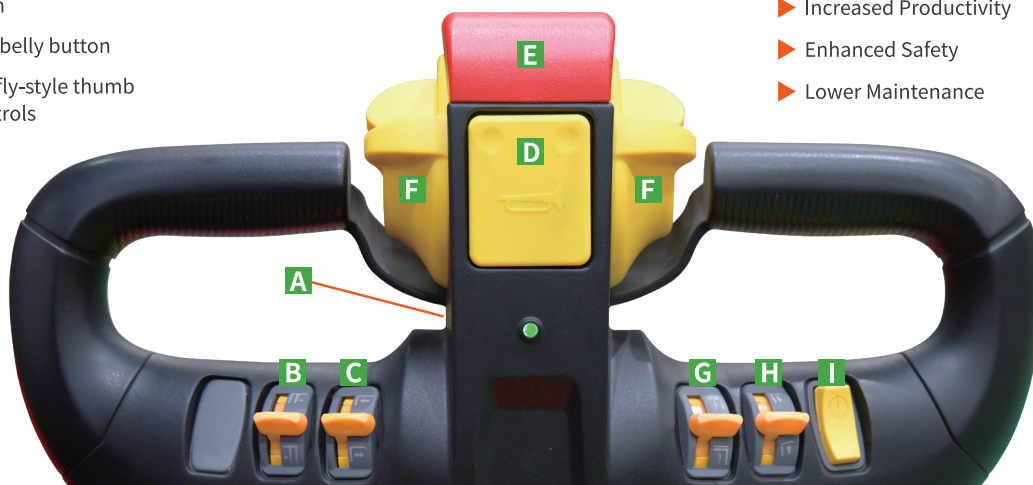
By holding the Turtle button down, the XWS-140 Walkie Reach Truck will operate with the handle in the upright position (pinwheel capability), providing safe and easy operation within confined spaces. Dual Butterfly-style thumb controls allow for effortless traveling. Automatic speed reduction, while turning, helps to prevent product damage.

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

- A** Turtle speed button (backside)
- B** Forks left/right
- C** Forks forward/back wards
- D** Horn button
- E** Emergency belly button
- F** Dual butterfly-style thumb driving controls
- G** Forks up/down
- H** Fork tilt up/down
- I** Offset Positioning

Electric Power Steering (EPS) Key Benefits

- ▶ Reduced Operator Effort
- ▶ Improved Maneuverability
- ▶ Increased Productivity
- ▶ Enhanced Safety
- ▶ Lower Maintenance



Two-Stage Mast-Provides 140mm of free lift, allowing pallets to be raised off the ground without extending the mast, keeping overall height under 2106mm.

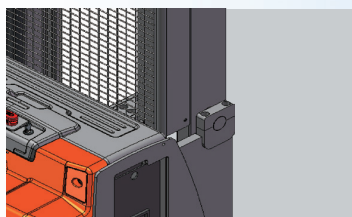
Three-Stage Mast-Delivers full free lift, offering maximum flexibility when working under low ceilings.

The smooth proportional carriage tilt retains loads during transit and compensates for unlevel floors during pick and place operations.



Mast layout is optimized for a wide view and clear visibility while operating.

Transparent protective panels/wire mesh available.



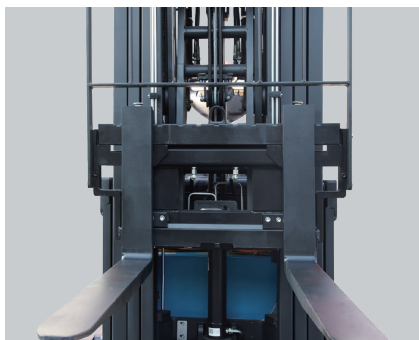
Modular straddle leg rollers can be configured two ways: a standard floating dual-roller setup with $\Phi 102\text{mm}$ wheels, or single large $\Phi 230\text{mm}$ wheels for better performance on uneven ground or limited outdoor applications.



Up to 8 / 12%
(laden/ unladen)



RUGGED AND SMART DESIGN/EASY MAINTENANCE



Integrated side shift allows for movement of the fork carriage without having to move the entire stacker.



Proportional hydraulics ensure precise load positioning, while reducing the risk of product or rack damage.



Double hydraulic cylinders provide balanced load movement and prolonged component life.



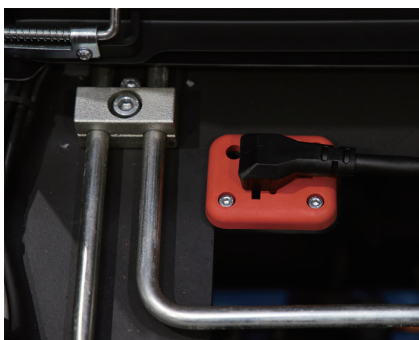
Frame is surrounded by steel to protect the truck's components and the operator's feet during work. Safety guard, enhancing vehicle operation and driving safety.



Innovative steel CJ channel mast design delivers added strength, stability and performance.



Modular outrigger structures and modular mast structures allow customers to adjust outrigger width and select mast height as needed, significantly reducing vehicle acquisition costs.



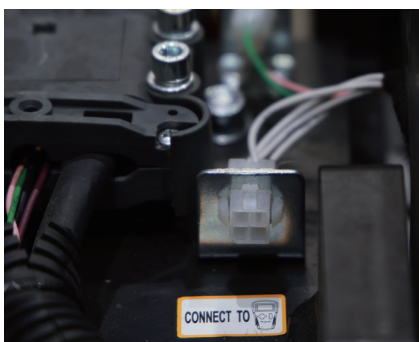
Built-in Lithium Battery Charger Safety Outlet.



Emergency stop button. USB connector for charging and powering of additional devices during operations.



Optional fork-mounted camera with HDMI color monitor provides an unrestricted view of the pallet and racking.



External programming port for diagnosing faults without removing the cover.



Engineered for service ease, Drive wheel rim are quickly and conveniently accessible.



Easily check truck's condition and troubleshoot with 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 intelligent control system. BMS manages charging and discharging data to ensure safety throughout its life cycle.

XWS-140 Walkie Reach Trucks have a 5 year or 10,000 hour warranty on the lithium battery pack.



ADVANTAGES OF LITHIUM POWER

Lead-Acid Battery

Lower fleet availability - Work is interrupted because battery needs to be fully charged before next use.

Periodic battery replacement.

Outsourced or in-house maintenance personnel required.

8-10 Hours - 2 or more batteries per lift truck.

Build an expensive battery room with ventilation.

Releases hydrogen while charging - Can result in explosion - Acid burns can happen during maintenance.

Power loss.

**Productivity-
Memory Effect**



**Service
Life**



**Ongoing
Maintenance**



**Charge
Duration**



**Battery
Room**



**Dangerous
Substances**



**Power
Savings**



Lithium Battery

100% Fleet availability - Opportunity charging allows battery to be charged in between use.

Batteries last 3 times longer and do not need to be replaced.

No maintenance cost.

2-3 Hours - 1 Battery per lift truck.

No battery room needed.

No dangerous substances.

No power loss - Reduces energy consumption by 35%.

Fast-charging maintenance-free Lithium battery is fully charged in 2-3 hours. Battery can be opportunity charged during userbreaks and during shift changes which allows the truck to run continuously through multi-shift operations. No battery changes are necessary.

Distinguishing mark

1.2	Manufacturer`s type designation		XWS-140
1.3	Power		Battery
1.4	Operator type		pedestrian
1.5	Load Capacity / rated load	Q(kg)	1400
1.6	Load center distance	c(mm)	600
1.8	Load distance, center of drive axle to fork	x(mm)	376
1.9	Wheelbase	y(mm)	1365

Weight

2.1	Service weight	kg	2290	2225
2.2	Axle loading, fork advanced, unladen front/rear	kg	1335/955	1295/93
2.3	Axle loading, fork retracted, unladen front/rear	kg	1465/825	1425/800
2.4	Axle loading, fork advanced, laden front/rear	kg	420/3270	415/3210
2.5	Axle loading, fork retracted, laden front/rear	kg	1155/2535	1135/2490

Tires, Chassis

3.1	Tires		Polyurethane (PU)
3.2	Tire size, front	xW (mm)	Φ250 x 82
3.3	Tire size, rear	xW (mm)	Φ102 x 70 (Φ230 x 80)
3.5	Wheels, number front / rear (x=driven wheels)		1x+4 (1x+2)
3.7	Tread, rear	b11 (mm)	970/1070/1170/1270/1370 – adjustable

Dimensions

4.1	Tilt of mast/fork carriage forward/backward	°	3 / 5
4.2	Lowered mast height	h1 (mm)	2206
4.3	Free Lift height	h2 (mm)	1090
4.4	Lift height	h3+h13 (mm)	4800
4.5	Extended mast height	h4 (mm)	5870
4.9	Height of tiller in drive position min./ max.	h14 (mm)	965/1305
4.15	Height, lowered	h13 (mm)	45
4.19	Overall length	l1 (mm)	2309
4.20	Length to face of forks	l2 (mm)	1159
4.21	Overall width	b1/b2 (mm)	870/(1080/1180/1280/1380/1480 – adjustable, Φ102 x 70)/(1088/1188/1288/1388/1488 – adjustable, Φ230 x 80)
4.22	Fork dimensions	s/e/l (mm)	40x100x1150
4.25	Distance between fork- arms	b5 (mm)	220-760 - adjustable
4.26	Distance between wheel arms	b4 (mm)	860/960/1060/1160/1260 - adjustable, Φ102 x 70 (852/952/1052/1152/1252 - adjustable, Φ230 x 80)
4.28	Reach distance	l4 (mm)	575
4.32	Ground clearance, center of wheelbase	m2 (mm)	50
4.33	Aisle width for pallets 1000X1200 crossways	Ast (mm)	2616
4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)	2662
4.35	Turning radius	Wa (mm)	1595

Performance data

5.1	Travel speed, laden/ unladen	km/h	5.5/5.5
5.2	Lift speed, laden/ unladen	m/s	0.13/0.20
5.3	Lowering speed, laden / unladen	m/s	0.25/0.23
5.8	Max. gradeability, laden / unladen	%	8 / 12
5.10	Service brake		electromagnetic

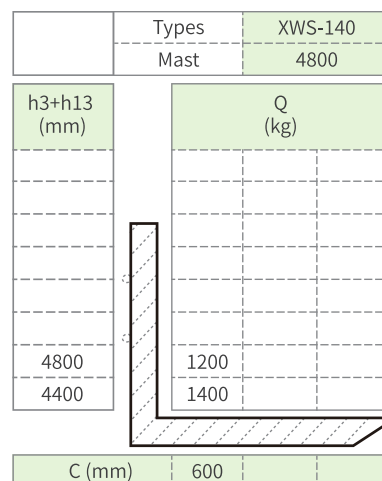
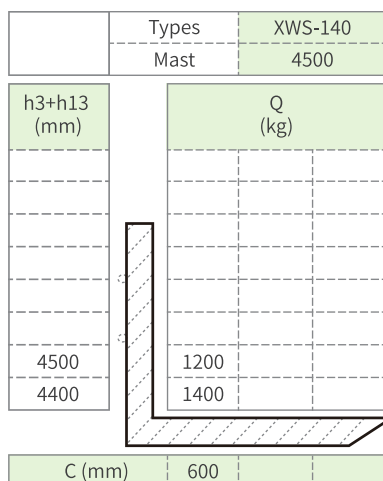
Electric - Motor

6.1	Drive motor rating S2 60min	kW	2.6
6.2	Lift motor rating at S3 15%	kW	4.5
6.4	Battery voltage, nominal capacity K5	V/Ah	24 / 360 (Lead-acid) (24 / 270 optional) 25.6 / 206 (Li-ion)
6.5	Battery weight	kg	295 230
6.6	Energy consumption acc. to VDI cycle	kWh/h	1.8

Add. data

8.1	Type of drive control		AC-Speed Control
8.4	sound level at driver`s ear acc.to EN 12053	dB(A)	<75
	Sideshift (integrated, standard)	mm	+/- 70

Mast table				
Designation	Lowered mast height h1 (mm)	Free lift height h2 (mm)	Lift height h3+h13 (mm)	Extended mast height h4 (mm)
Two stage mast	1856	140	2700	3770
	2106	140	3200	4270
Three stage mast FFL (Full-Free-Lift)	1941	824	4000	5070
	2106	990	4500	5570
	2206	1090	4800	5870



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