

WE PROMISE | WE DELIVER

**NOBLELIFT**  
CANADA 

# RT20SP

Stand-Up Pantograph Reach Truck  
Capacity 2000KG - 4400lbs



Lithium  
Battery



Compact  
Design



High  
Performance



Easy  
Maintenance



Low Noise



CSA UL

# Productive. Solid. Smart.



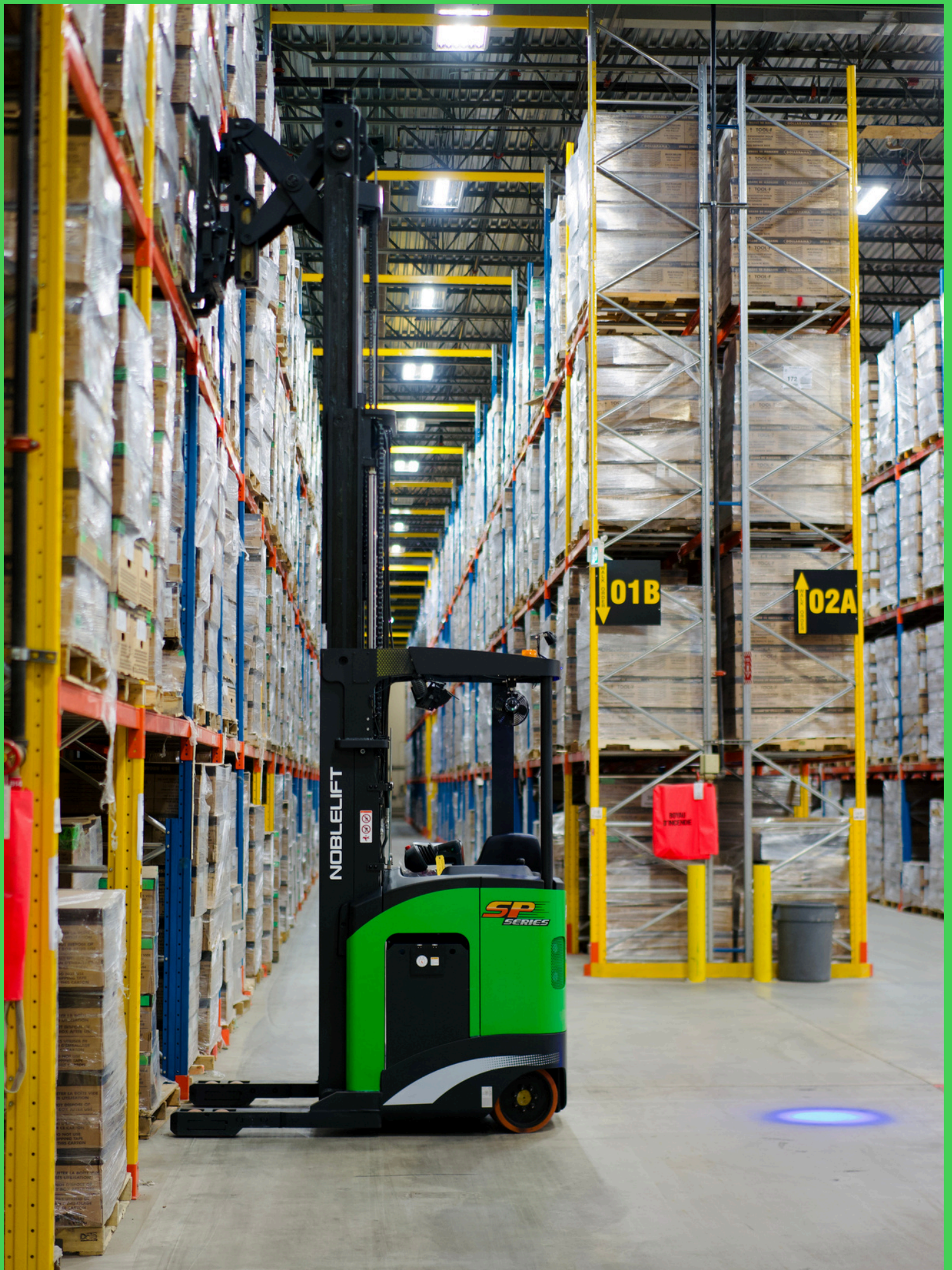
## RT20SP

The RT20SP Lithium Single & Double Scissor Stand-Up Pantograph Reach Trucks are designed for narrow aisle operation, offering lift heights from 177" to 452" and fork reach distances from 22.4" to 41.7". Featuring high-speed lifting and lowering, these reach trucks are powered by a lithium battery for multi-shift operation. With exceptional maneuverability and impressive high-reach capabilities, they are the perfect solution for demanding applications requiring efficient material handling in tight spaces and at elevated heights.

## Highlights

- ✓ American Curtis Intelligent Computer Control system
- ✓ 36V fully electric AC system
- ✓ Lithium battery: 36V/560Ah & Charger: 36V/200A
- ✓ Large LED display showing lifting weight, height, speed, power, steering, fault codes, alarms, and more
- ✓ Fast charging in just 2.5 hours
- ✓ On-board Curtis self-diagnostics system
- ✓ Fork tilt leveling for smooth operation
- ✓ Side shifter for easy load positioning
- ✓ Travel speed: 5.9mph (unloaded), 5.6mph (loaded)
- ✓ Automatic speed reduction during turns for enhanced safety
- ✓ Cold store package







## Exceptional Design, Unmatched Performance

Automatic speed reduction during turns enhances safety, stability, and operator comfort while minimizing the risk of product damage.



## Enhanced Maneuverability and Precision Control

Dual independent AC drive motors with separate controllers enhance maneuverability for smooth and precise turning. Advanced AC drive and gearbox technology ensure accurate control and optimal travel speed.





A single-button tilt control system enhances safety by restricting cargo tilt when the forks are raised.



The multi-functional handle provides precise control over key vehicle functions, including forward and backward travel speed, side shifting, and proportional lifting and lowering.



The compact, ergonomic steering wheel with a knob ensures comfortable and effortless operation.



The floor suspension system adjusts to the operator's weight, reducing impact and vibration for a smoother ride.



The adjustable backrest and hip pad are designed to contour the body, providing optimal comfort for the operator throughout the entire shift.



The adjustable armrest ensures maximum comfort for operators of all heights.



## Innovative Design, Superior Performance

- ✓ The scissor structure ensures smooth extension while reducing vibration and sway.
- ✓ Seamless movement transitions are achieved through balanced shear force, providing powerful torque. At a maximum height of 452", it effortlessly lifts up to 1,200 lbs.
- ✓ The compact folding design minimizes the truck's footprint, optimizing space efficiency.
- ✓ A cushioned end-of-retraction system reduces impact and enhances stability.



- ✓ The cab design, open-view mast, and overhead guard provide the operator with a clear line of sight to the load and surroundings, enhancing efficiency and safety.



- ✓ RT15/20SP (Single Reach)  
Fork reaching distance- 22.4"
- ✓ RT15DP (Double Reach)  
Fork reaching distance 41.7"
- ✓ The wireless mast-mounted fork view camera with HDMI color monitor offers an unobstructed view of the pallet and racking, boosting productivity and enhancing safety.

# Trustworthy Performance and Safety



The emergency power button instantly disconnects power in critical situations, ensuring the safety of both the operator and the cargo.



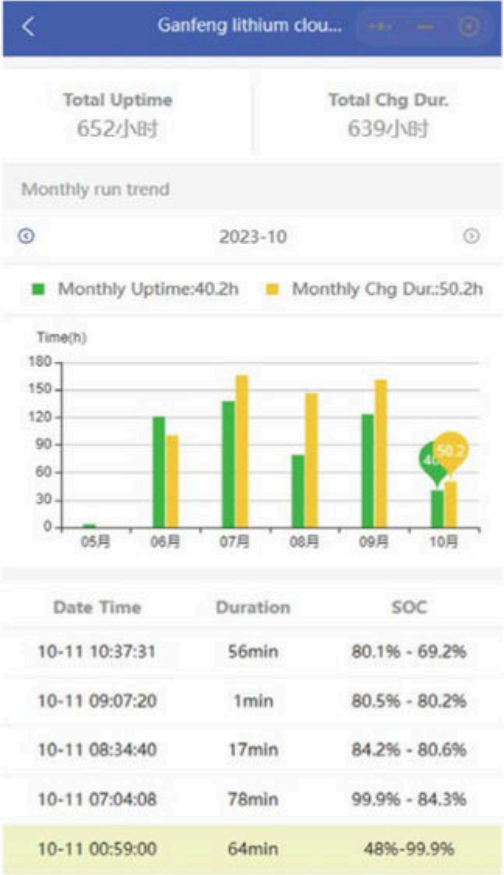
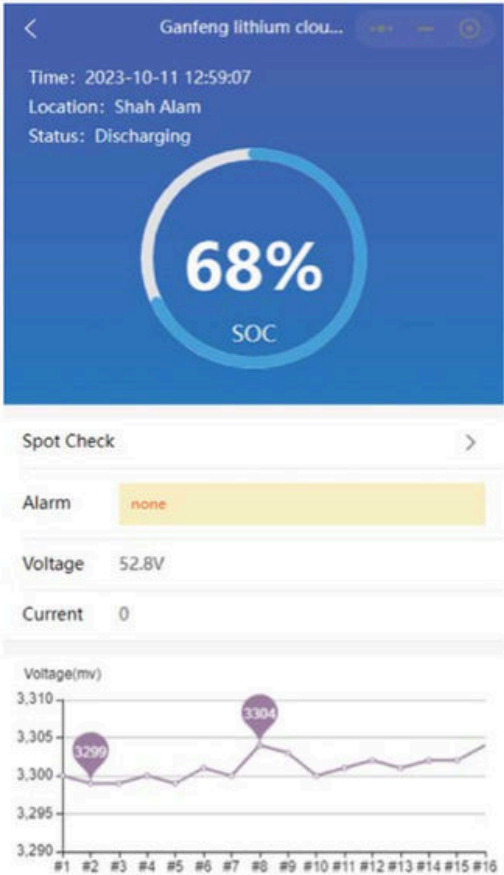
Features LED headlights, a safety blue light, and a buzzer to ensure safe operation while driving.



The dual-brake/presence pedal system enhances safety by preventing the forklift from moving unless both pedals are pressed.

## Lithium Smart Cloud Platform

- ✔ The wireless 4G advanced battery monitoring system enables remote tracking of battery performance and system data.
- ✔ The Smart Cloud platform continuously monitors the battery's operational status, ensuring the safety of both personnel and equipment.





- ✓ The large LED screen provides easy access to vital information, displaying lifting weight, height, speed, power, steering, fault codes, alarms, and more.



- ✓ Large capacity battery for multiple shift operation. Side extraction reduces maintenance time.



- ✓ A low step height and a wide entry is ideal for operators who are frequently getting on and off the forklift.



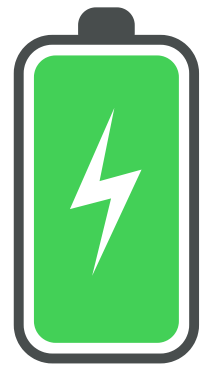
- ✓ USB connector for charging and powering of additional devices during operations.

# Advantages of Lithium-ion Power

## Effortless Charging for Continuous Operation

The fast-charging, maintenance-free lithium battery reaches a full charge in just 2.5 hours. It supports opportunity charging during breaks and shift changes, enabling the truck to operate seamlessly through multi-shift schedules without the need for battery replacements.

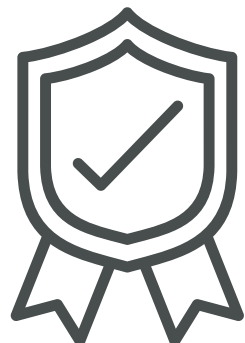
- ✓ 36V/560Ah Lithium-iron battery has connection terminals with screws and is protected inside the steel case.
- ✓ 36V/200A Charger included standard.



## Designed for Operator Comfort and Control

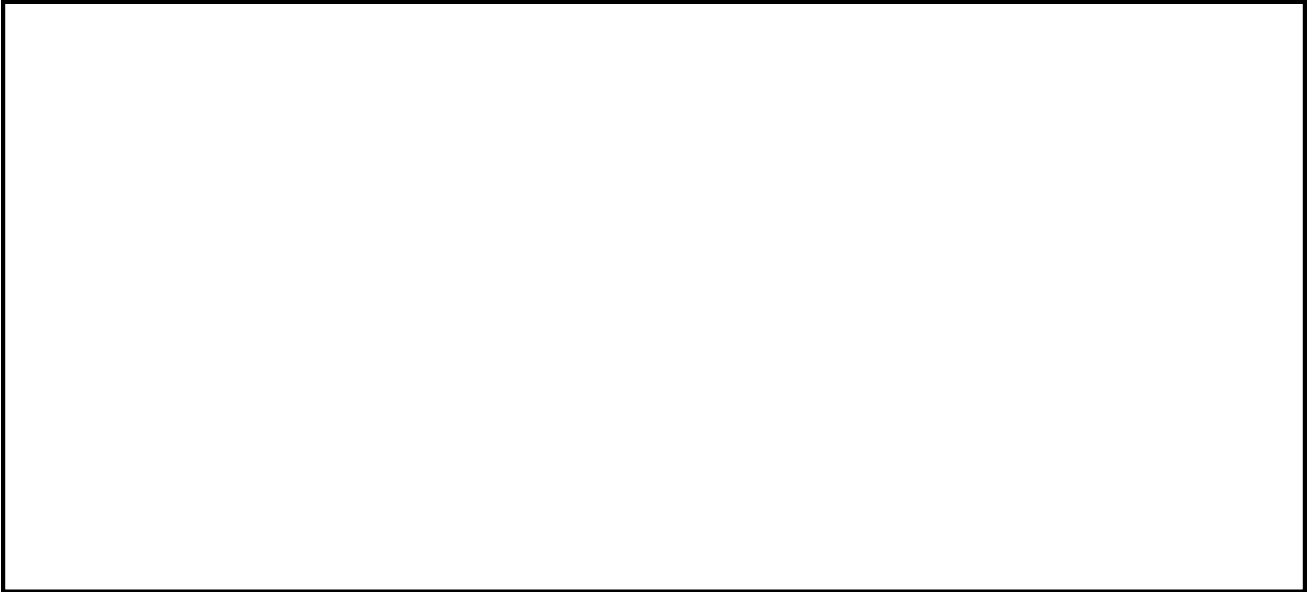
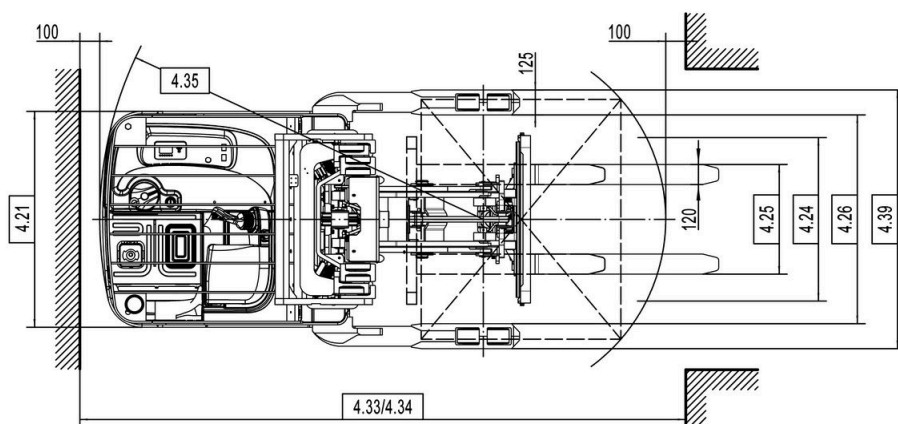
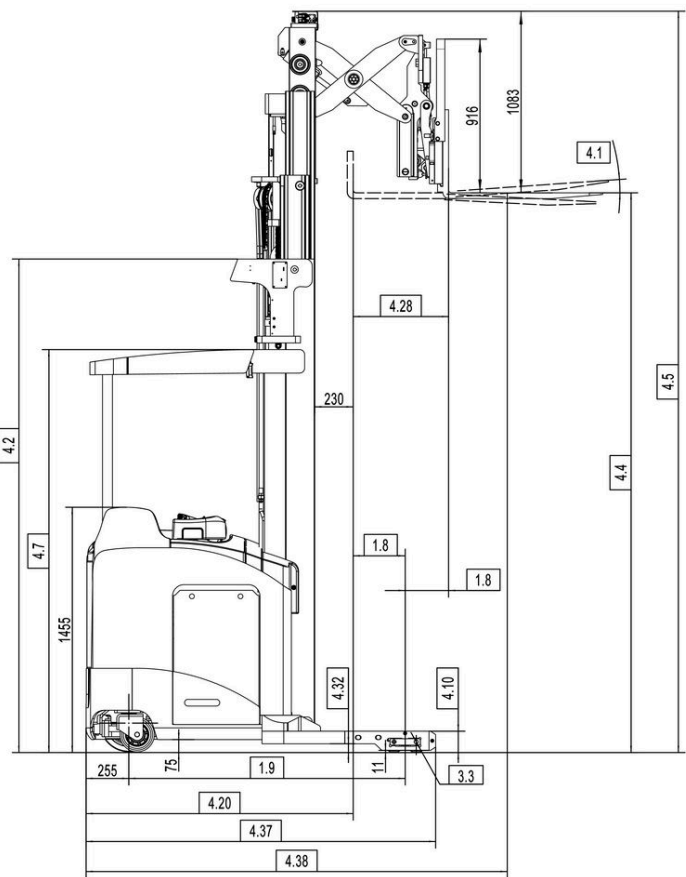
Noblelift utilizes lithium-ion phosphate batteries, known for their exceptional longevity and safety. These lithium-iron batteries feature a Battery Management System (BMS), a thermal management system, and an automotive-grade DC high-voltage control system.

*RT20SP Stand-Up Reach Trucks have a **10-year** or **20,000 hours warranty** on the lithium-ion battery cells.*



Identification						
1.1	Manufacturer				NOBLELIFT	
1.2	Model				RT20SP	
1.3	Prime Mover				electric	
1.4	Operator type				stand	
1.5	Load capacity		1.5	kg / lb	2000	4400
1.6	Load centre		1.6	mm / in	600	24
1.8	Load distance		1.8	mm / in	See Table 2	
1.9	Wheelbase		1.9	mm / in	See Table 2	
2.1	Weight	less battery		kg / lb	See Table 1	
Tires						
3.1	Tire Type	load, castor, drive			Poly	
3.2	Tires	power unit side, drive		mm / in	Ø343x140	Ø13.5x5.5
3.3	Tires	load side, standard wheel		mm / in	Ø127x74	Ø5x2.9
3.4	Castor Wheel	size		mm / in	Ø205x101	Ø8x4
3.5	Wheels, (x=driven wheels)	number power unit side/load side			1x, 4 / 1	1x, 4 / 1
3.6	Tread width	power unit side	3.6	mm / in	800	31.5
Basic Dimensions						
4.1	Tilt: Forkcarriage	forward/backward	angle	deg	3/4	
4.20	Mast Lowered Height	collapsed height	4.2	mm / in	See Table 1	
4.3	Free lift		4.3	mm / in	See Table 1	
4.4	Lift height		4.4	mm / in	See Table 1	
4.5	Extended mast height		4.5	mm / in	See Table 1	
4.7	Overhead Guard Height	overhead guard (cabin)	4.7	mm / in	See Table 1	
4.1	Outrigger Height	std. wheel / Ø 102 / Ø 127 / Ø 152	4.1	mm / in	125	4.9
4.2	Headlength		4.2	mm / in	See Table 2	
4.21	Width Overall	power unit side	4.21	mm / in	1080	42.5
4.22	Fork Dimensions	standard / optional lengths	thxwxl	mm / in	40x100x1070	1.5X4X42
4.23	Fork Carriage	DIN 15173 class/form A, B			2A	
4.24	Fork Carriage Width	incl. load backrest	4.24	mm / in	820	32.3
4.25	Width Across Forks	with sideshifter / w.o. sideshifter	4.25	mm / in	200-760	7.9-29.9
4.26	Inside Straddle	in 25 mm increments	4.26	mm / in	See Table 1	
4.28	Reach	with sideshifter / w.o. sideshifter	4.28	mm / in	570	22.4
4.32	Ground Clearance	centre wheelbase	4.32	mm / in	50	2
4.33	Working Aisle Width	1000 x 1200 traverse	Ast	mm / in	See Table 2	
4.34	Working Aisle Width	800 x 1200 length	Ast	mm / in	See Table 2	
4.35	Turning Radius		Wa	mm / in	See Table 2	
4.37	Length over Outriggers		4.37	mm / in	See Table 2	
4.38	Length Overall		4.38	mm / in	See Table 2	
4.39	Width outrigger		4.39	mm / in	See Table 1	
Performance Data						
5.1	Travel speed - standard			km/h/mph	9/9.5	5.6/5.9
5.2	Lift Speed	w./w.o. load		m/s /fps	0.35/0.5	1.15/1.64
5.3	Lower Speed	w./w.o. load		m/s /fps	0.50/0.50	1.64/1.64
5.4	Reach Speed	w./w.o. load		m/s /fps	0.15/0.15	0.49/0.49
5.8	Max. Gradeability	w. load		%	5	
5.1	Brakes	service - applied / released & parking			Electric	
Motors						
6.1	Traction Motor	(60 min. rating)		kW	5.5	
6.2	Lift Motors	(15% on time)		kW	11	
6.3	Max. Battery Size	DIN 43531/35/36 A, B, C, no	lxwxh	mm / in	See Table 2	
6.4	Lead-acid Battery Voltage	nominal capacity 5h		V/Ah	See Table 2	
6.5	Lithium Battery Voltage	nominal capacity 2h		V/Ah	See Table 2	
6.6	Battery weight	minimum		kg / lb	See Table 2	
8.1	Type of Controller				AC	





Authorized Dealer