LI-ION TECHNOLOGY

SST15+

Electric Pedestrian Stacker

Lifting height: : 2000-3500 mm / Load capacity: 1500 kg

Variable Speed Control

Intelligent & Efficient

Rugged & Durable

Easy & Comfortable

sumachay+ LIFTS

Variable Speed Control on Lifting & Lowering

Comfortable and efficient thanks to our patented intelligent handle and control system, ideal for replacing manual & semi-electric stackers, for light use in narrow warehouse environments with efficient and easy pallet stacking.

The proportional lowering brings high efficiency for exact pallet placement and more precise control when compared to the normal fixed speed of lifting & lowering.

Variable speed control by proportional control knob, keeps lifting and lowering smooth, stable, safe and engergy saving.

Precise Control

Proportional lifting & lowering

The variable speed control ensures the stacker goes up and down smoothly, minimizing the mechanical shock and vibration, ensuring fragile loads are gently placed on racking or the floor, and reducing the impact of noise and vibration on operators.

Lowering buffering

Automatic lowering speed descent with soft buffering when the fork height is lowered to around 10cm from the ground, effectively protects the safety of the cargo, low noise and small vibration.

High efficiency

The variable speed control brings accurate response for adjusting the lifting & lowering speed according to the actual situation, the operator can easily complete the task and improve the working efficiency.

Energy saving

Compared to the traditional fixed lifting & lowering speed, variable speed can be adjusted according to the load and height by operator, reducing energy waste and improving energy utilization rate.

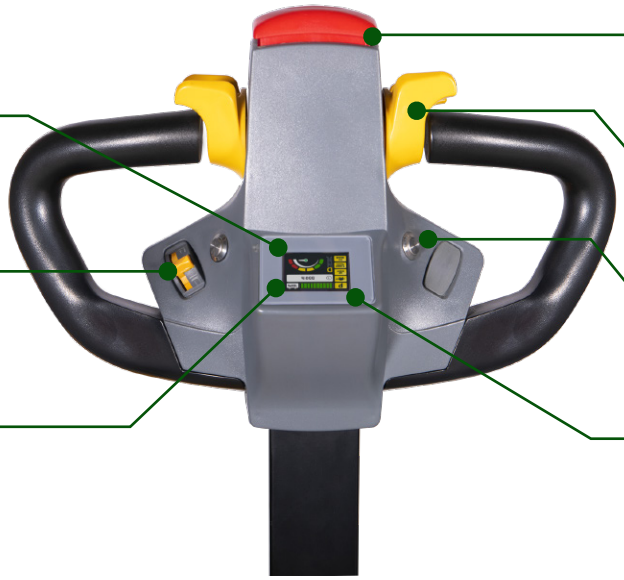
Longer service life

Variable speed control can reduce the mechanical impact and friction during lifting & lowering, reduce the wear and tear on the chassis, mast, bearings, and enable a longer service life.

Intelligent & Efficient

Our patented multifunctional intelligent tiller handle is unique design for quick fault diagnosis, enabling an easier service, shorter service time and lowered labor costs.

Multifunctional intelligent tiller handle



- Recharging Alert
- Lifting & Lowering
- Fault code display
- Emergency reverse switch
- Forward and backward control knob
- Horn
- Battery power

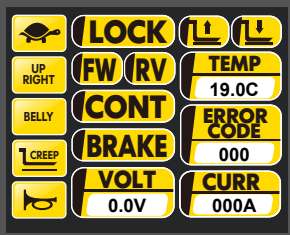
Easy Maintenance

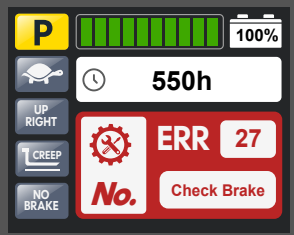
UART

Serial communication technology

Single wiring harness communication from tiller handle to controller system. Simple, Durable and Stable.

- Low after-sales service cost
- Quick & easy fault diagnosis
- Everyone can be an expert





Operation status & fault diagnosis are integrated onto the tiller handle display for easy troubleshooting.

Operator Preferred

Turtle Speed **01**

Enable operator to choose different speed modes based on their experience and the specific work environment.

Up-Right Drive **02**

Easily maneuvered with the handle in the vertical position by pressing the turtle-speed button.

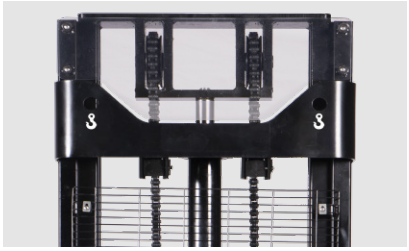
Engineering Mode ***(Brake Release)*** **03**

When truck is down, release the brake to move the unit manually.

Rugged & Durable

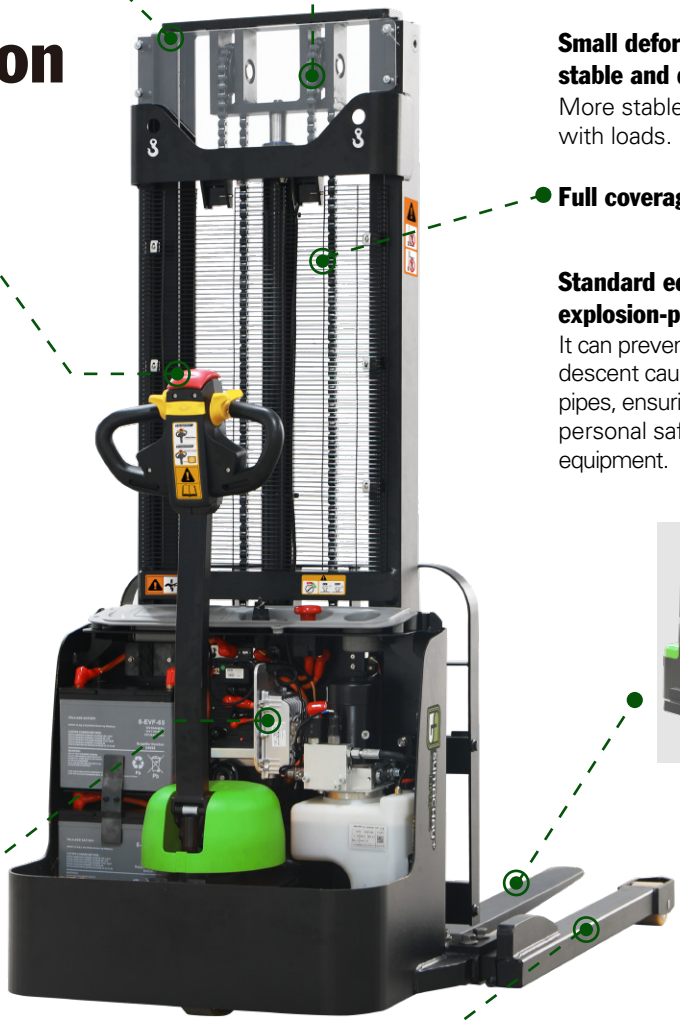
Due to a high-strength frame and mast design and solid materials used, the deformation of the frame, mast, and forks is small.

Longer service life
Mast: Standard C+H channel steel
Frame: Steel plate thickness of 5mm



Double-chain design
Compared with single-chain design, it has higher strength, safer and more stable.

Safe operation



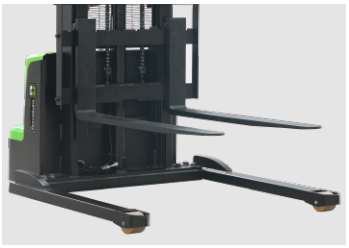
Small deformation of forks and masts, stable and durable
More stable when lifting & lowering with loads.

Full coverage protection on mast

Emergency reverse switch
In case of an emergency, it protects the operator and the surrounding personnel from harm.

Standard equipped with cylinder explosion-proof valve
It can prevent accidents such as uncontrolled descent caused by unexpected rupture of oil pipes, ensuring stable descent of the load and personal safety, and preventing damage to equipment.

Safety travel speed limit
When the fork is lifted to above 500mm, the driving speed automatically reduces to 2km/h to ensure the safety of operating at a high position in case of any misoperation.



High-strength forks
The forks are crafted from high-strength 40mm steel in a single-piece formation. This design ensures exceptional durability and minimal deformation even when subjected to heavy loads.

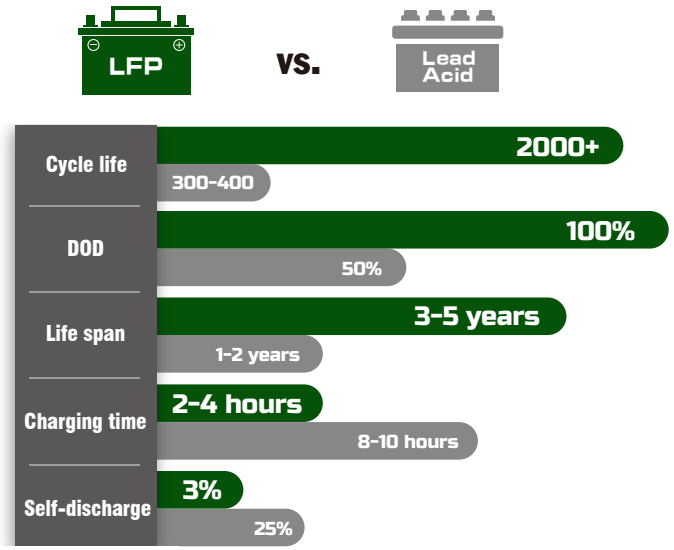
Built-in charger
Hidden charging plug, high safety, the whole vehicle is powered off during charging, reducing safety hazards.

Battery low voltage protection
Effectively avoid battery over-discharge, ensuring a longer battery life.

Solid steel support legs
Solid steel support legs are chosen for their superior rigidity, ensuring stability and safety. Maintaining consistent leg width prevents hazards like hooking onto pallets or racks when maneuvering.

Easy & Comfortable

Lithium Battery vs. Lead-Acid Battery



- **Longer cycle life**

  Lithium batteries typically have a cycle life of over 2000 cycles, whereas lead-acid batteries usually last around 300-400 cycles, lowering replacement and maintenance costs.

- **Faster charging**

  Lithium batteries support rapid charging, allowing them to be fully charged in a shorter period, reducing downtime and increasing efficiency.

- **Low self-discharge rate**

  Lithium batteries have a low self-discharge rate, resulting in minimal energy loss when not in use, making storage more convenient.

- **Wider Operating Temperature Range**

  Lithium batteries perform better across a wider range of temperatures, providing greater adaptability.

- **No Memory Effect**

  Lithium batteries can be charged at any state of charge, which reduces concerns about deep discharge.

- **Effortless, easy to operate**

  Low-mounted longer tiller reduces steering force required.

- **Low mast static height**

  Easy to operate in containers and elevators with less than 3.3m lifting height.

- **The steering angle is designed to be above 180 degrees**

  Small turning radius.

- **Reasonable design of the balancing wheel eccentric distance**

  Flexible direction commutation.

- **Easy to recharge**

  Built-in charger and an external charging cable storage box for convenient charging.

- **Excellent maneuverability**

  Precise and maneuverable operating, high safety and efficiency.

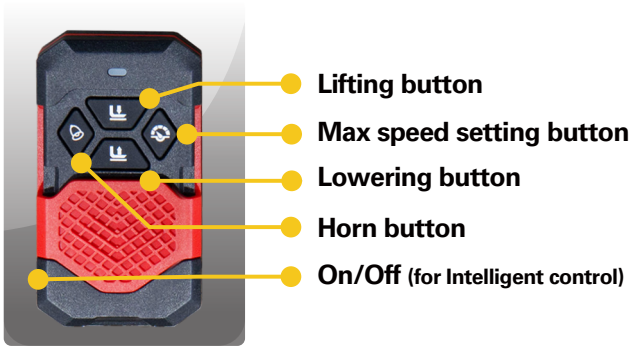
- **Adjustment of support legs and forks**

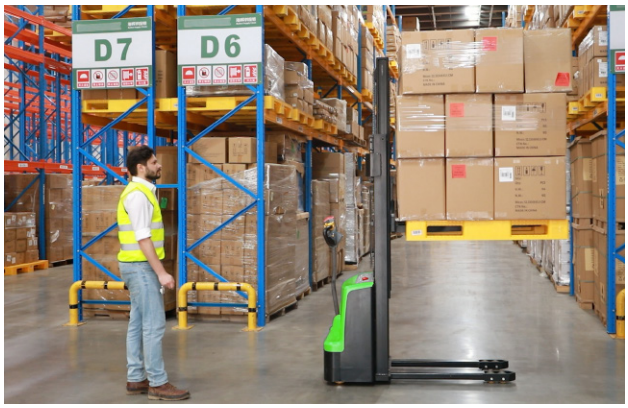
  The adjustable straddle leg design accommodates different pallet sizes and improves stability. The low silhouette straddle design allows for a lower bottom beam, maximizing storage space in the facility.
  The support legs are fixed with three screws per side outside the truck's body, allowing for easy adjustment to achieve widths of 1150mm, 1290mm, and 1430mm. Forged forks with adjustable widths from 200mm to 800mm, ensure durability and versatility. The truck includes a standard load backrest (LBR) for enhanced safety during material handling.

Optional Configuration

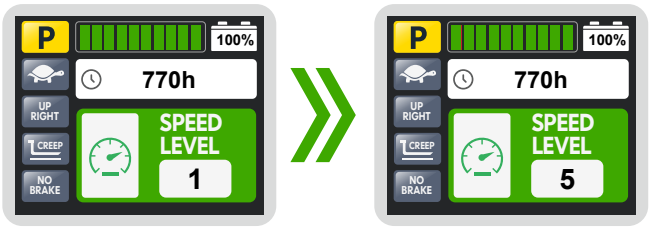
• Intelligent control

Unique in the market and very suitable for sorting operations on trucks.
With a dedicated remote control device, the operator can control the forks to lift to the appropriate working height and carry out sorting operations, thus avoiding the need to use the handle buttons and bend over to pick up goods, improving operational efficiency and comfort.

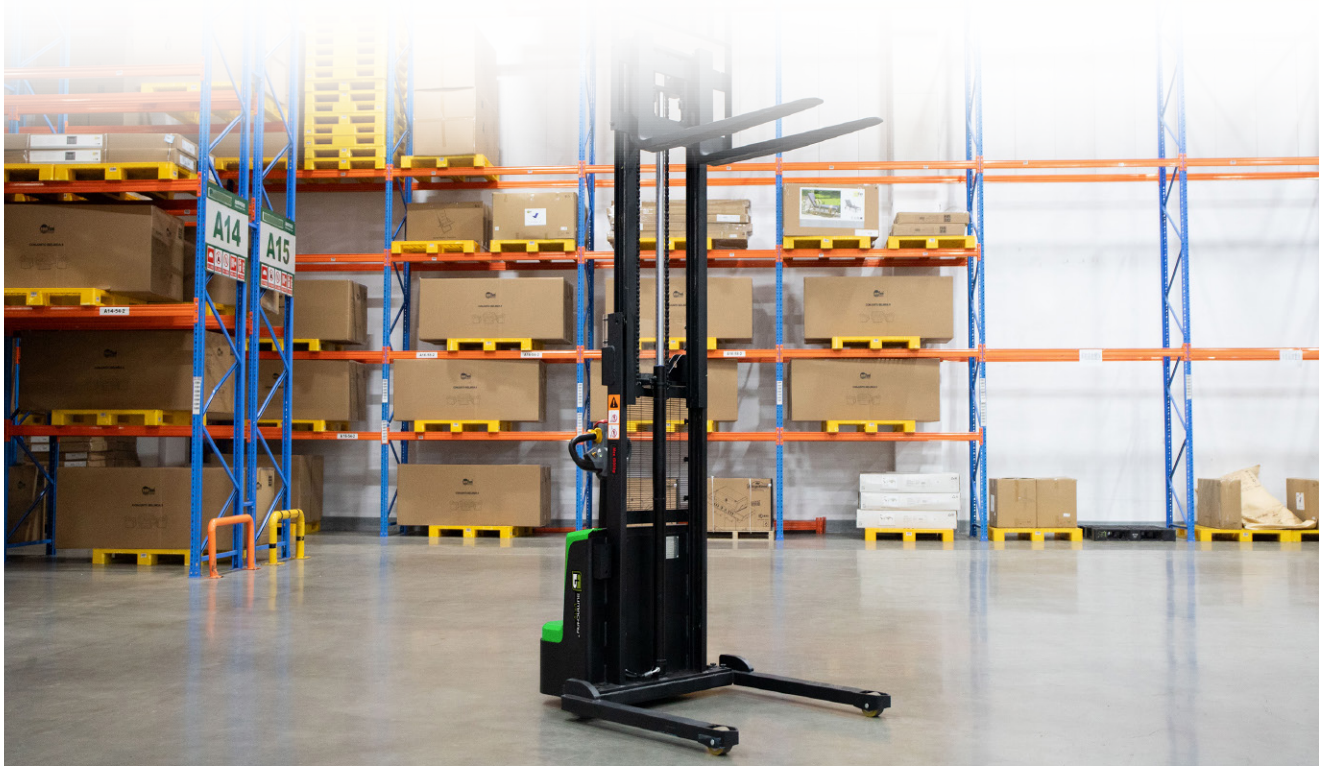




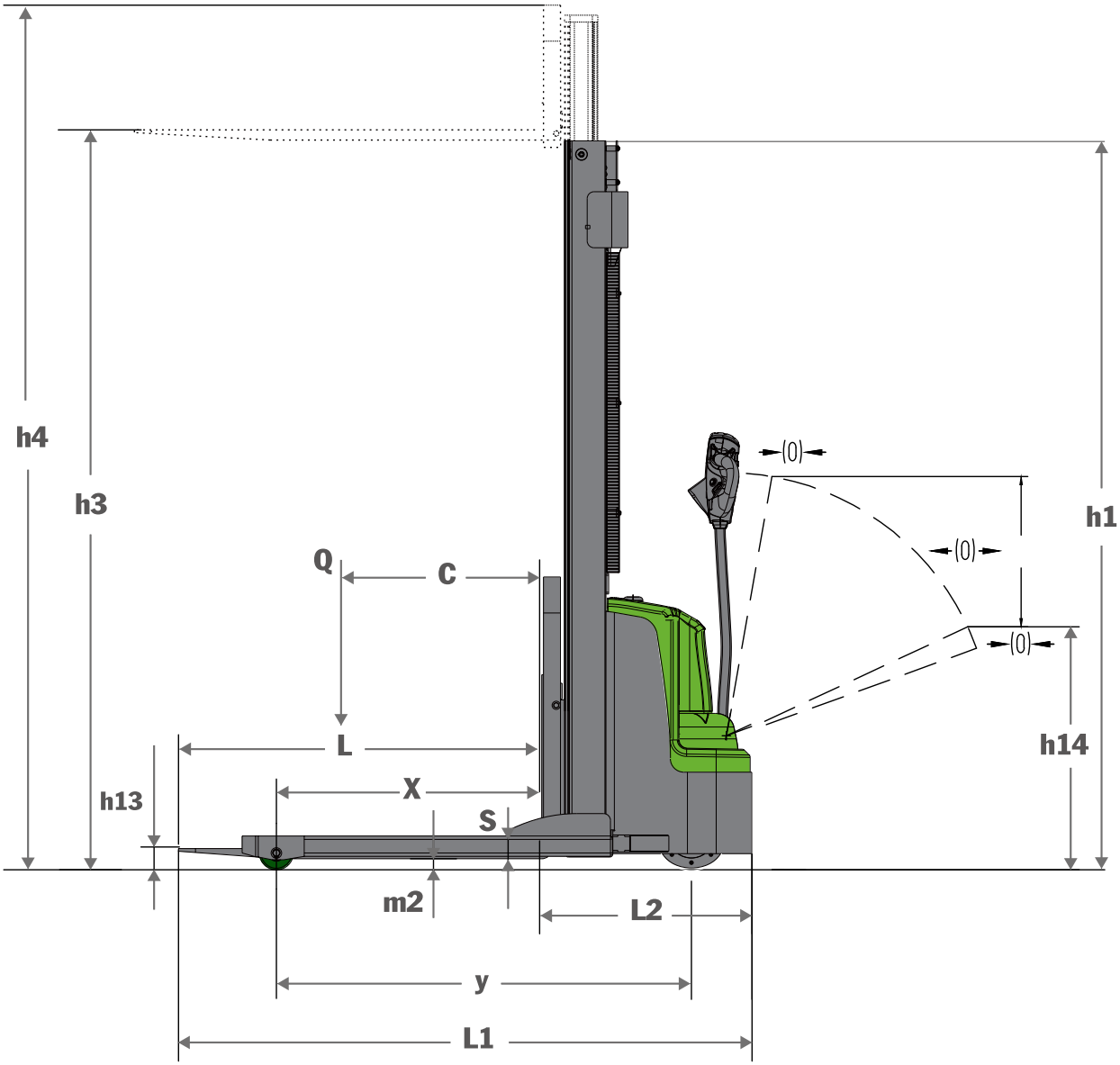
With the remote control device, you can easily set the speed suitable for the work, from level 1 speed to level 5 speed.
Such speed transitions allow you to move the truck with controlled operation at ease.

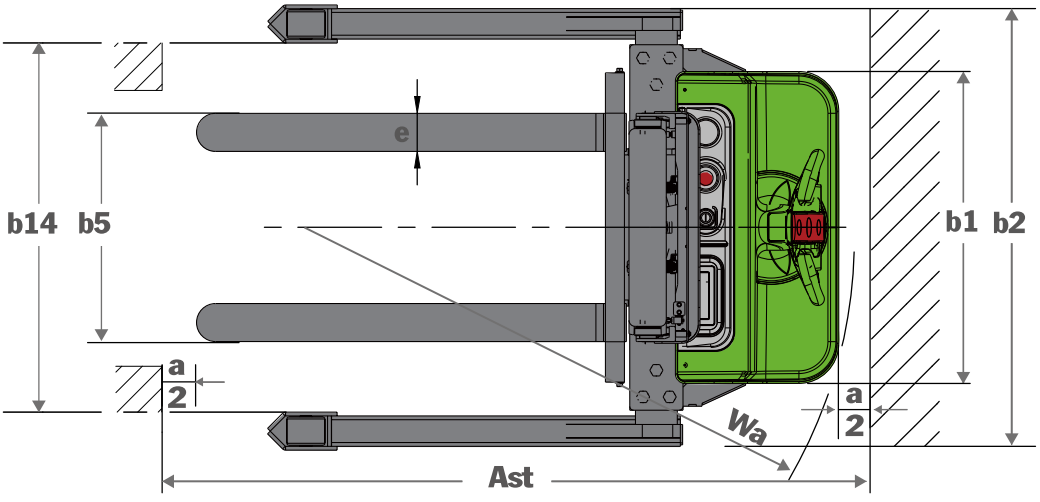


- Reversing buzzer
- 24V 100Ah $LiFePO_4$ Lithium battery



Dimensions





Specifications

	MODEL			SST15+				
DISTINGUISHING MARKS								
1.3	Drive			Battery				
1.4	Operator type			Pedestrian				
1.5	Load capacity/rated load	Q	kg	1500				
1.6	Load centre distance	c	mm	600				
1.8	Load distance, centre of drive axle to fork	x	mm	768				
1.9	Wheelbase	y	mm	1218				
WEIGHT								
2.1	Service weight (without battery)		kg	581.6	604.6	634.6	666.6	702.6
2.2	Service weight (with battery 71Ah or 60Ah Li-battery)		kg	598.6	621.6	651.6	683.6	719.6
2.3	Service weight (with battery 89Ah r 100Ah Li-battery)		kg	605.6	628.6	658.6	690.6	726.6
2.4	Axle loading, laden front/rear (2.5m lifting height)		kg	636.6/1485				
2.5	Axle loading, unladen front/rear (2.5m lifting height)		kg	466/155.6				
TYRES / CHASSIS								
3.1	Wheels	Ø x width		Polyurethane				
3.2	Wheel size, front	Ø x width	mm	Ø210 x 70				
3.3	Wheel size, rear		mm	φ100x64				
3.5	Wheels, number front/rear (x = driven wheels)			1x +0 /2				
3.7	Tread, rear		mm	1060/1200/1340				
DIMENSIONS								
4.2	Lowered mast height	h3	mm	1520	1770	2020	2170	2270
4.4	Lift height	h4	mm	2000	2500	3000	3300	3500
4.5	Extended mast height	h14	mm	2520	3020	3520	3820	4020
4.9	Height of tiller in driving position, min./max.	h13	mm	910/1290				
4.15	Height, lowered	l1	mm	60±2				
4.19	Overall length	l2	mm	1698				
4.20	Length to face of forks	b1	mm	628				
4.21.1	Overall width across chassis	b2	mm	820				
4.21.2	Overall width across all/Outer width straddle	b14	mm	1150/1290/1430				
4.21.5	Inner width straddle	s/e/l	mm	970/1110/1250				
4.22	Fork dimensions	b5	mm	40X100X1070(1150/1220)				
4.25	Width over forks	m2	mm	200-800				
4.32	Ground clearance, centre of wheelbase	Ast	mm	40				
4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast	mm	2290				
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Wa	mm	2217				
4.35	Turning radius		mm	1455				
PERFORMANCE DATA								
5.1	Travel speed, with/without load		km/h	4/4.5				
5.2	Lift speed, without load		mm/s	0-185				
	Lift speed, with load		mm/s	0-101				
5.3	Lowering speed, without load		mm/s	21.7-208				
	Lowering speed, with load		mm/s	25.6-137				
5.8	Max. gradeability, with/without load		%	5/10				
5.10	Service brake			Electromagnetic				
ELECTRIC-ENGINE								
6.1	Drive motor rating S2 60 min		kW	0.75				
6.2	Lift motor rating at S3 15%		kW	2.5				
6.4	Battery voltage/nominal capacity K5		V/Ah	● 24V/60Ah ○ 24V/100Ah Li-battery				
6.5	Battery weight +/- 5%		kg	● 17(60Ah) ○ 24(100Ah)				
6.6	Energy consumption according to EN 16796		kWh	0.42				
ADDITION DATA								
8.1	Type of drive control			DC speed control				
8.4	Sound level at the driver's ear according to EN 12053		dB(A)	<75				

Note: 1kgs=2.2lbs, 25.4mm=1inch

MAST DIMENSIONS							
	SST15+		Duplex Mast				
h1	Lowered mast height	mm	1520	1770	2020	2170	2270
h3	Lift height	mm	2000	2500	3000	3300	3500
h4	Extended mast height	mm	2520	3020	3520	3820	4020