

# ELECTRIC PEDESTRIAN STACKER

Lifting Height: 2000-4000 mm / Load Capacity: 1200/1500 kg



**Variable Speed  
Control**



**Intelligent & Efficient**



**Rugged & Durable**



**Easy & Comfortable**

# Easy, Safe and Efficient

## Feature

- Proportional speed control for lifting and lowering, fast or slow, as you wish; Easy, safe and efficient
- High efficiency, fast lifting and lowering speeds
- Compact size in narrow warehouse environments with efficient and easy pallet stacking
- Intelligent and efficient
- Sturdy, robust, and durable

## Option

- Lithium Battery



24V 60/100Ah

- Intelligent Control



- Lifting button
- Lowering button
- Max speed setting button
- Horn button

### WS15H



**Capacity:**  
1500kg  
**Lift Height:**  
2000-4000mm  
**Fork size:**  
560/680 x 1150mm  
**Battery:**  
24V 71Ah/89Ah (C5)

Work **Faster**  
**Less time** waiting  
for Lift & Lower



### WS12H



**Capacity:**  
1200kg  
**Lift Height:**  
2000-3500mm  
**Fork size:**  
560/680 x 1150mm  
**Battery:**  
24V 71Ah/89Ah (C5)

### WS12H-FL



**Capacity:**  
1200kg  
**Lift Height:**  
2500-3500mm  
**Free lift height:**  
1300-1800mm  
**Fork size:**  
560/680 x 1150mm  
**Battery:**  
24V 71Ah/89Ah (C5)

Lifting Height (mm)	2500	3000	3300	3500
Free lift (mm)	1300	1550	1700	1800

### WSS15H



**Capacity:**  
1500kg  
**Lift Height:**  
2000-3500mm  
**Fork size:**  
40x100x1070  
(1150/1200/1220)  
**Battery:**  
24V 71Ah/89Ah (C5)

ID(mm)	970	1110	1250
OD(mm)	1150	1290	1430

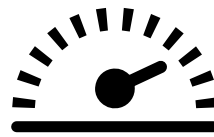
# Variable Speed Control on Lifting & Lowering

Comfortable and efficient thanks to STAXX 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.

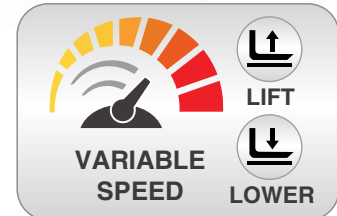
Variable speed control by proportional control knob, keeps lifting and lowering smooth, stable, safe and energy saving.

BEFORE



FIXED SPEED

NEW



## 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

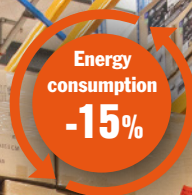
The variable speed control brings accurate response for adjusting the lifting & lowering speed according to the actual situation, the operator can easily complete the task and improve the working efficiency.

### ■ 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

Staxx 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



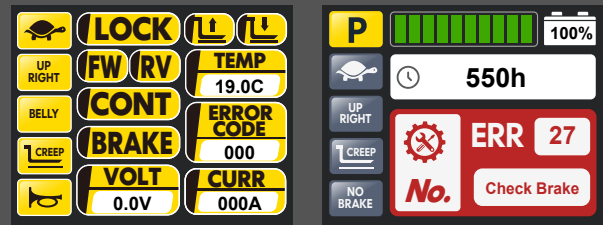
## Easy Maintenance

### Serial communication technology

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

UART

- ✓ 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.

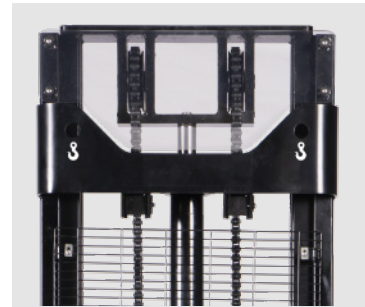
# Rugged & Durable

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  
Frame bottom plate: 30mm integrated steel plate.



## Double-chain design

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

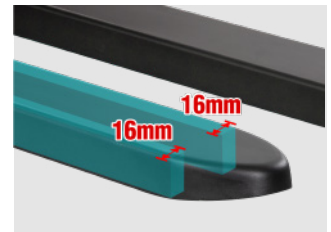
## Small deformation of forks and masts, stable and durable

More stable when lifting & lowering with loads.

## Full coverage protection on mast

## 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.



## High-strength forks

16mm flat iron on both sides of fork. High strength and small deformation even under heavy loads.

## The battery is fixed at the bottom of the frame

Improved stability.

## Battery low voltage protection

Effectively avoid battery over-discharge, ensuring a longer battery life.

# Safe operation

## Emergency reverse switch

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

## 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.



## Built-in charger

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

## High lateral and longitudinal stability

Wider wheelbase and longer axle distance.

## Adjustable balance wheel

Improved stability and maneuverability, suitable for different working scenarios.

## The low ground clearance of 30 mm helps to reduce the risk of foot injuries



# Easy & Comfortable



- **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.

- **Excellent maneuverability**

Precise and maneuverable operating, high safety and efficiency.

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

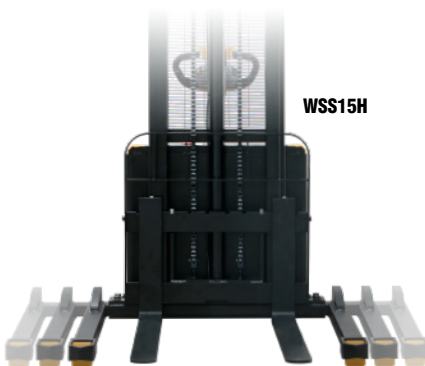
Flexible direction commutation.

- **Easy to recharge**

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

- **Longer operating time**

Standard 24V/71Ah maintenance-free lead-acid battery, with the option of a larger capacity maintenance-free battery or a lithium battery.



- **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.



● **Lifting button**

● **Max speed setting button**

● **Lowering button**

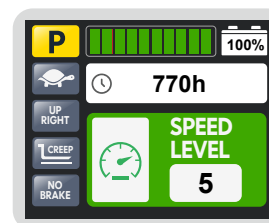
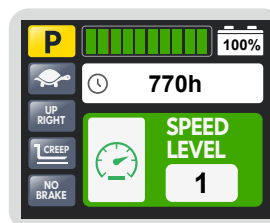
● **Horn button**

● **On/Off (for Intelligent control)**



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**

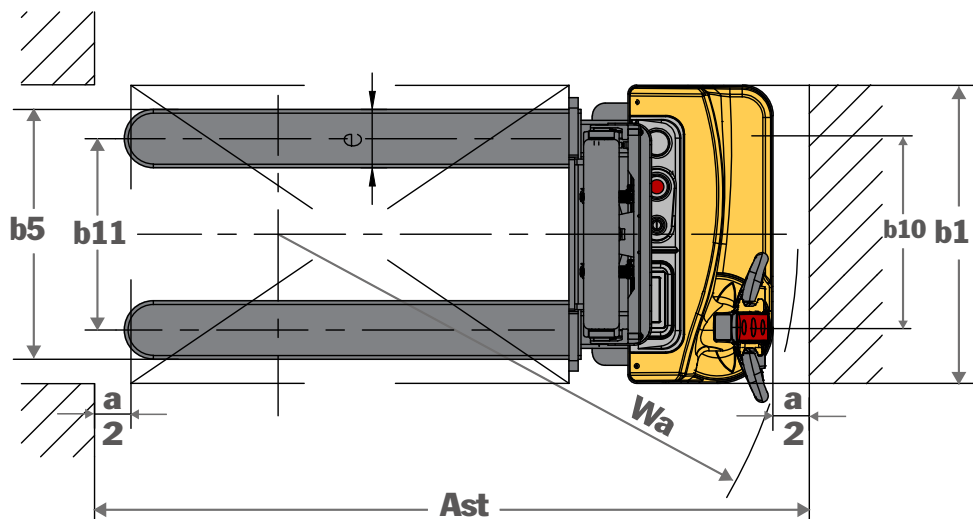
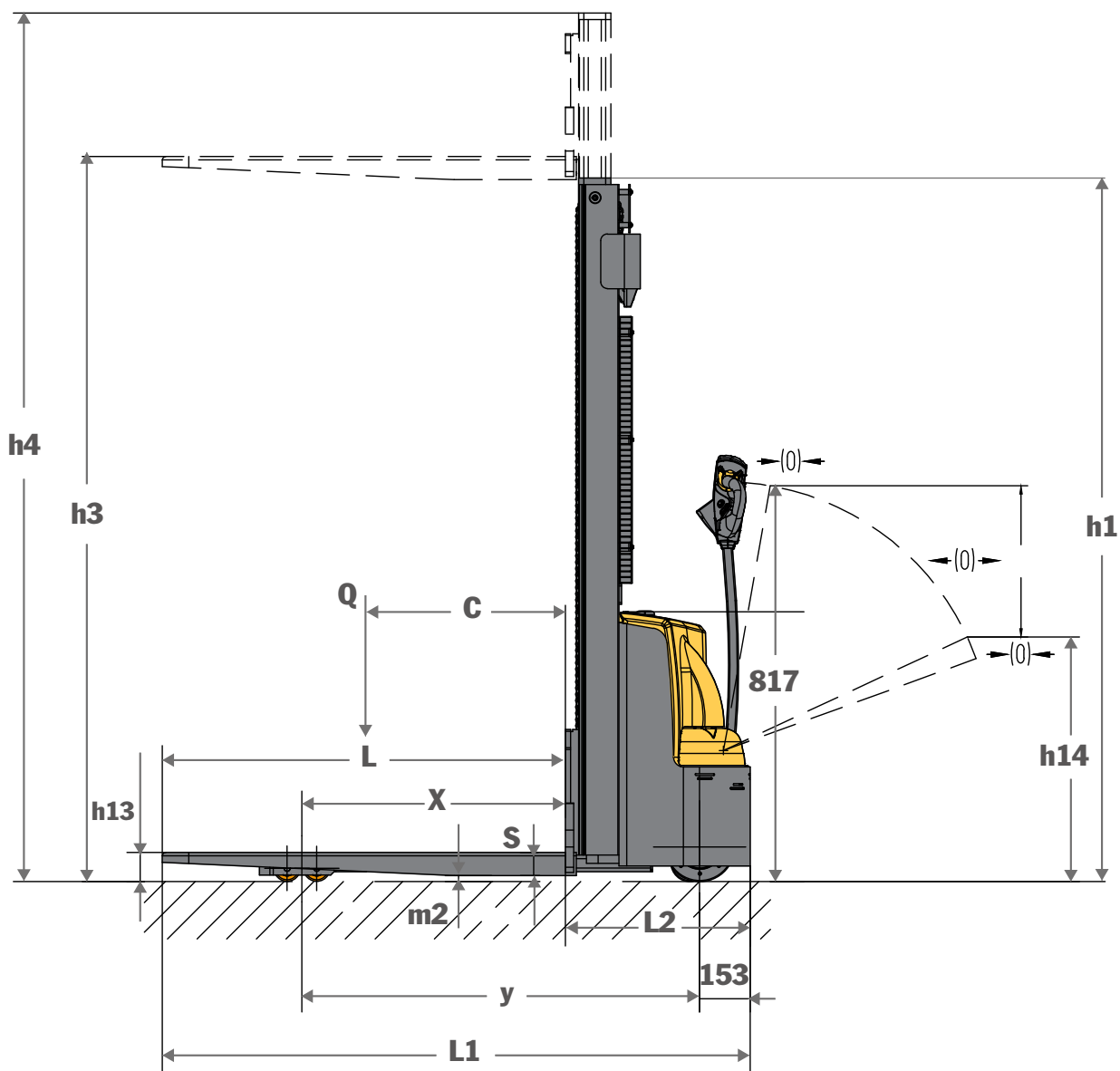
- **24V 60Ah(100Ah) LiFePO Lithium battery**

- **24V/15A (30A) chargers**

Lithium Battery Charger  
Charging time: 2~4 hours



# Dimensions

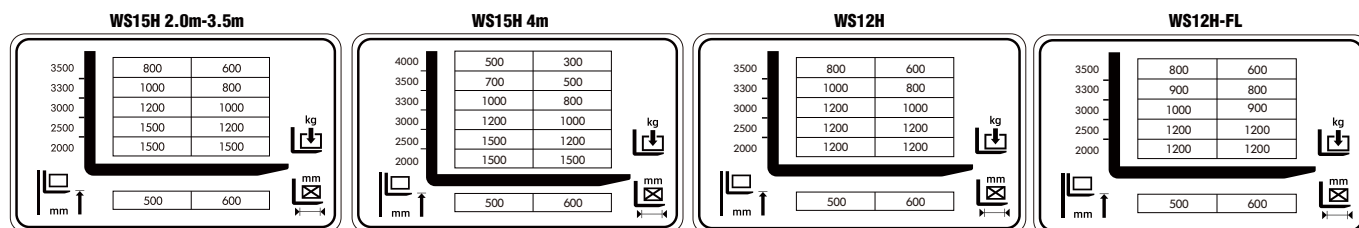


# Specifications

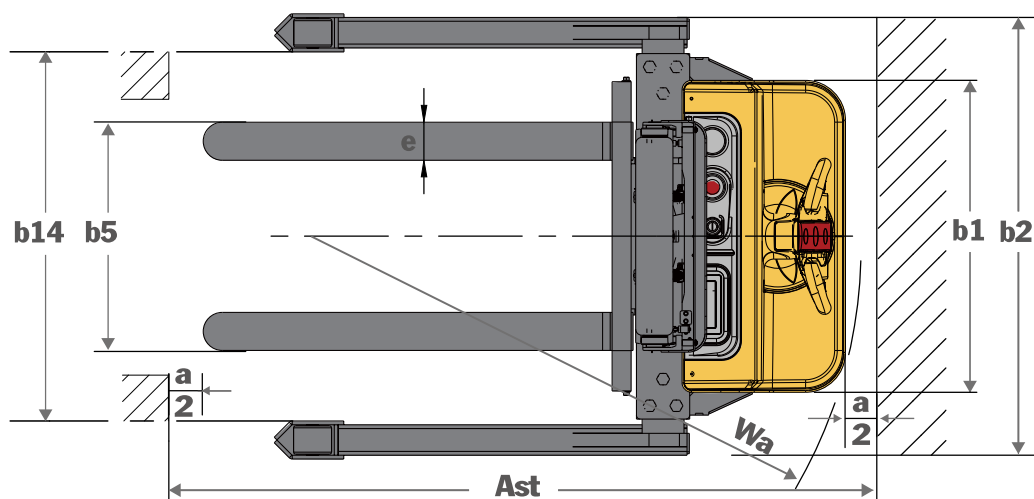
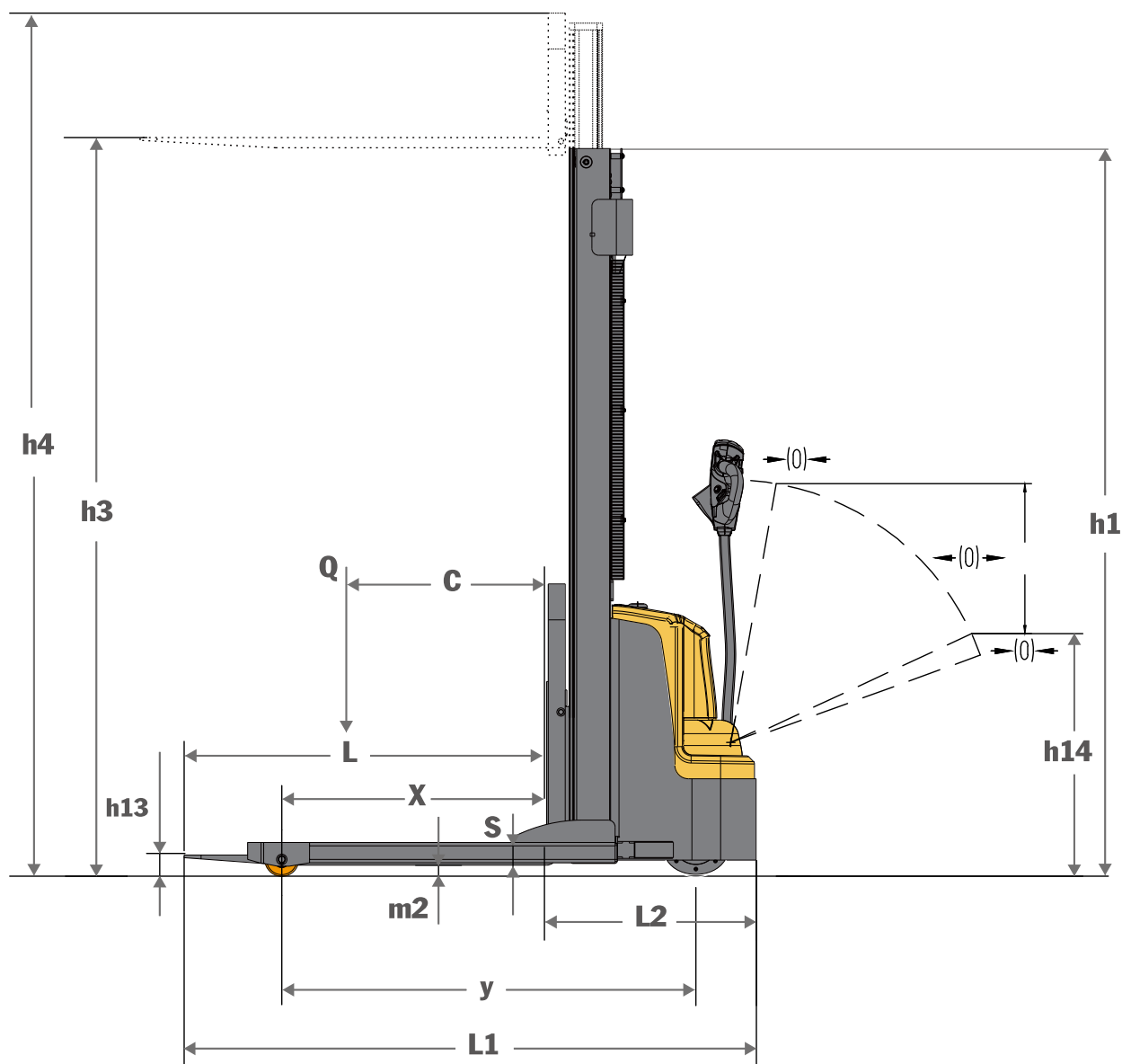
MODEL				WS15H						WS12H					WS12H-FL							
DISTINGUISHING MARKS																						
1.3	Drive			Battery						Battery					Battery							
1.4	Operator type			Pedestrian						Pedestrian					Pedestrian							
1.5	Load capacity/rated load	Q	kg	1500						1200					1200							
1.6	Load centre distance	c	mm	600						600					600							
1.8	Load distance, centre of drive axle to fork	x	mm	800						800					800							
1.9	Wheelbase	y	mm	1210						1210					1210							
WEIGHT																						
2.1	Service weight (without battery)		kg	509	529	556	565	575	612	508	528	555	564	574	535	549	563	577				
2.2	Service weight (with 71Ah battery)		kg	557	577	604	613	623	660	554	575	601	610	620	582	596	610	624				
2.3	Service weight (with 89Ah battery)		kg	562	682	609	618	628	665	560	580	606	616	626	587	601	615	629				
2.4	Axle loading, laden front/rear		kg	618/1441						527/1231					535/1247							
2.5	Axle loading, unladen front/rear		kg	419/140						418/140					437/145							
TYRES/ CHASSIS																						
3.1	Wheels			Polyurethane						Polyurethane					Polyurethane							
3.2	Wheel size, front	Ø x width	mm	Ø210x70						Ø210x70					Ø210x70							
3.3	Wheel size, rear	Ø x width	mm	Ø80X70						Ø80X70					Ø80X70							
3.4	Additional wheels (dimensions)	Ø x width	mm	Ø115X55						Ø115X55					Ø115X55							
3.5	Wheels, number front/rear (x = driven wheels)			1x + 1 / 4						1x + 1 / 4					1x + 1 / 4							
3.6	Tread, front	b10	mm	550						550					555							
3.7	Tread, rear(560/680 fork width)	b11	mm	390/525						390/525					400/520							
DIMENSIONS																						
4.2	Lowered mast height	h1	mm	1480	1730	1980	2130	2230	2550	1480	1730	1980	2130	2230	1710	1960	2110	2210				
4.3	Free lift height	h2	mm	/						/					1300							
4.4	Lifting height	h3	mm	2000	2500	3000	3300	3500	4000	2000	2500	3000	3300	3500	2500	3000	3300	3500				
4.5	Extended mast height	h4	mm	2435	2935	3435	3735	3935	4370	2435	2935	3435	3735	3935	2917	3417	3717	3917				
4.9	Height of tiller in driving position, min./max.	h14	mm	910/1270						910/1270					910/1270							
4.15	Height, lowered	h13	mm	85±2						85±2					85±2							
4.19	Overall length(1150/1220 fork length)	l1	mm	1730/1800						1730/1800					1730/1800							
4.20	Length to face of forks	l2	mm	580						580					580							
4.21	Overall width	b1	mm	820						820					820							
4.22	Fork dimensions	s/e/l	mm	70X160X1150(1220)						70X160X1150(1220)					70X160X1150(1220)							
4.25	Width over forks	b5	b5(mm)	560/680						560/680					560/680							
4.32	Ground clearance, centre of wheelbase	m2	m2(mm)	30						30					30							
4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast	Ast(mm)	2268						2268					2268							
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	Ast(mm)	2194						2194					2194							
4.35	Turning radius	Wa	Wa(mm)	1425						1425					1425							
PERFORMANCE DATA																						
5.1	Travel speed, with/without load		km/h	4/4.5						4/4.5					4/4.5							
5.2	Lift speed, without load		mm/s	0-190						0-230					0-220/Free lift, 0-208/After free lift							
	Lift speed, with load		mm/s	0-102						0-123					0-125							
5.3	Lowering speed, without load		mm/s	20-200						26-278					26-145/Free lift, 26-245/Before free lift							
	Lowering speed, with load		mm/s	30-135						28-164					28-165							
5.8	Max. gradeability, with/without load		%	5/10						5/10					5/10							
5.10	Service brake			Electromagnetic						Electromagnetic					Electromagnetic							
ELECTRIC-ENGINE																						
6.1	Drive motor rating S2 60 min		kW	0.75						0.75					0.75							
6.2	Lift motor rating at S3 15%		kW	2.5						2.5					2.5							
6.4	Battery voltage/nominal capacity (K5)		V/Ah	● 12/71 x 2 ○ (12/89) x 2						● 12/71 x 2 ○ (12/89) x 2					● 12/71 x 2 ○ (12/89) x 2							
6.5	Battery weight +/- 5%		kg	● 23.2 x 2(71Ah)/ ○ 25.8 x 2(89Ah)						● 23.2 x 2(71Ah)/ ○ 25.8 x 2(89Ah)					● 23.2 x 2(71Ah)/ ○ 25.8 x 2(89Ah)							
6.6	Energy consumption according to EN 16796		kWh	0.42						0.42					0.42							
ADDITION DATA																						
8.1	Type of drive control			DC seed control						DC seed control					DC seed control							
8.4	Sound level at the driver's ear according to EN 12053		dB(A)	<75						<75					<75							
	Controller			STAXX P1201																		

Note: 1kgs=2.2lbs, 25.4mm=1inch  
● standard ○ option

## LOAD CHART



# Dimensions



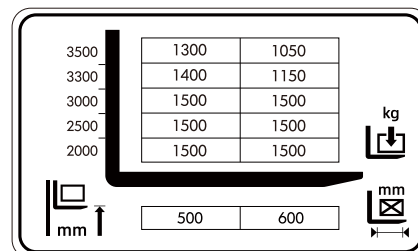
# Specifications

MODEL				WSS15H				
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 71Ah battery)		kg	628	651	681	713	749
2.3	Service weight (with 89Ah battery)		kg	633.2	656.2	686.2	718.2	754.2
2.4	Axle loading, laden front/rear		kg					645/1506
2.5	Axle loading, unladen front/rear		kg					488/163
TYRES / CHASSIS								
3.1	Wheels							Polyurethane
3.2	Wheel size, front	Ø x width	mm					Ø210 x 70
3.3	Wheel size, rear	Ø x width	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	h1	mm	1520	1770	2020	2170	2270
4.4	Lift height	h3	mm	2000	2500	3000	3300	3500
4.5	Extended mast height	h4	mm	2520	3020	3520	3820	4020
4.9	Height of tiller in driving position, min./max.	h14	mm					910/1290
4.15	Height, lowered	h13	mm					60±2
4.19	Overall length	l1	mm					1698
4.20	Length to face of forks	l2	mm					628
4.21.1	Overall width across chassis	b1	mm					820
4.21.2	Overall width across all/Outer width straddle	b2	mm					1150/1290/1430
4.21.5	Inner width straddle	b14	mm					970/1110/1250
4.22	Fork dimensions	s/e/l	mm					40X100X1070(1150/1220)
4.25	Width over forks	b5	b5(mm)					200-800
4.32	Ground clearance, centre of wheelbase	m2	m2(mm)					40
4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast	Ast(mm)					2290
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	Ast(mm)					2217
4.35	Turning radius	Wa	Wa(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					● 12/71 x 2 ○ (12/89) x 2
6.5	Battery weight +/- 5%		kg					● 23.2 x 2(71Ah)/ ○ 25.8 x 2(89Ah)
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
	Controller							STAXX P1201

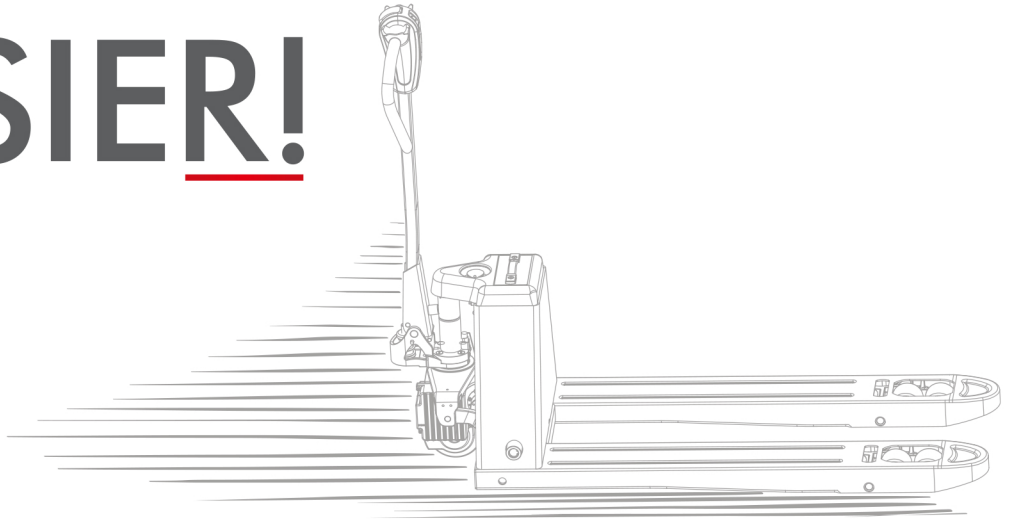
● standard ○ option

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

MAST DIMENSIONS							
WSS15H				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



# MAKE YOUR JOB EASIER!

The Staxx logo consists of the word "STAXX" in a bold, white, sans-serif font. The letters are slightly italicized, giving a sense of forward motion. To the right of the text is a stylized white 'X' symbol. The entire logo is set against a dark grey rectangular background, which is framed by a thick red border.

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