

TRITON

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



ES12-FL-3000 Electric Pedestrian Stacker with Lithium Battery

Lifting height: 3000 mm / Load capacity: 1200 kg



**Variable Speed
Control**



Intelligent & Efficient



Rugged & Durable



Easy & Comfortable

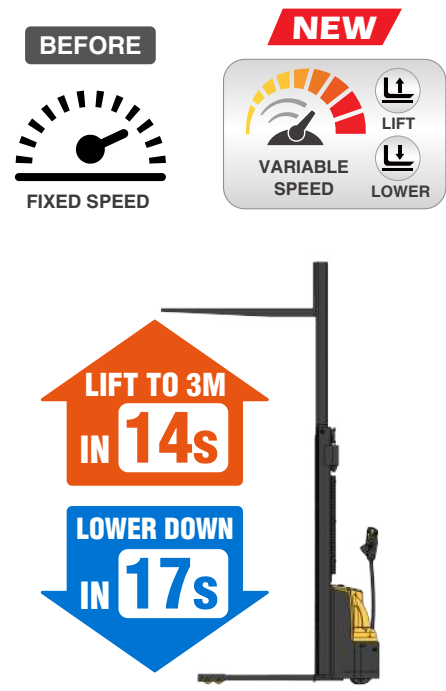
Variable Speed Control on Lifting & Lowering

Comfortable and efficient thanks to 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.

Lifting Height (mm)	3000
Free lift (mm)	1550



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

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



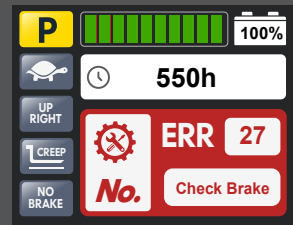
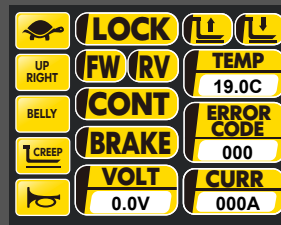
Easy Maintenance

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

The forks are formed in one piece with a thickness of 8mm steel. 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.



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

Lowering button

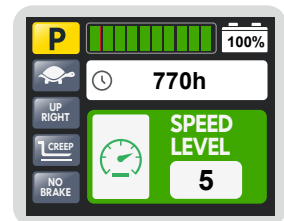
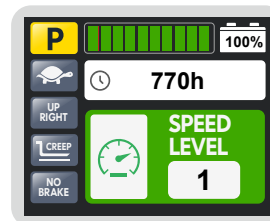
Max speed setting button

Horn button



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.



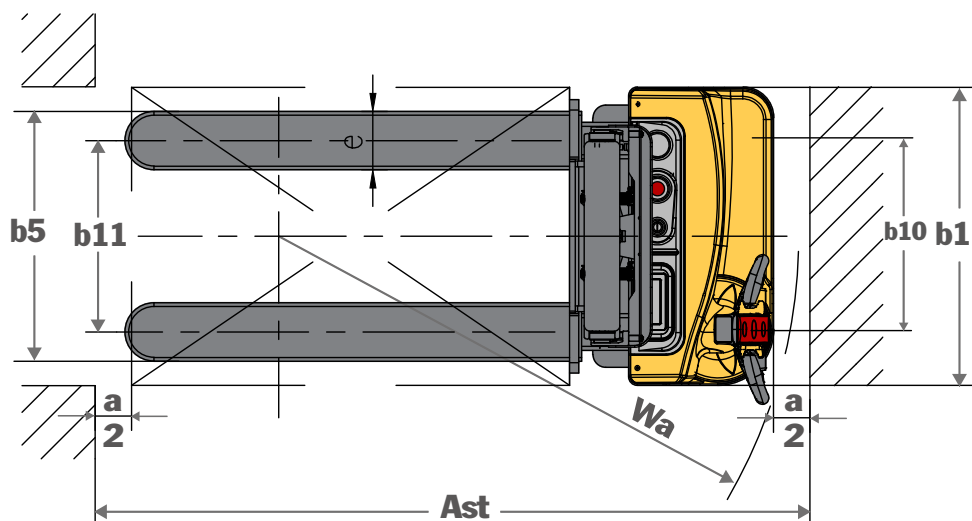
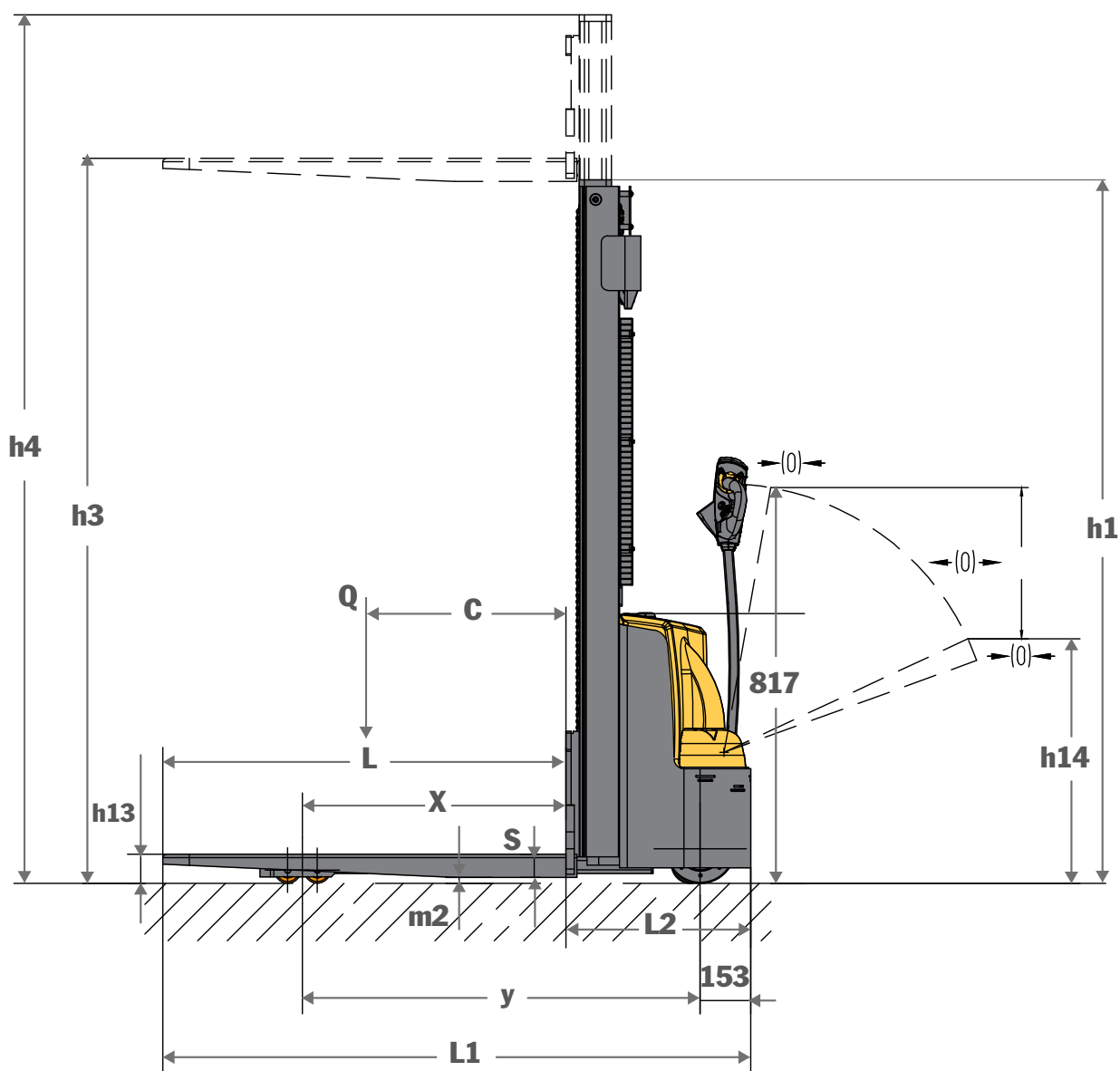
- **Reversing buzzer**

- **24V 60Ah(100Ah) LiFePO₄ Lithium battery**

- **24V/15A (30A) chargers**
Lithium Battery Charger
Charging time: 2~4 hours



Dimensions



Specifications

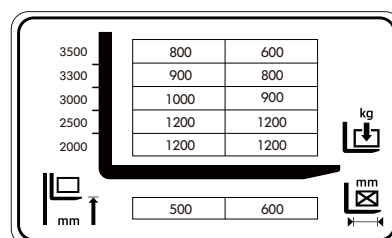
MODEL				ES12H-FL
DISTINGUISHING MARKS				
1.3	Drive			Lithium Battery
1.4	Operator type			Pedestrian
1.5	Load capacity/rated load	Q	kg	1200
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork	x	mm	800
1.9	Wheelbase	y	mm	1210
WEIGHT				
2.1	Service weight (without battery)		kg	549.6
2.2	Service weight (with 71Ah battery)		kg	596
2.3	Service weight (with 89Ah battery)		kg	601
2.4	Axle loading, laden front/rear		kg	535/1247
2.5	Axle loading, unladen front/rear		kg	437/145
TYRES/ CHASSIS				
3.1	Wheels			Polyurethane
3.2	Wheel size, front	Ø x width	mm	Ø210x70
3.3	Wheel size, rear	Ø x width	mm	Ø80X70
3.4	Additional wheels (dimensions)	Ø x width	mm	Ø115X55
3.5	Wheels, number front/rear (x = driven wheels)			1x + 1 / 4
3.6	Tread, front	b10	mm	555
3.7	Tread, rear	b11	mm	400
DIMENSIONS				
4.2	Lowered mast height	h1	mm	1960
4.3	Free lift height	h2	mm	1550
4.4	Lifting height	h3	mm	3000
4.5	Extended mast height	h4	mm	3417
4.9	Height of tiller in driving position, min./max.	h14	mm	910/1270
4.15	Height, lowered	h13	mm	90±2
4.19	Overall length	l1	mm	1730
4.20	Length to face of forks	l2	mm	560
4.21	Overall width	b1	mm	820
4.22	Fork dimensions	s/e/l	mm	70X160X1150
4.25	Width over forks	b5	b5(mm)	560/680
4.32	Ground clearance, centre of wheelbase	m2	m2(mm)	30
4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast	Ast(mm)	2268
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	Ast(mm)	2194
4.35	Turning radius	Wa	Wa(mm)	1425
PERFORMANCE DATA				
5.1	Travel speed, with/without load		km/h	4/4.5
5.2	Lift speed, without load		mm/s	0-220/Free lift, 0-208/After free lift
	Lift speed, with load		mm/s	0-125
5.3	Lowering speed, without load		mm/s	26-145/Free lift, 26-245/Before free lift
	Lowering speed, with load		mm/s	28-165
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 (C5)		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	0.4
ADDITION DATA				
8.1	Type of drive control			DC seed control
8.4	Sound level at the driver's ear according to EN 12053		dB(A)	<75

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

● standard ○ option

MAST DIMENSIONS			
ES12H-FL		Duplex Mast	
Lowered mast height	mm	1960	
Free lift height	mm	1550	
Lifting height	mm	3000	
Extended mast height	mm	3417	

LOAD CHART





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