



Fork Over Stacker **WS03-12**  
Capacity 1200kg

**Make Your Job Easier!**

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### Safety

- ▶ Automatic slow down when lifting height reaches 1.5m or when full free lift finish
- ▶ Automatic slow down technology for corner sharp turn
- ▶ Emergency reversing button: enhance operation safety

### Performance

- ▶ LIFTSTAR designed EPS system, tested by the market for 5 years, high reliability.
- ▶ Equipped with AC drive system
- ▶ Electromagnetic brake
- ▶ Battery discharge indicator with hour meter

### Reliability

- ▶ CNC machine ensures high precision of the components, including pin roll, connecting rod, frame. etc
- ▶ Chassis lifetime over 10 years
- ▶ 48hours 100% inspection
- ▶ Full Quality Control before delivery including Noisy, Driving, and Welding inspection

### Comfort

- ▶ Floating structure of driving unit
- ▶ Tiller head designed for Maximum operator comfort
- ▶ Controls positioned to allow operation with either hand
- ▶ EPS system provides optimum directional control at any speed

### Scope

- ▶ Liftstar Electric Stacker with small appearance and flexible can be used in shopping malls, supermarkets, warehouse, workshop and other places, especially for food, textile, printing and other light industries.

# Technical Data

characteristics		<b>Model</b>		<b>WS03-12</b>
	1.1		Mast Type	Duplex
	1.2	Q	capacity	kg 1200
	1.3	C	load center	mm 600
	1.4		operator type	walkie (rider option)
1.5		Electric power steering		standard equipped

specifications	2.1	H	optional lifting height	mm	2500/3000/3300/3500/4000
	2.2	H <sub>7</sub>	lowered height of fork	mm	85
	2.3	B <sub>1</sub>	overall fork width	mm	685
	2.4	L	fork length	mm	1150
	2.5	E	fork width	mm	185
	2.6	Wa	min. turning radius	mm	1525
	2.7	AST	min. aisle width	mm	2130
	2.8	H <sub>6</sub>	min. ground clearance	mm	30

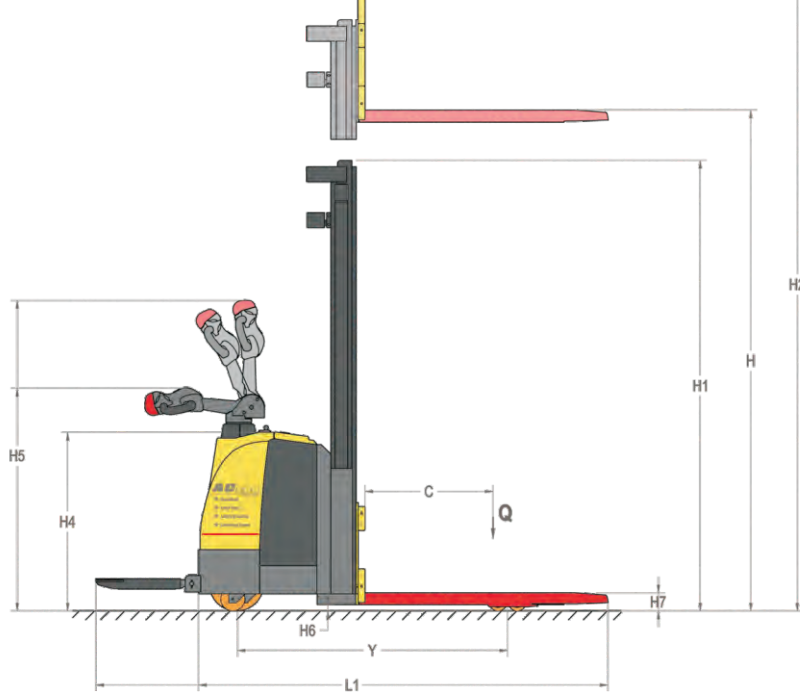
performance	3.1		maximum traveling speed	laden	km/h	3/6
				unladen	km/h	3.5/6.5
	3.2		maximum lifting speed	laden	m/s	0.1
				unladen	m/s	0.17
	3.3		maximum lowering speed	laden	m/s	0.22
				unladen	m/s	0.17
	3.4		gradeability	laden	%	8
				unladen	%	15

weight	4.1		service weight without battery (3m standard)	kg	920
	4.2		service weight with battery (3m standard)	kg	1110

chassis	5.1	L <sub>1</sub>	overall length	mm	1993/2413(with platform)
	5.2	B	overall width	mm	812
	5.3	H <sub>5</sub>	Height of tiller arm in drive position min./max.	mm	1045/1455
	5.4	L <sub>2</sub>	rear body length	mm	720
	5.5	B <sub>2</sub>	rear body width	mm	812
	5.6	H <sub>4</sub>	rear body height	mm	837
	5.7	B <sub>3</sub>	handle width	mm	430
	5.8	H <sub>2</sub>	mast extend height	mm	3000/3500/3800/4000/4500
	5.9	H <sub>1</sub>	mast lower height(3m/3.3m/3.6m/4m)	mm	1765/1980/2135/2285/2500

wheel	6.1		wheel type front/rear		PU
	6.2		wheels quantity		1xDriven wheel,2xBalance wheel, 4xFront wheel
	6.3	D <sub>2</sub>	dimension of driven wheel	mm	∅ 248*75
	6.4	D <sub>1</sub>	dimension of load wheel	mm	∅ 84*58
	6.5	D	dimension of universal wheel	mm	∅ 115*55
	6.6	Y	wheel base	mm	1270

driving system	7.1		brake type		electromagnetic
	7.2		traveling motor	kw	1.5 AC
	7.3		lifting motor	kw	3.0 DC
	7.4		voltage	V	24
	7.5		battery capacity/type	Ah	210Ah/industry
	7.6		maximum battery box size(L*W*H)	mm	650*200*535
	7.7		control system		CURTIS 1230/200A

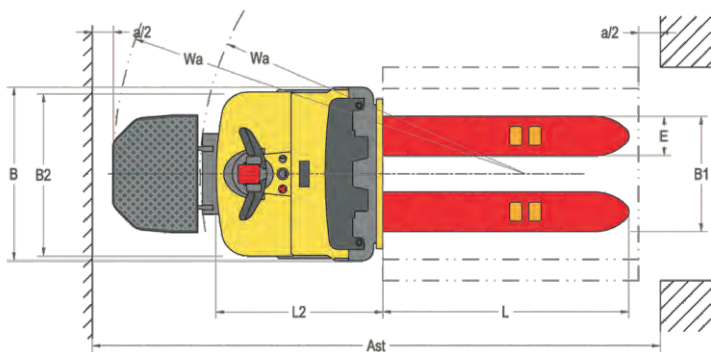


### Option lifting height, fork size

The following lifting height is the option we have made before, you can communicate with us if you have special requirement

#### WS03-12 (with Duplex mast)

	lifting height mm(H)	mast lower height mm(H1)	Free lift mm(H3)	Height of mast extended mm(H <sub>2</sub> )	fork size mm(B1*L)
Optional lifting height and fork size	2000.00	1535.00	30.00	2500.00	520×980
	2500.00	1765.00	30.00	3000.00	520×1150
	2600.00	1785.00	30.00	3100.00	550×980
	2700.00	1865.00	30.00	3200.00	550×1000
	2800.00	1880.00	30.00	3300.00	550×1070
	2900.00	1930.00	30.00	3400.00	550×1150
	3000.00	1980.00	30.00	3500.00	550×1200
	3050.00	2005.00	30.00	3550.00	600×1000
	3300.00	2135.00	30.00	3800.00	600×1070
	3350.00	2135.00	30.00	3850.00	600×1150
	3500.00	2285.00	30.00	4000.00	600×1220
	3600.00	2335.00	30.00	4100.00	600×1400
	4000.00	2500.00	30.00	4500.00	600×1500
					650×1070
					650×1150
					650×1220
				650×1500	
				685×1000	
				685×1150	
				685×1220	
				685×1600	







2014 new innovation from Liftstar  
---Quiet Night



Quiet Night: the new innovation from Liftstar in 2014 for electric stackers, lifting noise level around 69dB, which will protect operator healthy.

Cornering Speed Control:

- ▶ Automatically decelerating and accelerating based on real time operating conditions.



# Liftstar Moonwalk



New pallet moving and stacking solution for narrow aisle application.

Advantage of "Moonwalk" from Liftstar only.

- 1. Convenience
- 2. Much better operator's view
- 3. Safety
- 4. High efficiency



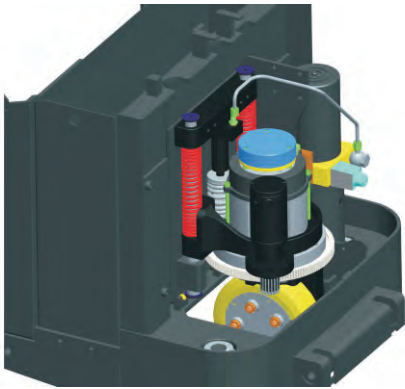
# Feature

## Total drive system

- Equipped with power AC drive system.
- External encoder, easy for replacement
- Brushless, regenerative brake

## Liftstar EPS system

- Liftstar designed EPS system, tested by the market 5 years, high reliability.
- High efficiency, low energy consumption, low noise.



## Floating structure of driving unit

- Prevents wheel slip
- Strong spring works for unloaded situation and reinforcing cylinder assists to increase traction according loading weight.



## Special design

- Castor-linked and five-point chassis for optimum stability and control
- Floating structure of driving unit Prevents wheel slip.

## System Self-protection

- Double controller can real-time protect the vehicle control system from circuit overvoltage, under voltage, over current, excess temperature, Short circuit



## Ergonomics

- Tiller head designed for Maximum operator comfort
- Controls positioned to allow operation with either hand
- EPS system provides optimum directional control at any speed

## Production

- Injection mold cover, high precision, good appearance.
- Chassis lifetime over 10 years.
- CNC machine ensures high precision of the components.



## International Famous Brand

- STELLANA wheel
- HEICO fastening piece
- TORCH battery
- ALBRIGHT contactor
- HONEYWELL sensor



## Standard equipment

- ▶ EPS(electric power steering)
- ▶ AC traveling motor & DC lifting motor
- ▶ External Encoder
- ▶ 24 Voltage
- ▶ Battery box size(L\*W\*H):650\*200\*535
- ▶ With side-way battery design
- ▶ Regenerate travel brake
- ▶ Brake type: Electromagnetic
- ▶ Control system: CURTIS 1230/200A
- ▶ Battery Discharge Indicator, Hour Meter
- ▶ Key Switch
- ▶ Duplex Mast
- ▶ Lift/Lower Buttons in handle
- ▶ Ergonomic control handle
- ▶ Wheel type front/ rear: PU
- ▶ Fork length:1150mm
- ▶ Fork width: maximum 685mm
- ▶ With Fork Over Leg
- ▶ Belly button reversing switch

## Optional equipment

### Chassis optional

1. Cold conditioning.....\$450  
Continuous use 32° to 120°F--Intermittent use under 32°

### Safety Speed control

1. Corning Speed control
2. Limited Speed control when lifting height reaches 1.5meter



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