



# ES12-25WA

## Electric Stacker 1.2t

Straddle Design Improves the Stability of Stacking;  
Suitable for Handling and Stacking of Various Non-standardized Pallets.

**EP EQUIPMENT CO.,LTD**  
[www.ep-equipment.com](http://www.ep-equipment.com)



## FEATURE

### Performance

- The innovative AC system offers strong power, accurate control, excellent performance.
- High strength vertical gearbox, longer working life.
- Low-noise but durable hydraulic unit, good quality cylinder as well as hose ensure the high reliability of hydraulic system.
- AMP connector and durable electric wires greatly reduce malfunctions of components.
- H shape channel mast improves the strength of the whole truck.
- Staddle design ensures the stability of high lifting.



### Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Emergency reverse belly button protects the operator from getting hurt.
- Emergency disconnecter will cut off power source to avoid accident when truck goes out of control.
- Multiple lifting limit protection ensures safety.
- Automatic switch to lower speed when the fork reaches its setting height.
- Anti-rolling back brake keeps the truck from skidding down when truck is out of control or travelling on ramp.
- Long operational tiller ensures safety distance for operators.

### Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently & comfortably.
- Long tiller reduces the steering force greatly.
- Adjustable forks, suitable for complicated pallets or cargos.
- Creep speed function: when tiller is in near vertical position, the driving speed will decrease automatically, allowing delicate operation in confined space.
- Side-open battery design for easy battery replacement and various applications.
- Two-speed lowering offers better stability and accuracy of goods stacking.

### Maintenance

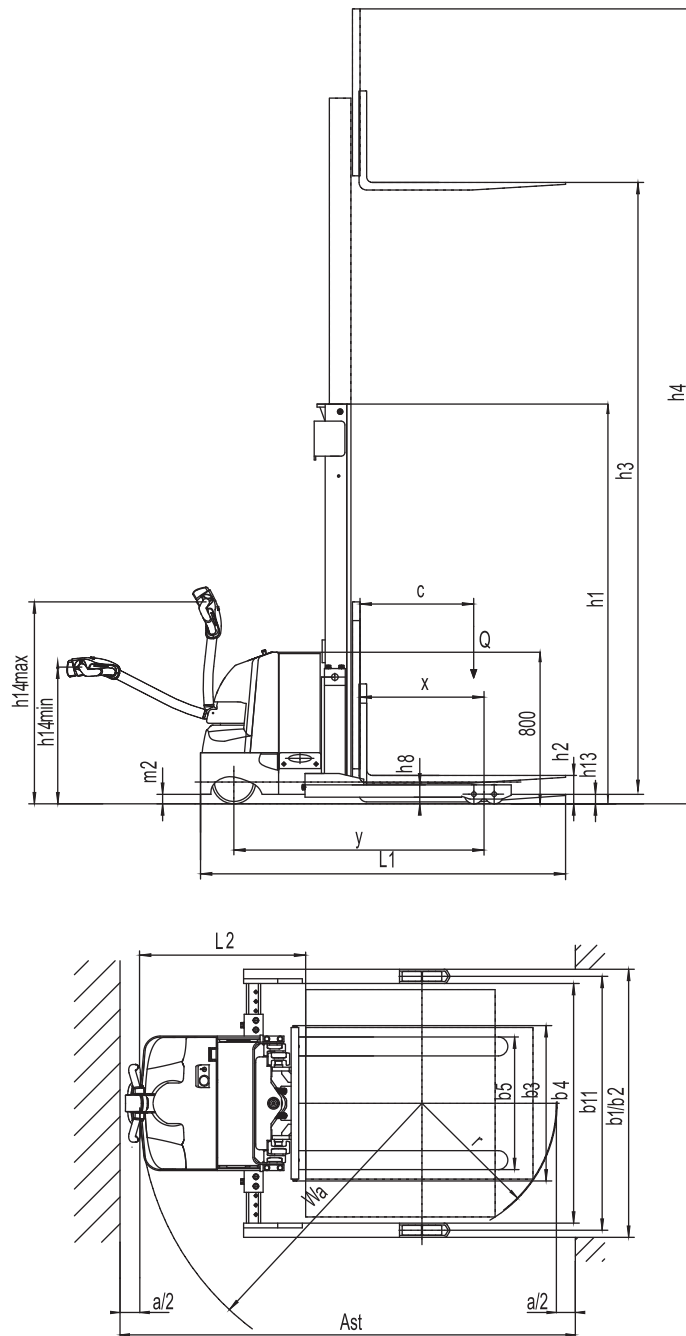
- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Easily remove the back cover by only loosening four bolts; Access to all key components for inspection, maintenance and replacement.
- Vertical motor makes the inspection & service much more convenient.
- Control system allows easy trouble-shooting.
- Mast and chassis are assembled together, easy for maintenance.
- Low voltage cut off setting protects batteries.

# Electric Stacker 1.2t

## ES12-25WA

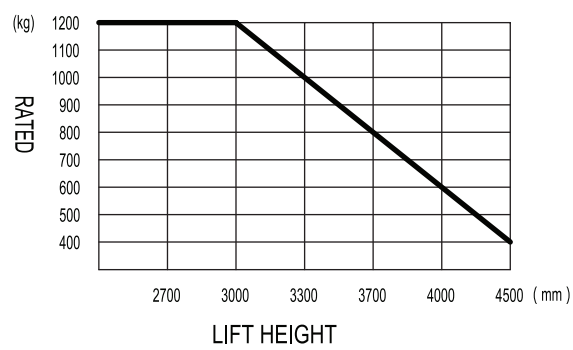
Distinguishing mark	1.1	Manufacturer			EP
	1.2	Model designation			ES12-25WA
	1.3	Drive			Electric
	1.4	Operator type			Pedestrian
	1.5	Load capacity	Q	kg	1200
	1.6	Load center distance	c	mm	600
	1.8	Load distance, centre of drive axle to fork	x	mm	618
	1.9	Wheelbase	y	mm	1320
Service weight	2.1	Service weight		kg	1150
	2.2	Axle loading, laden front/rear		kg	685/1665
	2.3	Axle loading, unladen front/rear		kg	665/485
Tyres/chassis	3.1	Tyre type			Polyurethane
	3.2.1	Tyre size, front		mm	Φ230x75
	3.3.1	Tyre size, rear		mm	Φ102x50
	3.4	Additional wheels (castor wheels)		mm	—
	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x+0/4
	3.6.1	Tread width, front	b10	mm	—
	3.7.1	Tread width, rear	b11	mm	1045/1145/1245/1345
	4.0	Max. Lift Height	H	mm	3280
Dimensions	4.2	Retracted mast height	h1	mm	2110
	4.3	Free lift	h2	mm	150
	4.4	Lift height	h3	mm	3220
	4.5	Height, mast extended	h4	mm	4185
	4.6	Initial lift	h5	mm	—
	4.9	Height of tiller handle in drive position min./max.	h14	mm	715/1200
	4.10	Height of wheel arms	h8	mm	100
	4.15	Lowered height	h13	mm	60
	4.19	Overall length	l1	mm	1947
	4.20	Length to face of forks	l2	mm	877
	4.21	Overall width	b1/b2	mm	1120/1220/1320/1420
	4.22	Fork dimensions	s/e/l	mm	40/100/1070
	4.24	Fork carriage width	b3	mm	800
	4.25	Distance between fork-arms	b5	mm	200-760
	4.26	Distance between wheel arms/loading surfaces	b4	mm	970/1070/1170/1270
	4.31	Ground clearance, laden, below mast	m1	mm	78
	4.32	Ground clearance, center of wheelbase	m2	mm	60
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2405
	4.34.2	Aisle width for pallets 800×1200 crossways	Ast	mm	2400
	4.35	Turning radius	Wa	mm	1490
Performance data	5.1	Travel speed, laden/unladen		km/h	5.0/5.5
	5.2	Lifting speed, laden/unladen		m/s	0.127/0.23
	5.3	Lowering speed, laden/unladen		m/s	0.26/0.20
	5.8	Max. gradeability, laden/unladen		%	8/16
	5.10	Service brake			Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 min		kW	1.1
	6.2	Lift motor rating at S3 15%		kW	2.2
	6.4	Battery voltage/nominal capacity		V/Ah	24/210
	6.5	Battery weight		kg	160
Addition data	8.1	Type of drive control			AC
	10.5	Steering design			Mechanical
	10.7	Sound pressure level at the driver's ear		dB(A)	74

If there are improvements of technical parameters or configurations, no further notice will be given.  
The diagram shown may contain non-standard configurations.



## RATED CAPACITIES GRAPH

ES12-25WA





## Mast Option

Mast types	Lift height h3+h13 (mm)	Height, mast lowered h1 (mm)	Free lift h2 (mm)	Height, mast extended h4 (mm)
2-Standard Mast	2470	1710	150	3385
	2670	1810	150	3585
	2970	1960	150	3885
	3270	2110	150	4185
	3470	2210	150	4385
	3570	2260	150	4485
2-Free Mast	—	—	—	—
	—	—	—	—
3-Free Mast	4000	1822	904	4915
	4500	2022	1104	5415
	4800	2122	1204	5715
	5000	2187	1269	5915

## Option

No.	Optional items	ES12-25WA
1.1	Fork dimension	●1070○1150○1220○920
1.2	Fork lowered height	●60
1.3	Fork carriage width	●800
1.4	backrest height	●915mm
2.1	Load wheel type	●Double
2.2	Load wheel material	●Polyurethane
2.3	Drive wheel material	●Polyurethane
2.7	Battery capacity	●210Ah○205Ah(Li-ion)
2.8	Charger	●24V-30A External○24V-100A External (Li-ion)
2.9	Battery indicator	●With time○With time (Bluetooth, for Li-ion battery)
3.3	Water auto-filling system	●No○Yes and not customized (only for Lead-acid battery)
3.20	Telematics	●No○Yes and not customized (Only for Li-ion battery)
Note: ●Standard ○ Optional - Inconformity		



## ES12-12WA/ES14-14WA ES16-16WA Electric Stacker 1.2-1.6t

Ideal Choice for Heavy Duty Short Distance Handling and Stacking Tasks:  
Long-tiller Design Makes Operations Easy and Convenient;  
Long aside tiller offers wider view and safer operation.

**EP EQUIPMENT CO.,LTD**  
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## FEATURE

### Performance

- The innovative AC system offers strong power, accurate control, excellent performance.
- High strength vertical gearbox, longer working life.
- Low-noise but durable hydraulic unit, good quality cylinder as well as hose ensure the high reliability of hydraulic system.
- AMP connector and durable electric wires greatly reduce malfunctions of components.
- H shape mast channel mast improves the strength of the whole truck.



### Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Emergency reverse button protects the operator from getting hurt.
- Emergency disconnecter will cut off power source to avoid accident when truck goes out of control.
- Multiple lifting limit protection ensures safety.
- Automatic switch to lower speed when the fork reaches its setting height.
- Anti-rolling back brake keeps the truck from skidding down when truck is out of control or travelling on ramp.
- Long aside tiller reduces operator's hazards.

### Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently & comfortably.
- Creep speed function: when tiller is in near vertical position, the driving speed will decrease automatically, allowing delicate operation in confined space.
- Long tiller offers easier operation.
- Aside Operation, Greater View.
- Two-speed lowering offers better stability and accuracy of goods stacking.

### Maintenance

- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Back cover can be removed easily; Access to all key components for inspection, maintenance and replacement.
- Easy access for battery maintenance.
- Vertical motor makes the inspection & service much more convenient.
- Control system allows easy trouble-shooting.
- Mast and chassis are assembled together, easy for maintenance.
- Low voltage cut off setting protects batteries.

# Electric Stacker 1.2-1.6t

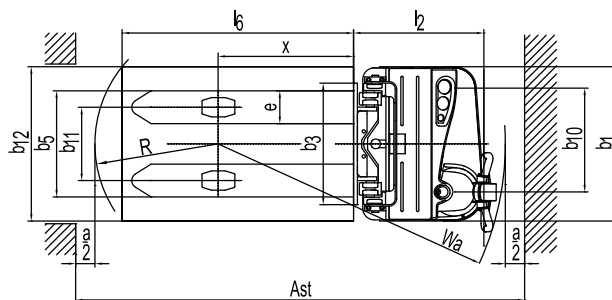
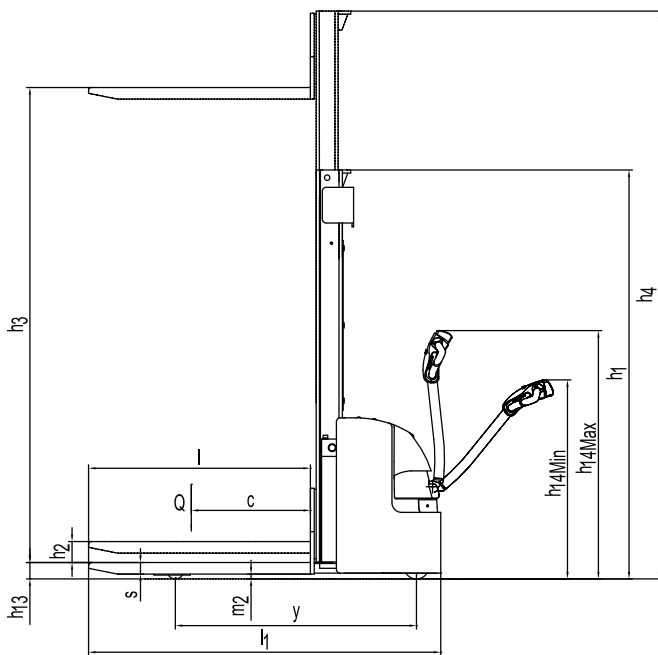
## ES12-12WA/ES14-14WA

## ES16-16WA

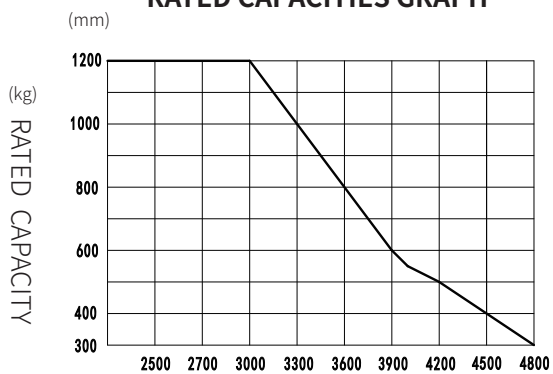
Distinguishing mark	1.1	Manufacturer			EP	EP	EP
	1.2	Model designation			ES12-12WA	ES14-14WA	ES16-16WA
	1.3	Drive			Electric	Electric	Electric
	1.4	Operator type			Pedestrian	Pedestrian	Pedestrian
	1.5	Load capacity	Q	kg	1200	1400	1600
	1.6	Load center distance	c	mm	600	600	600
	1.8	Load distance, centre of drive axle to fork	x	mm	688	693	693
	1.9	Wheelbase	y	mm	1315	1305	1305
Service weight	2.1	Service weight		kg	955	1050	1070
	2.2	Axle loading, laden front/rear		kg	715/1440	755/1695	780/1890
	2.3	Axle loading, unladen front/rear		kg	645/310	715/335	730/340
Tyres/chassis	3.1	Tyre type			Polyurethane	Polyurethane	Polyurethane
	3.2.1	Tyre size, front		mm	Φ230x75	Φ230x75	Φ230x75
	3.3.1	Tyre size, rear		mm	Φ85x70	Φ85x70	Φ85x70
	3.4	Additional wheels (castor wheels)		mm	Φ130x55	Φ130x55	Φ130x55
	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x +1/4	1x +1/4	1x +1/4
	3.6.1	Tread width, front	b10	mm	538	538	538
	3.7.1	Tread width, rear	b11	mm	380/515	360/495	360/495
Dimensions	4.0	Max. Lift Height	H	mm	3000	3000	3000
	4.2	Retracted mast height	h1	mm	1970	2030	2030
	4.3	Free lift	h2	mm	100	100	100
	4.4	Lift height	h3	mm	2912	2912	2912
	4.5	Height, mast extended	h4	mm	3420	3465	3465
	4.6	Initial lift	h5	mm	—	—	—
	4.9	Height of tiller handle in drive position min./max.	h14	mm	715/1200	715/1200	715/1200
	4.10	Height of wheel arms	h8	mm	—	—	—
	4.15	Lowered height	h13	mm	88	88	88
	4.19	Overall length	l1	mm	1826	1940	1940
	4.20	Length to face of forks	l2	mm	676	790	790
	4.21	Overall width	b1/b2	mm	800	800	800
	4.22	Fork dimensions	s/e/l	mm	60x170x1150	60x190x1150	60x190x1150
	4.24	Fork carriage width	b3	mm	—	—	—
	4.25	Distance between fork-arms	b5	mm	550/685	550/685	550/685
	4.26	Distance between wheel arms/loading surfaces	b4	mm	—	—	—
	4.31	Ground clearance, laden, below mast	m1	mm	—	—	—
	4.32	Ground clearance, center of wheelbase	m2	mm	28	30	30
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2333	2465	2465
	4.34.2	Aisle width for pallets 800×1200 crossways	Ast	mm	2303	2440	2440
Performance data	4.35	Turning radius	Wa	mm	1463	1589	1589
	5.1	Travel speed, laden/unladen		km/h	5.0/5.5	5.0/5.5	5.0/5.5
	5.2	Lifting speed, laden/unladen		m/s	0.10/0.16	0.13/0.16	0.13/0.16
	5.3	Lowering speed, laden/unladen		m/s	0.19/0.18	0.22/0.13	0.22/0.13
	5.8	Max. gradeability, laden/unladen		%	8/16	8/16	8/16
Electric-engine	5.10	Service brake			Electromagnetic	Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min		kW	1.1	1.1	1.1
	6.2	Lift motor rating at S3 15%		kW	2.2	3.0	3.0
	6.4	Battery voltage/nominal capacity		V/Ah	24/210	24/210	24/230
	6.5	Battery weight		kg	190	190	210
Addition data	8.1	Type of drive control			AC	AC	AC
	10.5	Steering design			Mechanical	Mechanical	Mechanical
	10.7	Sound pressure level at the driver's ear		dB(A)	74	74	74

If there are improvements of technical parameters or configurations, no further notice will be given.  
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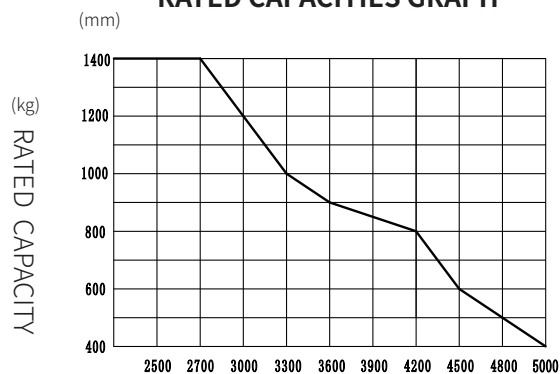


**RATED CAPACITIES GRAPH**



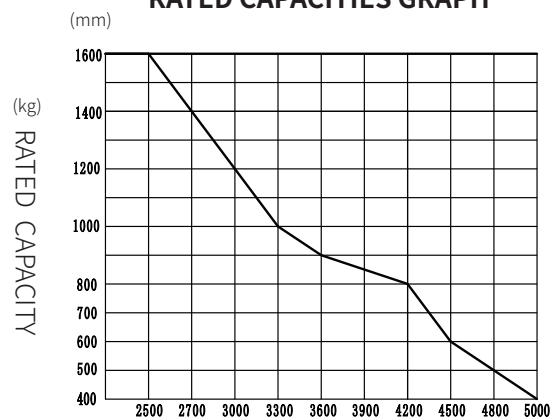
ES12-12WA LIFTING HEIGHT (mm)

**RATED CAPACITIES GRAPH**



ES14-14WA LIFTING HEIGHT (mm)

**RATED CAPACITIES GRAPH**



ES16-16WA LIFTING HEIGHT (mm)

## Mast Option

### ES12-12WA

Mast types	Lift height h3+h13 (mm)	Height, mast lowered h1 (mm)	Free lift h2 (mm)	Height, mast extended h4 (mm)
2-Standard Mast	2500	1720	100	2900
	2700	1820	100	3100
	3000	1970	100	3400
	3300	2120	100	3700
	3600	2270	100	4000
	3900	2420	100	4300
	4170	2550	100	4560
2-Free Mast	2700	1819	1320	3119
	3000	1969	1470	3419
	3300	2119	1620	3719
3-Free Mast	4000	1822	1390	4460
	4500	2022	1590	4960
	4800	2122	1690	5260

### ES14-14WA/ES16-16WA

Mast types	Lift height h3+h13 (mm)	Height, mast lowered h1 (mm)	Free lift h2 (mm)	Height, mast extended h4 (mm)
2-Standard Mast	2700	1870	100	3165
	3000	2020	100	3465
	3300	2170	100	3765
	3600	2320	100	4065
	3900	2470	100	4365
	4170	2600	100	4625
2-Free Mast	—	—	—	—
	—	—	—	—
	—	—	—	—
3-Free Mast	4000	1830	1390	4470
	4500	2030	1590	4970
	4800	2130	1690	5270

## Option

No.	Optional items	ES12-12WA	ES14-14WA/ES16-16WA
1.1	Fork length	●1150○1220	●1150○1220
1.2	Fork width	●550○685	●550○685
1.3	Fork lowered height	●88	●88
2.1	Load wheel type	●Double	●Double
2.2	Load wheel material	●PU	●PU
2.3	Drive wheel material	●PU○Trace PU	●PU○Trace PU
2.7	Battery capacity	●165Ah○210Ah○230Ah	●210Ah○230Ah
2.8	Charger	●24V-30A External	●24V-30A External
2.9	Battery indicator	●With time	●With time
3.3	Castor wheels	●	●
3.4	Water auto-filling system	○	○
3.7	Warning lamp	○	○
3.9	Blue lamp	○	○
3.12	Hummer	○	○
3.16	Vertical handler working	●	●
4.1	Battery side pull function	●	●
4.5	Proportional lift system	○	○

Note: ●Standard ○ Optional - Inconformity

# ES14-30WA

## 1400kg Electric Straddle Stacker

**EP**  
Let's grow together



- Adjustable straddle design offering wide applicability across various pallets
- Great maneuverability in narrow spaces thanks to turtle speed
- Standard proportional lifting system ensuring precise lifting
- Powerful AC vertical traction motor
- LI-ion battery option for flexibility and convenience



Manufacturer			EP
Model designation			ES14-30WA
Drive			Electric
Load capacity	Q	kg	1400
Load center distance	c	mm	600
Service weight		kg	1320
Lift height	h3	mm	3140
Height, mast extended	h4	mm	4115
Length to face of forks	l2	mm	917
Overall width	b1/b2	mm	1270/1370/1470
Fork dimensions	s/e/l	mm	40/100/1070
Turning radius	Wa	mm	1545
Max. gradeability, laden/unladen		%	8/10
Travel speed, laden/unladen		km/h	5.5/6.0
Lifting speed, laden/unladen		m/s	0.127/0.23
Lowering speed, laden/unladen		m/s	0.26/0.20
Battery voltage/nominal capacity		V/Ah	24/210

## FEATURE



### Performance

- The innovative AC system offers strong power, accurate control, excellent performance.
- High strength vertical gearbox, longer working life.
- Low-noise but durable hydraulic unit, good quality cylinder as well as hose ensure the high reliability of hydraulic system.
- AMP connector and durable electric wires greatly reduce malfunctions of components.
- H shape channel mast improves the strength of the whole truck.
- Saddle design ensures the stability of high lifting.



### Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Emergency reverse button protects the operator from getting hurt.
- Emergency disconnecter will cut off power source to avoid accident when truck goes out of control.
- Multiple lifting limit protection ensures safety.
- Automatic switch to lower speed when the fork reaches its setting height.
- Anti-rolling back brake keeps the truck from skidding down when truck is out of control or travelling on ramp.
- Long operational tiller ensures safety distance for operators.

### Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently & comfortably.
- Long tiller reduces the steering force greatly.
- Creep speed function: when tiller is in near vertical position, the driving speed will decrease automatically, allowing delicate operation in confined space.
- Side-open battery design for easy battery replacement and various applications.

### Maintenance

- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Easily remove the back cover by only loosening four bolts; Access to all key components for inspection, maintenance and replacement.
- Vertical motor makes the inspection & service much more convenient.
- Control system allows easy trouble-shooting.
- Mast and chassis are assembled together, easy for maintenance.
- Low voltage cut off setting protects batteries.

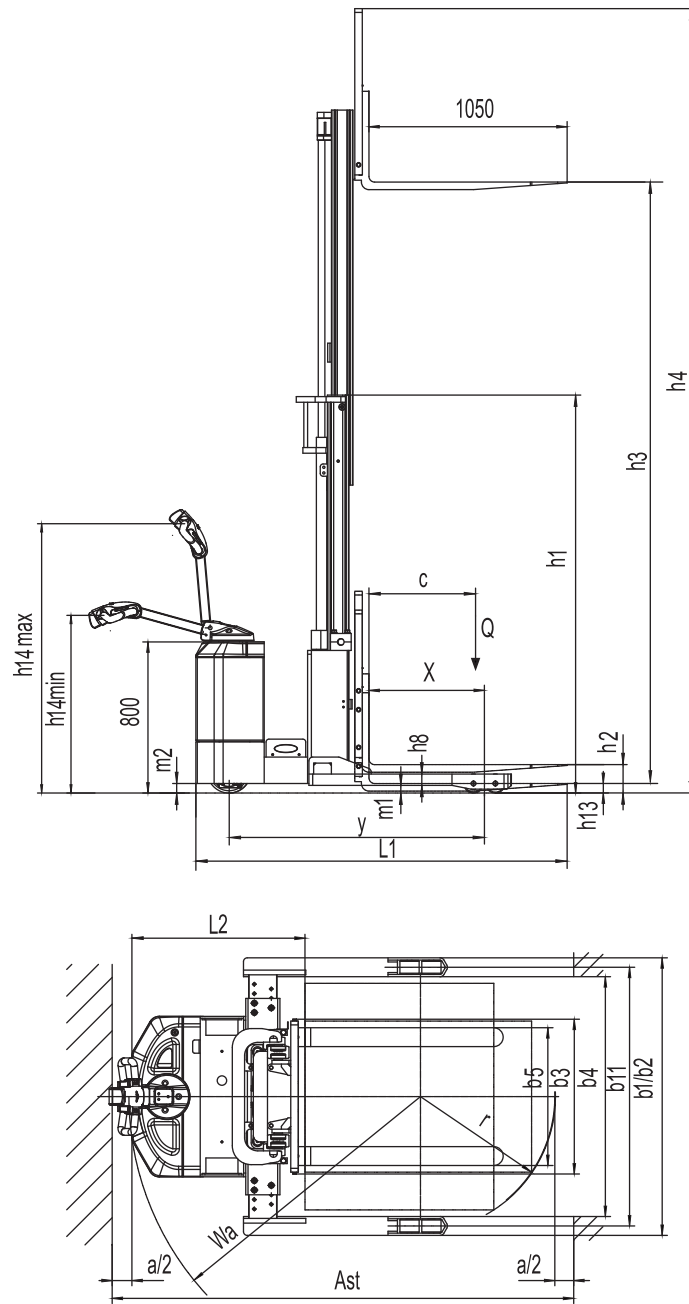


# Electric Stacker 1.4t

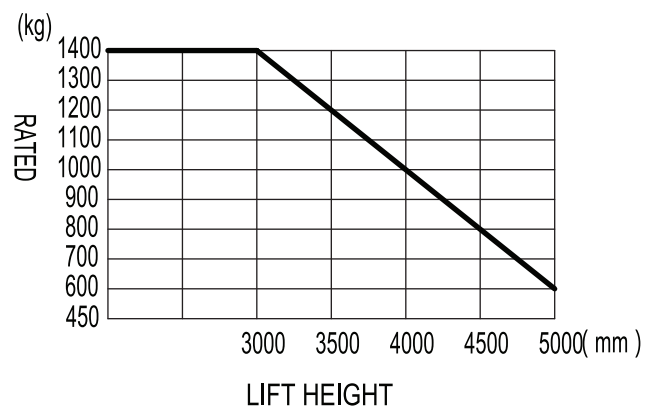
## ES14-30WA

Distinguishing mark	1.1	Manufacturer			EP
	1.2	Model designation			ES14-30WA
	1.3	Drive			Electric
	1.4	Operator type			Pedestrian
	1.5	Load capacity	Q	kg	1400
	1.6	Load center distance	c	mm	600
	1.8	Load distance, centre of drive axle to fork	x	mm	610
	1.9	Wheelbase	y	mm	1350
Service weight	2.1	Service weight		kg	1320
	2.2	Axle loading, laden front/rear		kg	815/1905
	2.3	Axle loading, unladen front/rear		kg	805/515
Tyres/chassis	3.1	Tyre type			Polyurethane
	3.2.1	Tyre size, front		mm	Φ230x75
	3.3.1	Tyre size, rear		mm	Φ102x73
	3.4	Additional wheels (castor wheels)		mm	Φ85x48
	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x+2/4
	3.6.1	Tread width, front	b10	mm	580
	3.7.1	Tread width, rear	b11	mm	1170/1270/1370
Dimensions	4.0	Max. Lift Height	H	mm	3200
	4.2	Retracted mast height	h1	mm	2118
	4.3	Free lift	h2	mm	150
	4.4	Lift height	h3	mm	3140
	4.5	Height, mast extended	h4	mm	4115
	4.6	Initial lift	h5	mm	—
	4.9	Height of tiller handle in drive position min./max.	h14	mm	990/1500
	4.10	Height of wheel arms	h8	mm	100
	4.15	Lowered height	h13	mm	60
	4.19	Overall length	l1	mm	1987
	4.20	Length to face of forks	l2	mm	917
	4.21	Overall width	b1/b2	mm	1270/1370/1470
	4.22	Fork dimensions	s/e/l	mm	40/100/1070
	4.24	Fork carriage width	b3	mm	800
	4.25	Distance between fork-arms	b5	mm	200-760
	4.26	Distance between wheel arms/loading surfaces	b4	mm	1070/1170/1270
	4.31	Ground clearance, laden, below mast	m1	mm	81
	4.32	Ground clearance, center of wheelbase	m2	mm	50
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2460
	4.34.2	Aisle width for pallets 800×1200 crossways	Ast	mm	2460
Performance data	4.35	Turning radius	Wa	mm	1545
	5.1	Travel speed, laden/unladen		km/h	5.5/6.0
	5.2	Lifting speed, laden/unladen		m/s	0.127/0.23
	5.3	Lowering speed, laden/unladen		m/s	0.26/0.20
	5.8	Max. gradeability, laden/unladen		%	8/10
Electric-engine	5.10	Service brake			Electromagnetic
	6.1	Drive motor rating S2 60 min		kW	1.1
	6.2	Lift motor rating at S3 15%		kW	3.0
	6.4	Battery voltage/nominal capacity		V/Ah	24/210
	6.5	Battery weight		kg	190
Addition data	8.1	Type of drive control			AC
	10.5	Steering design			Mechanical
	10.7	Sound pressure level at the driver's ear		dB(A)	74

If there are improvements of technical parameters or configurations, no further notice will be given.  
The diagram shown may contain non-standard configurations.



### RATED CAPACITIES GRAPH



## Mast Option

Mast types	Lift height h3+h13 (mm)	Height, mast lowered h1 (mm)	Free lift h2 (mm)	Height, mast extended h4 (mm)
2-Standard Mast	2640	1838	150	3555
	3000	2018	150	3915
	3200	2118	150	4115
	3590	2303	150	4505
2-Free Mast	—	—	—	—
	—	—	—	—
3-Free Mast	4000	1822	907	4915
	4500	2022	1107	5415
	4800	2122	1207	5715
	5000	2187	1272	5915

## Option

No.	Optional items	ES14-30WA
1.1	Fork dimension	●1070○1150○1220○920
1.2	Fork lowered height	●60
1.3	Fork carriage width	●800
1.4	backrest height	●915mm
2.1	Load wheel type	●Double
2.2	Load wheel material	●Polyurethane
2.3	Drive wheel material	●Polyurethane
2.7	Battery capacity	●210Ah○205Ah(Li-ion)
2.8	Charger	●24V-30A External○24V-100A External (Li-ion)
2.9	Battery indicator	●With time○With time (Bluetooth, only for Li-ion battery)
2.11	Attachments	●No○External shifter
3.2	Castor wheels	●Yes and can be customized
3.3	Water auto-filling system	●No○Yes and not customized (only for Lead-acid battery)
3.20	Telematics	●No○Yes and not customized (only for Li-ion battery)
4.5	Proportional lift system	●Yes and can be customized
Note: ●Standard ○ Optional - Inconformity		

# ES18-40WA

## 1800kg

### Electric Straddle Stacker

**EP**  
Let's grow together



- Straddle design offering wide applicability across various pallets
- Great maneuverability in narrow spaces thanks to turtle speed
- Standard proportional lifting system ensuring precise lifting
- Powerful AC vertical traction motor
- LI-ion battery option for flexibility and convenience



Manufacturer			EP
Model designation			ES18-40WA
Drive			Electric
Load capacity	Q	kg	1800
Load center distance	c	mm	600
Service weight		kg	1520
Lift height	h3	mm	3135
Height, mast extended	h4	mm	4115
Length to face of forks	l2	mm	1022
Overall width	b1/b2	mm	1270/1370/1470
Fork dimensions	s/e/l	mm	45/100/1070
Turning radius	Wa	mm	1645
Max. gradeability, laden/unladen		%	6/10
Travel speed, laden/unladen		km/h	4.5/5.0
Lifting speed, laden/unladen		m/s	0.127/0.23
Lowering speed, laden/unladen		m/s	0.26/0.20
Battery voltage/nominal capacity		V/Ah	24/280

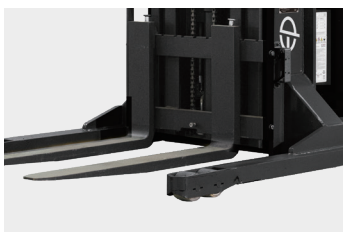


## FEATURE



### Performance

- The innovative AC system offers strong power, accurate control, excellent performance.
- High strength vertical gearbox, longer working life.
- Low-noise but durable hydraulic unit, good quality cylinder as well as hose ensure the high reliability of hydraulic system.
- AMP connector and durable electric wires greatly reduce malfunctions of components.
- H shape channel mast improves the strength of the whole truck.
- Saddle design ensures the stability of high lifting.



### Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Emergency reverse button protects the operator from getting hurt.
- Emergency disconnecter will cut off power source to avoid accident when truck goes out of control.
- Multiple lifting limit protection ensures safety.
- Automatic switch to lower speed when the fork reaches its setting height.
- Anti-rolling back brake keeps the truck from skidding down when truck is out of control or travelling on ramp.
- Long operational tiller ensures safety distance for operators.

### Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently & comfortably.
- Long tiller reduces the steering force greatly.
- Creep speed function: when tiller is in near vertical position, the driving speed will decrease automatically, allowing delicate operation in confined space.
- Side-open battery design for easy battery replacement and various applications.

### Maintenance

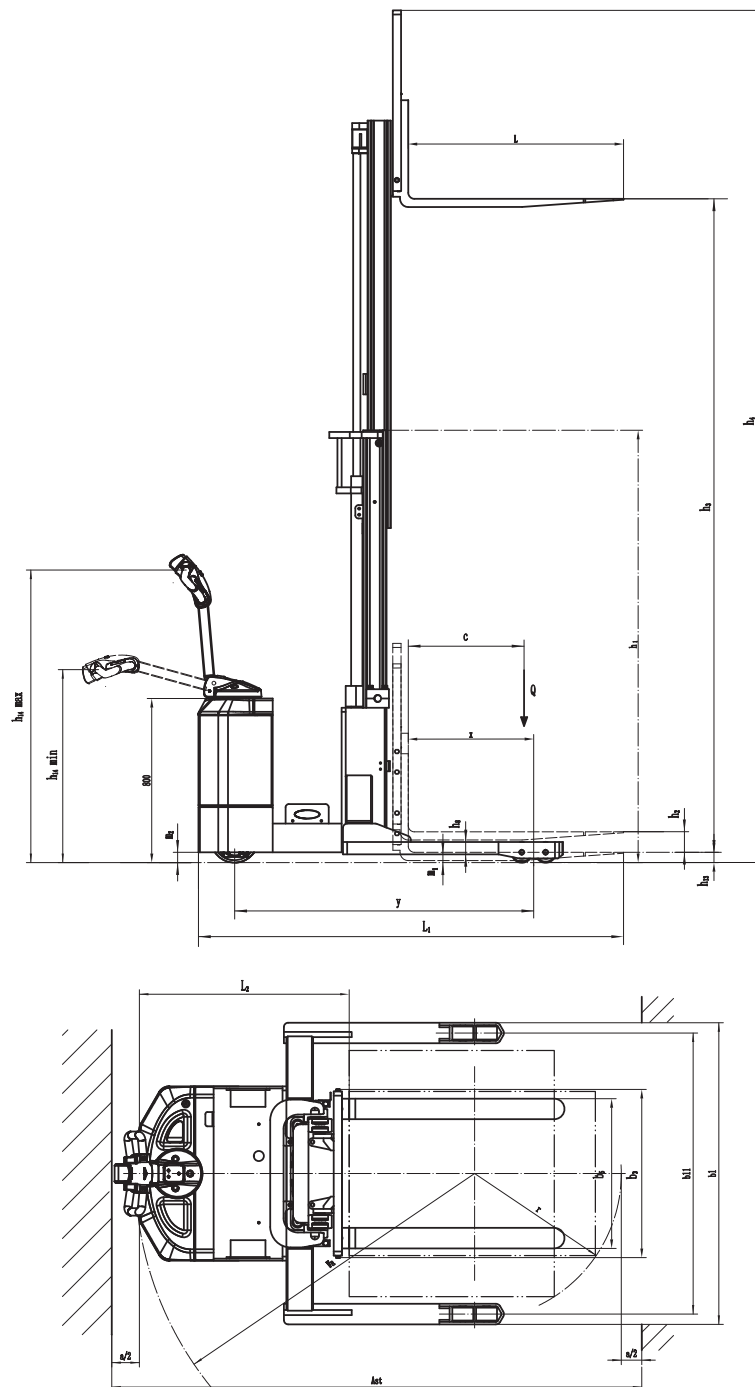
- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Easily remove the back cover by only loosening four bolts; Access to all key components for inspection, maintenance and replacement.
- Vertical motor makes the inspection & service much more convenient.
- Control system allows easy trouble-shooting.
- Mast and chassis are assembled together, easy for maintenance.
- Low voltage cut off setting protects batteries.

# Electric Stacker 1.8t

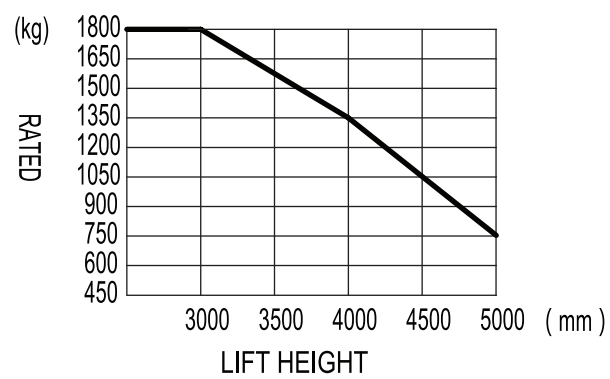
## ES18-40WA

Distinguishing mark	1.1	Manufacturer			EP
	1.2	Model designation			ES18-40WA
	1.3	Drive			Electric
	1.4	Operator type			Pedestrian
	1.5	Load capacity	Q	kg	1800
	1.6	Load center distance	c	mm	600
	1.8	Load distance, centre of drive axle to fork	x	mm	610
	1.9	Wheelbase	y	mm	1455
Service weight	2.1	Service weight		kg	1520
	2.2	Axle loading, laden front/rear		kg	945/2375
	2.3	Axle loading, unladen front/rear		kg	925/595
Tyres/chassis	3.1	Tyre type			Polyurethane
	3.2.1	Tyre size, front		mm	Φ230x75
	3.3.1	Tyre size, rear		mm	Φ102x73
	3.4	Additional wheels (castor wheels)		mm	Φ102x63.5
	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x+2/4
	3.6.1	Tread width, front	b10	mm	580
	3.7.1	Tread width, rear	b11	mm	1170/1270/1370
Dimensions	4.0	Max. Lift Height	H	mm	3200
	4.2	Retracted mast height	h1	mm	2118
	4.3	Free lift	h2	mm	150
	4.4	Lift height	h3	mm	3135
	4.5	Height, mast extended	h4	mm	4115
	4.6	Initial lift	h5	mm	—
	4.9	Height of tiller handle in drive position min./max.	h14	mm	990/1500
	4.10	Height of wheel arms	h8	mm	100
	4.15	Lowered height	h13	mm	65
	4.19	Overall length	l1	mm	2092
	4.20	Length to face of forks	l2	mm	1022
	4.21	Overall width	b1/b2	mm	1270/1370/1470
	4.22	Fork dimensions	s/e/l	mm	45/100/1070
	4.24	Fork carriage width	b3	mm	800
	4.25	Distance between fork-arms	b5	mm	200-760
	4.26	Distance between wheel arms/loading surfaces	b4	mm	1070/1170/1270
	4.31	Ground clearance, laden, below mast	m1	mm	81
	4.32	Ground clearance, center of wheelbase	m2	mm	50
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2560
	4.34.2	Aisle width for pallets 800×1200 crossways	Ast	mm	2560
Performance data	4.35	Turning radius	Wa	mm	1645
	5.1	Travel speed, laden/unladen		km/h	4.5/ 5.0
	5.2	Lifting speed, laden/unladen		m/s	0.127/0.23
	5.3	Lowering speed, laden/unladen		m/s	0.26/0.20
	5.8	Max. gradeability, laden/unladen		%	6/10
Electric-engine	5.10	Service brake			Electromagnetic
	6.1	Drive motor rating S2 60 min		kW	1.1
	6.2	Lift motor rating at S3 15%		kW	3.0
	6.4	Battery voltage/nominal capacity		V/Ah	24/280
	6.5	Battery weight		kg	250
Addition data	8.1	Type of drive control			AC
	10.5	Steering design			Mechanical
	10.7	Sound pressure level at the driver's ear		dB(A)	74

If there are improvements of technical parameters or configurations, no further notice will be given.  
The diagram shown may contain non-standard configurations.



RATED CAPACITIES GRAPH



## Mast Option

Mast types	Lift height h3+h13 (mm)	Height, mast lowered h1 (mm)	Free lift h2 (mm)	Height, mast extended h4 (mm)
2-Standard Mast	2640	1838	150	3555
	3000	2018	150	3915
	3200	2118	150	4115
	3590	2303	150	4505
2-Free Mast	—	—	—	—
	—	—	—	—
3-Free Mast	4000	1822	907	4915
	4500	2022	1107	5415
	4800	2122	1207	5715
	5000	2187	1272	5915

## Option

No.	Optional items	ES18-40WA
1.1	Fork dimension	●1070○1150○1220○920
1.2	Fork lowered height	●65
1.3	Fork carriage width	●800
1.4	backrest height	●915
1.5	Leg width	●1070○1170○1270
2.1	Load wheel type	●Double
2.2	Load wheel material	●Polyurethane
2.3	Drive wheel material	●Polyurethane
2.7	Battery capacity	●280Ah○360Ah○205Ah(Li-ion)
2.8	Charger	●24V-30A External○24V-50A External○24V-100A External (Li-ion)
2.9	Battery indicator	●With time○With time (Bluetooth)
2.11	Attachments	●No○External shifter
3.2	Castor wheels	●Yes and not customized
3.3	Water auto-filling system	●No○Yes and not customized (only for Lead-acid battery)
3.20	Telematics	●No○Yes and not customized (only for Li-ion battery)
4.5	Proportional lift system	●Yes and not customized
Note: ●Standard ○Optional - Inconformity		



# ES20-WA

## Electric Stacker2.0t

Ideal Choice for Heavy Duty Short Distance Handling and Stacking Tasks;  
Long-tiller Design Makes Operations Easy and Convenient;  
Long aside tiller offers wider view and safer operation.

**EP EQUIPMENT CO.,LTD**  
[www.ep-equipment.com](http://www.ep-equipment.com)





## FEATURE



### Performance

- The innovative AC system offers strong power, accurate control, excellent performance.
- High strength vertical gearbox, longer working life.
- Low-noise but durable hydraulic unit, good quality cylinder as well as hose ensure the high reliability of hydraulic system.
- AMP connector and durable electric wires greatly reduce malfunctions of components.
- CJ shape mast channel improves the strength of the whole truck.



### Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Emergency reverse belly button protects the operator from getting hurt.
- Emergency disconnecter will cut off power source to avoid accident when truck goes out of control.
- Multiple lifting limit protection ensures safety.
- Automatic switch to lower speed when the fork reaches its setting height.
- Anti-rolling back brake keeps the truck from skidding down when truck is out of control or travelling on ramp.
- Long aside tiller reduces operator's hazards.

### Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently & comfortably.
- Creep speed function: when tiller is in near vertical position, the driving speed will decrease automatically, allowing delicate operation in confined space.
- Long tiller offers easier operation.
- Aside Operation, Greater View.
- Two-speed lowering offers better stability and accuracy of goods stacking.

### Maintenance

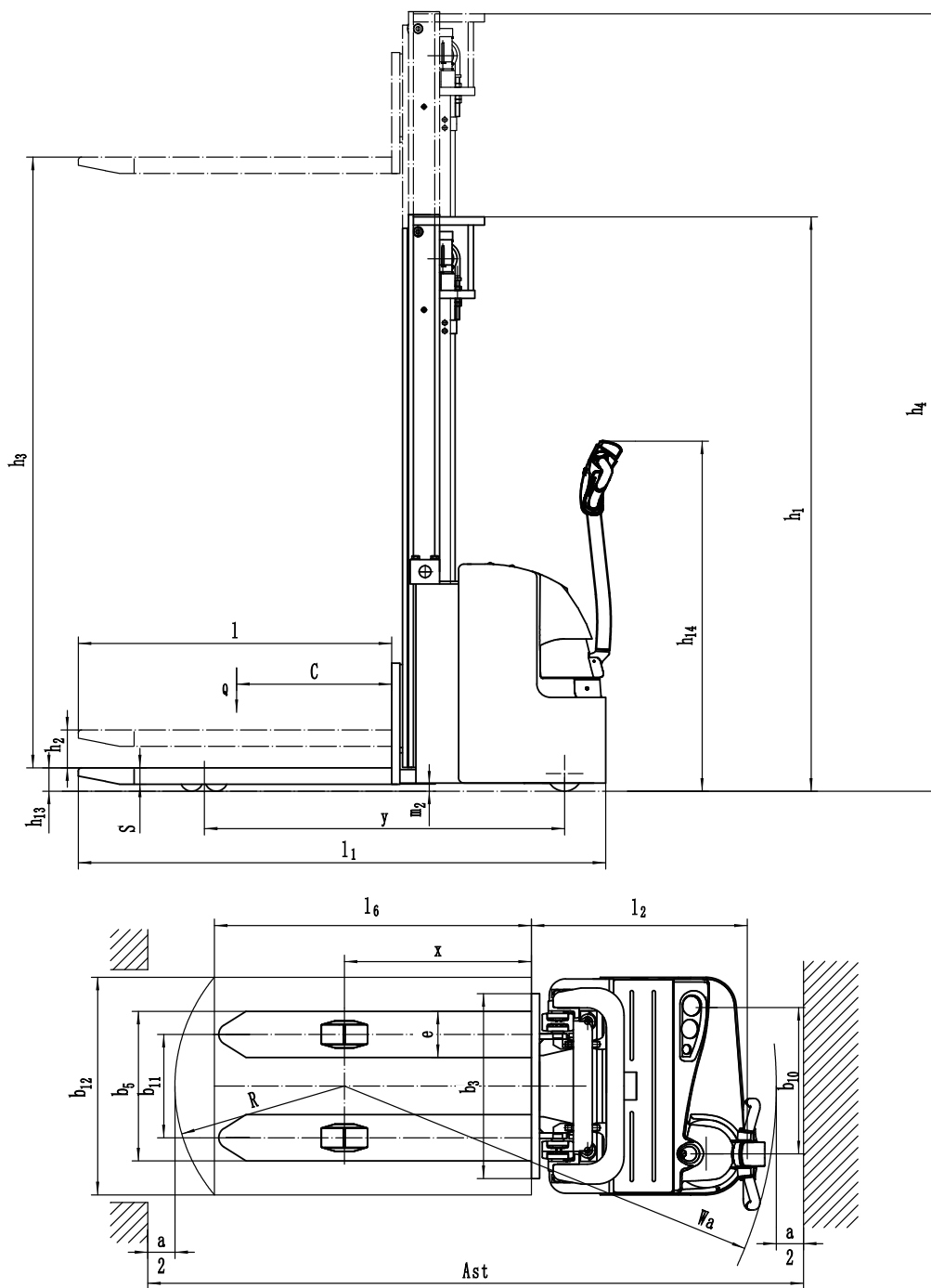
- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Back cover can be removed easily ; Access to all key components for inspection, maintenance and replacement.
- Easy access for battery maintenance.
- Vertical motor makes the inspection & service much more convenient.
- Control system allows easy trouble-shooting.
- Mast and chassis are assembled together, easy for maintenance.
- Low voltage cut off setting protects batteries.

# Electric Stacker2.0†

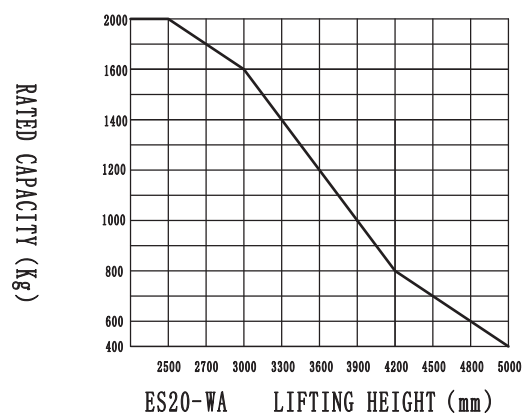
## ES20-WA

Distinguishing mark	1.1	Manufacturer			EP
	1.2	Model designation			ES20-WA
	1.3	Drive			Electric
	1.4	Operator type			Pedestrian
	1.5	Load capacity	Q	kg	2000
	1.6	Load center distance	c	mm	600
	1.8	Load distance, centre of drive axle to fork	x	mm	693
	1.9	Wheelbase	y	mm	1305
	2.1	Service weight		kg	1170
Service weight	2.2	Axle loading, laden front/rear		kg	850/2320
	2.3	Axle loading, unladen front/rear		kg	780/390
	3.1	Tyre type			Polyurethane
Tyres/chassis	3.2.1	Tyre size, front		mm	Φ230x75
	3.3.1	Tyre size, rear		mm	Φ85x70
	3.4	Additional wheels (castor wheels)		mm	Φ130x55
	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x +1/4
	3.6.1	Tread width, front	b10	mm	538
	3.7.1	Tread width, rear	b11	mm	410
Dimensions	4.0	Max. Lift Height	H	mm	3000
	4.2	Retracted mast height	h1	mm	2020
	4.3	Free lift	h2	mm	100
	4.4	Lift height	h3	mm	2912
	4.5	Height, mast extended	h4	mm	3465
	4.6	Initial lift	h5	mm	—
	4.9	Height of tiller handle in drive position min./max.	h14	mm	715/1200
	4.10	Height of wheel arms	h8	mm	—
	4.15	Lowered height	h13	mm	88
	4.19	Overall length	l1	mm	1940
	4.20	Length to face of forks	l2	mm	790
	4.21	Overall width	b1/b2	mm	800
	4.22	Fork dimensions	s/e/l	mm	60x190x1150
	4.24	Fork carriage width	b3	mm	—
	4.25	Distance between fork-arms	b5	mm	600
	4.26	Distance between wheel arms/loading surfaces	b4	mm	—
	4.31	Ground clearance, laden, below mast	m1	mm	—
	4.32	Ground clearance, center of wheelbase	m2	mm	18
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2465
	4.34.2	Aisle width for pallets 800×1200 crossways	Ast	mm	2440
Performance data	4.35	Turning radius	Wa	mm	1589
	5.1	Travel speed, laden/unladen		km/h	4.5/5.0
	5.2	Lifting speed, laden/unladen		m/s	0.11/0.16
	5.3	Lowering speed, laden/unladen		m/s	0.32/0.23
	5.8	Max. gradeability, laden/unladen		%	6/12
Electric-engine	5.10	Service brake			Electromagnetic
	6.1	Drive motor rating S2 60 min		kW	1.1
	6.2	Lift motor rating at S3 15%		kW	3.0
	6.4	Battery voltage/nominal capacity		V/Ah	24/280
	6.5	Battery weight		kg	240
Addition data	8.1	Type of drive control			AC
	10.5	Steering design			Mechanical
	10.7	Sound pressure level at the driver's ear		dB(A)	74

If there are improvements of technical parameters or configurations, no further notice will be given.  
The diagram shown may contain non-standard configurations.



## RATED CAPACITIES GRAPH



## Mast Option

Mast types	Lift height h3+h13 (mm)	Height, mast lowered h1 (mm)	Free lift h2 (mm)	Height, mast extended h4 (mm)
2-Standard Mast	2500	1770	100	2965
	2700	1870	100	3165
	3000	2020	100	3465
	3300	2170	100	3765
	3600	2320	100	4065
	3900	2470	100	4365
2-Free Mast	—	—	—	—
	—	—	—	—
	—	—	—	—
3-Free Mast	4000	1830	1390	4470
	4500	2030	1590	4970
	4800	2130	1690	5270
	5000	2195	1740	5470
	5500	2360	1910	5970

## Option

No.	Optional items	ES20-WA
1.1	Fork dimension	●600*1150○600*1220○685*1150○685*1220
1.3	Fork lowered height	●88
2.1	Load wheel type	●Double
2.2	Load wheel material	●PU
2.3	Drive wheel material	●PU
2.7	Battery capacity	●280Ah○205Ah(Li-ion)
2.8	Charger	●24V-30A External○24V-50A External (Li-ion) ○24V-100A External (Li-ion)
2.9	Battery indicator	●With time○With time (Bluetooth, only for Li-ion battery)
3.2	Castor wheels	●Yes and not customized
3.3	Water auto-filling system	●No○Yes and not customized(only for Lead-acid Battery)
3.20	Telematics	●No○Yes and not customized(only for Li-ion Battery)
4.1	Battery side pull function	●Yes and not customized
4.5	Proportional lift system	●No ○Yes and not customized
5.1	Battery side pull attachment	●No○Side-pull trolley
Note: ●Standard ○ Optional - Inconformity		