

# ESA121

## Electric Pedestrian Stacker 1.2 ton



- Modern, compact, robust, reliable, multipurpose stacker equipped with “plug and play” solutions
- H beam mast with two side cylinders for improved stability and visibility
- Faster lifting and lowering speeds delivering higher stacking performance and efficiency
- User-friendly cover with document, objects and cup pocket and optional USB port to charge any device
- Both AGM and lithium batteries available to suit different needs
- Integrated charger as standard offering charging convenience
- Market-proven drive unit for reliability assurance
- Mono mast and duplex mast in fork and straddle configurations to meet various needs



Manufacturer			EP
Model designation			ESA121
Drive			Electric
Load capacity	Q	kg	1200
Load center distance	c	mm	600
Service weight		kg	700
Retracted mast height	h1	mm	1995
Lift height	h3	mm	2930
Length to face of forks	l2	mm	610
Overall width	b1/b2	mm	826
Fork dimensions	s/e/l	mm	60/170/1150
Turning radius	Wa	mm	1480
Max. gradeability, laden/unladen		%	3/10
Travel speed, laden/unladen		km/h	4.0/4.5
Lifting speed, laden/unladen		m/s	0.15/0.24
Lowering speed, laden/unladen		m/s	0.21/0.20
Battery voltage/nominal capacity		V/Ah	24/105

## FEATURE

### ■ Improved mast offering stable operation and good visibility

Safety is a top priority. The structure of the ESA121 is common as heavy duty stackers: two side lifting cylinders grant an excellent visibility and the H-beam mast ensures a robust and rigid structure that grant less frame torsion when carrying heavier loads. These offer the best residual capacity (800kg at 3600mm elevation) and the higher elevation (4100mm) in its class.



### ■ Higher lifting and lowering performance for productivity boost

Compared to the ES12-12ES, the lifting power of the ESA121 is improved from 2.2kW to 3.0kW, which naturally improves the lifting and lowering speeds and increase turnover efficiency. Soft landing fork is one of the standard feature, providing low noise and perfect handling of fragile loads and the automatic speed reduction when lifting up to top is available as an option for safety assurance.

### ■ Maintenance-free battery with integrated charger

The ESA121 offers options of AGM battery and lithium battery, both of which are maintenance-free, to fulfill various needs. It comes with a standard integrated charger for charging convenience.

### ■ User-centered design improving daily convenience

The new cover is designed around user-centered advantages to offer maximum convenience for daily use. The operator is allowed to take paper documents and cups even charge electronic devices on the go.



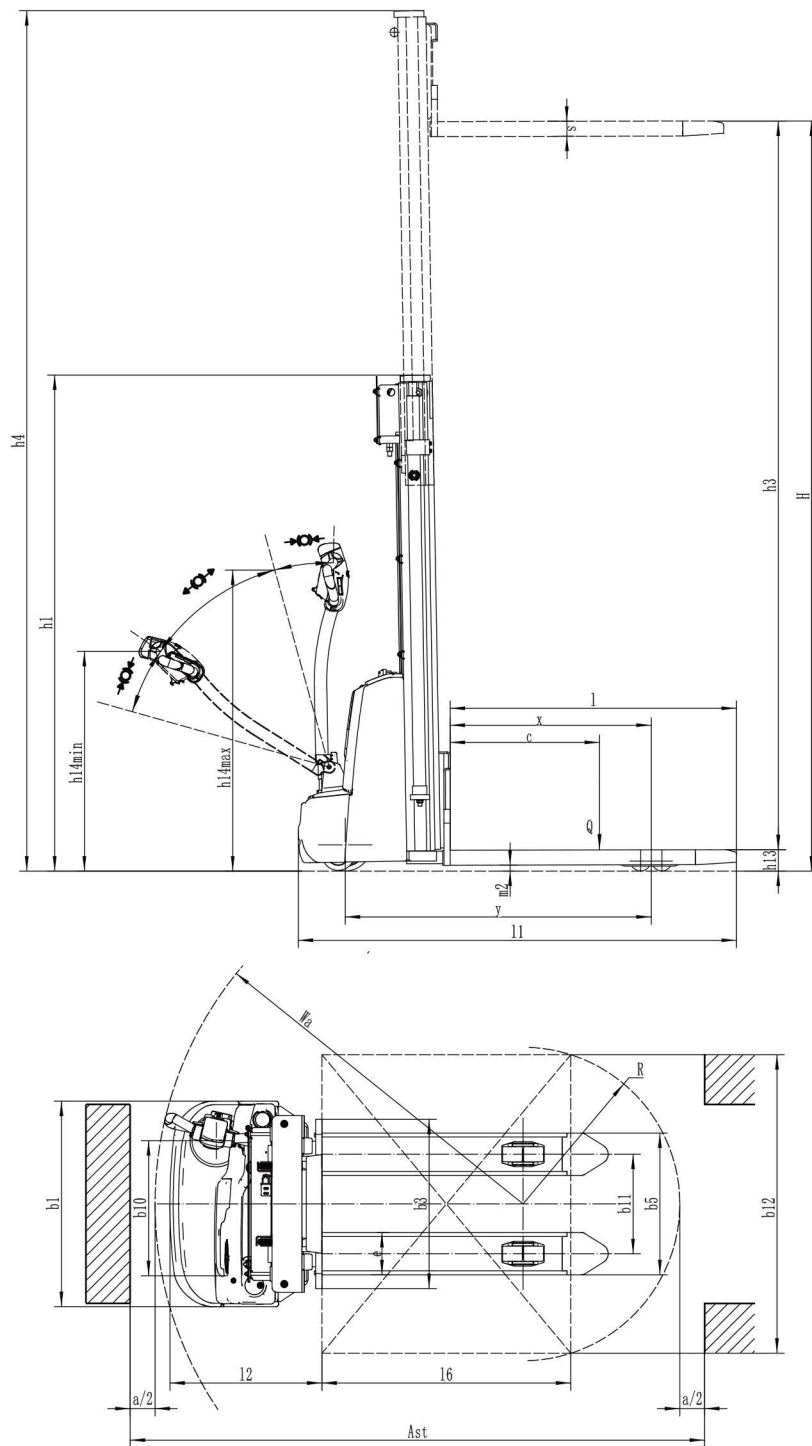
# Electric Pedestrian Stacker 1200kg

ESA121 / ES. 121 / ES. 121 / ES. 121

Distinguishing mark	1.1	Manufacturer			EP
	1.2	Model designation			ESA121
	1.3	Drive			Electric
	1.4	Operator type			Pedestrian
	1.5	Load capacity	Q	kg	1200
	1.5.1	Load capacity, load with mast lift	Q1	kg	—
	1.5.2	Load capacity, load with support arm lift	Q2	kg	—
Service weight	1.6	Load center distance	c	mm	600
	1.8	Load distance, centre of drive axle to fork	x	mm	808
	1.9	Wheelbase	y	mm	1230
Tyres/chassis	2.1	Service weight		kg	700
	2.2	Axle loading, laden front/rear		kg	720/1180
	2.3	Axle loading, unladen front/rear		kg	520/180
	3.1	Tyre type			Polyurethane
	3.2.1	Tyre size, front		mm	Ø214×70
	3.3.1	Tyre size, rear		mm	Ø80×61
	3.4	Additional wheels (castor wheels)		mm	Ø130×55
Dimensions	3.5	Wheels, number front/rear (x=drive wheels)		mm	1x , 1/4
	3.6.1	Tread width, front	b10	mm	543
	3.7.1	Tread width, rear	b11	mm	400
	4.0	Max. Lift Height	H	mm	—
	4.2	Retracted mast height	h1	mm	1995
	4.3	Free lift	h2	mm	—
	4.4	Lift height	h3	mm	2930
	4.5	Height, mast extended	h4	mm	3460
	4.6	Initial lift	h5	mm	—
	4.9	Height of tiller handle in drive position min./max.	h14	mm	760/1140
	4.10	Height of wheel arms	h8	mm	—
	4.15	Lowered height	h13	mm	90
	4.19	Overall length	l1	mm	1760
	4.20	Length to face of forks	l2	mm	610
	4.21	Overall width	b1/b2	mm	826
	4.22	Fork dimensions	s/e/l	mm	60/170/1150
	4.24	Fork carriage width	b3	mm	680
	4.25	Distance between fork-arms	b5	mm	570
	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	23
Performance data	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2310
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	2240
	4.35	Turning radius	Wa	mm	1480
	5.1	Travel speed, laden/unladen		km/ h	4.0/4.5
	5.2	Lifting speed, laden/unladen		m/s	0.15/0.24
Electric-engine	5.3	Lowering speed, laden/unladen		m/s	0.21/0.20
	5.8	Max. gradeability, laden/unladen		%	3/10
	5.10	Service brake			Electromagnetic
	6.1	Drive motor rating S2 60 min		kW	0.65
	6.2	Lift motor rating at S3 15%		kW	3.0
Addition data	6.4	Battery voltage/nominal capacity		V/Ah	24V/105Ah
	6.5	Battery weight		kg	61
	8.1	Type of drive control			DC
	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.

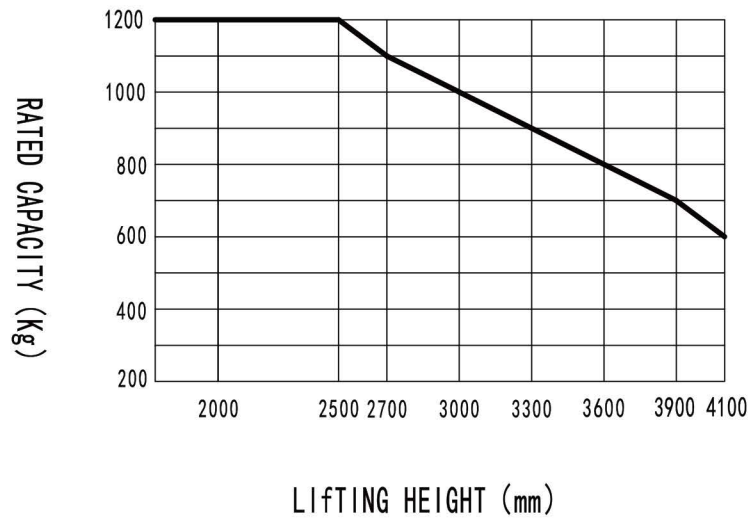




## ESA121 Mast Option

Mast types	Lift height $h_3+h_{13}(\text{mm})$	Height, mast lowered $h_1(\text{mm})$	Free lift $h_2(\text{mm})$	Height, mast extended $h_4(\text{mm})$
2-Standard Mast	2513	1745	—	2960
	2713	1845	—	3160
	3013	1995	—	3460
	3313	2145	—	3760
	3613	2295	—	4060
	3813	2395	—	4260
	3913	2445	—	4360
	4113	2545	—	4560

## RATED CAPACITIES GRAPH



## ESA121 Option

No.	Optional items	ESA121
1.1	Fork dimension	●570*1150○685*1150○570*1000 ○685*1000○570*1220○685*1220
1.3	Fork lowered height	●90
1.4	Fork carriage width	●680mm○770mm
2.1	Load wheel type	●Double
2.2	Load wheel material	●PU
2.3	Drive wheel material	●PU
2.7	Battery capacity	●105Ah(AGM)○125Ah(AGM)○100Ah(Li-ion)
2.8	Charger	●24V-15A integrated (AGM)○24V-30A integrated(Li-ion)
2.9	Battery indicator	●With time
2.16	handle head type	●Hands big handle head
3.3	Castor wheels	●Yes and not customized
3.16	Turtle speed	●Yes and not customized
3.26	USB Outlets	●No○Yes and not customized
3.27	Automatic lifting speed reduction	●No○Yes and not customized
Note: ●Standard ○ Optional - Inconformity		