





# ES12-12WA

## ELECTRIC STACKER 1.2T

 1200 kg  4800 mm  24 V Lead Acid/Li-ion



The ES-WA Series is designed for warehouses, logistics hubs, and distribution centers that require reliable and heavy-duty stackers for medium-to-high racking. With chassis width of just 800 mm and a turning radius as low as 1463 mm, they perform efficiently in confined spaces. Long tiller design ensures safer and more comfortable operation, while proportional lift system (optional) allows smooth and precise load handling.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Lead Acid/Li-ion
Battery nominal capacity		Ah	210
Battery voltage		V	24
Load capacity	Q	kg	1200
Load centre distance	c	mm	600
Service weight		kg	955
Retracted mast height	$h_1$	mm	1970
Lift height	$h_3$	mm	2912
Height, mast extended	$h_4$	mm	3420
Overall length		mm	1826
Overall width	$b_1/b_2$	mm	800
Length to face of forks	l2	mm	676
Fork dimensions	s/e/l	mm	60x170x1150
Turning radius		Wa	1463
Operator type			Pedestrian
Load distance, centre of drive axle to fork		mm	688

# Features

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## Strong and durable build

Equipped with an innovative AC system, high-strength gearbox, and robust hydraulic unit, the ES-WA Series ensures long service life and reliable performance in intensive warehouse environments.



## Safe and ergonomic operation

Safety features include emergency reverse button, anti-rollback brake, multiple lifting limit protections, and automatic speed reduction at height. The long tiller design improves visibility and operator comfort.

## Flexible mast and battery options

With lift heights ranging from 2.5 m to 5.5 m and battery capacities up to 230Ah, the ES-WA Series adapts to diverse warehouse requirements, from light to heavy-duty stacking cycles.





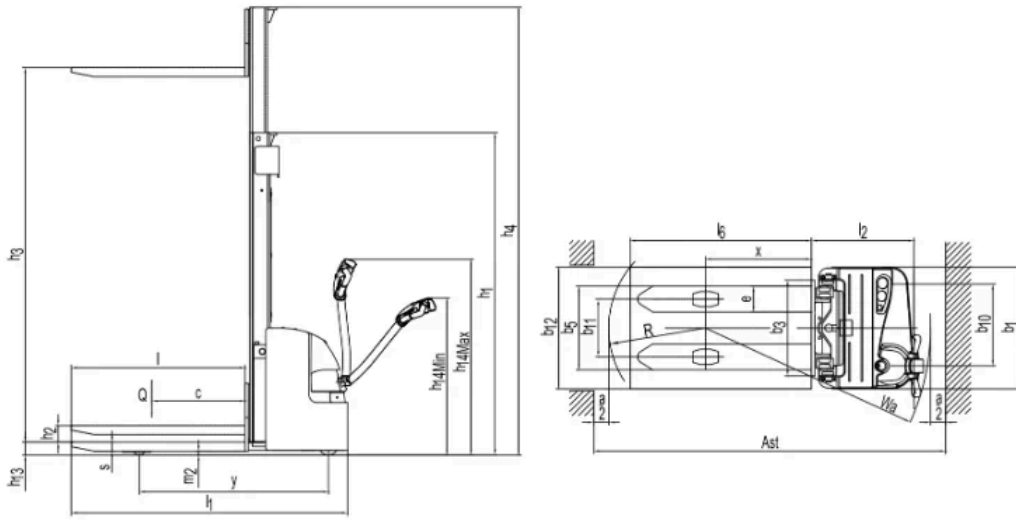
## Efficient and precise load handling

Two-speed lowering and optional proportional lift system give operators greater stability and accuracy when stacking at high levels, ensuring safe and efficient pallet placement.

## VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Pedestrian
1.5	Load capacity	Q	kg	1200
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork		mm	688
1.9	Wheelbase		mm	1315
2.1	Service weight		kg	955
2.2	Axle loading, laden front/rear		kg	715/1440
2.3	Axle loading, unladen front/rear		kg	645/310
3.1	Tyre type			Polyurethane
3.2	Tyre size, front		mm	Φ230x75
3.3	Tyre size, rear		mm	Φ85x70
3.4	Additional wheels (castor wheels)		mm	Φ130x55
3.5	Wheels, number front/rear (x=drive wheels)			1x +1/4
3.6.1	Tread width, front	b <sub>10</sub>	mm	538
3.7.1	Tread width, rear	b <sub>11</sub>	mm	380/515
4.0	Max lift height	H	mm	4800
4.15	Lowered height			88
4.19	Overall length		mm	1826
4.2	Retracted mast height	h <sub>1</sub>	mm	1970
4.20	Length to face of forks	l <sub>2</sub>	mm	676
4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	800
4.22	Fork dimensions	s/e/l	mm	60x170x1150
4.24	Fork carriage width		mm	-
4.25	Distance between fork-arms			550/685

SPECIFICATION	REF	UNIT	VALUE	
4.26	Distance between wheel arms/loading surfaces		-	
4.3	Free lift	mm	100	
4.31	Ground clearance, laden, below mast	mm	-	
4.32	Ground clearance, centre of wheelbase	mm	28	
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	2333	
4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	2303	
4.35	Turning radius	Wa	1463	
4.4	Lift height	h <sub>3</sub>	mm	2912
4.5	Height, mast extended	h <sub>4</sub>	mm	3420
4.6	Initial lift	mm	-	
4.9	Height of tiller handle in drive position min./max.		715/1200	
5.1	Travel speed, laden/unladen	km/h	5.0/5.5	
5.10	Service brake		Electromagnetic	
5.2	Lifting speed, laden/unladen	m/s	0.10/0.16	
5.3	Lowering speed, laden/unladen	m/s	0.19/0.18	
5.8	Max. gradeability, laden/unladen	%	8/16	
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 nominal capacity	Ah	210	
6.4	Battery voltage	V	24	
6.4.1	Battery type		Lead Acid/Li-ion	
6.5	Battery weight	kg	190	
8.1	Type of drive control		AC	
10.5	Steering design		Mechanical	
10.7	Sound pressure level at the drivers ear	dB(A)	74	



## Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)
2-Standard Mast	2500	1720	2900	100

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)
2-Standard Mast	2700	1820	3100	100
2-Standard Mast	3000	1970	3400	100
2-Standard Mast	3300	2120	3700	100
2-Standard Mast	3600	2270	4000	100
2-Standard Mast	3900	2420	4300	100
2-Standard Mast	4170	2550	4560	100
2-Free Mast	2700	1819	3119	1320
2-Free Mast	3000	1969	3419	1470
2-Free Mast	3300	2119	3719	1620
3-Free Mast	4000	1822	4460	1390
3-Free Mast	4500	2022	4960	1590
3-Free Mast	4800	2122	5260	1690

## Options

ITEM	OPTIONS (optional items marked in yellow)
Fork lowered height	88
Load wheel type	Double
Load wheel material	PU
Drive wheel material	PU   Trace PU
Battery capacity	165Ah   210Ah   230Ah
Charger	24V-30A external
Battery display indicator (BDI)	With time
Fork length	1150   1220
Fork width	550   685