

ESA121-D

ELECTRIC PEDESTRIAN STACKER STRADDLE 1.2T

 1200 kg  4080 mm  24 V Li-Ion/AGM



The ESA121-D is ideal for warehouses, retail, and distribution centers that handle a mix of standard and closed pallets. The straddle legs provide extra support and stability when lifting to higher levels, ensuring safety under load. With creep speed mode and ergonomic tiller, it delivers precise and controlled maneuvering in confined areas, making it highly effective for mixed-pallet handling operations.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			ESA121-D
Battery voltage		V	24
Rated capacity	Q	kg	1200
Load centre distance	c	mm	600
Service weight		kg	820
Height, mast lowered	h_1	mm	2425
Lift	h_3	mm	3730
Height, mast extended	h_4	mm	4700
Overall length	l_1	mm	1720
Overall width	b_1/b_2	mm	1156/1232/1308/1384
Length to face of forks	l_2	mm	650
Fork dimensions	s/e/l	mm	40/100/1070
Turning radius	W_a	mm	1475
Drive			Electric
Operator type			Pedestrian

Features

Versatile straddle leg design

The adjustable straddle legs make the ESA121 Straddle capable of handling closed pallets and unusual load types. This feature ensures flexibility across diverse warehouse applications.



Medium-to-high lift performance

Offering lift heights up to 3.6 meters, the ESA121 Straddle provides reliable stacking for medium rack systems. Its strong mast structure ensures stability and residual capacity under load.

Flexible power solutions

Available with AGM or Li-ion batteries, the truck supports fast, opportunity charging and reduced maintenance. The integrated charger simplifies daily workflows and ensures reliable uptime.



User-centered design

With a narrow chassis, ergonomic tiller, and turtle speed mode, the ESA121 Straddle delivers precise maneuverability and operator comfort, even in tight warehouse spaces.

VDI Chart

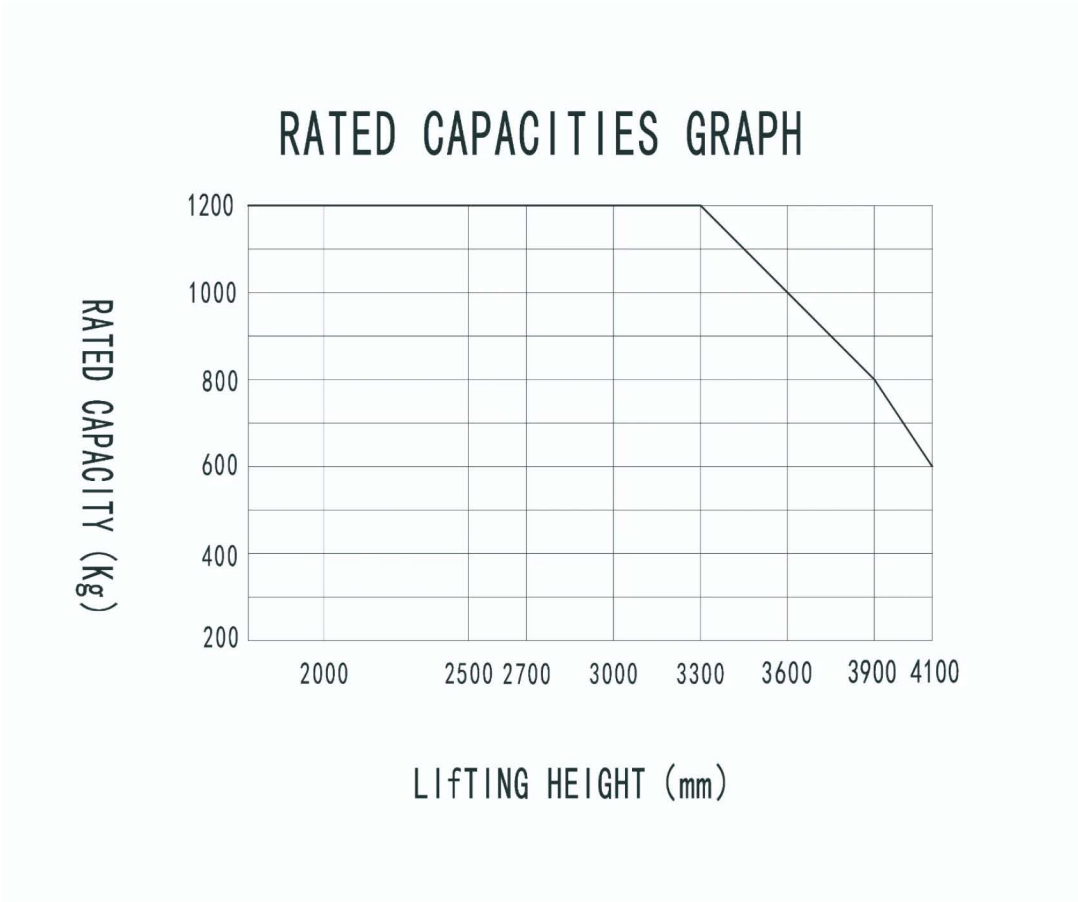
	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			ESA121-D
1.3	Drive			Electric
1.4	Operator type			Pedestrian
1.5	Rated capacity	Q	kg	1200
1.6	Load centre distance	C	mm	600

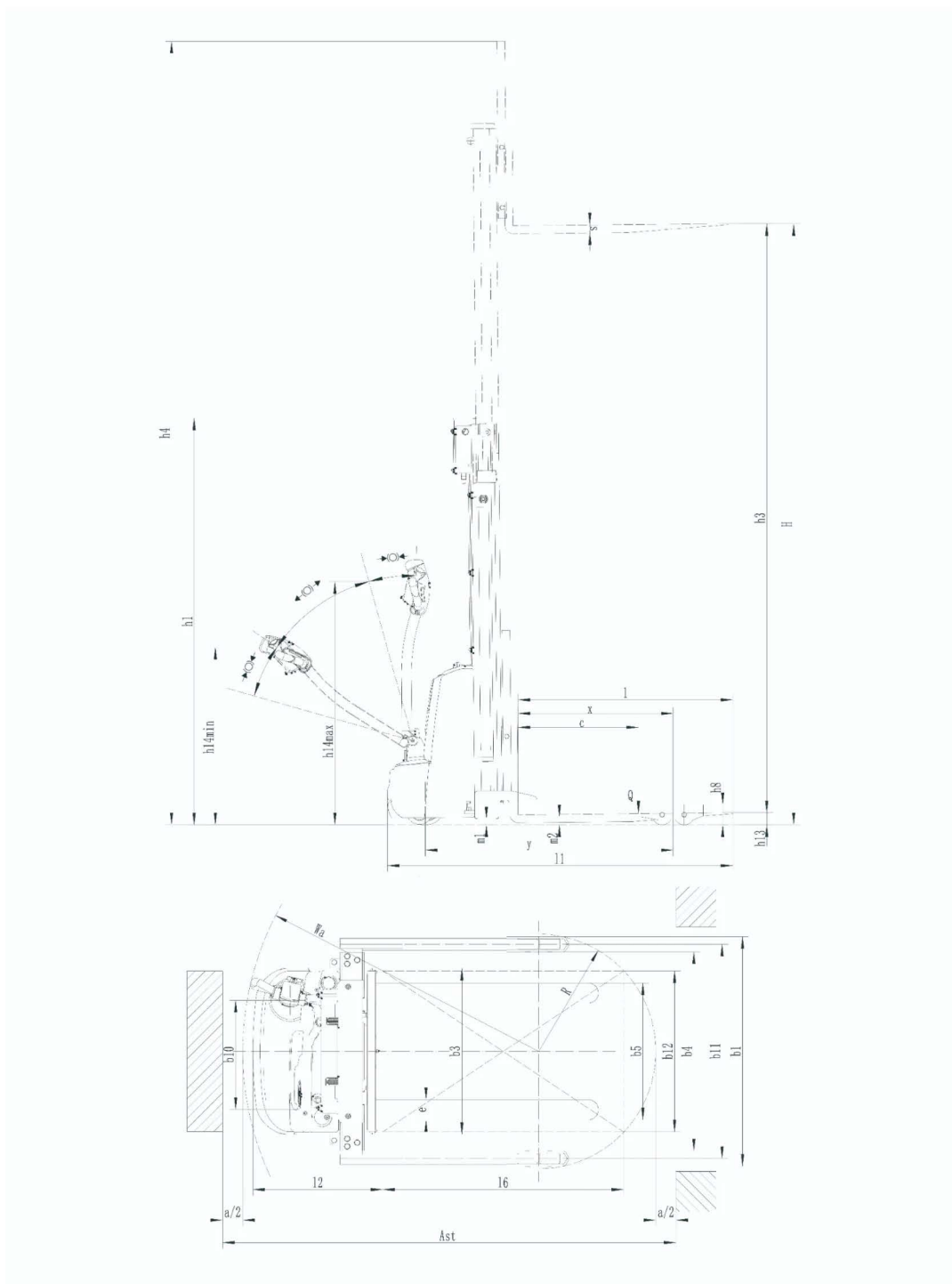
	SPECIFICATION	REF	UNIT	VALUE
1.8	Load distance, centre of drive axle to fork	x	mm	773
1.9	Wheelbase	y	mm	1235
2.1	Service weight		kg	820
2.2	Axle loading, laden front/rear		kg	770/1250
2.3	Axle loading, unladen front/rear		kg	600/220
3.1	Tyres			Polyurethane
3.2	Tyre size, front		mm	Ø214×70
3.3	Tyre size, rear		mm	Φ102x50
3.4	Additional wheels (castor wheels)		mm	Ø130×55
3.5	Wheels, number front/rear (x=drive wheels)			1x , 1/4
3.6	Tread width, front	b ₁₀	mm	543
3.7	Tread width, rear	b ₁₁	mm	1070/1146/1222/1298
4.2	Height, mast lowered	h ₁	mm	2425
4.4	Lift	h ₃	mm	3730
4.5	Height, mast extended	h ₄	mm	4700
4.9	Height drawbar in driving position min./max.	h ₁₄	mm	760/1140
4.10	Height of wheel arms		mm	100
4.15	Height, lowered	h ₁₃	mm	63
4.19	Overall length	l ₁	mm	1720
4.20	Length to face of forks	l ₂	mm	650
4.21	Overall width	b ₁ /b ₂	mm	1156/1232/1308/1384
4.22	Fork dimensions	s/e/l	mm	40/100/1070
4.24	Fork carriage width		mm	826
4.25	Distance between fork-arms	b ₅	mm	200~780
4.26	Distance between wheel arms/loading surfaces			991/1067/1143/1219
4.31	Ground clearance, laden, below mast		mm	30
4.32	Ground clearance, centre of wheelbase	m ₂	mm	40
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2375
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2263
4.35	Turning radius	wa	mm	1475
5.1	Travel speed, laden/unladen		km/h	4.0/4.5
5.2	Lift speed, laden/unladen		m/s	0.15/0.24
5.3	Lowering speed, laden/unladen		m/s	0.2/0.21
5.8	Max. gradeability, laden/unladen		%	3/10

	SPECIFICATION	REF	UNIT	VALUE
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
6.4.1	Battery voltage		V	24
6.4.2	Battery nominal capacity K5		Ah	105
6.4.3	Battery type			Li-Ion/AGM
6.5	Battery weight		kg	61
8.1	Type of drive unit			DC
10.5	Steering design			Mechanical
10.7	Sound pressure level at the driver's seat		dB(A)	<74

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.

VDI Drawing





Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)
2-Standard Mast	2480	1775	3400
2-Standard Mast	2680	1875	3600
2-Standard Mast	2980	2025	3900
2-Standard Mast	3280	2175	4200

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)
2-Standard Mast	3580	2325	4500
2-Standard Mast	3780	2425	4700
2-Standard Mast	3880	2475	4800
2-Standard Mast	4080	2575	5000

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	900*600, 2A 100*40*1070 900*600, 2A, 100*40*1220 900*600, 2A, 100*40*1150
Fork lowered height	63
Fork carriage width option	826mm (32.5in)
Backrest height	917mm (36in)
Load wheel type	Double
Load wheel material	PU
Drive wheel material	PU
Battery capacity	105Ah(AGM) 125Ah(AGM) 100Ah(Li-ion)
Charger	24V-15A integrated (AGM) 24V-30A integrated(Li-ion)
Battery indicator	With hourmeter
Handle head type	Dual handle - Large Tiller
Castor wheels	Yes and not customized
Turtle speed	Yes and not customized
USB interface	Yes and not customized
USB outlet	No Yes and not customized
Lifting electronic limit	No Yes and not customized