ESA121-D

ELECTRIC PEDESTRIAN STACKER STRADDLE 1.2T

1200 kg | 4080 mm | 24 V Li-Ion/AGM

The ESA121 Straddle 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
Battery type			Li-Ion/AGM
Battery nominal capacity		Ah	105
Battery voltage		V	24
Load capacity	Q	kg	1200
Load centre distance	c	mm	600
Service weight		kg	820
Retracted mast height	h_1	mm	2425
Lift height	h_3	mm	3730
Height, mast extended	h_4	mm	4700
Overall length		mm	1720
Overall width	b_1/b_2	mm	1156/1232/1308/1384
Length to face of forks	l2	mm	650
Fork dimensions	s/e/l	mm	40/100/1070
Turning radius		Wa	1475
Operator type			Pedestrian
Load distance, centre of drive axle to fork		mm	773

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

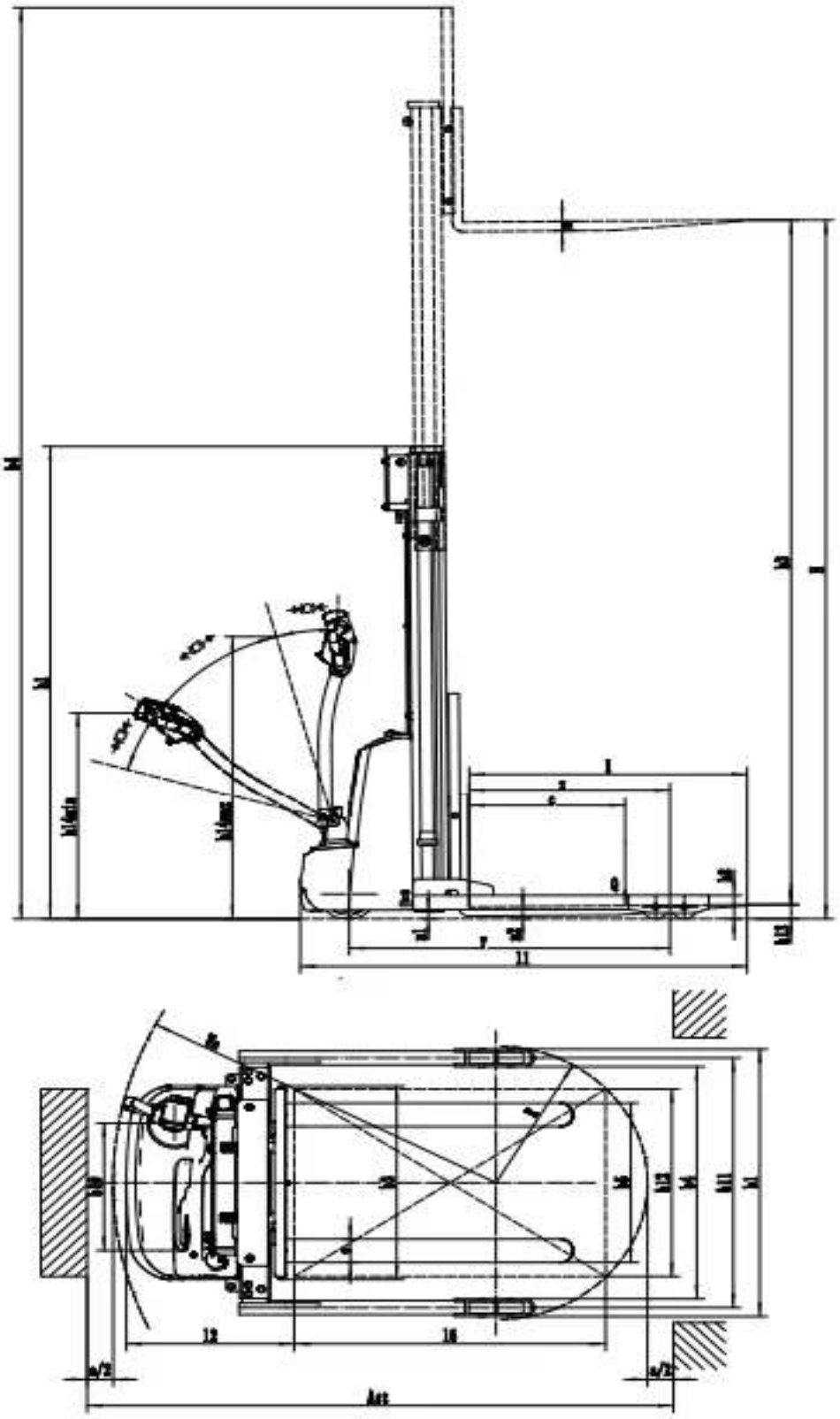
With a narrow chassis, ergonomic tiller, and turtle speed mode, the ESA121 Straddle delivers precise maneuverability and operator comfort, even in tight warehouse spaces.

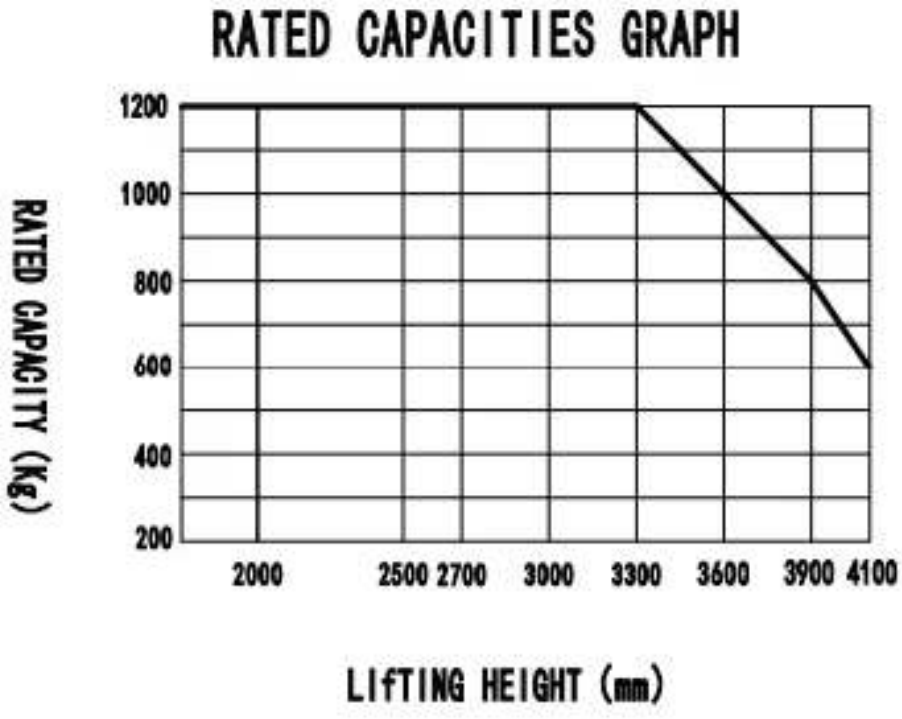
VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	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	773
1.9	Wheelbase		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	Tyre type			Polyurethane
3.2	Tyre size, front			Ø214×70
3.3	Tyre size, rear			Φ102x50
3.5	Additional wheels (castor wheels)			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
4.10	Height of wheel arms		mm	100
4.15	Lowered height			63
4.19	Overall length		mm	1720
4.2	Retracted mast height	h_1	mm	2425
4.20	Length to face of forks	l2	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			200~780
4.26	Distance between wheel arms/loading surfaces			991/1067/1143/1219

	SPECIFICATION	REF	UNIT	VALUE
4.3	Free lift		mm	-
4.31	Ground clearance, laden, below mast		mm	30
4.32	Ground clearance, centre of wheelbase		mm	40
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	2375
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	2263
4.35	Turning radius		Wa	1475
4.4	Lift height	h_3	mm	3730
4.4.1	Max lift height		mm	4080
4.5	Height, mast extended	h_4	mm	4700
4.9	Height of tiller handle in drive position min./max.			760/1140
5.1	Travel speed, laden/unladen		km/h	4.0/4.5
5.10	Service brake			Electromagnetic
5.11	Parking brake			Electromagnetic
5.2	Lifting 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
6.1	Drive motor rating S2 60 min		kW	0.65
6.2	Lift motor rating at S3 15%		kW	3.0
6.4	Battery nominal capacity		Ah	105
6.4	Battery voltage		V	24
6.4.1	Battery type			Li-Ion/AGM
6.5	Battery weight		kg	61
6.5	Charger output current		A	15
6.6	Energy consumption according to DIN EN 16796		kWh/h	- [1)]
6.7	Turnover output according to VDI 2198			-
6.8	Turnover efficiency according to VDI 2198			-
8.1	Type of drive control			DC
10.5	Steering design			Mechanical
10.7	Sound pressure level at the drivers ear		dB(A)	74

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
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 | 90*600, 2A, 100*40*1150 | 900*600, 2A, 100*40*1220

ITEM	OPTIONS (optional items marked in yellow)
Fork lowered height	63
Fork carriage width option	826mm
Load wheel type	Double
Handle head type	Hands big handle head
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 display indicator (BDI)	With time
Turtle speed	Yes and not customized
USB outlet	No | Yes and not customized
Castor wheels	Yes and not customized