



# ESA121-D

## ELECTRIC PEDESTRIAN STACKER STRADDLE 1.2T

1200 kg 1920 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	24V/105Ah
Battery voltage		V	24
Load capacity	Q	kg	1200
Load centre distance	c	mm	600
Service weight		kg	600
Retracted mast height	$h_1$	mm	1951
Lift height	$h_3$	mm	1530
Height, mast extended	$h_4$	mm	2500
Overall length		mm	1711
Overall width	$b_1/b_2$	mm	1156/1232/1308/1384
Length to face of forks	l2	mm	640
Fork dimensions	s/e/l	mm	40/100/1070
Turning radius		Wa	1469
Manufacturer			EP
Model designation			ESA121-MD

# 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.



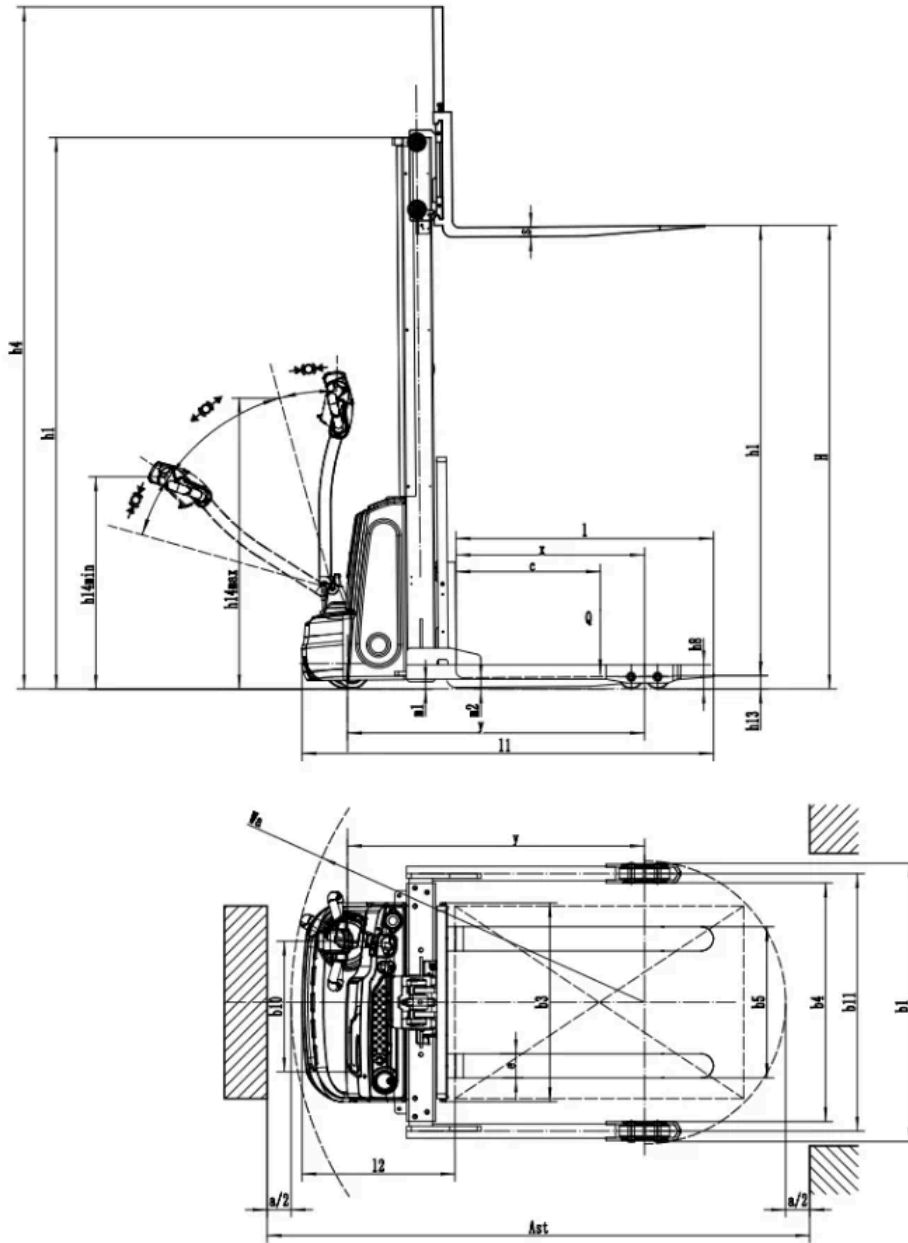
## User-centered design

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

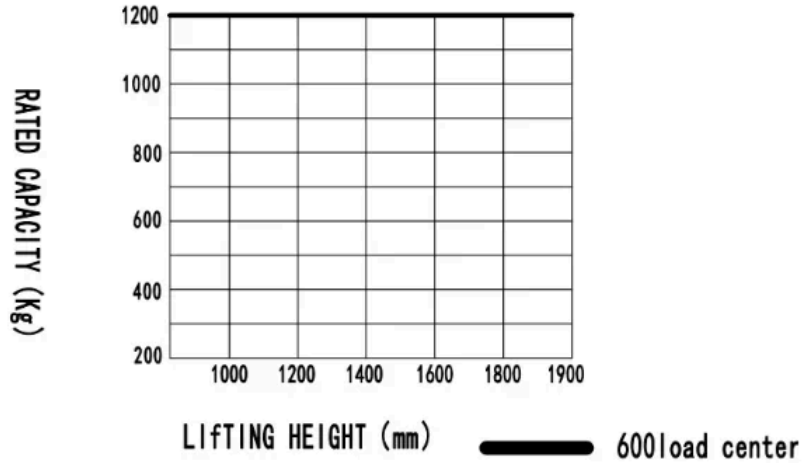
## VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			ESA121-MD
1.3	Drive			Electric
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	783
1.9	Wheelbase		mm	1235
2.1	Service weight		kg	600
2.2	Axle loading, laden front/rear		kg	600/1200
2.3	Axle loading, unladen front/rear		kg	420/180
3.1	Tyre type			Polyurethane
3.2	Tyre size, front		mm	Ø214×70
3.3	Tyre size, rear		mm	Φ102x50
3.4	Additional wheels (castor wheels)		mm	Ø100x50
3.5	Wheels, number front/rear (x=drive wheels)			1x , 1/4
3.6.1	Tread width, front	b <sub>10</sub>	mm	543
3.7.1	Tread width, rear	b <sub>11</sub>	mm	1070/1146/1222/1298
4.0	Max lift height	H	mm	1920
4.10	Height of wheel arms		mm	100
4.15	Lowered height			63
4.19	Overall length		mm	1711
4.2	Retracted mast height	h <sub>1</sub>	mm	1951
4.20	Length to face of forks	l <sub>2</sub>	mm	640
4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	1156/1232/1308/1384

SPECIFICATION		REF	UNIT	VALUE
4.22	Fork dimensions	s/e/1	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
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	2369
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	2257
4.35	Turning radius		Wa	1469
4.4	Lift height	h <sub>3</sub>	mm	1530
4.5	Height, mast extended	h <sub>4</sub>	mm	2500
4.9	Height of tiller handle in drive position min./max.			760/1140
5.1	Travel speed, laden/unladen		km/h	4/4.5
5.10	Service brake			Electromagnetic
5.11	Parking brake			Electromagnetic
5.2	Lifting speed, laden/unladen		m/s	0.15/0.25
5.3	Lowering speed, laden/unladen		m/s	0.19/0.14
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	24V/105Ah
6.4	Battery voltage		V	24
6.4.1	Battery type			Li-Ion/AGM
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 drivers ear		dB(A)	<74



## RATED CAPACITIES GRAPH



## Mast Options

LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)
1580	1951	2490
1920	2291	2830

## 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
Fork lowered height	63
Fork carriage width option	826mm (32.5in)
Backrest height	917mm (36in)
Load wheel type	Double

ITEM	OPTIONS (optional items marked in yellow)
Handle head type	Dual handle - Large Tiller
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 hourmeter
Turtle speed	Yes and not customized
USB interface	Yes and not customized
USB outlet	No   Yes and not customized
Castor wheels	Yes and not customized
Operator identification device	No   Card reader
Lifting electronic limit	No   Yes and not customized