



WSA181-D

ELECTRIC PEDESTRIAN STRADDLE STACKER 1.8T

 1800 kg  5500 mm  24 V Li-Ion



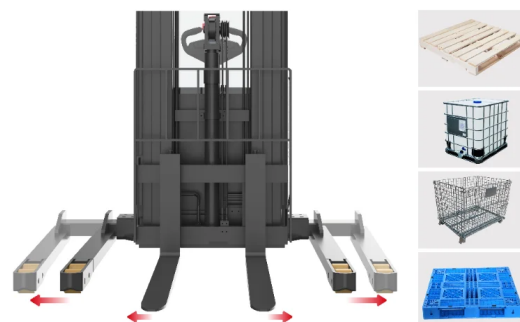
The WSA121/161/181-D is ideal for medium to heavy-duty stacking applications in warehouses, backrooms, logistics centers, and manufacturing facilities. It performs especially well in environments requiring high stacking stability and flexibility in pallet handling, such as operations with mixed pallet types or non-standard pallets. With its compact design and Turtle Speed driving capability, it is also highly effective in space-constrained working areas.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			WSA181-D
Battery voltage		V	24
Rated capacity	Q	kg	1800
Load centre distance	c	mm	600
Height, mast lowered	h ₁	mm	2025
Lift	h ₃	mm	2945
Height, mast extended	h ₄	mm	3920
Overall length	l ₁	mm	1971
Overall width	b ₁ /b ₂	mm	1270/1370/1470
Length to face of forks	l ₂	mm	901
Fork dimensions	s/e/l	mm	122×40×1070
Turning radius	Wa	mm	1630
Drive			Electric
Operator type			Pedestrian
Load distance, centre of drive axle to fork	x	mm	708

Features

Adjustable Straddle for Versatility and Stability

The WSA121/161/181-D features adjustable straddle legs and forks to accommodate a variety of pallets boxes and cages, offering a versatile solution for mixed-load environments. This wider support base enhances lateral stability during high-lift operations and ensures safer handling of heavy loads at height.



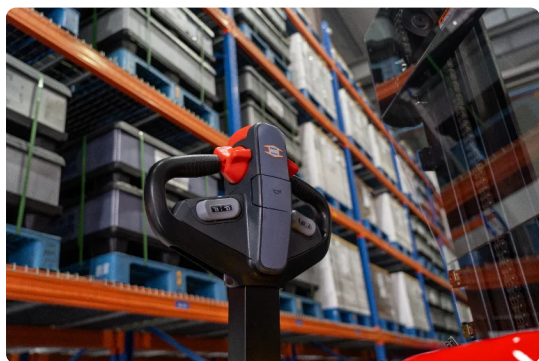
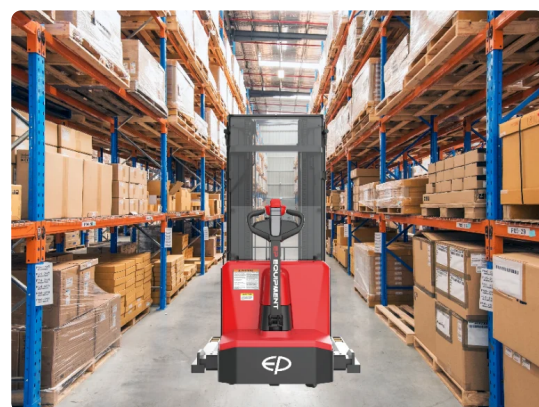
High Performance and Control in a Compact Design

The combination of a 4.5 kW lifting motor, the fully proportional fork control and an optimized hydraulic system delivers fast lifting and lowering speeds, reducing cycle times in daily operations.

With a turning radius of just 1630 mm, the WSA-D Series maneuvers smoothly in space-constrained environments. Plus Turtle Speed mode, it helps operators maintain productivity even in tight working conditions.

Optimized Mast Structure

The wide-view mast with side cylinders improves forward visibility, allowing operators to position loads more accurately and safely. For even greater stacking convenience, an external sideshift attachment is available, allowing precise positioning without moving the truck.



Operator-Focused Design for Precision and Safety

The dual-grip proportional control tiller head provides precise and gentle stacking, especially when handling fragile and valued goods. Safety features, including automatic speed reduction at lift height and lifting electronic limit, further enhance operational safety.

Lithium Power for Maximum Uptime

The standard lithium-ion battery with integrated charger supports opportunity charging, minimizing downtime. Bluetooth connectivity, with optional TELEMATICS, enables real-time monitoring and fleet management. In addition, the maintenance-friendly design and quick-access cover simplify daily inspection and servicing, ensuring long-term reliability and reduced maintenance effort.

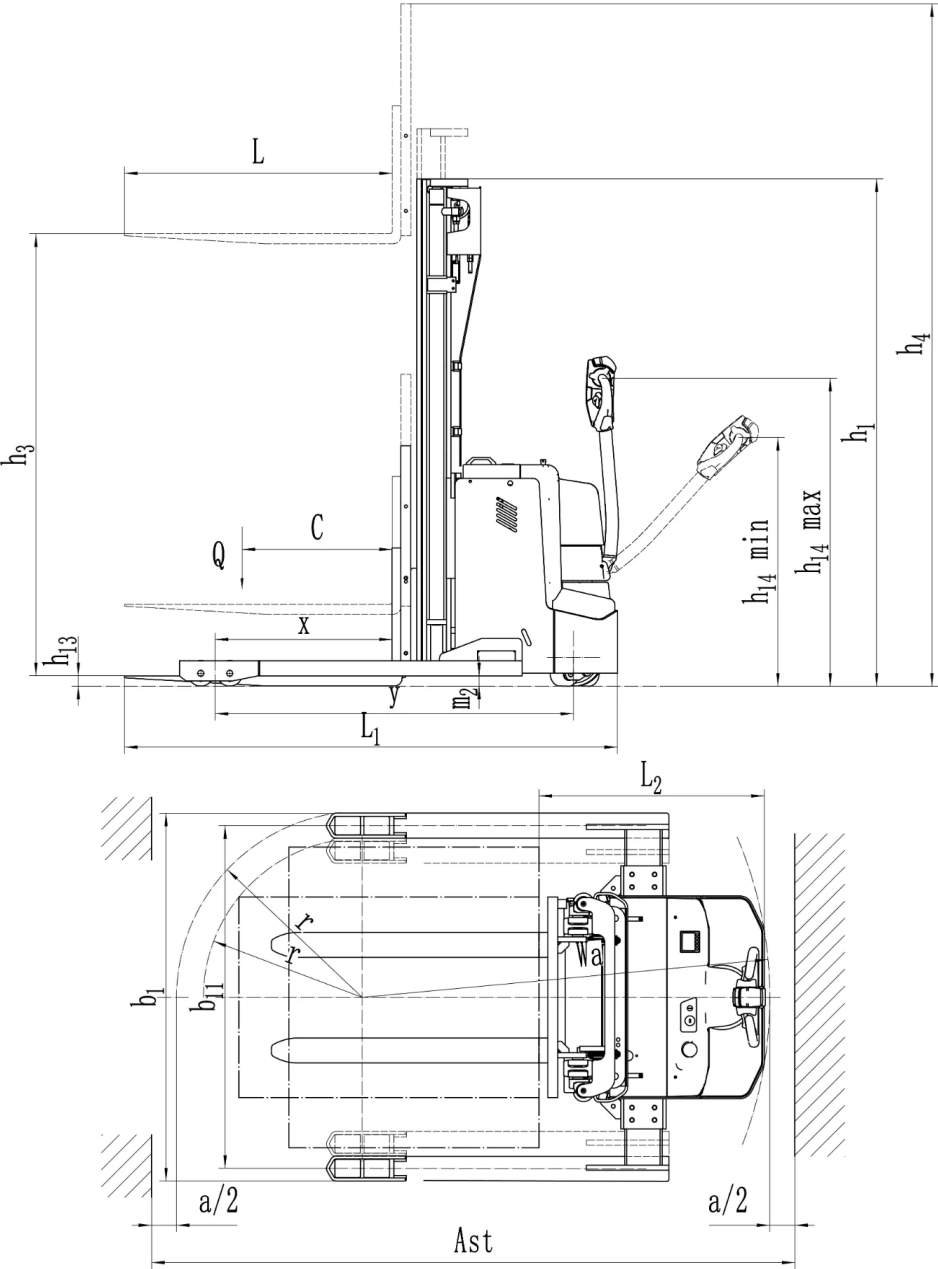


VDI Chart

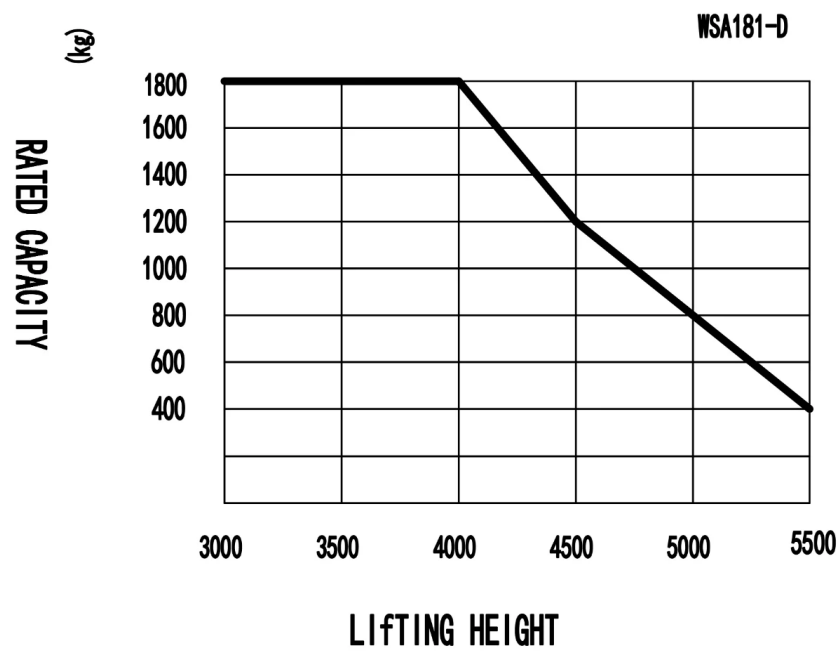
	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			WSA181-D
1.3	Drive			Electric
1.4	Operator type			Pedestrian
1.5	Rated capacity	Q	kg	1800
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork	x	mm	708
1.9	Wheelbase	y	mm	1434
3.1	Tyres			Polyurethane
3.2	Tyre size, front		mm	230×75
3.3	Tyre size, rear		mm	101.6x73
3.4	Additional wheels (castor wheels)		mm	102x63.5
3.5	Wheels, number front/rear (x=drive wheels)			1x , 2/4
4.2	Height, mast lowered	h ₁	mm	2025
4.3	Free lift	h ₂	mm	\
4.4	Lift	h ₃	mm	2945
4.5	Height, mast extended	h ₄	mm	3920
4.9	Height drawbar in driving position min./max.	h ₁₄	mm	715/1200
4.10	Height of wheel arms	h ₈	mm	100
4.15	Height, lowered	h ₁₃	mm	55
4.19	Overall length	l ₁	mm	1971
4.20	Length to face of forks	l ₂	mm	901
4.21	Overall width	b ₁ /b ₂	mm	1270/1370/1470
4.22	Fork dimensions	s/e/l	mm	122×40×1070

SPECIFICATION		REF	UNIT	VALUE
4 . 24	Fork carriage width	b ₃	mm	800
4 . 25	Distance between fork-arms	b ₅	mm	200-760
4 . 26	Distance between wheel arms/loading surfaces	b ₄		1070/1170/1270
4 . 31	Ground clearance, laden, below mast	m ₁	mm	35
4 . 32	Ground clearance, centre of wheelbase	m ₂	mm	40
4 . 34 . 1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2573
4 . 34 . 2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2465
4 . 35	Turning radius	Wa	mm	1630
5 . 1	Travel speed, laden/unladen		km/h	5/5.5
5 . 2	Lift speed, laden/unladen		m/s	0.16/0.2
5 . 3	Lowering speed, laden/unladen		m/s	0.28/0.26
5 . 8	Max. gradeability, laden/unladen		%	6/23
5 . 10	Service brake			Electromagnetic
6 . 1	Drive motor rating S2 60 min		kW	1.6
6 . 2	Lift motor rating at S3 15%		kW	4.5
6 . 4 . 1	Battery voltage		V	24
6 . 4 . 2	Battery nominal capacity K5		Ah	205
6 . 4 . 3	Battery type			Li-Ion
6 . 5	Battery weight		kg	61
8 . 1	Type of drive unit			AC
10 . 5	Steering design			Mechanical
10 . 7	Sound pressure level at the driver's seat		dB(A)	74
15 . 1	Charger output current		A	30

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.



RATED CAPACITIES GRAPH



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	2550	1825	3470	
2-Standard Mast	2950	2025	3870	
2-Standard Mast	3200	2105	4120	
2-Standard Mast	3550	2322	4470	
2-Standard Mast	3850	2472	4770	
2-Standard Mast	4100	2602	5020	
3-Free Mast	3950	1825	4870	860
3-Free Mast	4450	2025	5370	1060
3-Free Mast	4750	2120	5670	1160
3-Free Mast	4950	2190	5870	1230
3-Free Mast	5450	2390	6370	1430

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	122*40*1070 122*40*1150 122*40*1220 122*40*920
Leg width	1070mm 1170mm 1270mm
Fork lowered height	55
Fork carriage width option	780
Backrest height	915 1220
Load wheel type	Double
Drive wheel material	PU Treaded PU Rubber
Battery capacity	24V 205Ah
Charger	24V 30A integrated charger
Battery indicator	With hourmeter (Bluetooth)
Attachments	No External sideshifter
Transparent guard board	Yes and not customized
Castor wheels	Yes and not customized
Water auto-filling system	No
USB interface	USB TYPE A/C
Heating system during lithium battery charging	No Yes and not customized
Operator identification device	No Card reader PIN-Code
Lifting electronic limit	Yes and not customized
Lifting and lowering function	Proportional lifting
Speed reduction with elevated mast	Yes and not customized