

WSA161 Li-ion pedestrian stacker 1.6T

- Fast lifting and lowering speeds to maximize efficiency
- Proportional lifting system for utmost precision
- Compact design offering maneuverability
- Lithium technology with integrated charger



EP EQUIPMENT CO.,LTD

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FEATURE

Fast lifting and lowering speeds to maximize efficiency

Compared to the ES-WA series, the WSA161 doubles up the lifting and lowering speeds. This contributes to fast stacking and maximized turnover efficiency in warehouses.

Proportional lifting system for utmost precision

The WSA161 comes with the proportional lifting system as standard and enables the operator to stack and retrieve pallets more precisely and gently in multi-level racking.

Compact design offering maneuverability

The WSA161 demonstrates a compact design with 85mm reduction in mast thickness than the ES-WA series and naturally brings a smaller turning radius 1507mm. This makes it particularly suitable for moving loads in narrow spaces.

Lithium technology with integrated charger

The WSA161 is fully designed around the advantages of lithium technology, with 24V/100Ah Li-ion battery and an integrated charger, which allows for flexible and rapid charging and zero maintenance. 24V/205Ah Li-ion battery is optionally available for long operating period.





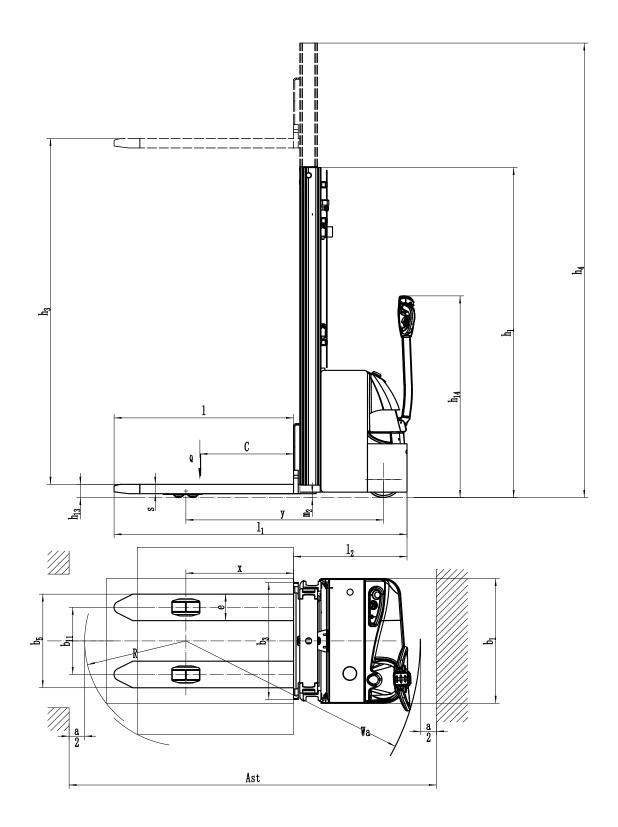




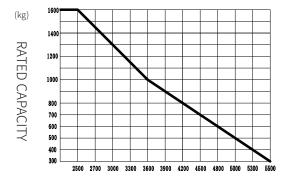
Li-ion pedestrian stacker 1.6T WSA161

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Vertex Retracted mast height h1 mm 1970 4.3 Free lift h2 mm — 4.4 Lift height h3 mm 2815 4.5 Height, mat extended h4 mm 3425 4.6 Initial lift h5 mm — 4.9 Height of lifer handle in drive position min/max. h14 mm 715/1200 4.10 Height of vineel arms h8 mm — — 4.15 Lowered height h13 mm 90		3.7.1	Tread width, rear	b11	mm	406
Percent h2 mm — 4.4 Lift height h3 mm 2915 4.5 Height, mast extended h4 mm 3425 4.6 Initial lift h5 mm — 4.8 Height of tiller handle in drive position min/max. h14 mm 715/1200 4.10 Height of tiller handle in drive position min/max. h14 mm — — 4.10 Height of tiller handle in drive position min/max. h14 mm 715/1200 4.11 Height of tiller handle in drive position min/max. h14 mm 90 4.13 Lowered height h13 mm 90 4.19 Overall length 11 mm 1881 4.20 Length to face of forks 12 mm 731 4.21 Overall width b3 mm 750 4.22 Fork dimensions s/e/l mm — 4.23 Ground clearance, laden, below mast m1 mm — <td></td> <td>4.0</td> <td>Max. Lift Height</td> <td>Н</td> <td>mm</td> <td>3000</td>		4.0	Max. Lift Height	Н	mm	3000
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Proposed 4.6 Initial lift Inf5 mm —— 4.9 Height of tiller handle in drive position min./max. h14 mm 715/1200 4.10 Height of tiller handle in drive position min./max. h14 mm 715/1200 4.10 Height of wheel arms h8 mm —— 4.15 Lowered height h13 mm 90 4.19 Overall leight h13 mm 90 4.10 Leight of face of forks 12 mm 731 4.21 Overall width b1/b2 mm 65×170×1150 4.22 Fork dimensions s/e/l mm 65×170×1150 4.24 Fork carriage width b3 mm 750 4.25 Distance between fork-arms b5 mm 570 4.26 Distance between wheel arms/loading surfaces b4 mm — 4.31 Ground clearance, center of wheelbase m2 mm 255 4.314 Asite width for pallets 1000×1200 iengsways </td <td></td> <td>4.4</td> <td>Lift height</td> <td>h3</td> <td>mm</td> <td>2915</td>		4.4	Lift height	h3	mm	2915
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4.25 Distance between fork-arms b5 mm 570 4.26 Distance between wheel arms/loading surfaces b4 mm — 4.31 Ground clearance, laden, below mast m1 mm — 4.32 Ground clearance, center of wheelbase m2 mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast mm 2383 4.34.2 Aisle width for pallets 800×1200 lengthways Ast mm 1507 4.35 Turning radius Wa mm 1507 5.1 Travel speed, laden/unladen m/s 0.2/0.26 5.2 Lifting speed, laden/unladen m/s 0.4/0.3 5.8 Max. gradeability, laden/unladen % 8/16 5.10 Service brake Electromagnetic 6.1 Drive motor rating \$2.60 min KW 1.6 6.2 Lift motor rating at \$3.15% KW 4.5 6.4 Battery woltage/nominal capacity V/Ah 24V/100AH 6.5 Battery woltage/nominal capacity V/Ah 40		4.22	Fork dimensions	s/e/l	mm	65×170×1150
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4.34.2Aisle width for pallets 800×1200 lengthwaysAstmm23554.35Turning radiusWamm15075.1Travel speed, laden/unladenKm/h5/5.55.2Lifting speed, laden/unladenm/s0.2/0.265.3Lowering speed, laden/unladenMs0.4/0.35.8Max. gradeability, laden/unladen%8/165.10Service brakeMM6.1Drive motor rating S2 60 minKW1.66.2Lift motor rating at S3 15%KW4.56.4Battery voltage/nominal capacityV/Ah24V/100AH6.5Battery weightKg40		4.32	Ground clearance, center of wheelbase	m2	mm	25
4.35Turning radiusWamm15075.1Travel speed, laden/unladenkm/h5/5.55.2Lifting speed, laden/unladenm/s0.2/0.265.3Lowering speed, laden/unladenm/s0.4/0.35.8Max. gradeability, laden/unladen%8/165.10Service brake6.1Drive motor rating S2 60 minKW6.2Lift motor rating at S3 15%KW4.56.4Battery woltage/nominal capacityV/Ah24V/100AH6.5Battery weightkg40		4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2383
S.1Travel speed, laden/unladenkm/h5/5.55.2Lifting speed, laden/unladenm/s0.2/0.265.3Lowering speed, laden/unladenm/s0.4/0.35.8Max. gradeability, laden/unladen%8/165.10Service brakeImage: Comparison of the state of the st		4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	2355
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6.1Drive motor rating \$2.60 minkW1.66.2Lift motor rating at \$3.15%kW4.56.4Battery voltage/nominal capacityV/Ah24V/100AH6.5Battery weightkg40	ta -	5.1	Travel speed, laden/unladen		km/h	5/5.5
6.1Drive motor rating \$2 60 minkW1.66.2Lift motor rating at \$3 15%kW4.56.4Battery voltage/nominal capacityV/Ah24V/100AH6.5Battery weightkg40	e da	5.2	Lifting speed, laden/unladen		m/s	0.2/0.26
6.1Drive motor rating \$2 60 minkW1.66.2Lift motor rating at \$3 15%kW4.56.4Battery voltage/nominal capacityV/Ah24V/100AH6.5Battery weightkg40		5.3	Lowering speed, laden/unladen		m/s	0.4/0.3
6.1Drive motor rating \$2 60 minkW1.66.2Lift motor rating at \$3 15%kW4.56.4Battery voltage/nominal capacityV/Ah24V/100AH6.5Battery weightkg40		5.8	Max. gradeability, laden/unladen		%	8/16
6.1Drive motor rating \$2.60 minkW1.66.2Lift motor rating at \$3.15%kW4.56.4Battery voltage/nominal capacityV/Ah24V/100AH6.5Battery weightkg40		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
10.5 Steering design Mechanical	Addition E				5	
10.7 Sound pressure level at the driver's ear dB(A) 74					dB(A)	

If there are improvements of technical parameters or configurations, no further notice will be given. The diagram shown may contain non-standard configurations.



RATED CAPACITIES GRAPH



LIFTING HEIGHT (mm)

Mast Option

Mast types	Lift height h3+h13 (mm)	Height, mast lowered h1 (mm)	Free lift h2 (mm)	Height, mast extended h4 (mm)
	2500	1720		2935
	2700	1820		3135
2-Stage Single	3000	1970		3435
Cylinder Mast	3300	2120		3735
	3600	2270		4035
	3900	2420		4335
	4000	1820	1430	4445
	4500	2020	1630	4945
3-Free Mast	4800	2115	1730	5245
	5000	2185	1800	5445
	5500	2385	2000	5945

Option

No.	Optional items	WSA161			
1.1	Fork dimension	●1150*570○1150*685○1220*570○1220*685			
1.3	Fork lowered height	•≤90			
1.4	Fork carriage width	•750			
1.5	backrest height	•388			
2.1	Load wheel type	Double			
2.2	Load wheel material	●PU			
2.3	Drive wheel material	●PU			
2.7	Battery capacity	●100Ah Li-ion○205AH Li-ion ○210AH Lead-acid○240AH Lead-acid○270AH Lead-acid			
2.8	Charger	●24V-30A internal (100AH Li-ion) ○24V-100A external (205AH Li-ion) ○24V-30A external (Lead-acid)			
2.9	Battery indicator	•With time(bluetooth)			
2.16	handle head type	• Proportional lifting switch on both sides, with turtle speed			
3.3	•Yes				
3.4	Water auto-filling system	●No○Yes and not customized (only for Lead-acid battery)			
3.7	Warning lamp	●No○Yes and not customized			
3.11	Rearview mirror	●No○Yes and not customized			
3.12	Hummer	●No○Yes and not customized			
3.16	Vertical handler working	•Yes			
4.5	4.5 Proportional lift system •Yes				
Note: •Standard · Optional - Inconformity					