WSA161i

HEAVY-DUTY INITIAL LIFTING STACKER 1.6T

2000 kg | 3000 mm | 24 V Li-ion

The WSA161i is tailored for warehouses, logistics centers, and distribution hubs requiring both stacking and double decking operations. Thanks to its initial lift, operators can move goods across docks or uneven surfaces with ease, while proportional lifting and lowering ensure precision and care for fragile loads. With travel speeds up to 5.5 km/h, compact 810 mm chassis width, and turning radius of 1826 mm, it delivers agility even in narrow aisles.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			WSA161i
Battery voltage		V	24
Rated capacity	Q	kg	2000
Load centre distance	c	mm	600
Service weight		kg	1120
Height, mast lowered	h_1	mm	2015
Lift	h_3	mm	2915
Height, mast extended	h_4	mm	3495
Overall length	l_1	mm	2028
Overall width	b_1/b_2	mm	810
Length to face of forks	l_2	mm	878
Fork dimensions	s/e/l	mm	60×185×1150
Turning radius	Wa	mm	1826
Drive			Electric
Operator type			Pedestrian

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Features

Initial lift with double pallet handling

The WSA161i's initial lift raises support arms independently, providing higher ground clearance for ramps and allowing operators to transport two pallets at once, doubling efficiency.

Fast stacking with proportional control

Equipped with high lifting and lowering speeds, plus proportional control, the WSA161i ensures precise and gentle handling of goods, even at heights up to 5.5 meters.

Advanced Li-ion power system

The 24V/100Ah Li-ion battery with integrated 24V/30A charger supports fast opportunity charging, zero maintenance, and emission-free operation. Optional 205Ah or lead-acid batteries extend runtime.

Operator-focused design

Practical features like integrated storage, a USB outlet for device charging, and an ergonomic tiller improve operator convenience, while the compact body and turtle speed mode ensure safe maneuverability in tight aisles.

VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			WSA161i

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	SPECIFICATION	REF	UNIT	VALUE
1.3	Drive			Electric
1.4	Operator type			Pedestrian
1.5	Rated capacity	Q	kg	2000
1.5.1	Load capacity，load with mast lift	Q_1	kg	1600
1.5.2	Load capacity, load with support arm lift	Q_2	kg	2000
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork	x	mm	906
1.9	Wheelbase	y	mm	1608
2.1	Service weight		kg	1120
2.2	Axle loading, laden front/rear		kg	1090/2030
2.3	Axle loading, unladen front/rear		kg	780/340
3.1	Tyres			Polyurethane
3.2	Tyre size, front		mm	230×75
3.3	Tyre size, rear		mm	85×70
3.4	Additional wheels (castor wheels)		mm	130×55
3.5	Wheels, number front/rear (x=drive wheels)			1x,1/4
3.6	Tread width, front	b_{10}	mm	538
3.7	Tread width, rear	b_{11}	mm	385
4.2	Height, mast lowered	h_1	mm	2015
4.4	Lift	h_3	mm	2915
4.5	Height, mast extended	h_4	mm	3495
4.6	Initial lift		mm	120
4.9	Height drawbar in driving position min./max.	h_{14}	mm	715/1200
4.15	Height, lowered	h_{13}	mm	92
4.19	Overall length	l_1	mm	2028
4.20	Length to face of forks	l_2	mm	878
4.21	Overall width	b_1/b_2	mm	810
4.22	Fork dimensions	s/e/l	mm	60×185×1150
4.24	Fork carriage width		mm	750
4.25	Distance between fork-arms	b_5	mm	570
4.31	Ground clearance, laden, below mast		mm	14
4.32	Ground clearance, centre of wheelbase	m_2	mm	14
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2646
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2560

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	SPECIFICATION	REF	UNIT	VALUE
4.35	Turning radius	Wa	mm	1826
5.1	Travel speed, laden/unladen		km/h	5/5.5
5.2	Lift speed, laden/unladen		m/s	0.23/0.3
5.3	Lowering speed, laden/unladen		m/s	0.4/0.36
5.8	Max. gradeability, laden/unladen		%	8/16
5.10	Service brake			Electromagnetic
5.11	Parking 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	100
6.4.3	Battery type			Li-ion
6.5	Battery weight		kg	40
6.6	Energy consumption according to DIN EN 16796		kWh/h	0.8
6.7	Turnover output according to VDI 2198			56
6.8	Turnover efficiency according to VDI 2198			55.01
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.

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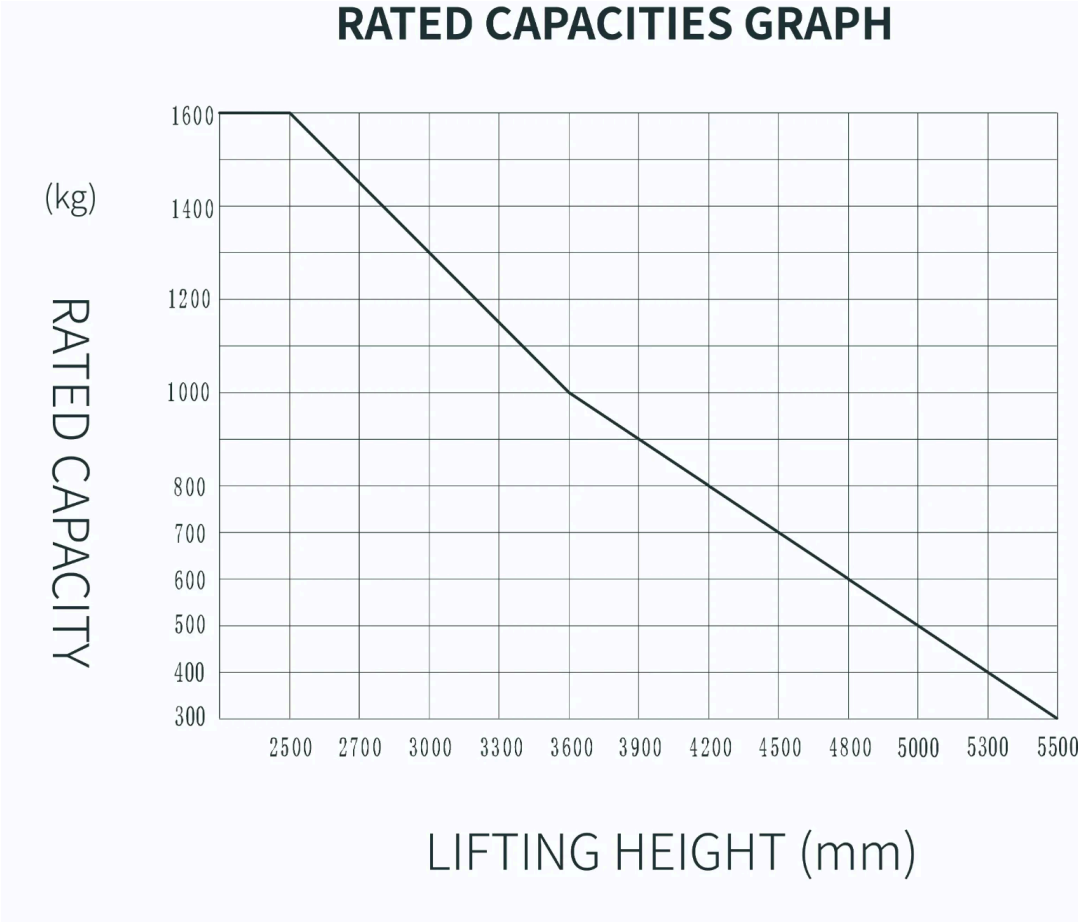
VDI Drawing



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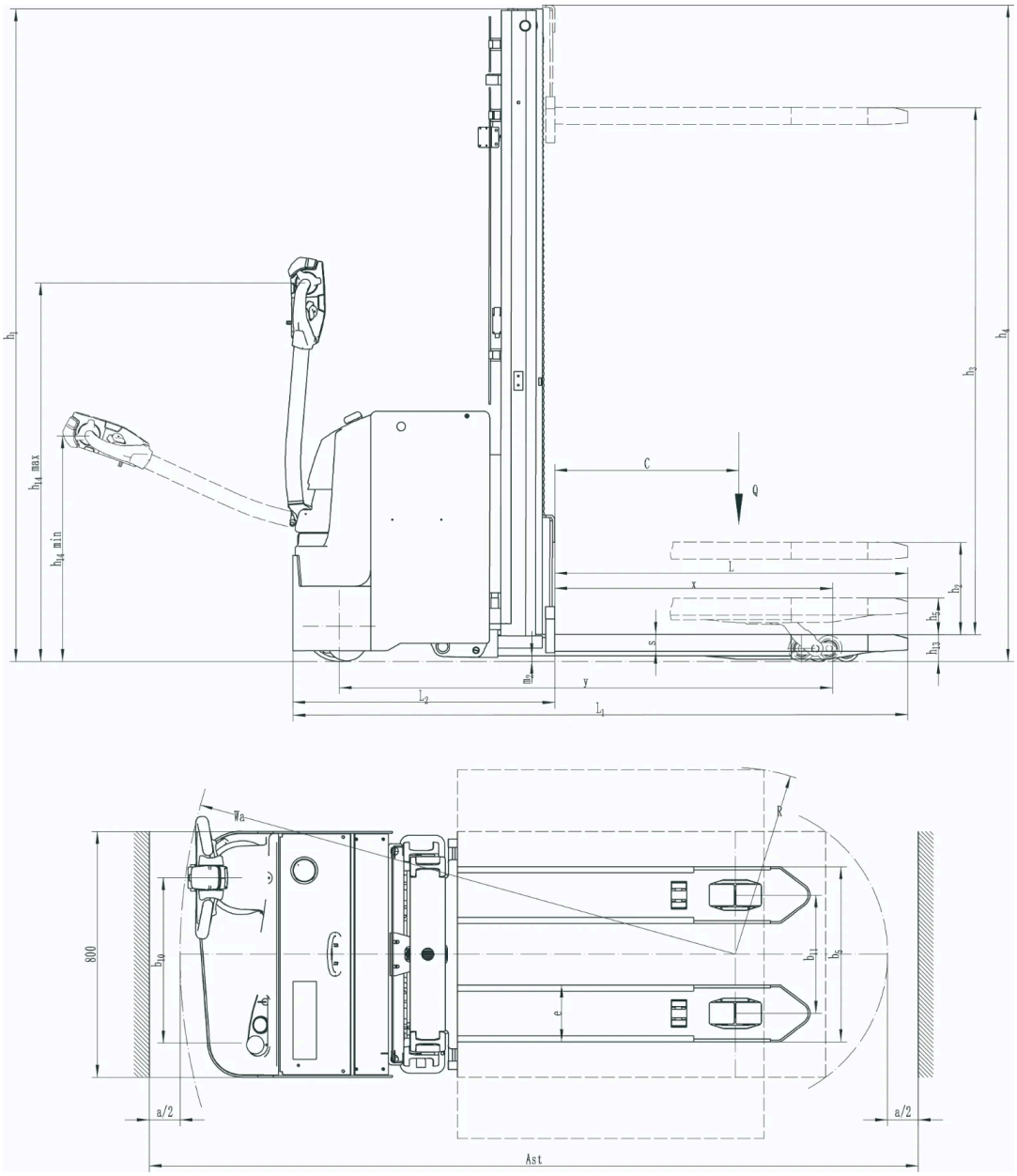

Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)
2-Wide Mast	2600	1815	3095	
2-Wide Mast	3000	2015	3495	
2-Wide Mast	3300	2185	3835	
2-Wide Mast	3600	2312	4089	
2-Wide Mast	3900	2462	4389	
2-Wide Mast	4150	2592	4649	
2-Free Mast	2650	1815	3118	1320

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MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)
2-Free Mast	2950	1962	3412	1470
2-Free Mast	3250	2115	3718	1620
3-Free Mast	4000	1820	4445	1345
3-Free Mast	4500	2020	4945	1545
3-Free Mast	4800	2115	5245	1645
3-Free Mast	5000	2185	5445	1715
3-Free Mast	5500	2385	5945	1915

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	1150*570 | 1150*685
Fork lowered height	92
Fork carriage width option	750
Backrest height	388
Load wheel type	Double
Load wheel material	PU
Drive wheel material	PU | Trace PU | Rubber
Battery capacity	100Ah Li-ion | 205Ah Li-ion | 210Ah Lead Acid | 240Ah Lead acid
Charger	24V-30A internal (Li-ion) | 24V-100A external (Li-ion) | 24V-30A external (Lead-acid)
Battery indicator	With time (bluetooth)
Castor wheels	Yes and not customized
Water auto-filling system	No | Yes and not customized
Warning lamp	No | Yes and not customized
Area warning lamp	No | Yes and not customized
Rearview mirror	No | Yes and not customized
Buzzer	No | Yes and not customized
Turtle speed	Yes and not customized
Telematics	No | Yes and not customized
Charging interlock-UK standard	No

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ITEM	OPTIONS (optional items marked in yellow)
USB outlet	Yes and not customized
Battery side pull function	No
Cold storage	No
Proportional lift system	Yes and not customized
Keypad option	No | Yes and not customized

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