ESi161

PEDESTRIAN DOUBLE-DECK STACKER 1.6T

1600 kg | 1608 mm | 24 V

The ESi161 is ideal for warehouses, retail distribution, and logistics centers requiring both flexibility and efficiency in pallet handling. Its double-deck capability increases productivity in goods transfer and order picking, while the mono mast design with transparent panel offers excellent visibility for safe and precise stacking. Thanks to its compact size and small turning radius of 1473 mm, the ESi161 is especially suited for tight storage areas, trucks, and docks.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			ESi161
Battery voltage		V	24
Rated capacity	Q	kg	1600
Load centre distance	c	mm	600
Service weight		kg	510
Height, mast lowered	h_1	mm	1942
Lift	h_3	mm	1520
Height, mast extended	h_4	mm	1986
Overall length	l_1	mm	1770
Overall width	b_1/b_2	mm	800
Length to face of forks	l_2	mm	620
Fork dimensions	s/e/l	mm	55/190/1150
Turning radius	Wa	mm	1473
Drive			Electric
Operator type			Pedestrian

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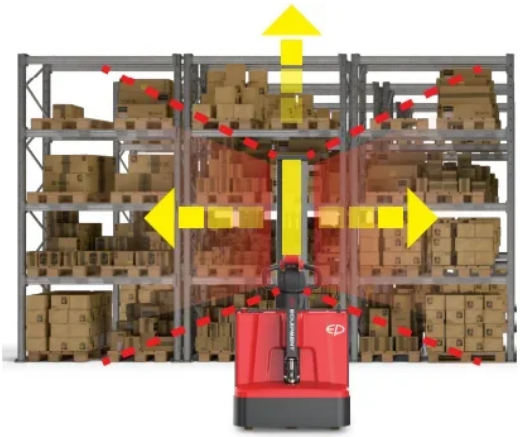
Features

Double-deck efficiency with initial lift

The ESi161 allows operators to transport two pallets simultaneously or easily cross ramps and uneven floors, significantly improving productivity in daily operations.



Compact chassis with turtle speed mode

At just 800 mm wide, the stacker is optimized for confined aisles and truck loading. The turtle button ensures controlled, precise operation in tight spaces.

Safe and clear mast visibility

The mono mast with transparent panel provides operators with an unobstructed view of the forks, enhancing stacking precision and improving workplace safety.

Advanced Li-ion power with integrated charger

Equipped with a 24V/100Ah Li-ion battery and a 30A integrated charger, the ESi161 supports flexible opportunity charging, zero maintenance, and long service life.

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VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			ESi161
1.3	Drive			Electric
1.4	Operator type			Pedestrian
1.5	Rated capacity	Q	kg	1600
1.5.1	Load capacity , load with mast lift	Q_1	kg	800
1.5.2	Load capacity, load with support arm lift	Q_2	kg	1600
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork	x	mm	798
1.9	Wheelbase	y	mm	1265
2.1	Service weight		kg	510
2.2	Axle loading, laden front/rear		kg	550/1560
2.3	Axle loading, unladen front/rear		kg	375/135
3.1	Tyres			Polyurethane
3.2	Tyre size, front		mm	Ø210×70
3.3	Tyre size, rear		mm	Φ80x61
3.4	Additional wheels (castor wheels)		mm	Ø130×55
3.5	Wheels, number front/rear (x=drive wheels)			1,2/4
3.6	Tread width, front	b_{10}	mm	592
3.7	Tread width, rear	b_{11}	mm	370
4.2	Height, mast lowered	h_1	mm	1942
4.3	Free lift	h_2	mm	1515
4.4	Lift	h_3	mm	1520
4.5	Height, mast extended	h_4	mm	1986
4.6	Initial lift		mm	115
4.9	Height drawbar in driving position min./max.	h_{14}	mm	800/1190
4.15	Height, lowered	h_{13}	mm	91
4.19	Overall length	l_1	mm	1770
4.20	Length to face of forks	l_2	mm	620
4.21	Overall width	b_1/b_2	mm	800
4.22	Fork dimensions	s/e/l	mm	55/190/1150
4.24	Fork carriage width		mm	680

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	SPECIFICATION	REF	UNIT	VALUE
4.25	Distance between fork-arms	b_5	mm	560
4.32	Ground clearance, centre of wheelbase	m_2	mm	33
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2306
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2240
4.35	Turning radius	Wa	mm	1473
5.1	Travel speed, laden/unladen		km/h	4/4.5
5.2	Lift speed, laden/unladen		m/s	0.1/0.12
5.3	Lowering speed, laden/unladen		m/s	0.1/0.07
5.8	Max. gradeability, laden/unladen		%	3/10
5.10	Service brake			Electromagnetic
5.11	Parking brake			Electromagnetic
6.1	Drive motor rating S2 60 min		kW	0.75
6.2	Lift motor rating at S3 15%		kW	2.2
6.4.1	Battery voltage		V	24
6.4.2	Battery nominal capacity K5		Ah	100
6.5	Battery weight		kg	28
6.6	Energy consumption according to DIN EN 16796		kWh/h	0.4
6.7	Turnover output according to VDI 2198			22.73
6.8	Turnover efficiency according to VDI 2198			63.72
8.1	Type of drive unit			DC
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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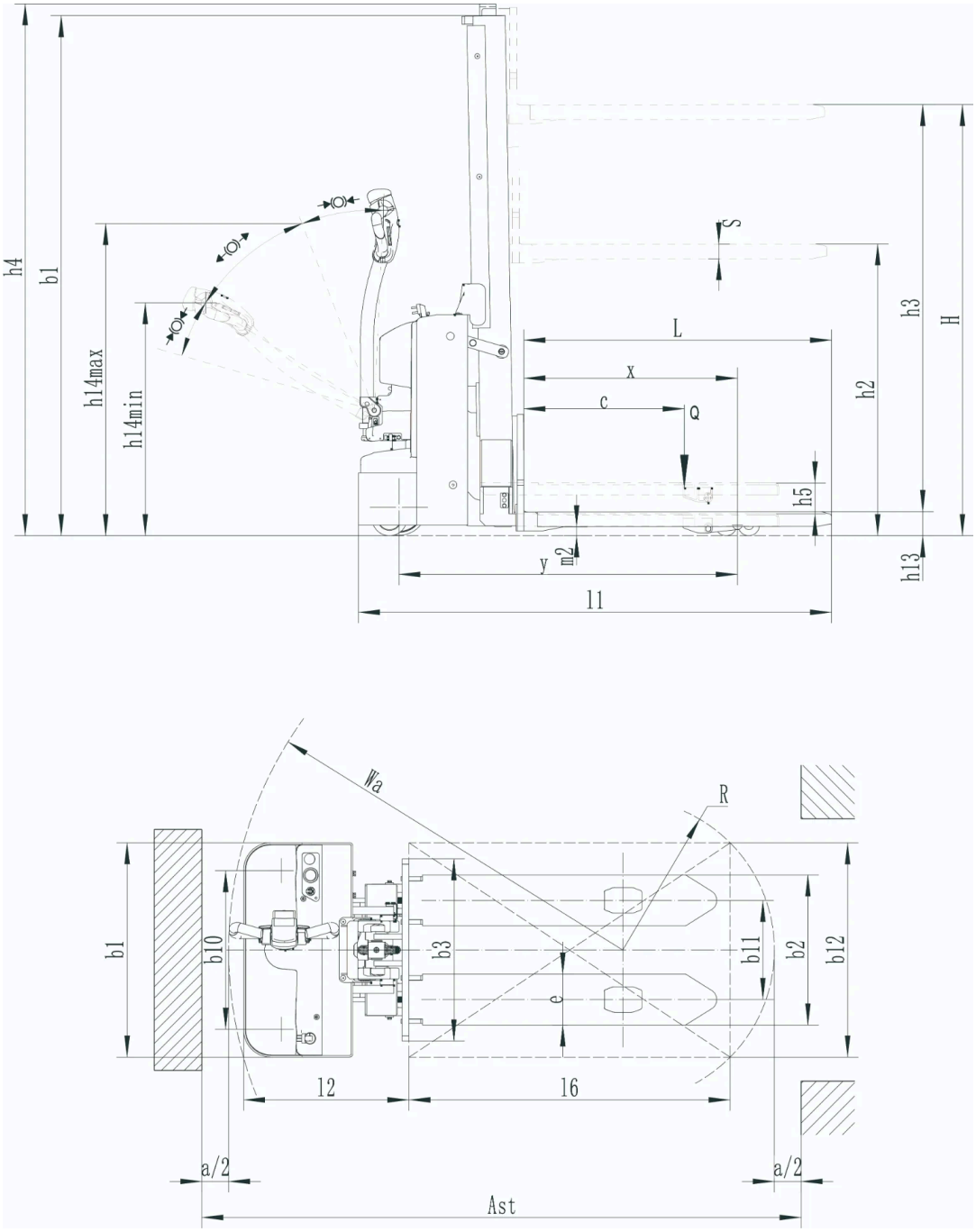
VDI Drawing



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)
Simplex Mast	1608	1942	1986	1515

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Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	560*1150
Fork carriage width option	680mm
Load wheel type	Double
Load wheel material	Polyurethane
Drive wheel material	Polyurethane
Battery capacity	100Ah
Charger	24V-30A intergrated charger
Battery indicator	With hourmeter
Castor wheels	Yes and not customized

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