



# ES16-RSi

## ELECTRIC STACKER 1.6T

2000 kg 5500 mm 280 V Lead Acid/Li-ion



The ES16-RSi is ideal for distribution centers, logistics hubs, and industrial sites requiring flexibility between pedestrian and ride-on operation. With mast options up to 5.5 meters, proportional lift control, and compact 850 mm chassis width, it is perfectly suited for narrow aisles and medium-to-high racking. Its ability to carry two pallets at once doubles efficiency, making it an excellent choice for high-turnover environments.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Lead Acid/Li-ion
Battery nominal capacity		Ah	270
Battery voltage		V	280
Load capacity	Q	kg	2000
Load centre distance	c	mm	600
Service weight		kg	1335
Retracted mast height	$h_1$	mm	2020
Lift height	$h_3$	mm	2907
Height, mast extended	$h_4$	mm	3460
Overall length		mm	2195
Overall width	$b_1/b_2$	mm	850
Length to face of forks	l <sub>2</sub>	mm	957
Fork dimensions	s/e/l	mm	60/190/1150
Turning radius		Wa	1765/2192
Operator type			Standing
Load distance, centre of drive axle to fork		mm	710

# Features

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## Initial lift for versatility

The ES16-RSi can raise its support arms independently, allowing operators to handle two pallets simultaneously or move smoothly across ramps and uneven floors.



## Flexible mast and load handling

With mast options up to 5.5 meters, proportional lifting, and load capacities of 1600 kg (mast) or 2000 kg (support arms), it provides strength and flexibility for stacking and transport.

## Operator comfort and safety

Foldable platform with vibration reduction, protection arms, and electric power steering improve comfort, while features such as automatic speed reduction, anti-rollback brake, and dual hydraulic monitoring maximize safety.



## Energy-efficient power system

Standard with a 24V/280Ah lead-acid battery and optional 205Ah Li-ion upgrade, the ES16-RSi supports efficient charging, long runtime, and reduced maintenance.



# VDI Chart

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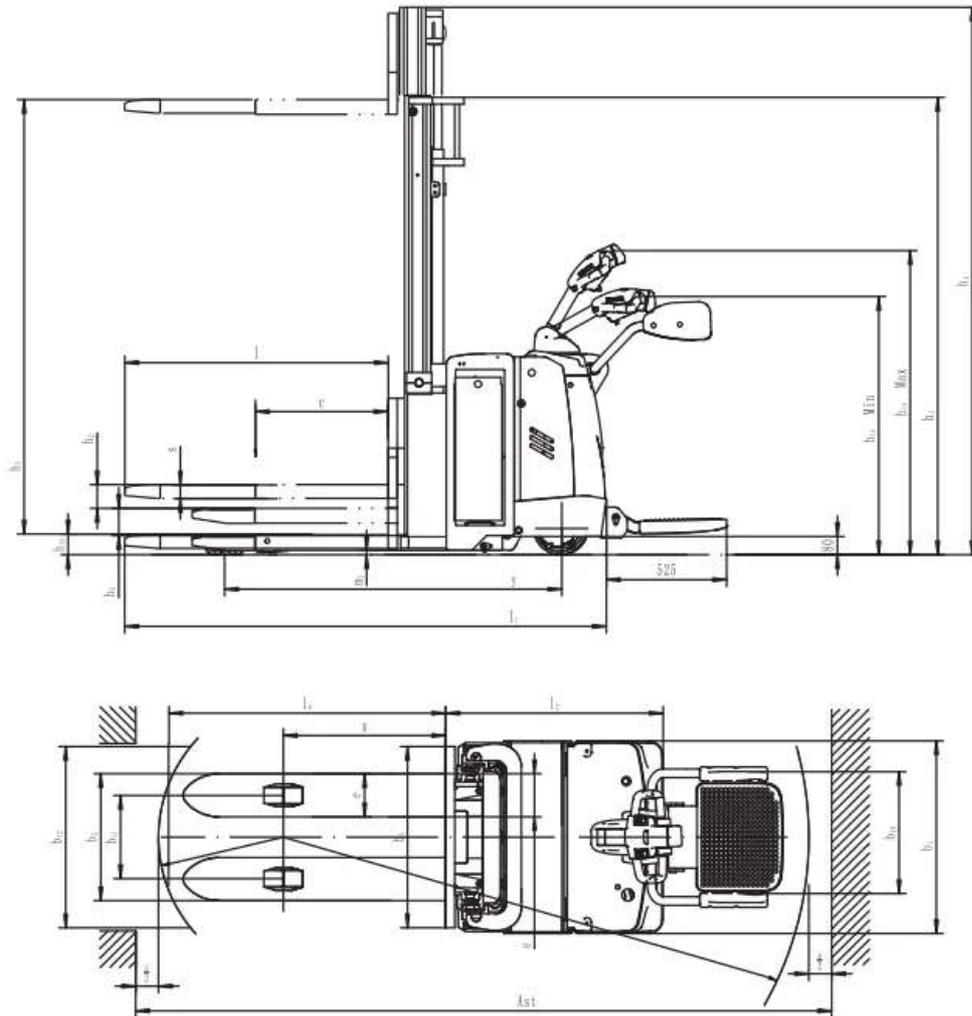
SPECIFICATION	REF	UNIT	VALUE
1.4 Operator type			Standing

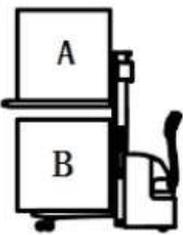
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	SPECIFICATION	REF	UNIT	VALUE
1.5	Load capacity	Q	kg	2000
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork		mm	710
1.9	Wheelbase		mm	1460
2.1	Service weight		kg	1335
2.2	Axle loading, laden front/rear		kg	1075/1860
2.3	Axle loading, unladen front/rear		kg	935/400
3.1	Tyre type			Polyurethane
3.2	Tyre size, front			Φ230x75
3.3	Tyre size, rear			Φ85x70
3.5	Additional wheels (castor wheels)			Φ130x55
3.5	Wheels, number front/rear (x=drive wheels)			1x+1/4
3.6	Tread width, front	b <sub>10</sub>	mm	574
3.7	Tread width, rear	b <sub>11</sub>	mm	366
4.10	Height of wheel arms		mm	600
4.15	Lowered height			93
4.19	Overall length		mm	2195
4.2	Retracted mast height	h <sub>1</sub>	mm	2020
4.20	Length to face of forks	l <sub>2</sub>	mm	957
4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	850
4.22	Fork dimensions	s/e/l	mm	60/190/1150
4.24	Fork carriage width		mm	800
4.25	Distance between fork-arms			800
4.26	Distance between wheel arms/loading surfaces			560
4.3	Free lift		mm	100
4.31	Ground clearance, laden, below mast		mm	20
4.32	Ground clearance, centre of wheelbase		mm	20
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	2665/3092
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	2597/3024
4.35	Turning radius		Wa	1765/2192
4.4	Lift height	h <sub>3</sub>	mm	2907
4.4.1	Max lift height		mm	5500
4.5	Height, mast extended	h <sub>4</sub>	mm	3460
4.6	Initial lift		mm	120

SPECIFICATION	REF	UNIT	VALUE
4.7	Height of overhead guard (cabin)	mm	2020
4.9	Height of tiller handle in drive position min./max.		1150/1480
5.1	Travel speed, laden/unladen	km/h	5.5/6
5.10	Service brake		Electromagnetic
5.2	Lifting speed, laden/unladen	m/s	0.11/0.16
5.3	Lowering speed, laden/unladen	m/s	0.14/0.12
5.8	Max. gradeability, laden/unladen	%	8/16
6.1	Drive motor rating S2 60 min	kW	2.5
6.2	Lift motor rating at S3 15%	kW	3
6.4	Battery nominal capacity	Ah	270
6.4	Battery voltage	V	280
6.4.1	Battery type		Lead Acid/Li-ion
6.5	Battery weight	kg	270
6.5	Charger output current	A	N/A
6.6	Energy consumption according to DIN EN 16796	kWh/h	N/A
8.1	Type of drive control		AC
10.5	Steering design		Electronic
10.7	Sound pressure level at the drivers ear	dB(A)	74

# VDI Drawing



		Lift Height (mm)	Capacity (kg)
	Mast Fork A	2700	1600
		3000	1500
		3300	1300
		3600	1200
		3900	1000
		4200	800
		4500	700
Support Arm B	210	A+B≤2000	

# 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	2500	1770	2965	100
2-Standard Mast	2700	1870	3165	100
2-Standard Mast	2900	2020	3465	100
2-Standard Mast	3300	2170	3765	100
2-Standard Mast	3600	2320	4065	100
2-Standard Mast	3900	2470	4365	100
2-Standard Mast	4170	2600	4625	100
3-Free Mast	4000	1822	4460	1390
3-Free Mast	4500	2022	4960	1590
3-Free Mast	4800	2122	5260	1690
3-Free Mast	5000	2187	5460	1740
3-Free Mast	5500	2352	5910	1910

# Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	560*1150   685*1150
Fork lowered height	94
Load wheel type	Double
Load wheel material	PU
Drive wheel material	PU   Rubber
Battery capacity	280Ah (Lead Acid)   205Ah (Li-ion)
Charger	24V-30A External (Lead acid)   24V-100A External (Li-ion)
Battery display indicator (BDI)	With time
Telematics	No   Yes and not customized
Castor wheels	Yes and not customized
Water auto-filling system	No   Yes and not customized

ITEM	OPTIONS (optional items marked in yellow)
Battery side pull function	Yes and not customized
Cold storage	Yes and not customized