



RSi201

HEAVY-DUTY DOUBLE-DECK STACKER 2.0T

2000 kg 1600 mm 24 V Li-ion



The RSi201 is engineered for intensive goods handling and order-picking tasks in warehouses, distribution centers, and logistics hubs. With its ability to handle two pallets simultaneously, it maximizes throughput while saving time and labor. The suspended operator platform, electric power steering, and automatic speed reduction on turns ensure comfort and safety during long shifts. Its adaptability to uneven floors and narrow aisles makes it an excellent choice for operations seeking high efficiency in space-constrained environments.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-ion
Battery nominal capacity K5		Ah	205
Battery voltage		V	24
Rated capacity	Q	kg	2000
Load centre distance	c	mm	600
Service weight		kg	860
Height, mast lowered	h_1	mm	1316
Lift	h_3	mm	1600
Height, mast extended	h_4	mm	2112
Overall length	l_1	mm	2058
Overall width	b_1/b_2	mm	734
Length to face of forks	l_2	mm	908
Fork dimensions	s/e/l	mm	55×185×1150
Turning radius	Wa	mm	1820
Manufacturer			EP
Model designation			RSi201

Features

Double-deck stacking efficiency

The RSi201's double-deck function allows operators to carry two pallets in one trip, effectively doubling throughput and reducing the number of travel cycles needed in high-demand operations.



Powerful and precise lifting

A 3kW lift motor delivers lifting speeds up to 0.18 m/s and lowering speeds up to 0.36 m/s, ensuring fast yet smooth handling. The proportional lift control adds accuracy, protecting loads during stacking.

Advanced Li-ion battery system

The 24V/205Ah Li-ion battery with integrated 30A charger supports opportunity charging for longer uptime. An optional 100A external charger reduces recharge time to just 2 hours, maximizing productivity.





Operator comfort and safety

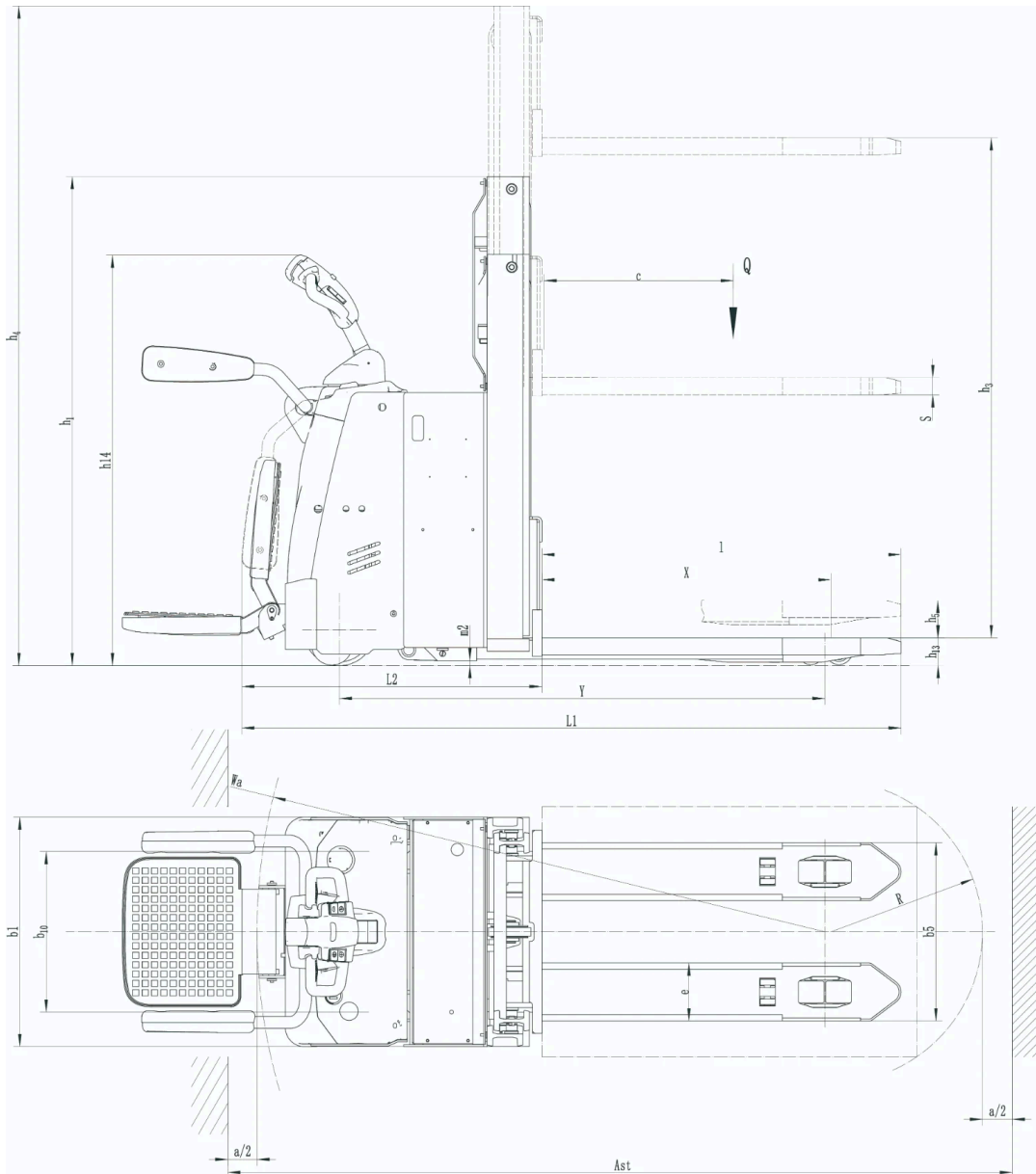
A suspended foldable platform with electric power steering reduces fatigue on long routes, while automatic speed reduction on turns, ergonomic tiller, and transparent mast shield ensure safe and comfortable use.

VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			RSi201
1.3	Drive			Electric
1.4	Operator type			Pedestrian
1.5	Rated capacity	Q	kg	2000
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork	x	mm	926
1.9	Wheelbase	y	mm	1550
2.1	Service weight		kg	860
2.2	Axle loading, laden front/rear		kg	960/1900
2.3	Axle loading, unladen front/rear		kg	650/210
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,2/4
3.6	Tread width, front	b ₁₀	mm	514
3.7	Tread width, rear	b ₁₁	mm	385
4.2	Height, mast lowered	h ₁	mm	1316
4.4	Lift	h ₃	mm	1600
4.5	Height, mast extended	h ₄	mm	2112

	SPECIFICATION	REF	UNIT	VALUE
4.6	Initial lift		mm	120
4.9	Height drawbar in driving position min./max.	h_{14}	mm	1190/1290
4.15	Height, lowered	h_{13}	mm	92
4.19	Overall length	l_1	mm	2058
4.20	Length to face of forks	l_2	mm	908
4.21	Overall width	b_1/b_2	mm	734
4.22	Fork dimensions	s/e/l	mm	55×185×1150
4.24	Fork carriage width		mm	55×185
4.25	Distance between fork-arms	b_5	mm	570
4.31	Ground clearance, laden, below mast		mm	16
4.32	Ground clearance, centre of wheelbase	m_2	mm	16
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2628
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2516
4.35	Turning radius	wa	mm	1820
5.1	Travel speed, laden/unladen		km/h	8/8
5.2	Lift speed, laden/unladen		m/s	0.18/0.23
5.3	Lowering speed, laden/unladen		m/s	0.36/0.18
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	2.5
6.2	Lift motor rating at S3 15%		kW	3
6.4	Battery nominal capacity K5		Ah	205
6.4	Battery voltage		V	24
6.4.1	Battery type			Li-ion
6.5	Battery weight		kg	70
6.6	Energy consumption according to DIN EN 16796		kWh/h	0,262 ¹⁾
6.7	Turnover output according to VDI 2198			108
6.8	Turnover efficiency according to VDI 2198			138.82
8.1	Type of drive unit			AC
10.5	Steering design			Electronic
10.7	Sound pressure level at the driver's seat		dB(A)	74
15.1	Charger output current		A	70

VDI Drawing



Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	570*1150 570*1220 685*1220
Load wheel type	Double Single
Load wheel material	PU
Drive wheel material	PU Trace PU Rubber PU (NDI)
Battery capacity	24V 205Ah Li-ion
Charger	24V/30A Internal 24V/100A external

ITEM	OPTIONS (optional items marked in yellow)
Battery display indicator (BDI)	With hourmeter (Bluetooth)
Castor wheels	Yes and not customized
Buzzer	No Yes and not customized
Telematics	No Yes and not customized
Operator identification device	No Card reader
Side supports	205