



RPL301

HEAVY-DUTY RIDE-ON PALLET TRUCK 3.0T

3000 kg 120 mm 24 V Lead Acid/Li-ion



The RPL301 is designed for demanding logistics hubs, warehouses, and distribution centers where maximum load handling and endurance are required. Its ride-on platform and protective sidearms ensure operator comfort over long distances, while proportional steering and creep speed mode guarantee precise control in confined spaces. Compared to the RPL251, it offers an even higher load capacity for businesses with extreme handling needs.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Lead Acid/Li-ion
Battery nominal capacity		Ah	205 280
Battery voltage		V	24
Load capacity	Q	kg	3000
Load centre distance	c	mm	600
Service weight		kg	802 875
Lift height	h ₃	mm	120
Overall length		mm	1954
Overall width	b ₁ /b ₂	mm	734
Length to face of forks	l ₂	mm	824
Fork dimensions	s/e/l	mm	55x1190x1150
Turning radius		Wa	1790
Operator type			Standing
Load distance, centre of drive axle to fork		mm	916
Wheelbase		mm	1531
Axle loading, laden front/rear		kg	1370 / 2420

Features

Extreme load capacity

With a maximum load capacity of 3000 kg, the RPL301 is the strongest in the series. Its reinforced chassis and larger counterweight guarantee stability and reliability even in the most demanding operations.



High-performance Li-ion power

The 24V/360Ah Li-ion battery provides exceptional runtime and supports fast opportunity charging. This allows the RPL301 to operate continuously in high-intensity, multi-shift environments.

Enhanced safety systems

Equipped with stabilizing wheels, anti-rollback function, and automatic cornering speed reduction, the RPL301 ensures safe handling for both operators and heavy loads.



Operator comfort and control

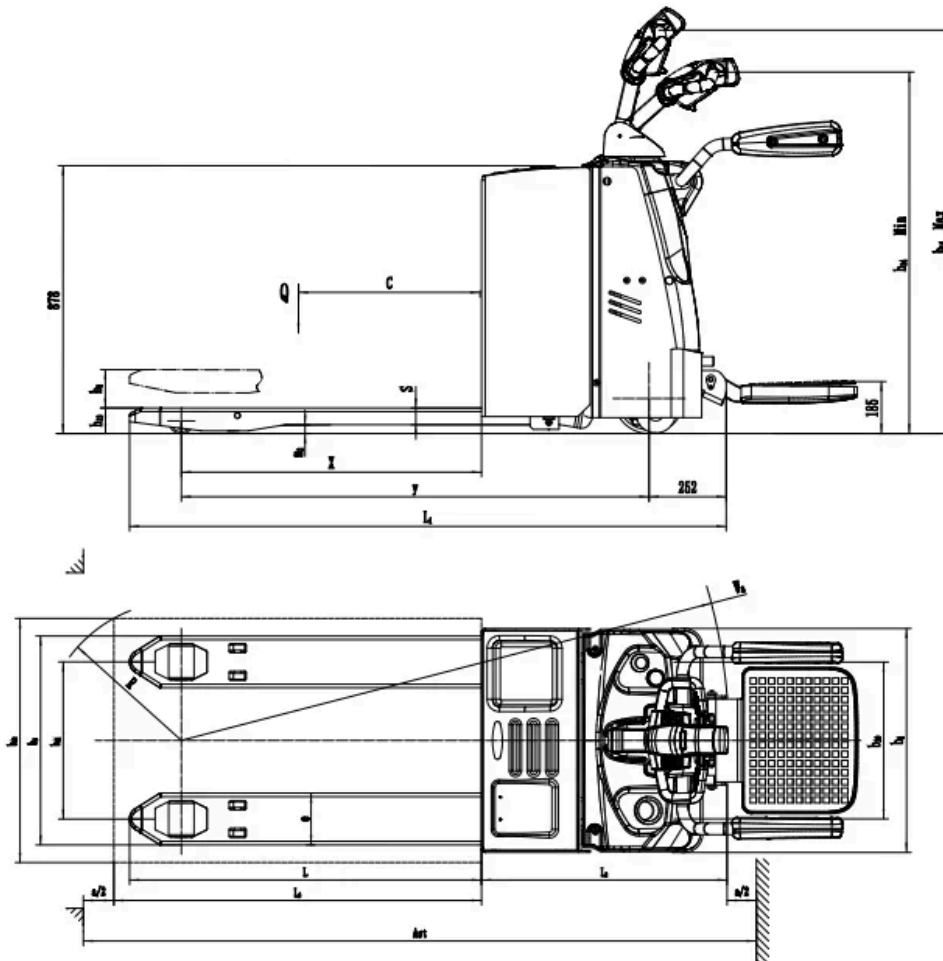
The suspended ride-on platform, protective sidearms, and proportional steering offer a comfortable and ergonomic driving experience, while creep speed mode ensures precise maneuvering in narrow spaces.

VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Standing
1.5	Load capacity	Q	kg	3000
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork		mm	916
1.9	Wheelbase		mm	1531
2.1	Service weight		kg	802 875
2.2	Axle loading, laden front/rear		kg	1370 / 2420
2.3	Axle loading, unladen front/rear		kg	650/140
3.1	Tyre type			Polyurethane
3.2	Tyre size, front		mm	Φ230x75
3.3	Tyre size, rear		mm	Φ130x55
3.4	Additional wheels (castor wheels)		mm	Φ85x70/Φ83x115
3.5	Wheels, number front/rear (x=drive wheels)			1x+2/4/1x+2/2
3.6.1	Tread width, front	b ₁₀	mm	510
3.7.1	Tread width, rear	b ₁₁	mm	370/495
4.0	Max lift height	H	mm	120
4.15	Lowered height			85
4.19	Overall length		mm	1954
4.20	Length to face of forks	l ₂	mm	824
4.21	Overall width	b ₁ /b ₂	mm	734
4.22	Fork dimensions	s/e/l	mm	55x1190x1150
4.32	Ground clearance, centre of wheelbase		mm	30
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	2590
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	2447
4.35	Turning radius		Wa	1790
4.4	Lift height	h ₃	mm	120
4.9	Height of tiller handle in drive position min./max.			1075 / 1288
5.1	Travel speed, laden/unladen		km/h	5.5/6
5.10	Service brake			Electromagnetic
5.2	Lifting speed, laden/unladen		m/s	0.050/0.054
5.3	Lowering speed, laden/unladen		m/s	0.067/0.054
5.8	Max. gradeability, laden/unladen		%	6/16

	SPECIFICATION	REF	UNIT	VALUE
6.1	Drive motor rating S2 60 min		kW	1.6
6.2	Lift motor rating at S3 15%		kW	2.2
6.4	Battery nominal capacity		Ah	205 280
6.4	Battery voltage		V	24
6.4.1	Battery type			Lead Acid/Li-ion
6.5	Battery weight		kg	62 255
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



Options

ITEM	OPTIONS (optional items marked in yellow)
Fork lowered height	85
Load wheel type	Double Single
Load wheel material	PU
Drive wheel material	PU Carved PU Rubber
Battery capacity	205Ah (Li-ion) 280Ah (Lead Acid) 210Ah/345Ah (Lead Acid)
Charger	24V-100A external charger (205Ah) 24V-30A external charger (210/280Ah) 24V-50A external charger 345Ah
Battery display indicator (BDI)	With hourmeter
Castor wheels	Yes
Water auto-filling system	Yes and not customized
Battery side pull function	Yes and not customized
Fork length	1150/1220 850/100/1300/1450/1600/1800/2000/2200/2400
Fork width	540/685 600/725/790/840/940/1000 /1050/1100/1200
Load backrest height	1220mm (48in) 1520mm (60in)
Load backrest width	750