

EP EQUIPMENT^{PRO}

RPL20 PRO

HEAVY-DUTY LI-ION RIDE-ON PALLET TRUCK 2.0T

 2000 kg

 120 mm

 24 V Li-Ion



Perfect for high-throughput warehouses, logistics centers, and manufacturing facilities, the RPL 20 PRO excels in long-distance pallet transport and loading dock operations. Its foldable cushioned platform and reinforced arm guards offer operator comfort and safety during extended shifts, while the compact design allows easy maneuverability in tight aisles. Whether used for cross-docking, trailer loading, or rapid pallet transfer, it ensures reliable, efficient handling in every environment.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-Ion
Battery nominal capacity K5		Ah	280
Battery voltage		V	24
Rated capacity	Q	kg	2000
Load centre distance	c	mm	600
Service weight		kg	750
Lift	h ₃	mm	120
Overall length	l ₁	mm	1798
Overall width	b ₁ /b ₂	mm	770
Length to face of forks	l ₂	mm	652
Fork dimensions	s/e/l	mm	55 x 170 x 1150
Turning radius	Wa	mm	1645
Manufacturer			EP
Model designation			RPL20 PRO
Drive			Electric
Operator type			Standing

Features

High stability

The low center of gravity, the redesigned stabilizing wheels, and the automatic speed reduction when turning ensure stable and safe driving while maintaining high productivity



Optimized Foldable Platform Design

The new cushioned foldable platform is engineered for long-distance travel, reducing operator fatigue and enhancing comfort. Its improved vibration absorption and reinforced load capacity ensure stability and confidence during demanding operations,



Compact and Robust Chassis

With its industry-leading 652 mm chassis length (l2), the RPL 20 PRO delivers excellent maneuverability in narrow aisles, especially when operated with the platform folded. Built on a sturdy frame, it offers reliable strength and smooth performance under heavy loads.



Powerful Performance, Extended Runtime, Silent Drive

The 3.0 kW drive motor enables fast, quiet operation and travelling speed up to 12.5 km/h, maintaining noise below 66 dB. The 24V 280Ah Li-ion battery supports multi-shift performance, while the external charging port allows quick and convenient recharging between shifts,



Smart Multi-function Display

The new intelligent display combines multiple functions in one device:

- . Informative display: shows speed, battery level, switch status, date, and time.
- . ESP driving mode selector: to match the needs of every operator
- . Parameter adjustment: allows personalized settings.
- . Bluetooth connectivity: pairs with the EP Bluetooth App for easy maintenance.
- . Optional operator ID: via card reader or PIN code.



Ergonomic Design for Comfort and Safety

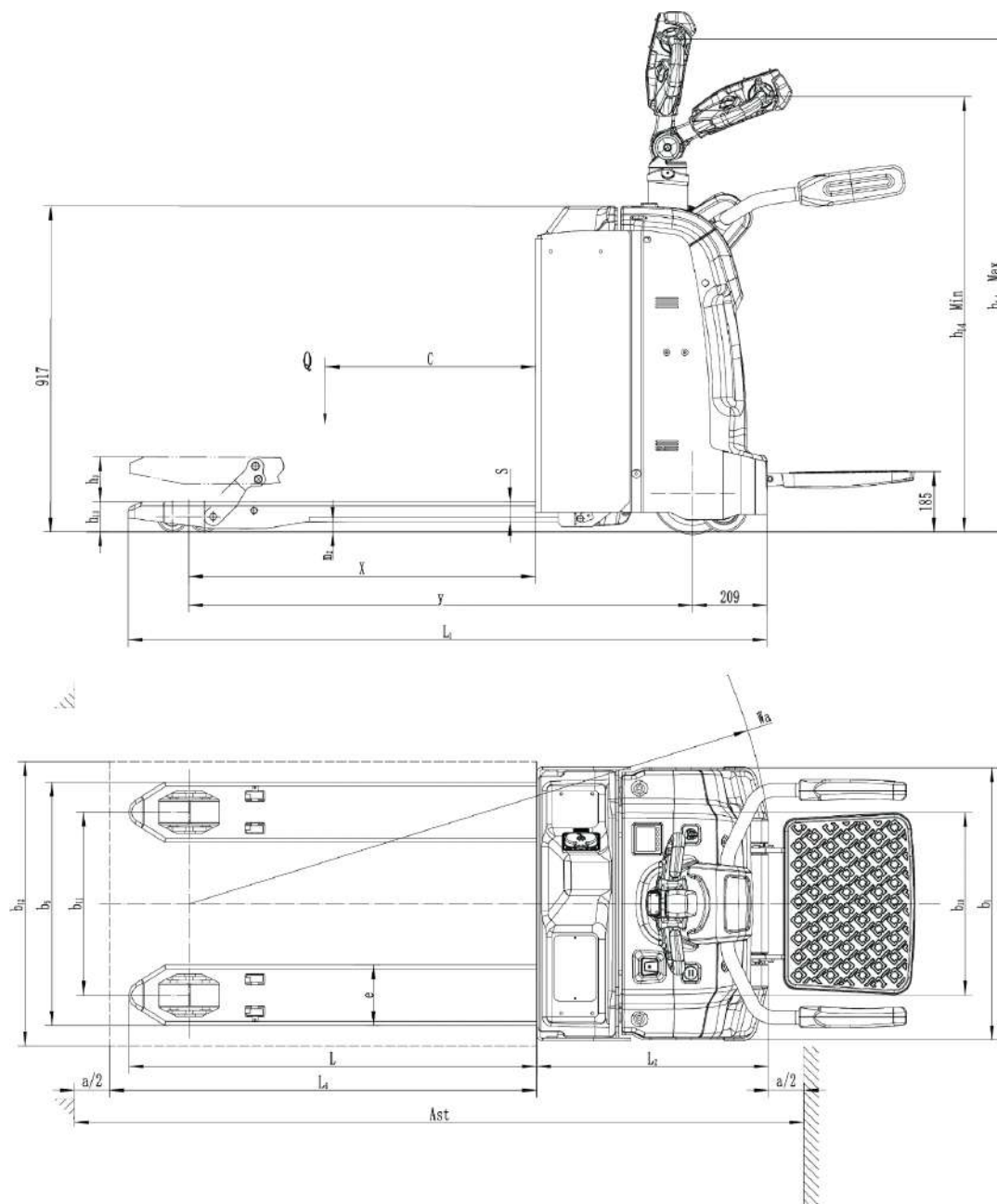
- . Height-adjustable tiller head for adaptable ergonomics
- . Reinforced arm guards for impact protection and durability
- . Electric power steering with turn speed control for smooth, safe handling
- . USB port and practical storage compartments for operator convenience
- . Automatic power cutoff during charging cable disconnection for added safety

VDI Chart

SPECIFICATION		REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			RPL20 PRO
1.3	Drive			Electric
1.4	Operator type			Standing
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	976
1.9	Wheelbase	y	mm	1418
2.1	Service weight		kg	750
2.2	Axle loading, laden front/rear		kg	1130/1620
2.3	Axle loading, unladen front/rear		kg	600/150
3.1	Tyres			Polyurethane
3.2	Tyre size, front		mm	Φ230x75

	SPECIFICATION	REF	UNIT	VALUE
3.3	Tyre size, rear		mm	Φ85x70
3.4	Additional wheels (castor wheels)		mm	Φ130x55
3.5	Wheels, number front/rear (x=drive wheels)			1 x +2 / 4
3.6	Tread width, front	b ₁₀	mm	554
3.7	Tread width, rear	b ₁₁	mm	370 / 515
4.4	Lift	h ₃	mm	120
4.9	Height drawbar in driving position min./max.	h ₁₄	mm	1130 / 1430
4.15	Height, lowered	h ₁₃	mm	85
4.19	Overall length	l ₁	mm	1798
4.20	Length to face of forks	l ₂	mm	652
4.21	Overall width	b ₁ /b ₂	mm	770
4.22	Fork dimensions	s/e/l	mm	55 x 170 x 1150
4.25	Distance between fork-arms	b ₅	mm	540 / 685
4.32	Ground clearance, centre of wheelbase	m ₂	mm	30
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2445
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2300
4.35	Turning radius	Wa	mm	1645
5.1	Travel speed, laden/unladen		km/h	9.5/12.5
5.2	Lift 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		%	8/20
5.10	Service brake			Electric / hydraulic
6.1	Drive motor rating S2 60 min		kW	3.0
6.2	Lift motor rating at S3 15%		kW	2.2
6.4	Battery nominal capacity K5		Ah	280
6.4	Battery voltage		V	24
6.4.1	Battery type			Li-Ion
6.5	Battery weight		kg	76
6.6	Energy consumption according to DIN EN 16796		kWh/h	0.317
6.7	Turnover output according to VDI 2198			136
6.8	Turnover efficiency according to VDI 2198			163.66
8.1	Type of drive unit			AC
10.5	Steering design			Electronic
10.7	Sound pressure level at the driver's seat		dB(A)	66

Fork length (mm)	Load capacity (kg)
	RPL20PRO
850	2000KG
1000	
1150	
1220	
1300	
1450	
1600	
1800	1800KG
2000	
2200	1600KG
2400	



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(High Performance) Trace PU Rubber
Battery capacity	280Ah (Li-ion) 205Ah (Li-ion)
Charger	24V-100A external charger
Battery display indicator (BDI)	With hourmeter(Bluetooth)

ITEM	OPTIONS (optional items marked in yellow)
Castor wheels	Yes and not customized
Fork length	1150/1220 850/100/1300/1450/1600/1800/2000/2200/2400
Fork width	540/685
Load backrest height	1220 mm (48in) 1520 mm (60in)
Swipe card device	No Yes and not customized