

TPL251

LOW LEVEL ORDER PICKER 2.5T

 2500 kg  120 mm  24 V

Product Image

The TPL251 is the ideal solution for high-volume order picking and long-distance horizontal transport in distribution centers, retail logistics, and manufacturing supply chains. Designed for low-level order picking, it allows operators to efficiently collect goods along aisles while maintaining excellent control and visibility. With walk-along side buttons for precise truck movement and an ergonomic suspended platform, the TPL251 enhances both productivity and operator well-being in demanding wa...

SPECIFICATION	REF	UNIT	VALUE
Battery nominal capacity		Ah	280
Battery voltage		V	24
Load capacity	Q	kg	2500
Load centre distance	c	mm	600
Service weight		kg	821
Lift height	h_3	mm	120
Overall length		mm	2526
Overall width	b_1/b_2	mm	804
Length to face of forks	I_2	mm	1375
Fork dimensions	s/e/l	mm	55/190/1150
Turning radius		Wa	2172
Operator type			Order-picker
Load distance, centre of drive axle to fork		mm	980
Wheelbase		mm	2117
Axle loading, laden front/rear		kg	1050/2271
Axle loading, unladen front/rear		kg	600/221

Features

High-speed performance and dual-pallet handling

With a top travel speed of 14.5 km/h, the TPL251 significantly increases throughput for long-distance order picking. The optional 2400 mm forks enable the handling of two pallets simultaneously, optimizing load cycles and minimizing travel time between aisles.

 High-speed performance and dual-pallet handling

Advanced Li-ion power system

Powered by a 24V/280Ah Li-ion battery, the TPL251 ensures long-lasting performance with zero maintenance and opportunity charging via an external plug. Optional 410Ah capacity provides even longer runtime, making it ideal for multi-shift operations without downtime.

 Advanced Li-ion power system

Ergonomic and comfortable operator station

Designed for operator well-being, the suspended platform and low-step entrance minimize vibration and fatigue. The foam backrest and wide standing space provide comfort during long shifts, while optional storage brackets accommodate accessories like scanners or WMS terminals.

 Ergonomic and comfortable operator station

Precision handling and easy operation

Equipped with electric power steering and automatic center positioning, the TPL251 ensures effortless control. Walk-along side buttons allow operators to move the truck alongside them during picking, improving workflow and reducing unnecessary steps between stops.

 Precision handling and easy operation

VDI Chart

SPECIFICATION		REF	UNIT	VALUE
1.4	Operator type			Order-picker

	SPECIFICATION	REF	UNIT	VALUE
1.5	Load capacity	Q	kg	2500
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork		mm	980
1.9	Wheelbase		mm	2117
2.1	Service weight		kg	821
2.2	Axle loading, laden front/rear		kg	1050/2271
2.3	Axle loading, unladen front/rear		kg	600/221
3.1	Tyre type			Polyurethane
3.2	Tyre size, front			Φ260x105
3.3	Tyre size, rear			Φ85x70
3.5	Additional wheels (castor wheels)			Φ180x65
3.5	Wheels, number front/rear (x=drive wheels)			1x+1/4
3.6	Tread width, front	b ₁₀	mm	465
3.7	Tread width, rear	b ₁₁	mm	370/515
4.15	Lowered height			85
4.16	Length of loading surface			1375
4.19	Overall length		mm	2526
4.2.1	Overall height			1273
4.20	Length to face of forks	I ₂	mm	1375
4.21	Overall width	b ₁ /b ₂	mm	804
4.22	Fork dimensions	s/e/l	mm	55/190/1150
4.24	Fork carriage width		mm	55
4.3	Free lift		mm	0
4.32	Ground clearance, centre of wheelbase		mm	30
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	3006
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	2941
4.35	Turning radius		Wa	2172
4.4	Lift height	h ₃	mm	120
4.9	Height of tiller handle in drive position min./max.			1273
5.1	Travel speed, laden/unladen		km/h	9.5/14.5
5.10	Service brake			Electromagnetic
5.11	Parking brake			Electromagnetic
5.2	Lifting speed, laden/unladen		m/s	0.032/0.044
5.3	Lowering speed, laden/unladen		m/s	0.045/0.037
5.8	Max. gradeability, laden/unladen		%	5/16

	SPECIFICATION	REF	UNIT	VALUE
6.1	Drive motor rating S2 60 min		kW	3.3
6.2	Lift motor rating at S3 15%		kW	2.2
6.4	Battery nominal capacity		Ah	280
6.4	Battery voltage		V	24
6.5	Battery weight		kg	76
6.5	Charger output current			3.3
6.6	Energy consumption according to DIN EN 16796		kWh/h	0.494 ¹⁾
6.7	Turnover output according to VDI 2198			117.5
6.8	Turnover efficiency according to VDI 2198			112.12
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
Load wheel material	PU
Drive wheel material	PU
Battery capacity	280Ah (Li-ion truck) 410Ah (Li-ion)
Charger	24V-100A external charger 24V-50A external charger
Battery display indicator (BDI)	With hourmeter (Bluetooth)
USB interface	USB interface
Front lamp	Front lamp
Fork length	1150 850/1000/1220/1300/1450/1600/1800 /2000/2200/2400
Fork width	560/685