TVL201

3-WHEEL DUAL-DRIVE COUNTERBALANCE FORKLIFT 2000KG

2000 kg | 6000 mm | 80 V Li-Ion

Narrow Aisle: This counterbalance forklift can be used for a range of work applications including indoor warehousing and narrow aisle, with a turning radius starting from 1450mm for TVL151 to 1585mm for TVL201.

Loading/Unloading: It offers great performance in loading and unloading tasks at docks or side bay lorries, supported by its powerful 80V battery. Ideal for the rental business due to its opportunity charging capability.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			TVL201
Battery voltage		V	80
Rated capacity	Q	kg	2000
Load centre distance	c	mm	500
Service weight		kg	3429
Height, mast lowered	h_1	mm	2075
Lift	h_3	mm	3000
Height, mast extended	h_4	mm	4055
Overall length	l_1	mm	3020
Overall width	b_1/b_2	mm	1170
Length to face of forks	l_2	mm	1950
Fork dimensions	s/e/l	mm	40X122X1070
Turning radius	Wa	mm	1585
Drive			Electric
Operator type			Seated

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Features

80 Volt System Offering Powerful Performance

The 80 voltage 2*5.0 kW dual drive motors offer higher power efficiency than regular 48 voltage, thus the TVL201 has greatly enhanced its productivity of 6 working hours per charge.

Large Workspace

Due to the compact size of EP lithium battery and the ergonomic configuration of the control levers and the foot brake pedal, the small truck offers spacious legroom of 394mm and delivers the best in operation comfort.

Compact Truck Size

The TVL is part of a series that features a small turning radius, 1450mm of TVL151, 1550mm of TVL181 and 1585mm of TVL201 , which makes it a perfect workhorse for small warehouses with narrow aisles within 3.5 m.

Integrated Charger

The TVL201 forklift comes with a EP Li-Ion battery and a 35A single phase integrated charger with 16 amp plug allowing the truck to be charged at any power outlets (except 10A and 13A civil plug in Switzerland and England).

Enhanced Mast with Optimal Visibility & Stability

The TVL201 adopts the same high-strengthened mast of CPD20L2, offering the best all-around visibility and great stability with less wobbling even fully loaded.

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VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			TVL201
1.3	Drive			Electric
1.4	Operator type			Seated
1.5	Rated capacity	Q	kg	2000
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork	x	mm	420
1.9	Wheelbase	y	mm	1330
2.1	Service weight		kg	3429
2.2	Axle loading, laden front/rear		kg	4745/684
2.3	Axle loading, unladen front/rear		kg	1359/2070
3.1	Tyres			Solid rubber
3.2	Tyre size, front		mm	200/50-10
3.3	Tyre size, rear		mm	140/55-9
3.5	Wheels, number front/rear (x=drive wheels)			2X/2
3.6	Tread width, front	b_{10}	mm	969
3.7	Tread width, rear	b_{11}	mm	210
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	5/5
4.2	Height, mast lowered	h_1	mm	2075
4.3	Free lift	h_2	mm	100
4.4	Lift	h_3	mm	3000
4.5	Height, mast extended	h_4	mm	4055
4.7	Height of overhead guard (cabin)	h6	mm	2078
4.8	Seat height relating to SIP/stand height	h7	mm	1050
4.12	Coupling height	h10	mm	600
4.19	Overall length	l_1	mm	3020
4.20	Length to face of forks	l_2	mm	1950
4.21	Overall width	b_1/b_2	mm	1170
4.22	Fork dimensions	s/e/l	mm	40X122X1070
4.23	Fork carriage ISO 2328, class/type A, B			2A
4.24	Fork carriage width		mm	1040
4.31	Ground clearance, laden, below mast		mm	89

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	SPECIFICATION	REF	UNIT	VALUE
4.32	Ground clearance, centre of wheelbase	m_2	mm	92
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	3315
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	3435
4.35	Turning radius	Wa	mm	1585
5.1	Travel speed, laden/unladen		km/h	13/14
5.2	Lift speed, laden/unladen		m/s	0.33/0.4
5.3	Lowering speed, laden/unladen		m/s	0.38/0.4
5.8	Max. gradeability, laden/unladen		%	10/15
5.10	Service brake			Hydraulic
5.11	Parking brake			Mechanical
6.1	Drive motor rating S2 60 min		kW	5.0X2
6.2	Lift motor rating at S3 15%		kW	11
6.4.1	Battery voltage		V	80
6.4.2	Battery nominal capacity K5		Ah	205
6.4.3	Battery type			Li-Ion
6.5	Battery weight		kg	185
6.6	Energy consumption according to DIN EN 16796		kWh/h	5.65
6.7	Turnover output according to VDI 2198			136
6.8	Turnover efficiency according to VDI 2198			25.9
8.1	Type of drive unit			AC
10.1	Operating pressure for attachments		bar	180
10.2	Oil volume for attachments		ℓ/min	25
10.5	Steering design			Hydraulic
10.7	Sound pressure level at the driver's seat		dB(A)	74

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.

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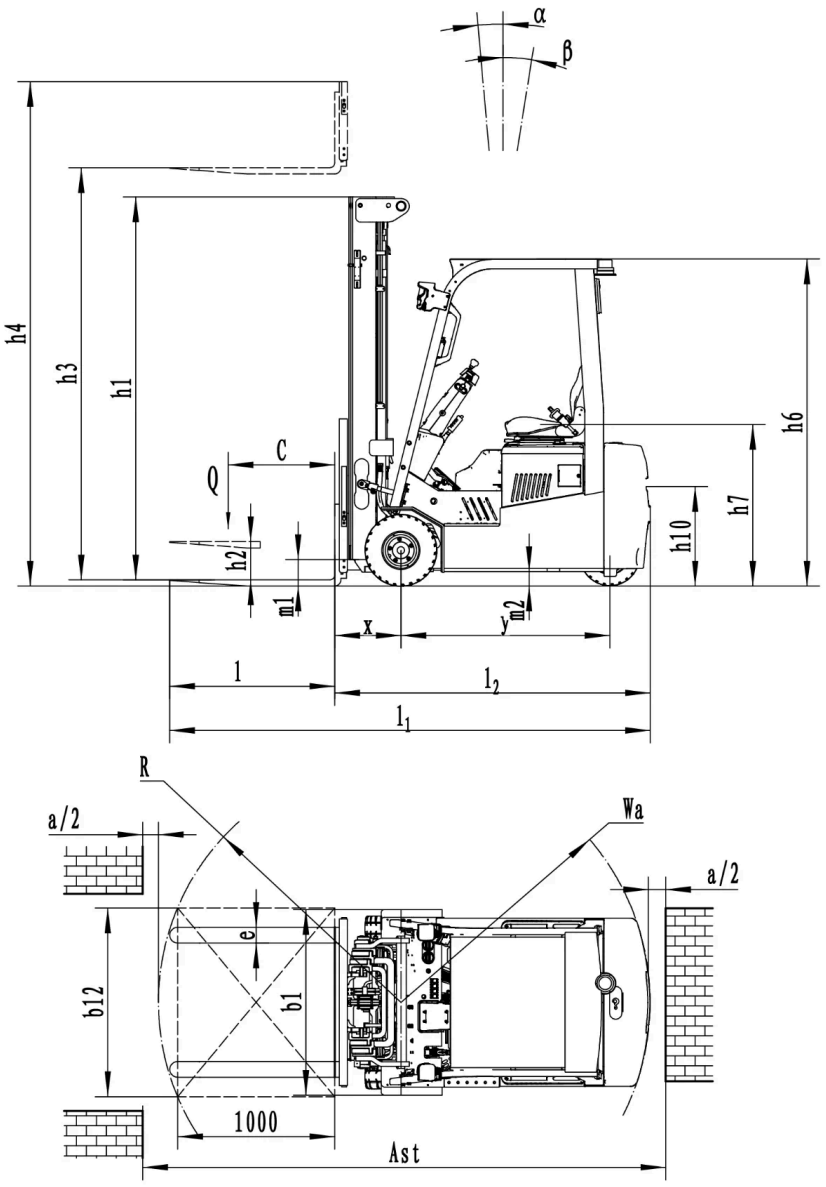
VDI Drawing



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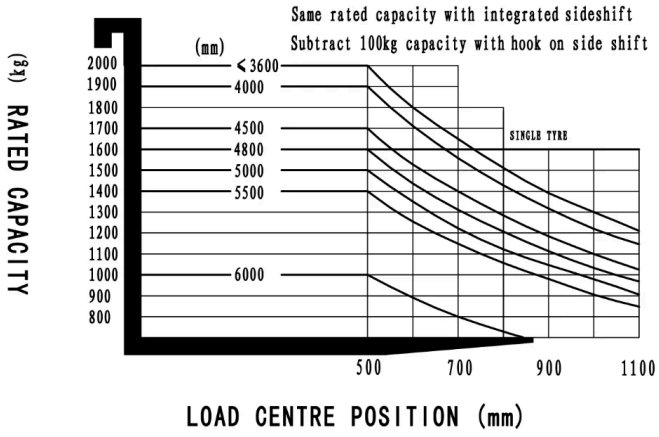
RATED CAPACITIES AND LOAD CENTERES GRAPH



Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Standard Mast	3000	2075	3740	4055	100	100
2-Standard Mast	3600	2375	4340	4655	100	100
2-Standard Mast	4000	2455	4740	5055	100	100
3-Free Mast	4500	2140	5240	5555	1430	1115
3-Free Mast	4800	2240	5540	5855	1530	1215
3-Free Mast	5000	2305	5740	6055	1595	1280
3-Free Mast	5500	2475	6240	6555	1765	1450
3-Free Mast	6000	2690	6740	7055	1980	1665

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	122*40*1070 | 122*40*920 | 122*40*1150 | 122*40*1200 | 122*40*1220 | 122*40*1370 | 122*40*1500 | 122*40*1670 | 122*40*1820

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ITEM	OPTIONS (optional items marked in yellow)
Fork carriage width option	1040mm | Yes and can be customized
Fork carriage height	1067mm (42in) | 1220mm (48in) | 1520mm (60in) | Yes and not customized
Front wheel material	Solid rubber | Yes and not customized
Rear wheel material	Solid rubber | Yes and not customized
Battery capacity	150Ah | 205Ah | 280Ah
Charger	80V-35A single-phase integrated | 80V-60A 3-phase integrated | 80V-35A single-phase external | 80V-65A 3-phase external | 80V-100A 3-phase external
Battery indicator	With hourmeter
Seat type	Regular | Premium | Suspension | Suspension+seatbelt logic switch
Attachments	No | Built-in sideshifter | External shifter | Adjustable fork
Traction pin	Yes
Electrostatic chain	Yes
Front lamp	LED
Rear lamp	No | LED
Warning lamp	YES
Blue lamp	No | 2 front | 1 rear | 2 front+ 1 rear
Area warning lamp	No | 1 left + 1 right (Red)
Rearview mirror	1 in the middle | Add 1 rearview mirror on both sides
Buzzer	YES
OPS system	YES
Telematics	No | Yes and not customized
Cabin	No | Basic half cabin | Upgrade half cabin | Full cabin
Wiper water unit	No | Yes, only with cabin and not customized

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