

# CPD20TVL

## 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 CPD15TVL to 1585mm for CPD20TVL.

**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
Battery type			Li-Ion
Battery nominal capacity		Ah	205
Battery voltage		V	80
Load capacity	Q	kg	2000
Load centre distance	c	mm	500
Service weight		kg	3429
Retracted mast height	$h_1$	mm	2075
Lift height	$h_3$	mm	3000
Height, mast extended	$h_4$	mm	4055
Overall length		mm	3020
Overall width	$b_1/b_2$	mm	1170
Length to face of forks	l <sub>2</sub>	mm	1950
Fork dimensions	s/e/l	mm	40X122X1070
Turning radius		Wa	1585
Operator type			Seated
Load distance, centre of drive axle to fork		mm	420

# Features

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## 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 TVL series 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 series features a small turning radius, 1450mm of CPD15TVL, 1550mm of CPD18TVL and 1585mm of CPD20TVL, which makes it a perfect workhorse for small warehouses with narrow aisles within 3.5 m.



## Integrated Charger

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



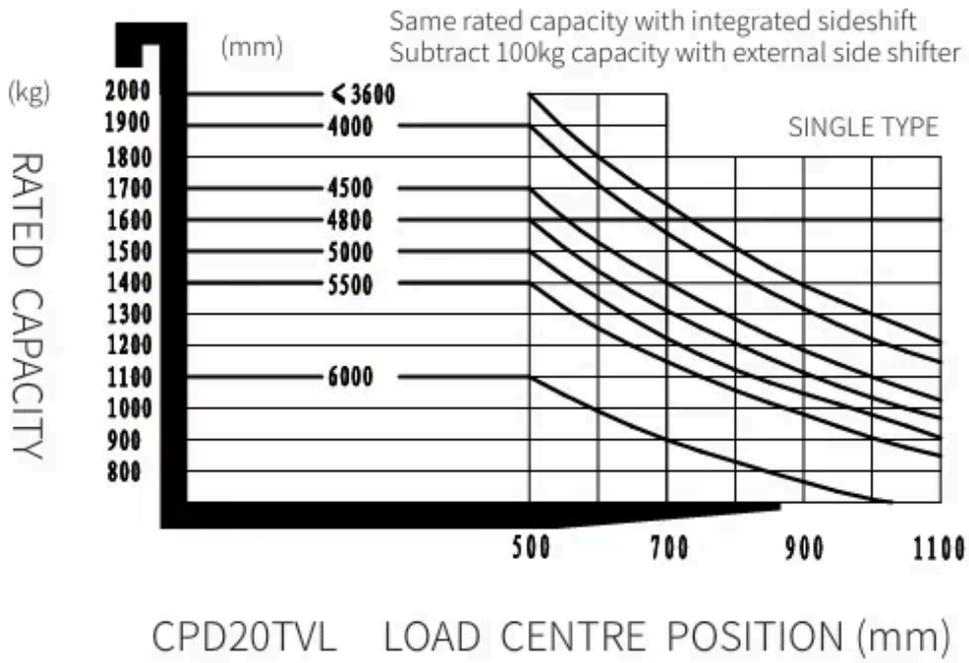
## VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Seated
1.5	Load capacity	Q	kg	2000
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork		mm	420
1.9	Wheelbase		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	Tyre type			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
3.6.1	Tread width, front	$b_{10}$	mm	969
3.7.1	Tread width, rear	$b_{11}$	mm	210
4.0	Max lift height	H	mm	6000
4.1	Tilt of mast/fork carriage forward/backward		°	6/6
4.12	Tow coupling height		mm	600
4.19	Overall length		mm	3020
4.2	Retracted mast height	$h_1$	mm	2075
4.20	Length to face of forks	l <sub>2</sub>	mm	1950
4.21	Overall width	$b_1/b_2$	mm	1170
4.22	Fork dimensions	s/e/l	mm	40X122X1070
4.23	A,B Fork carriage class/type A, B			2A
4.24	Fork carriage width		mm	1040
4.3	Free lift		mm	100
4.31	Ground clearance, laden, below mast		mm	89

SPECIFICATION	REF	UNIT	VALUE	
4.32	Ground clearance, centre of wheelbase	mm	92	
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	3315	
4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	3435	
4.35	Turning radius	Wa	1585	
4.4	Lift height	h <sub>3</sub>	mm	3000
4.5	Height, mast extended	h <sub>4</sub>	mm	4055
4.7	Height of overhead guard (cabin)	mm	2078	
4.8	Seat height/standing height	mm	1050	
5.1	Travel speed, laden/unladen	km/h	13/14	
5.10	Service brake		Hydraulic	
5.11	Parking brake		Mechanical	
5.2	Lifting 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	
6.1	Drive motor rating S2 60 min	kW	5.0X2	
6.2	Lift motor rating at S3 15%	kW	11	
6.4	Battery nominal capacity	Ah	205	
6.4	Battery voltage	V	80	
6.4.1	Battery type		Li-Ion	
6.5	Battery weight	kg	165	
8.1	Type of drive control		AC	
10.5	Steering design		Hydraulic	
10.7	Sound pressure level at the drivers ear	dB(A)	74	



## 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*1220   122*40*1370   122*40*1500   122*40*1600   122*40*1700   122*40*1820   122*40*1900   122*40*2000   122*40*2200
Fork carriage width option	1040mm   Yes and can be customized
Seat type	Regular   Premium   Suspension   Suspension+seatbelt logic switch
Attachments	No   Built-in sideshifter   External shifter   Adjustable fork
Traction pin	Yes
Front wheel material	Solid   Non-marking solid
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 display indicator (BDI)	With hourmeter
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
Front lamp	LED
Rear lamp	No   LED
Warning lamp	YES
Blue lamp	No   2 front   1 rear   2 front+ 1 rear
Cabin	No