

CPD18TVL

3-WHEEL DUAL-DRIVE COUNTERBALANCE FORKLIFT 1,800 KG

3000 mm 80 V Li-Ion



Narrow Aisle: This counterbalance forklift is suitable for a range of applications including indoor warehousing and narrow aisles, with a turning radius from 1450mm on the CPD15TVL to 1585mm on the CPD20TVL.

Loading/Unloading: It delivers strong performance for loading and unloading tasks at docks or side-bay lorries, supported by its powerful 80V battery. Ideal for rental operations thanks to its opportunity-charging capability.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-Ion
Battery nominal capacity		Ah	205
Battery voltage		V	80
Load centre distance	c	mm	500
Service weight		kg	3269
Retracted mast height	h ₁	mm	2075
Lift height	h ₃	mm	3000
Height, mast extended	h ₄	mm	4055
Overall length		mm	2833
Overall width	b ₁ /b ₂	mm	1100
Length to face of forks	I ₂	mm	1913
Fork dimensions	s/e/l	mm	40X100X920
Turning radius		Wa	1550
Operator type			Seated
Load distance, centre of drive axle to fork		mm	420
Wheelbase		mm	1330

Features

80-Volt System Delivering Powerful Performance

The 80V 2*5.0 kW dual drive motors offer higher power efficiency than conventional 48V systems, enabling the TVL series to achieve around six hours' operation per charge.



Spacious Workspace

Owing to the compact EP lithium battery and the ergonomic arrangement of the control levers and the foot brake pedal, the compact truck provides a generous 394mm legroom and delivers excellent operational comfort.

Compact Truck Size

The TVL series features a small turning radius — 1450mm for the CPD15TVL, 1550mm for the CPD18TVL and 1585mm for the CPD20TVL — making it an ideal workhorse for small warehouses with narrow aisles up to 3.5 m wide.



Integrated Charger

The TVL series forklift is supplied with an EP Li-Ion battery and a 35A single-phase integrated charger with a 16A plug, allowing the truck to be charged from standard power outlets (except 10A and 13A civil plugs in Switzerland and England).

Enhanced Mast for Optimal Visibility and Stability

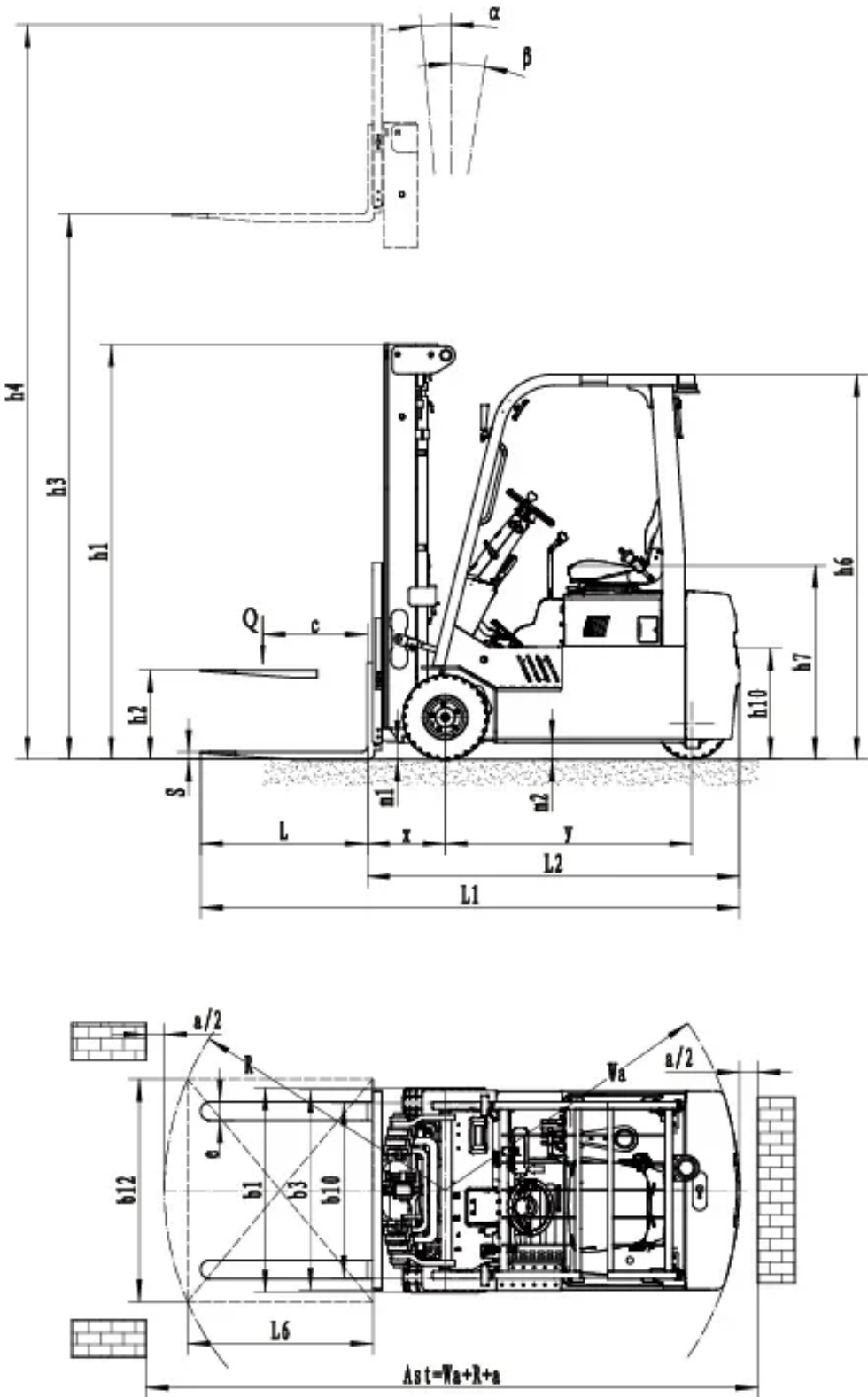
The TVL series uses the same high-strength mast as the CPD20L2, offering excellent all-round visibility and strong stability with reduced wobble even when fully loaded.



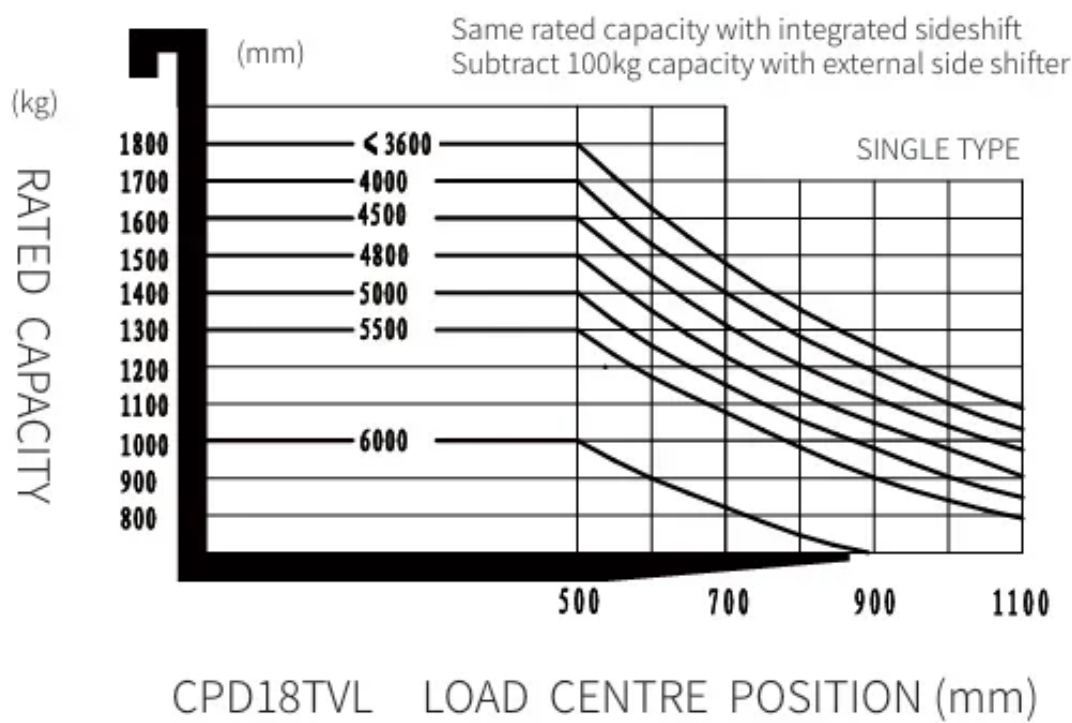
VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Seated
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	3269
2.2	Axle loading, laden front/rear		kg	4415/654
2.3	Axle loading, unladen front/rear		kg	1368/1901
3.1	Tyre type			Solid rubber
3.2	Tyre size, front			18X7-8
3.3	Tyre size, rear			140/55-9
3.5	Wheels, number front/rear (x=drive wheels)			2X/2
3.6	Tread width, front	b ₁₀	mm	943
3.7	Tread width, rear	b ₁₁	mm	210
4.1	Tilt of mast/fork carriage forward/backward		°	6/6
4.12	Tow coupling height		mm	600
4.19	Overall length		mm	2833
4.2	Retracted mast height	h ₁	mm	2075
4.20	Length to face of forks	I ₂	mm	1913
4.21	Overall width	b ₁ /b ₂	mm	1100
4.22	Fork dimensions	s/e/l	mm	40X100X920
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
4.32	Ground clearance, centre of wheelbase		mm	92
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	3275

SPECIFICATION		REF	UNIT	VALUE
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	3400
4.35	Turning radius		Wa	1550
4.4	Lift height	h ₃	mm	3000
4.5	Height, mast extended	h ₄	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	0.33/0.45
5.3	Lowering speed, laden/unladen		m/s	0.4/0.44
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)	70



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	100*40*920 100*40*1070 100*40*1100 100*40*1150 100*40*1220 100*40*1370 100*40*1520 100*40*1800
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