



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-lon
Battery nominal capacity		Ah	150
Battery voltage		V	80
Load capacity	Q	kg	1500
Load centre distance	С	mm	500
Service weight		kg	2950
Retracted mast height	$h_1$	mm	2075
Lift height	h <sub>3</sub>	mm	3000
Height, mast extended	h <sub>4</sub>	mm	4055
Overall length		mm	2733
Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	1070
Length to face of forks	I <sub>2</sub>	mm	1813
Fork dimensions	s/e/l	mm	100X40X920
Turning radius		Wa	1450
Operator type			Seated
Load distance, centre of drive axle to fork		mm	420

### **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 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  $3.5\,\mathrm{m}$ .





### **Integrated Charger**

The TVL series forklift comes with a EP Li-lon 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

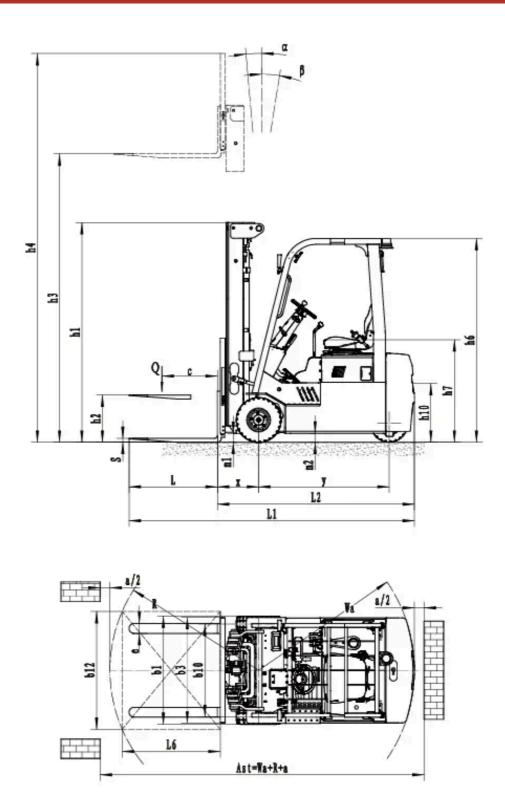
The TVL series adopts the same high-strengthened mast of CPD20L2, offering the best all-around visibility and great stability with less wobbling even fully loaded.



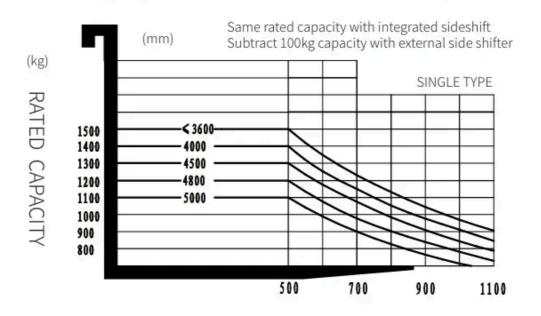
### **VDI Chart**

1.4       Operator type       Seated         1.5       Load capacity       Q       kg       1500         1.6       Load centre distance       c       mm       500         1.8       Load distance, centre of drive axle to fork       mm       420         1.9       Wheelbase       mm       1230         2.1       Service weight       kg       2950         2.2       Axle loading, laden front/rear       kg       3928/522         2.3       Axle loading, unladen front/rear       kg       1305/1645         3.1       Tyre type       Solid         3.2       Tyre size, front       18X7-8         3.3       Tyre size, rear       15X4.5-8         3.5       Wheels, number front/rear (x=drive wheels)       2X/2         3.6       Tread width, front       b <sub>10</sub> mm       943         3.7       Tread width, rear       b <sub>11</sub> mm       175         4.1       Tilt of mast/fork carriage forward/backward       ° 6/7         4.12       Tow coupling height       mm       600         4.19       Overall length       mm       2733         4.20       Length to face of forks       I <sub>2</sub> mm       1813	
1.6         Load centre distance         c         mm         500           1.8         Load distance, centre of drive axle to fork         mm         420           1.9         Wheelbase         mm         1230           2.1         Service weight         kg         2950           2.2         Axle loading, laden front/rear         kg         3928/522           2.3         Axle loading, unladen front/rear         kg         1305/1645           3.1         Tyre type         Solid           3.2         Tyre size, front         18X7-8           3.3         Tyre size, rear         15X4.5-8           3.5         Wheels, number front/rear (x=drive wheels)         2X/2           3.6         Tread width, front         b <sub>10</sub> mm         943           3.7         Tread width, rear         b <sub>11</sub> mm         175           4.1         Tilt of mast/fork carriage forward/backward         °         6/7           4.12         Tow coupling height         mm         600           4.19         Overall length         mm         2733           4.2         Retracted mast height         h <sub>1</sub> mm         2075	
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3.3 Tyre size, rear 15X4.5-8  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 175  4.1 Tilt of mast/fork carriage forward/backward $^{\circ}$ 6/7  4.12 Tow coupling height $^{\circ}$ mm 600  4.19 Overall length $^{\circ}$ mm 2733  4.2 Retracted mast height $h_1$ mm 2075	
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4.19Overall lengthmm27334.2Retracted mast heighth1mm2075	
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4.20 Length to face of forks I2 mm 1813	
<b>4.21</b> Overall width $b_1/b_2$ mm 1070	
4.22 Fork dimensions s/e/l mm 100X40X920	
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	

	SPECIFICATION	REF	UNIT	VALUE
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	3175
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	3300
4.35	Turning radius		Wa	1450
4.4	Lift height	h <sub>3</sub>	mm	3000
4.4.1	Max lift height		mm	5000
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	0.33/0.5
5.3	Lowering speed, laden/unladen		m/s	0.55/0.55
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	150
6.4	Battery voltage		V	80
6.4.1	Battery type			Li-lon
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)	68



#### RATED CAPACITIES AND LOAD CENTERES GRAPH



CPD15TVL LOAD CENTRE POSITION (mm)

## **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

## **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

ITEM	OPTIONS (optional items marked in yellow)
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
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