

CPD15/18/20TVL

1500/1800/2000kg

3-Wheel Dual-drive Counterbalance Forklift



- Compact 3 wheels truck designed around 80V Li-Ion battery
- Powerful dual drive AC traction motors
- Big legroom (394mm) for higher operator comfort
- Great ergonomic design with adjustable steering wheel and comfortable bucket seat
- 80V Li-Ion battery grant efficiency, long autonomy and occasional charge
- Single phase integrated charger with 16A plug



Manufacturer			EP	EP	EP
Model designation			CPD15TVL	CPD18TVL	CPD20TVL
Drive			Electric	Electric	Electric
Load capacity	Q	kg	1500	1800	2000
Load center distance	c	mm	500	500	500
Service weight		kg	2950	3269	3429
Retracted mast height	h1	mm	2075	2075	2075
Lift height	h3	mm	3000	3000	3000
Height, mast extended	h4	mm	4055	4055	4055
Length to face of forks	l2	mm	1813	1913	1950
Overall width	b1/b2	mm	1070	1070	1170
Fork dimensions	s/e/l	mm	40/100/920	40/100/920	40/122/1070
Turning radius	Wa	mm	1450	1550	1585
Travel speed, laden/unladen		km/h	13/14	13/14	13/14
Lifting speed, laden/unladen		m/s	0.33/0.45	0.33/0.45	0.3/0.4
Lowering speed, laden/unladen		m/s	0.4/0.44	0.4/0.44	0.38/0.4
Max. gradeability, laden/unladen		%	10/15	10/15	10/15
Drive motor rating S2 60 min		kW	5.0*2	5.0*2	5.0*2
Battery voltage/nominal capacity		V/Ah	80/150	80/205	80/205

Dimension



CPD15TVL Length to face of forks: 1813mm(L2) overall width: 1070mm(b1/b2)



CPD18TVL Length to face of forks: 1913mm(L2) overall width: 1070mm(b1/b2)



CPD20TVL Length to face of forks: 1950mm(L2) overall width: 1170mm(b1/b2)

▣ Fully Closed Cabin (option)

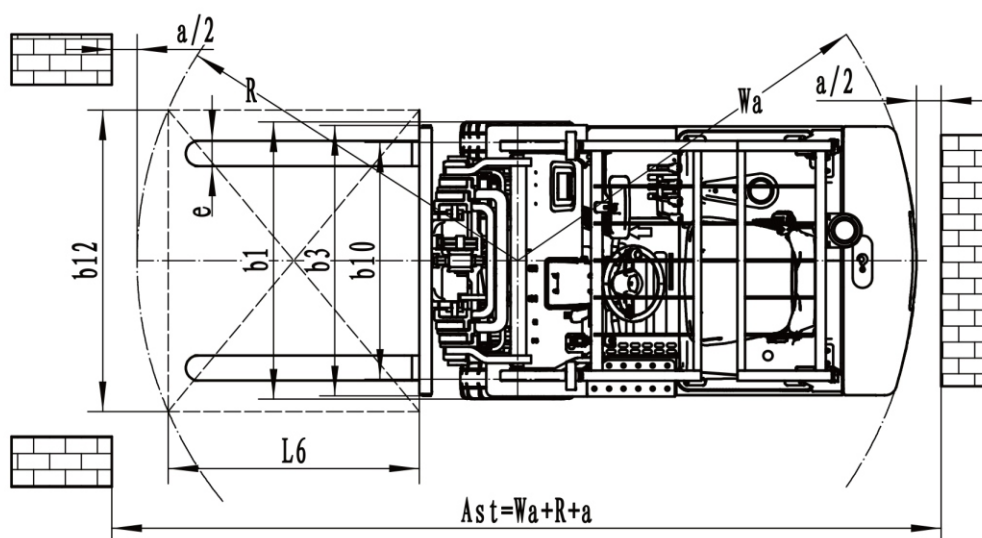
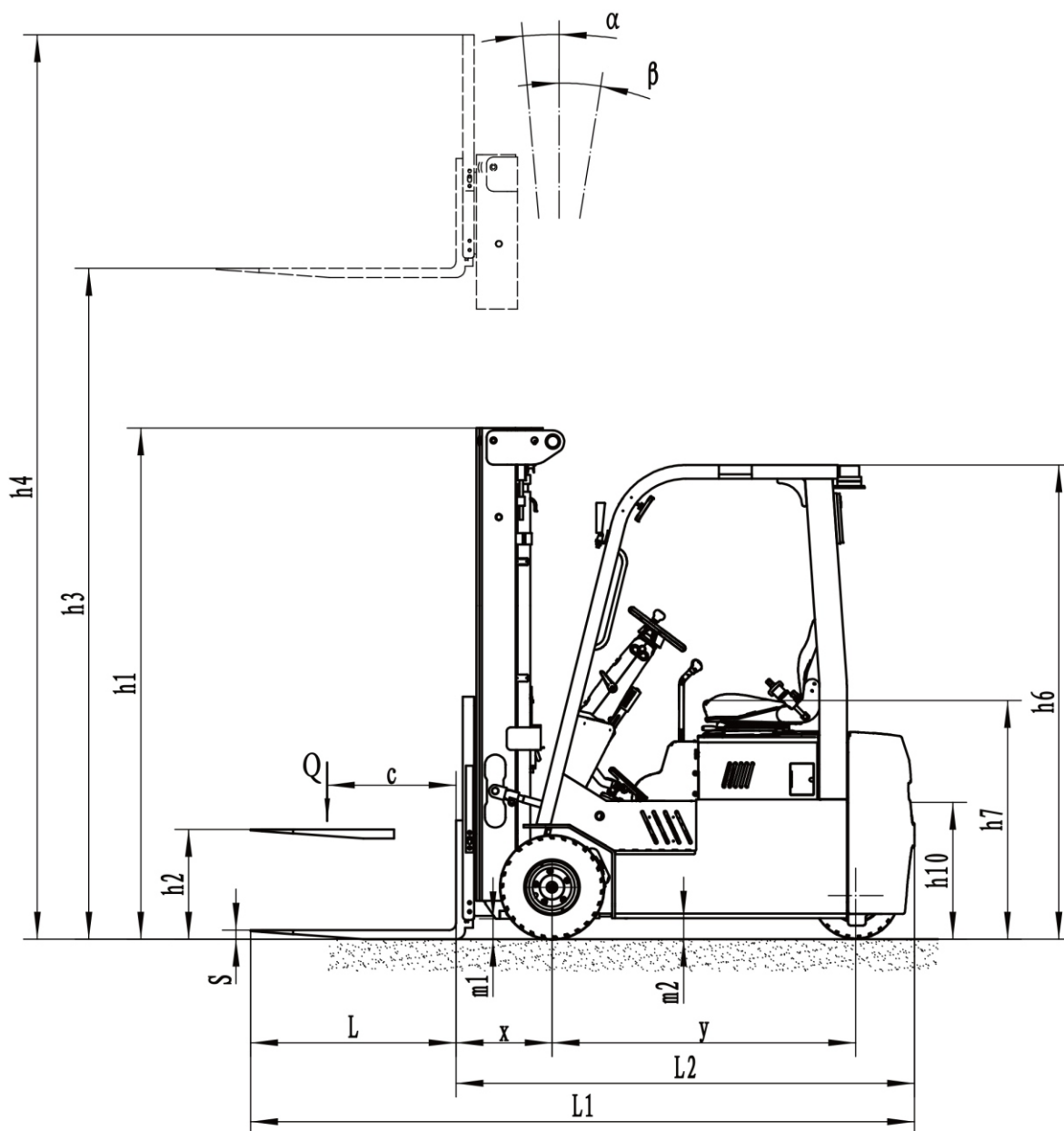


Li-Ion Three-Wheel Counterbalance Forklift 1.5/1.8/2.0T

CPD15/18/20TVL

Distinguishing mark	1.1	Manufacturer			EP	EP	EP
	1.2	Model designation			CPD15TVL	CPD18TVL	CPD20TVL
	1.3	Drive			Electric	Electric	Electric
	1.4	Operator type			Seated	Seated	Seated
	1.5	Load capacity	Q	kg	1500	1800	2000
	1.6	Load center distance	c	mm	500	500	500
	1.8	Load distance, centre of drive axle to fork	x	mm	—	420	—
	1.9	Wheelbase	y	mm	1230	1330	1330
	2.1	Service weight		kg	2950	3269	3429
Service weight	2.2	Axle loading, laden front/rear		kg	3928/522	4415/654	4745/684
	2.3	Axle loading, unladen front/rear		kg	1305/1645	1368/1901	1359/2070
	3.1	Tyre type			Solidrubber	Solidrubber	Solidrubber
Tyres/chassis	3.2	Tyre size, front			18X7-8	18X7-8	200/50-10
	3.3	Tyre size, rear			15X4.5-8	15X4.5-8	15X4.5-8
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2X/2	2X/2	2X/2
	3.6	Tread width, front	b ₁₀	mm	943	943	969
Dimensions	3.7	Tread width, rear	b ₁₁	mm	175	175	175
	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/6	6/6	6/6
	4.2	Retracted mast height	h ₁	mm	2075	2075	2075
	4.3	Free lift	h ₂	mm	100	100	100
	4.4	Lift height	h ₃	mm	3000	3000	3000
	4.5	Height, mast extended	h ₄	mm	4055	4055	4055
	4.7	Height of overhead guard (cabin)	h ₆	mm	2078	2078	2078
	4.8	Seat height/standing height	h ₇	mm	1050	1050	1050
	4.12	Tow coupling height	h ₁₀	mm	600	600	600
	4.19	Overall length	l ₁	mm	2733	2833	3020
	4.20	Length to face of forks	l ₂	mm	1813	1913	1950
	4.21	Overall width	b ₁ /b ₂	mm	1070	1070	1170
	4.22	Fork dimensions	s×e×l	mm	40X100X920	40X100X920	40X122X1070
	4.23	A,B Fork carriage class/type A, B			2A	2A	2A
	4.24	Fork carriage width	b ₃	mm	1040	1040	1040
	4.31	Ground clearance, laden, below mast	m ₁	mm	89	89	89
	4.32	Ground clearance, center of wheelbase	m ₂	mm	92	92	92
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	3175	3275	3315
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	3300	3400	3435
Performance data	4.35	Turning radius	Wa	mm	1450	1550	1585
	5.1	Travel speed, laden/unladen		km/h	13/14	13/14	13/14
	5.2	Lifting speed, laden/unladen		m/s	0.33/0.45	0.33/0.45	0.3/0.4
	5.3	Lowering speed, laden/unladen		m/s	0.4/0.44	0.4/0.44	0.38/0.4
	5.5	Drawbar pull, laden/unladen		N	—	—	—
	5.6	Max. drawbar pull, laden/unladen		N	—	—	—
	5.8	Max. gradeability, laden/unladen		%	10/15	10/15	10/15
	5.10	Service brake			Hydraulic	Hydraulic	Hydraulic
Electric-engine	5.11	Parking brake			Mechanical	Mechanical	Mechanical
	6.1	Drive motor rating S2 60 min		kW	5.0X2	5.0X2	5.0X2
	6.2	Lift motor rating at S3 15%		kW	11	11	11
	6.4	Battery voltage/nominal capacity		V/Ah	80V/150Ah	80V/205Ah	80V/205Ah
	6.5	Battery weight		kg	—	185	185
	6.6	Energy consumption according to DIN EN 16796		kWh/h	4.994 ¹⁾	4.48 ¹⁾	6.082 ¹⁾
	6.7	Turnover output according to VDI 2198		t/h	96	108	128
	6.8	Turnover efficiency according to VDI 2198		t/kWh	19.22	24.11	21.05
Drive/lift mechanism	8.1	Type of drive control			AC	AC	AC
	10.1	Operating pressure for attachments		bar	—	—	—
	10.2	Oil flow for attachments		l/min	—	—	—
	10.5	Steering design			Hydraulic	Hydraulic	Hydraulic
	10.7	Sound pressure level at the driver's ear		dB(A)	68	70	74
	15.1	Charger output current		A	35	35	35

If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.



Dimension



CPD15TVL Length to face of forks: 1813mm(L2) overall width: 1070mm(b1/b2)



CPD18TVL Length to face of forks: 1913mm(L2) overall width: 1070mm(b1/b2)



CPD20TVL Length to face of forks: 1950mm(L2) overall width: 1170mm(b1/b2)

Mast Option

CPD15TVL

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest
			No backrest	With backrest		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	3000	2075	3740	4055	100	100
	3600	2375	4340	4655	100	100
	4000	2625	4740	5055	100	100
3-Free Mast	4500	2140	5240	5555	1430	1115
	4800	2240	5540	5855	1530	1215
	5000	2305	5740	6055	1595	1280

CPD18/20TVL

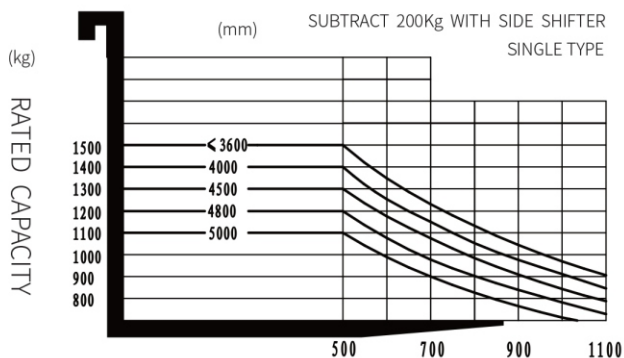
Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest
			No backrest	With backrest		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	3000	2075	3740	4055	100	100
	3600	2375	4340	4655	100	100
	4000	2625	4740	5055	100	100
3-Free Mast	4500	2140	5240	5555	1430	1115
	4800	2240	5540	5855	1530	1215
	5000	2305	5740	6055	1595	1280
	5500	2475	6240	6555	1765	1450
	6000	2690	6740	7055	1980	1665

Note*

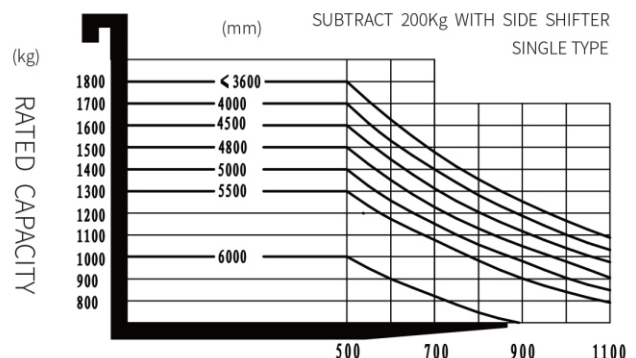
CPD18TVL	Lift height (h3)mm	Tyre size, front	Overall width (b1/b2)mm
3-Free Mast	5000	200/50-10	1170
	5500		
	6000		

*The parameters of CPD18TVL will be altered in tyre size and overall width, when choosing triplex mast with lift height over 5000mm.

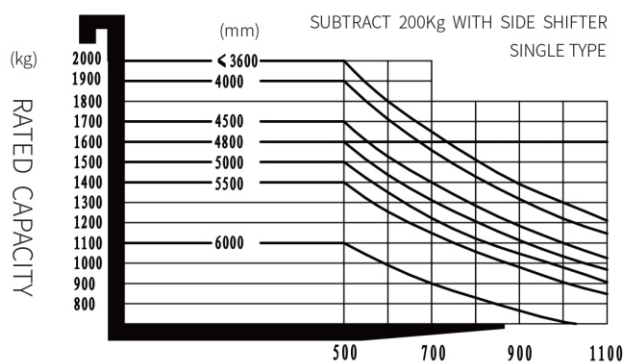
RATED CAPACITIES AND LOAD CENTERS GRAPH



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RATED CAPACITIES AND LOAD CENTERS GRAPH



CPD20TVL LOAD CENTRE POSITION (mm)

Option

No.	Optional items	CPD15TVL
1.1	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
1.4	Fork carriage width	1040mm Yes and can be customized
1.5	Fork carriage height	1067mm (42in) 1220mm (48in) 1520mm (60in) Yes and can be customized
2.5	Front wheel material	Solid Non-marking solid
2.6	Rear wheel material	Solid Non-marking solid
2.7	Battery capacity	150Ah
2.8	Charger	80V-35A single-phase integrated 80V-60A 3-phase integrated 80V-35A single-phase external 80V-65A 3-phase external
2.9	Battery indicator	With time
2.10	Seat type	- Regular Premium Suspension - Suspension+seatbelt logic switch Suspension seat with armrest(KL01)
2.11	Attachments	No Built-in sideshifter External shifter Adjustable fork
2.13	Traction pin	Yes
2.14	Electrostatic chain	Yes
3.5	Front lamp	LED
3.6	Rear lamp	No LED
3.7	Warning lamp	Yes
3.8	Steering lamp	Yes
3.9	Blue lamp	No 2 front 1 rear 2 front +1 rear
3.10	Area warning lamp	No 1 left + 1 right (Red)
3.11	Rearview mirror	1 in the middle Add 1 rearview mirror on both sides
3.12	Buzzer	Yes
3.17	OPS system	Yes
3.23	Telematics	Yes and not customized
4.3	Cabin	No Basic semi-enclosed cabin Upgrade semi-enclosed cabin Full cabin
4.9	Heater	No Yes and not customized
Note: ● Standard ○ Optional - Inconformity		

Option

No.	Optional items	CPD18TVL
1.1	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
1.4	Fork carriage width	●1040mm○Yes and can be customized
1.5	Fork carriage height	●1067mm (42in) ○1220mm (48in) ○1520mm (60in) ○Yes and can be customized
2.5	Front wheel material	●Solid○Non-marking solid
2.6	Rear wheel material	●Solid○Non-marking solid
2.7	Battery capacity	●205Ah
2.8	Charger	●80V-35A single-phase integrated ○80V-60A 3-phase integrated ○80V-35A single-phase external ○80V-65A 3-phase external ○80V-130A 3-phase external
2.9	Battery indicator	●With time
2.10	Seat type	●Regular○Premium○Suspension ○Suspension+seatbelt logic switch○Suspension seat with armrest(KL01)
2.11	Attachments	●No○Built-in sideshifter○External shifter○Adjustable fork
2.13	Traction pin	●Yes
2.14	Electrostatic chain	●Yes
3.5	Front lamp	●LED
3.6	Rear lamp	●No○LED
3.7	Warning lamp	●Yes
3.8	Steering lamp	●Yes
3.9	Blue lamp	●No○2 front○1 rear○2 front +1 rear
3.10	Area warning lamp	●No○1 left + 1 right (Red)
3.11	Rearview mirror	●1 in the middle○Add 1 rearview mirror on both sides
3.12	Buzzer	●Yes
3.17	OPS system	●Yes
3.23	Telematics	●Yes and not customized
4.3	Cabin	●No○Basic semi-enclosed cabin○Upgrade semi-enclosed cabin○Full cabin
4.9	Heater	●No○Yes and not customized
Note: ●Standard ○Optional - Inconformity		

Option

No.	Optional items	CPD20TVL
1.1	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
1.4	Fork carriage width	●1040mm○Yes and can be customized
1.5	Fork carriage height	●1067mm (42in) ○1220mm (48in) ○1520mm (60in) ○Yes and can be customized
2.5	Front wheel material	●Solid○Non-marking solid
2.6	Rear wheel material	●Solid○Non-marking solid
2.7	Battery capacity	●205Ah
2.8	Charger	●80V-35A single-phase integrated ○80V-60A 3-phase integrated ○80V-35A single-phase external ○80V-65A 3-phase external ○80V-130A 3-phase external
2.9	Battery indicator	●With time
2.10	Seat type	●Regular○Premium○Suspension ○Suspension+seatbelt logic switch○Suspension seat with armrest(KL01)
2.11	Attachments	●No○Built-in shifter○External shifter○Adjustable fork
2.13	Traction pin	●Yes
2.14	Electrostatic chain	●Yes
3.5	Front lamp	●LED
3.6	Rear lamp	●No○LED
3.7	Warning lamp	●Yes
3.8	Steering lamp	●Yes
3.9	Blue lamp	●No○2 front○1 rear○2 front +1 rear
3.10	Area warning lamp	●No○1 left + 1 right (Red)
3.11	Rearview mirror	●1 in the middle○Add 1 rearview mirror on both sides
3.12	Buzzer	●Yes
3.17	OPS system	●Yes
3.23	Telematics	●Yes and not customized
4.3	Cabin	●No○Basic semi-enclosed cabin○Upgrade semi-enclosed cabin○Full cabin
4.9	Heater	●No○Yes and not customized
Note: ●Standard ○ Optional - Inconformity		