



CPD45L1

4-WHEEL LI-ION COUNTERBALANCE FORKLIFT 4.5T

 4500 kg  6000 mm  80 V Li-Ion



The CPD45L1 counterbalance forklift is suitable for heavy duty, even the most demanding applications, thanks to the various lithium battery options and the improved travel speed.

It can deliver great performance to various industries, such as beverage, wood, metal, construction and others. For handling materials in containers, the CPD45L1 with a dedicated mast can fully meet the need due to its proper overhead guard height of 2250mm.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			CPD45L1
Battery voltage		V	80
Battery voltage/nominal capacity		V/Ah	80/560
Rated capacity	Q	kg	4500
Load centre distance	c	mm	500
Service weight		kg	6800
Height, mast lowered	h_1	mm	2230
Lift	h_3	mm	3000
Height, mast extended	h_4	mm	4175
Overall length	l_1	mm	3965
Overall width	b_1/b_2	mm	1550
Length to face of forks	l_2	mm	2895
Fork dimensions	s/e/l	mm	50X150X1070
Turning radius	Wa	mm	2675
Drive			Electric

Features

New appearance combining both practical and aesthetics design

The new design of the CPD45L1 reflects both practicality and beauty. The internal lay-out has been optimized, resulting in shorter l2 of 2900mm and a tighter turning radius of 2675mm. The compact size makes it easy to maneuver in confined spaces. The bolted overhead guard offers maximum flexibility for retrofit or replacement and the height of 2250mm combined with triplex 4,5 meters elevation allows for goods transportation in standard containers.



Different lithium battery capacity options to meet different needs

The CPD45L1 offers two lithium battery options, 80V/560Ah and 80V/690Ah, to meet regular and intensive applications. It is designed around the advantages of lithium technology - opportunity charging, zero maintenance, zero carbon emissions and zero gas emissions during charging, which contributes to convenient and sustainable operation. The practical IP65 external plug provide charging convenience without the need to open the cover.



Fast travel speed for maximum efficiency

Compared to the classic CPD50F8, the travel speed of the CPD45L1 is improved to 16/18km/h, speeding up warehouse turnover and increasing transport efficiency.



Fingertip or joystick option for fatigue-free operation

The CPD45L1 can be fitted with electronic hydraulic controls (fingertip or joystick) as alternative to mechanical levers. Positioned at the end of the armrest, fingertip operation is possible, improving the operator ergonomics with the following controls: all fork hydraulic control including the 4th way, driving direction (F-N-B), horn, emergency stop button.



Market-proven components and optimized lay-out

The CPD45L1 inherits mature components, such as the drive unit, motors, controllers, and mast, ensuring great reliability. The box girder structure is more rigid, granting higher stability, and the new hydraulic pump makes the lifting operation more precise and quieter.



Ergonomic seat for a comfortable experience

The seat height (h7) is 1208mm from the ground, lower in its category. This makes it easy for the driver to get in and out.

VDI Chart

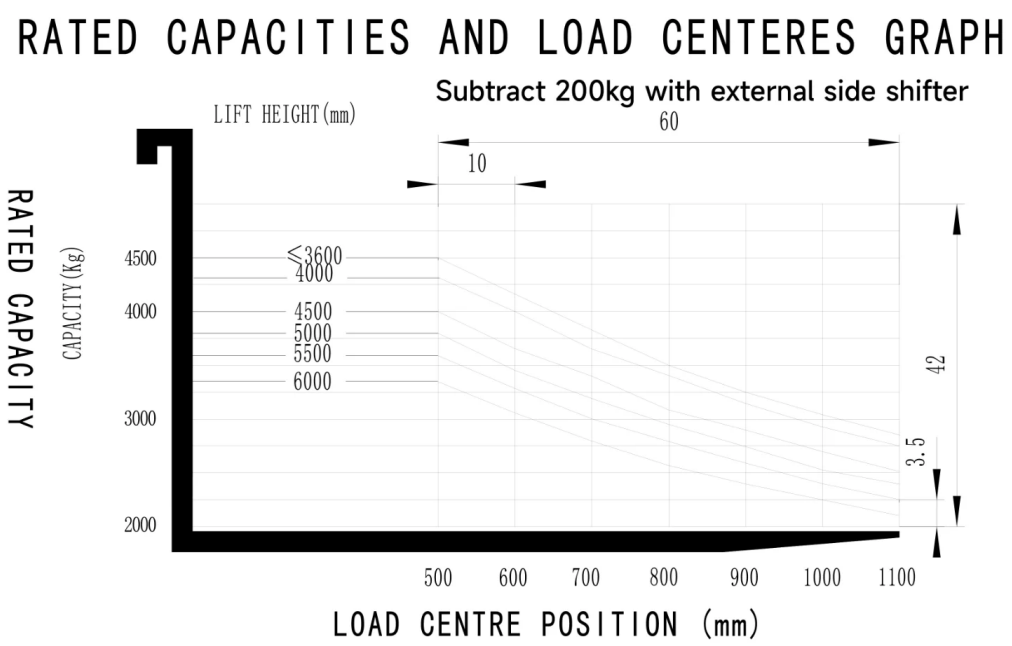
SPECIFICATION		REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			CPD45L1
1.3	Drive			Electric
1.4	Operator type			Seated
1.5	Rated capacity	Q	kg	4500
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork	x	mm	548
1.9	Wheelbase	y	mm	2000
2.1	Service weight		kg	6800
2.2	Axle loading, laden front/rear		kg	10080/1220
2.3	Axle loading, unladen front/rear		kg	3220/3580
3.1	Tyres			Solid rubber
3.2	Tyre size, front		mm	28x12.5-15
3.3	Tyre size, rear		mm	23X10-12
3.5	Wheels, number front/rear (x=drive wheels)			2X/2
3.6	Tread width, front	b ₁₀	mm	1230
3.7	Tread width, rear	b ₁₁	mm	1060
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/10
4.2	Height, mast lowered	h ₁	mm	2230
4.3	Free lift	h ₂	mm	150

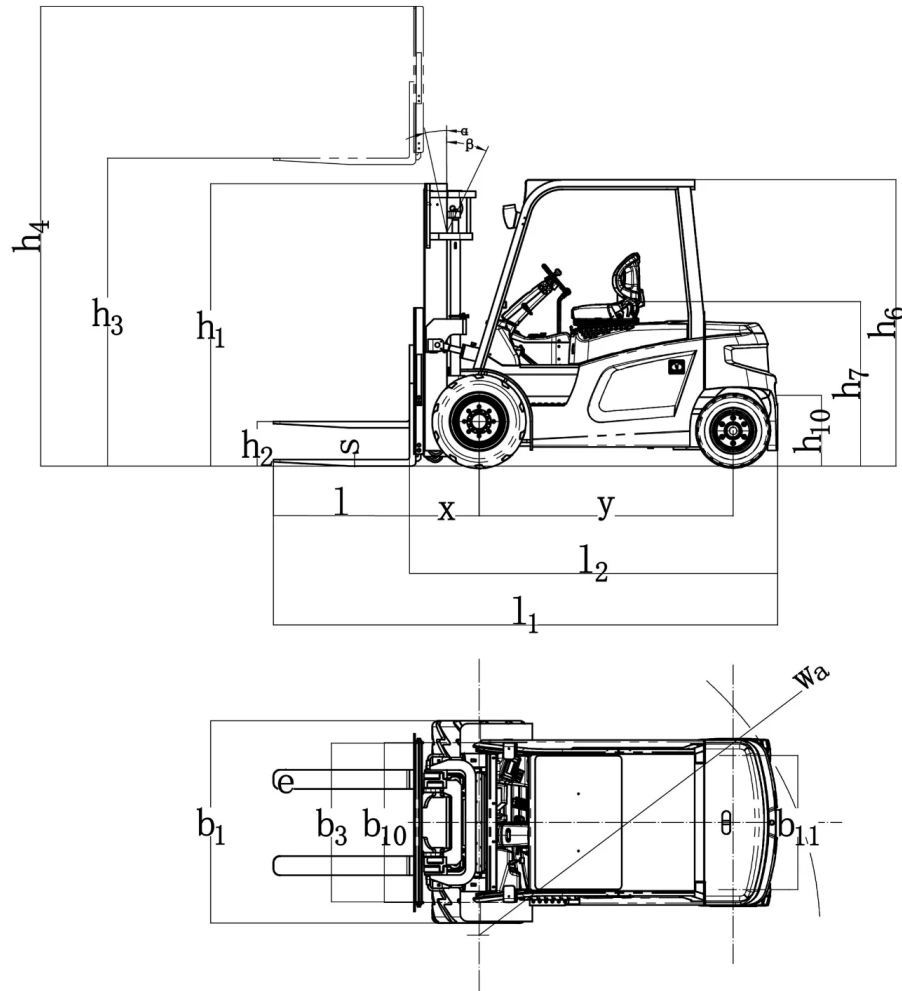
SPECIFICATION		REF	UNIT	VALUE
4.4	Lift	h ₃	mm	3000
4.5	Height, mast extended	h ₄	mm	4175
4.7	Height of overhead guard (cabin)	h ₆	mm	2250
4.8	Seat height relating to SIP/stand height	h ₇	mm	1208
4.12	Coupling height	h ₁₀	mm	573
4.19	Overall length	l ₁	mm	3965
4.20	Length to face of forks	l ₂	mm	2895
4.21	Overall width	b ₁ /b ₂	mm	1550
4.22	Fork dimensions	s/e/l	mm	50X150X1070
4.23	Fork carriage ISO 2328, class/type A, B			3A
4.24	Fork carriage width	b ₃	mm	1250
4.31	Ground clearance, laden, below mast	m ₁	mm	130
4.32	Ground clearance, centre of wheelbase	m ₂	mm	150
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	4440
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	4640
4.35	Turning radius	wa	mm	2675
5.1	Travel speed, laden/unladen		km/h	16/18
5.2	Lift speed, laden/unladen		m/s	0.3/0.45
5.3	Lowering speed, laden/unladen		m/s	0.45/0.51
5.6	Max. drawbar pull, laden/unladen		N	26000
5.8	Max. gradeability, laden/unladen		%	15/20
5.10	Service brake			Mechanical/Hydraulic
5.11	Parking brake			Mechanical
6.1	Drive motor rating S2 60 min		kW	18
6.2	Lift motor rating at S3 15%		kW	25.4
6.4	Battery voltage/nominal capacity		V/Ah	80/560
6.4.1	Battery voltage		V	80
6.4.2	Battery nominal capacity K5		Ah	560
6.4.3	Battery type			Li-Ion
6.5	Battery weight		kg	396
6.6	Energy consumption according to DIN EN 16796		kWh/h	14.38 ¹⁾
6.7	Turnover output according to VDI 2198			300
6.8	Turnover efficiency according to VDI 2198			23.77
8.1	Type of drive unit			AC

	SPECIFICATION	REF	UNIT	VALUE
10.5	Steering design			Hydraulic
10.7	Sound pressure level at the driver's seat		dB(A)	70

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.

VDI Drawing





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	2230	4175	3770	150	150
2-Standard Mast	3300	2380	4475	4070	150	150

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	3500	2480	4675	4270	150	150
2-Standard Mast	3700	2580	4875	4470	150	150
2-Standard Mast	4000	2780	5175	4770	150	150
2-Standard Mast	4500	3030	5675	5270	150	150
2-Free Mast	2710	2200	3885	3480	1055	1355
2-Free Mast	3000	2345	4175	3770	1200	1500
2-Free Mast	3300	2495	4475	4070	1350	1650
2-Free Mast	3500	2595	4675	4270	1450	1750
3-Free Mast	4000	2080	4780	5200	1230	900
3-Free Mast	4350	2195	5130	5550	1345	1015
3-Free Mast	4500	2245	5280	5700	1395	1065
3-Free Mast	4700	2310	5480	5900	1460	1130
3-Free Mast	4800	2345	5580	6000	1490	1160
3-Free Mast	5000	2460	5780	6200	1610	1280
3-Free Mast	5500	2680	6280	6700	1830	1500
3-Free Mast	6000	2845	6780	7200	1995	1665

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	150*55*1070 Can be customized
Fork carriage width option	1250mm Yes and can be customized
Backrest height	1220mm Yes and can be customized
Front wheel material	Solid Non-marking solid
Rear wheel material	Solid Non-marking solid
Battery capacity	80V560AH 80V690AH
Charger	80V-100A 80V-150A 80V200A

ITEM	OPTIONS (optional items marked in yellow)
Battery indicator	With hourmeter (Bluetooth)
Seat type	Comfortable + safety belt switch GRAMMER-MSG65 Suspension + safety belt switch KL01 with armrest
Attachments	No External sideshifter Fork positioner with sideshift
Traction pin	Yes and not customized
Electrostatic chain	Yes and not customized
Front lamp	LED
Rear lamp	LED
Warning lamp	Rotating warning light
Steering lamp	Yes and not customized
Blue lamp	No Rear Front and rear
Area warning lamp	One in front Two on sides and one in front
Rearview mirror	One in front Two on sides Two on sides and one in front
Buzzer	Buzzer
OPS system	Yes and not customized
USB interface	USB TYPE A/C
Telematics	Yes and not customized
Cabin	No Basic half cabin Upgrade half cabin Full cabin
Overhead guard	With tempered glass
Clamp interlock	No Yes and not customized
Turn signal light	Yes
AS/NZS function package	No Yes and not customized
Turn speed control	No Yes and not customized
Operator identification device	No Card reader PIN-Code Fingerprint lock
Lifting electronic limit	No Yes and not customized
Hydraulic system operating mode	Mechanical lever Joystick Fingertip
Rear armrest horn	Yes and not customized