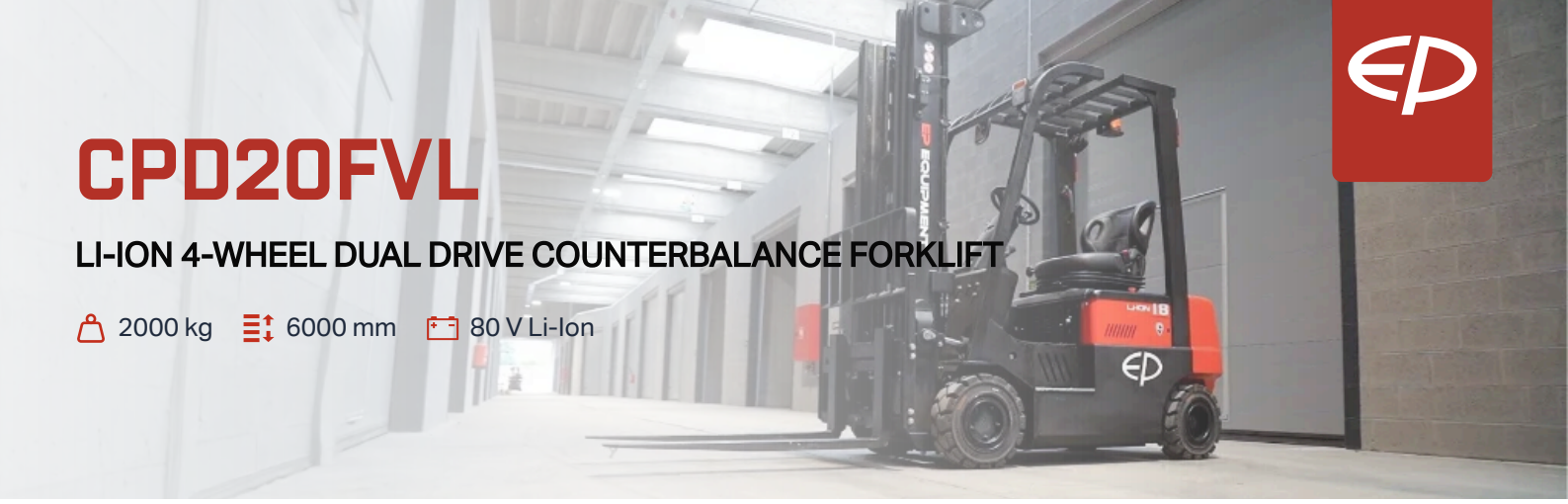

CPD20FVL

LI-ION 4-WHEEL DUAL DRIVE COUNTERBALANCE FORKLIFT

2000 kg | 6000 mm | 80 V Li-Ion

This electric forklift truck is ideal for a broad range of transport and storage tasks across industries, especially for narrow aisles in manufacturing facilities and warehouses.
The fast acceleration and powerful dual drive also allows for long-distance transportation.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			CPD20FVL
Battery voltage		V	80
Rated capacity	Q	kg	2000
Load centre distance	c	mm	500
Service weight		kg	3270
Height, mast lowered	h_1	mm	2075
Height, mast extended	h_4	mm	4055
Overall length	l_1	mm	3070
Overall width	b_1/b_2	mm	1170
Length to face of forks	l_2	mm	2150
Fork dimensions	s/e/l	mm	40×122×1070
Turning radius	Wa	mm	1730
Drive			Electric
Operator type			Seated
Load capacity，load with mast lift	Q_1	kg	180

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Features

Dual drive motors for powerful performance

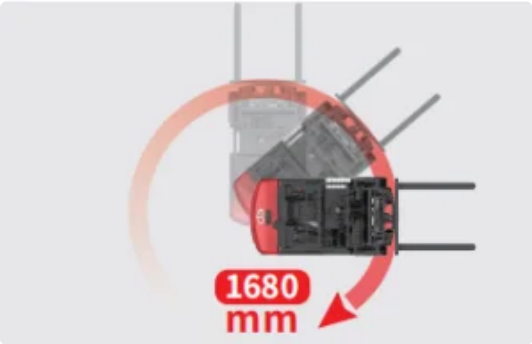
The FVL series is equipped with 80V 2*5.0kW dual drive motors and able to accelerate super fast, which contributes strong drive power to facilitate a productive operational environment.

Lithium technology with integrated charger

The FVL series is fully designed around the advantages of lithium technology, equipped with 80V/205Ah Li-ion battery and 80V/35A integrated charger as standard. It fits in multiple-shift operation thanks to opportunity charging and the absolutely maintenance free battery.

Compact size for maneuvering with ease

The compact FVL series features a small turning radius of 1680mm allows for great maneuverability in confined space.



Enhanced mast with optimal visibility and stability

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

VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			CPD20FVL
1.3	Drive			Electric
1.4	Operator type			Seated
1.5	Rated capacity	Q	kg	2000
1.5.1	Load capacity，load with mast lift	Q_1	kg	180
1.5.2	Load capacity, load with support arm lift	Q_2	kg	25
1.6	Load centre distance	c	mm	500

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	SPECIFICATION	REF	UNIT	VALUE
1.8	Load distance, centre of drive axle to fork	x	mm	420
1.9	Wheelbase	y	mm	1330
2.1	Service weight		kg	3270
2.2	Axle loading, laden front/rear		kg	4646/624
2.3	Axle loading, unladen front/rear		kg	1260/2010
3.1	Tyres			Solidrubber
3.2	Tyre size, front		mm	200/50-10
3.3	Tyre size, rear		mm	16X6-8
3.5	Wheels, number front/rear (x=drive wheels)			2X/2
3.6	Tread width, front	b_{10}	mm	969
3.7	Tread width, rear	b_{11}	mm	890
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	5/5
4.2	Height, mast lowered	h_1	mm	2075
4.3	Free lift	h_2	mm	100
4.5	Height, mast extended	h_4	mm	4055
4.7	Height of overhead guard (cabin)	h6	mm	2078
4.8	Seat height relating to SIP/stand height	h7	mm	1050
4.12	Coupling height	h10	mm	600
4.19	Overall length	l_1	mm	3070
4.20	Length to face of forks	l_2	mm	2150
4.21	Overall width	b_1/b_2	mm	1170
4.22	Fork dimensions	s/e/l	mm	40×122×1070
4.23	Fork carriage ISO 2328, class/type A, B			2A
4.24	Fork carriage width	b_3	mm	1040
4.31	Ground clearance, laden, below mast	m_1	mm	89
4.32	Ground clearance, centre of wheelbase	m_2	mm	92
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	3472
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	3598
4.35	Turning radius	Wa	mm	1730
5.1	Travel speed, laden/unladen		km/h	13/14
5.2	Lift 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
5.10	Service brake			Hydraulic

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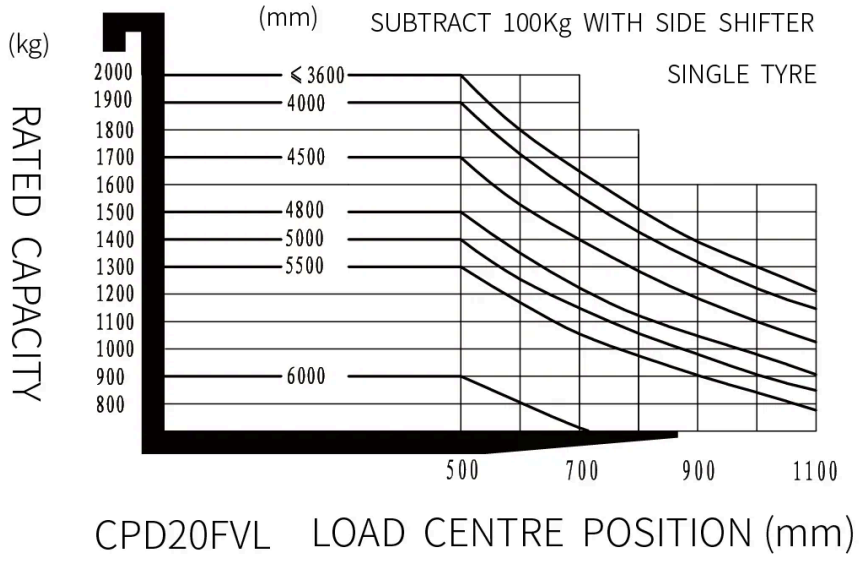
	SPECIFICATION	REF	UNIT	VALUE
5.11	Parking brake			Mechanical
6.1	Drive motor rating S2 60 min		kW	5.0X2
6.2	Lift motor rating at S3 15%		kW	11
6.4.1	Battery voltage		V	80
6.4.2	Battery nominal capacity K5		Ah	205
6.4.3	Battery type			Li-Ion
6.5	Battery weight		kg	185
8.1	Type of drive unit			AC
10.5	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

RATED CAPACITIES AND LOAD CENTERES GRAPH



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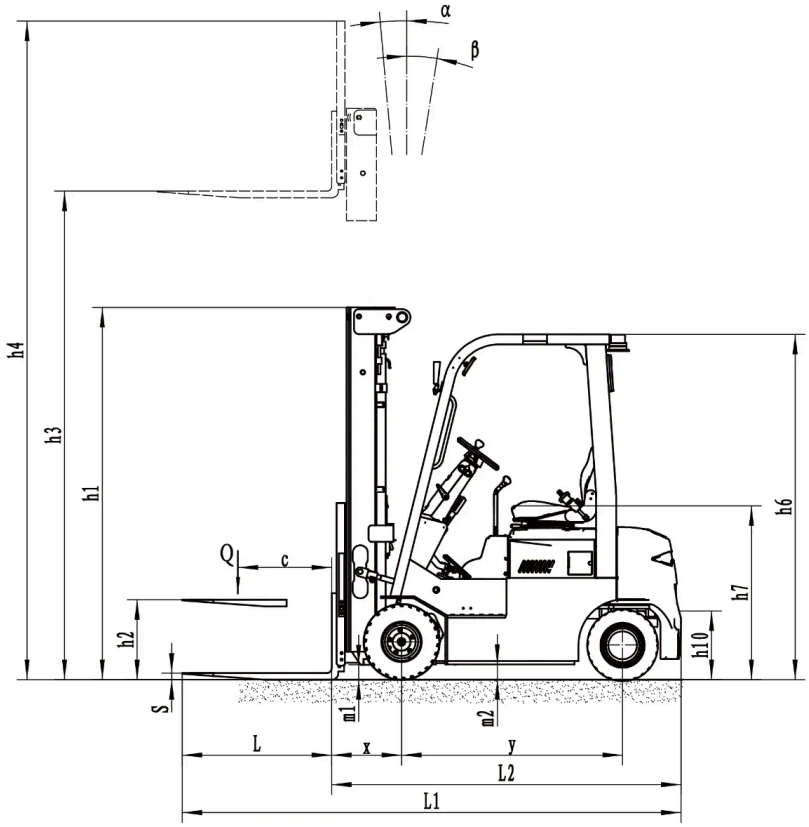

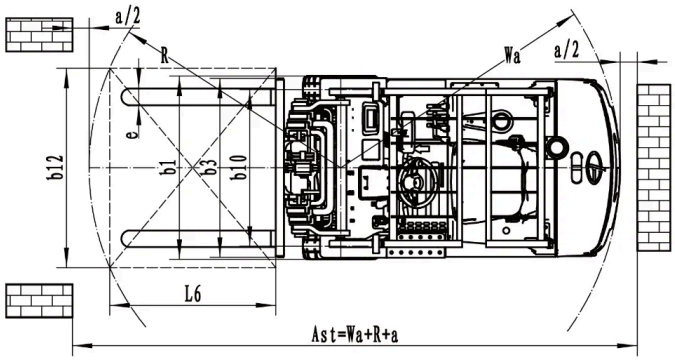

Mast Options

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
2-Free Mast	3000	2075	3740	4055	1365	1050

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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-Free Mast	3300	2225	4040	4355	1515	1200
2-Free Mast	3600	2375	4340	4655	1665	1350
2-Free Mast	4000	2625	4840	5155	1915	1600
3-Free Mast	4000	1940	4740	5055	1230	915
3-Free Mast	4350	2090	5090	5405	1380	1065
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*1200 | 122*40*1220 | 122*40*1370 | 122*40*1500 | 122*40*1670 | 122*40*1820
Leg width	1040mm | Yes and can be customized
Fork carriage width option	1067mm（42in） | 1220mm（48in） | 1520mm（60in） | Yes and can be customized
Drive wheel material	Solid | Non-marking solid
Front wheel material	Solid | Non-marking solid
Rear wheel material	Solid | Non-marking solid
Battery capacity	205Ah | 150Ah | 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 indicator	with hourmeter
Seat type	Regular | Premium | Suspension | Suspension+seatbelt logic switch
Attachments	No | Built-in sideshifter | External shifter | Fork positioner
Traction pin	Yes
Electrostatic chain	Yes

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ITEM	OPTIONS (optional items marked in yellow)
Front lamp	LED
Rear lamp	No | LED
Warning lamp	Yes
Blue lamp	No | 2 front | 1 rear | 2 front+1 rear
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
Cabin	No | Basic semi-enclosed cabin | Upgrade semi-enclosed cabin | Full cabin
Anti-static chain	Yes
Turn signal light	Yes
Wiper water unit	No | Yes, only with cabin and not customized

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