3 Wheel Electric Forklift









Model:

CPD20SA-16/18/20 AC



Conforms to EN ISO3691-1 EN1175 EN16307-1 Based on Directive 2006/42/EC

Dual Front Driving Wheel



Wet disc brake



Muti-function display



Sideway battery box



Advantages:

SAFETY AND STABLITY

- 1. Germany imported driving axle.
- 2. Multifunctional display with using time , fault code, battery status, forklift running information.
- 3. AC motor with regenerative braking.
- 4. Three running modes according to different needs: low speed, moderate speed and high speed.
- 5. Wet disk brake can make the forklift break stably, ensures high durability and safety.
- Very small turning radius is only 1552mm and minimum right angle stacking aisle is only 3220mm.

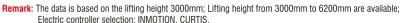
ERGONOMICS

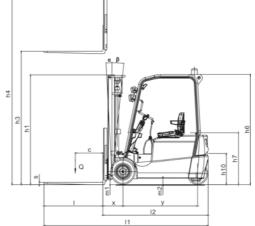
- With two step pedal easy to get into the driving
- 2. Adjustable steering wheel column, the driver can adjust the position according to his need.
- 3. Integrated light switch and steering wheel .
- 4. ABS instrument board in the driving-box is durable and beautiful.
- 5. The design of the controlling lever position fit the Ergonomic principles which can reduce the driver's fatigue
- 6. clearly and wide view mast with good visibility.
- 7. Emergency power cut off plug for emergency stop.

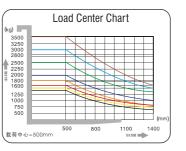
SERVICE ABILITY

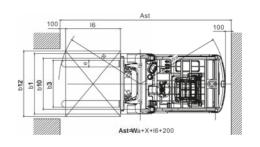
- 1. Easy maintained controller and steering potentiometer.
- 2. maintenance free wet disk brake.
- Lifting and driving AC motors without carbon brush free to maintain, which greatly reduce maintenance cost. And they all adopt external encoder, so the maintenance and service is more convenient.
- 4. BDI with overall discharge protecting system.
- Braking oil cup is installed on the instrument panel, so as to check and add braking oil conveniently.
- 6. Side way battery box is easy to change battery . it is safety and convenient.

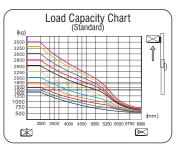
1.3 Drive electric (batterty type, mains) deset, petrol. fuel gas Electric Electric	Features	1.2	Manufacturer's type designition		CPD20SA-16	CPD20SA-18	CPD20SA-20
1.5 Rated capacity/trade load 0 (kg) 1600 1800 2000 500		1.3	Drive: electric (battery type, mains,), diesel, petrol, fuel gas		Electric	Electric	Electric
1.8 Load distance, centre of drive axide to fork x (mm) 366 366 366 366 366 19 Wheelbase y (mm) 1562 1362 1465 366		1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
1.8 Load distance, centre of drive axide to fork x (mm) 366 366 366 366 366 19 Wheelbase y (mm) 1562 1362 1465 366		1.5	Rated capacity/rated load	Q (kg)	1600	1800	2000
19 Wheelbase		1.6	Load centre distance	c (mm)	500	500	500
2.1 Service weight Kg 3200 3350 3500	Ī	1.8	Load distance, centre of drive axle to fork	x (mm)	366	366	366
Page 1985 2.2	Ī	1.9	Wheelbase	y (mm)	1362	1362	1465
Section Sect		2.1	Service weight	kg	3200	3350	3500
Section Sect	hgie	2.2	Axle loading, laden front/rear	kg	3955/865	4166/914	4469/981
3.2 Tyre size, front	š	2.3	Axle loading, unladen front/rear	kg	1425/1795	1455/1826	
ST Tread, rear	Tyres/Chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Solid rubber	Solid rubber	Solid rubber
ST Tread, rear		3.2	Tyre size, front		18x7-8	200/50-10	200/50-10
ST Tread, rear		3.3	Tyre size, rear		15x4 ½-8	15x4 ½-8	140/55-9
ST Tread, rear		3.5	Wheels, number front/rear (\times = driven wheels)		2x+2	2x+2	2x+2
ST Tread, rear		3.6	Tread, front	b10 (mm)	920	937	937
Region Part Region Part Region Regio		3.7	Tread, rear		165	165	
Region Part Region Part Region Regio		4.1	Tilt of mast/fork carriage forward/backward	a/b (°)	3/6	3/6	3/6
Record Company Compa		4.2					
Record Company Compa		4.3	Free lift	h2 (mm)	Option	Option	Option
Height, mast extended		4.4	Lift		3000-6200	3000-6200	3000-6200
4.8 Seat height relating to SIP/stand height h7 (mm) 950 950 950 950 950 950 4.12 Coupling height h10 (mm) 560 560 560 560 560 3100 3100 3100 3100 4.19 Overall length 11 (mm) 2880 3000 3100 3100 4.20 Length to face of forks 12 (mm) 1930 1930 2030 4.21 Overall width b1/b2 (mm) 1077 1145 1145 1145 4.22 Fork dimensions DIN ISO 2331 S/e/I (mm) 40/100/950 40/120/1070 40/120/1070 42/24 Fork-carriage width b3 (mm) 968 968 968 968 431 Ground clearance, laden, below mast m1 (mm) 90 90 90 90 90 4.32 Ground clearance, centre of wheelbase m2 (mm) 100 100 100 100 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast (mm) 3120 3120 3220 3320 3300 4.35 Turning radius Wa (mm) 1552 1552 1652 1652 4.35 Turning radius Wa (mm) 1552 1552 16		4.5	Height, mast extended	h4 (mm)	4050-7250	4050-7250	
4.8 Seat height relating to SIP/stand height h7 (mm) 950 950 950 950 950 950 4.12 Coupling height h10 (mm) 560 560 560 560 560 3100 3100 3100 3100 4.19 Overall length 11 (mm) 2880 3000 3100 3100 4.20 Length to face of forks 12 (mm) 1930 1930 2030 4.21 Overall width b1/b2 (mm) 1077 1145 1145 1145 4.22 Fork dimensions DIN ISO 2331 S/e/I (mm) 40/100/950 40/120/1070 40/120/1070 42/24 Fork-carriage width b3 (mm) 968 968 968 968 431 Ground clearance, laden, below mast m1 (mm) 90 90 90 90 90 4.32 Ground clearance, centre of wheelbase m2 (mm) 100 100 100 100 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast (mm) 3120 3120 3220 3320 3300 4.35 Turning radius Wa (mm) 1552 1552 1652 1652 4.35 Turning radius Wa (mm) 1552 1552 16		4.7	Height of overhead guard (cabin)	h6 (mm)	2013	2013	
4.19 Overall length I1 (mm) 2880 3000 3100 4.20 Length to face of forks 12 (mm) 1930 1930 2030 4.21 Overall width b1/b2 (mm) 1077 1145 1145 4.22 Fork dimensions DIN ISO 2331 s / e / I (mm) 40/100/950 40/120/1070 40/120/1070 4.24 Fork-carriage width b3 (mm) 968 968 968 968 4.31 Ground clearance, laden, below mast m1 (mm) 90 90 90 4.32 Ground clearance, centre of wheelbase m2 (mm) 100 100 100 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast (mm) 3120 3120 3200 4.35 Turning radius Wa (mm) 1552 1552 1552 4.36 Tiravel speed, laden/unladen km/h 14/14 14/14 13/13 5.2 Lift speed, laden/unladen m/s 0.29/0.45 0.27/0.42 0.25/0.42 5.3 Lowering speed, laden/unladen m/s 0.45/0.43 0.45/0.43 0.45/0.43 5.3 Lowering speed, laden/unladen m/s 0.45/0.43 0.45/0.43 0.45/0.43 5.3 Lowering speed, laden/unladen m/s 0.45/0.43 0.45/0.43 0.45/0.43 5.10 Service brake Hydraulic Hydraulic Hydraulic 6.1 Drive motor rating \$2.60 min kW 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 6.4 Battery voltage/nominal capacity K5 (V)/(Ah) or kWh 48/420(490) 48/490(560) 48/560(640) 6.5 Battery weight kg 720(760) 760(800) 800(845) 6.4tditional Data		4.8	Seat height relating to SIP/stand height	h7 (mm)	950	950	
4.22 Fork dimensions DIN ISO 2331 s / e / I (mm) 40/100/950 40/120/1070 40/120/1070 4.24 Fork-carriage width b3 (mm) 968 968 968 4.31 Ground clearance, laden, below mast m1 (mm) 90 90 90 4.32 Ground clearance, centre of wheelbase m2 (mm) 100 100 100 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast (mm) 3120 3120 3200 4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast (mm) 3220 3220 3300 4.35 Turning radius Wa (mm) 1552 1552 1652 5.1 Travel speed, laden/unladen km/h 14/14 14/14 13/13 5.2 Lift speed, laden/unladen m/s 0.29/0.45 0.27/0.42 0.25/0.42 5.3 Lowering speed, laden/unladen m/s 0.45/0.43 0.45/0.43 0.45/0.43 5.8 Max Gradeability, laden/unladen % 15/20 15/20 5.10 Service brake Hydraulic Hydraulic Hydraulic 6.1 Drive motor rating S2 60 min kW 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 6.2 Lift motor rating S3 15% kW 10(AC) 10(AC) 6.4 Battery voltage/nominal capacity K5 (V)/(Ah) or kWh 48/420(490) 48/490(560) 48/560(640) 6.5 Battery weight kg 720(760) 760(800) 800(845) Additional Data		4.12	Coupling height	h10 (mm)	560	560	560
4.22 Fork dimensions DIN ISO 2331 s / e / I (mm) 40/100/950 40/120/1070 40/120/1070 4.24 Fork-carriage width b3 (mm) 968 968 968 4.31 Ground clearance, laden, below mast m1 (mm) 90 90 90 4.32 Ground clearance, centre of wheelbase m2 (mm) 100 100 100 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast (mm) 3120 3120 3200 4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast (mm) 3220 3220 3300 4.35 Turning radius Wa (mm) 1552 1552 1652 5.1 Travel speed, laden/unladen km/h 14/14 14/14 13/13 5.2 Lift speed, laden/unladen m/s 0.29/0.45 0.27/0.42 0.25/0.42 5.3 Lowering speed, laden/unladen m/s 0.45/0.43 0.45/0.43 0.45/0.43 5.8 Max Gradeability, laden/unladen % 15/20 15/20 5.10 Service brake Hydraulic Hydraulic Hydraulic 6.1 Drive motor rating S2 60 min kW 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 6.2 Lift motor rating S3 15% kW 10(AC) 10(AC) 6.4 Battery voltage/nominal capacity K5 (V)/(Ah) or kWh 48/420(490) 48/490(560) 48/560(640) 6.5 Battery weight kg 720(760) 760(800) 800(845) Additional Data	Dimensions	4.19	Overall length	I1 (mm)	2880	3000	3100
4.22 Fork dimensions DIN ISO 2331 s / e / I (mm) 40/100/950 40/120/1070 40/120/1070 4.24 Fork-carriage width b3 (mm) 968 968 968 4.31 Ground clearance, laden, below mast m1 (mm) 90 90 90 4.32 Ground clearance, centre of wheelbase m2 (mm) 100 100 100 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast (mm) 3120 3120 3200 4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast (mm) 3220 3220 3300 4.35 Turning radius Wa (mm) 1552 1552 1652 5.1 Travel speed, laden/unladen km/h 14/14 14/14 13/13 5.2 Lift speed, laden/unladen m/s 0.29/0.45 0.27/0.42 0.25/0.42 5.3 Lowering speed, laden/unladen m/s 0.45/0.43 0.45/0.43 0.45/0.43 5.8 Max Gradeability, laden/unladen % 15/20 15/20 5.10 Service brake Hydraulic Hydraulic Hydraulic 6.1 Drive motor rating S2 60 min kW 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 6.2 Lift motor rating S3 15% kW 10(AC) 10(AC) 6.4 Battery voltage/nominal capacity K5 (V)/(Ah) or kWh 48/420(490) 48/490(560) 48/560(640) 6.5 Battery weight kg 720(760) 760(800) 800(845) Additional Data		4.20	Length to face of forks	12 (mm)	1930	1930	2030
4.22 Fork dimensions DIN ISO 2331 s / e / I (mm) 40/100/950 40/120/1070 40/120/1070 4.24 Fork-carriage width b3 (mm) 968 968 968 4.31 Ground clearance, laden, below mast m1 (mm) 90 90 90 4.32 Ground clearance, centre of wheelbase m2 (mm) 100 100 100 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast (mm) 3120 3120 3200 4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast (mm) 3220 3220 3300 4.35 Turning radius Wa (mm) 1552 1552 1652 5.1 Travel speed, laden/unladen km/h 14/14 14/14 13/13 5.2 Lift speed, laden/unladen m/s 0.29/0.45 0.27/0.42 0.25/0.42 5.3 Lowering speed, laden/unladen m/s 0.45/0.43 0.45/0.43 0.45/0.43 5.8 Max Gradeability, laden/unladen % 15/20 15/20 5.10 Service brake Hydraulic Hydraulic Hydraulic 6.1 Drive motor rating S2 60 min kW 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 6.2 Lift motor rating S3 15% kW 10(AC) 10(AC) 6.4 Battery voltage/nominal capacity K5 (V)/(Ah) or kWh 48/420(490) 48/490(560) 48/560(640) 6.5 Battery weight kg 720(760) 760(800) 800(845) Additional Data		4.21	Overall width	b1/b2 (mm)	1077	1145	1145
4.24 Fork-carriage width			Fork dimensions DIN ISO 2331	s/e/I(mm)	40/100/950	40/120/1070	40/120/1070
4.32 Ground clearance, centre of wheelbase m2 (mm) 100 1		4.24	Fork-carriage width	b3 (mm)	968		968
4.34.1 Aisle width for pallets 1000 × 1200 crossways		4.31	Ground clearance, laden, below mast	m1 (mm)	90	90	90
A34.2 Aisle width for pallets 800 × 1200 lengthways		4.32	Ground clearance, centre of wheelbase	m2 (mm)	100	100	100
A34.2 Aisle width for pallets 800 × 1200 lengthways		4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	3120	3120	3200
4.35 Turning radius Wa (mm) 1552 1552 1652				· , ,			
Solutional Data Solutional		4.35	Turning radius	Wa (mm)	1552	1552	1652
6.1 Drive motor rating \$2.60 min kW 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 6.2 Lift motor rating at \$3.15% kW 10(AC) 10(AC) 10(AC) 10(AC) 6.4 Battery voltage/nominal capacity K5 (V)/(Ah) or kWh 48/420(490) 48/490(560) 48/560(640) 6.5 Battery weight kg 720(760) 760(800) 800(845) 6.5 Battery weight kg 72.07(760) 7.5 7.5 7.5 7.5	Performance Data	5.1			14/14	14/14	13/13
6.1 Drive motor rating \$2.60 min kW 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 2x4.75(AC) 6.2 Lift motor rating at \$3.15% kW 10(AC) 10(AC) 10(AC) 10(AC) 6.4 Battery voltage/nominal capacity K5 (V)/(Ah) or kWh 48/420(490) 48/490(560) 48/560(640) 6.5 Battery weight kg 720(760) 760(800) 800(845) 6.5 Battery weight kg 72.07(760) 7.5 7.5 7.5 7.5					· · · · · · · · · · · · · · · · · · ·		
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6.2 Lift motor rating at S3 15% kW 10(AC) 10(AC) 10(AC) 6.4 Battery voltage/nominal capacity K5 (V)/(Ah) or kWh 48/420(490) 48/490(560) 48/560(640) 6.5 Battery weight kg 720(760) 760(800) 800(845) Additional Data 10.2 Oil volume for attachments l/min 7.5 7.5 7.5		6.1	Drive motor rating S2 60 min	kW			•
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