

HELI

AC ELECTRIC THREE-WHEEL FORKLIFT TRUCKS

G Series
1-2ton
Ac Power

CPD10S-CQ
CPD10S-FQ
CPD15S-CQ
CPD15S-FQ
CPD18S-FQ
CPD18S-CQ
CPD20S-CQ



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THE FEATURES OF THE CPD10-20S

- Dual AC Drive motor.
- Wet-disc braking system.
- AC traction controller.
- Standard CAN BUS.
- Interactive communication multifunction LED meter.
- Self-braking on ramp.
- New type of lower speed and bigger torque DC series lifting motor.
- Excellent MOSFET lifting speed controller.
- New type of low noise pump which is adopted the splitting-teeth technology.
- New technology of dynamic signal load sensing in hydraulic system.
- New type of integrated steering unit with the load sensing.
- Emergence power shut-down.
- Lifting speed being controlled steplessly.
- Electric controller self-protecting.
- Preventing abnormal operating.

● 2-MOTOR FRONT WHEEL DRIVE

Integrated drive unit is consisted of two independent AC drive motors of 4.5kw and compact drive axle in construction, having optimum acceleration and climbing capabilities.

● POWER-STEERING SYSTEM

With power steering assembly with twin wheels, the driver can easily operate turning. With electronic differential, the travel speed changes with the steering angle automatically so as to achieve the turning of truck at original place.

● HIGH EFFICIENCY

CPD10-20S series is adopted an excellent performance DC series lifting motor in design, which increases the lifting speed of no load, enhances productivity of the truck. This series yet is adopted advanced technology of dynamic signal load sensing in hydraulic system, which makes the truck hydraulic system is more efficient and more economical.

● LOW NOISE

CPD10-20S series is adopted a new type of integrated steering unit with the load sensing, eliminate the steering motor and steering pump, achieved hydraulic system driven by only single pump. This series is adopted the excellent performance DC motor and the low noise pump, it remarkably decrease noise of the driving and action of low speed lift, and the truck is more friendly to environment.

● USER-FRIENDLY LCD INSTRUMENTS

All the running states of the truck and trouble shooting message can be totally expressed in the form of relevant icons and displayed in the big-size LCD. It lets you get to know the relevant message more easily and dynamically.

● WET-DISC BRAKING SYSTEM

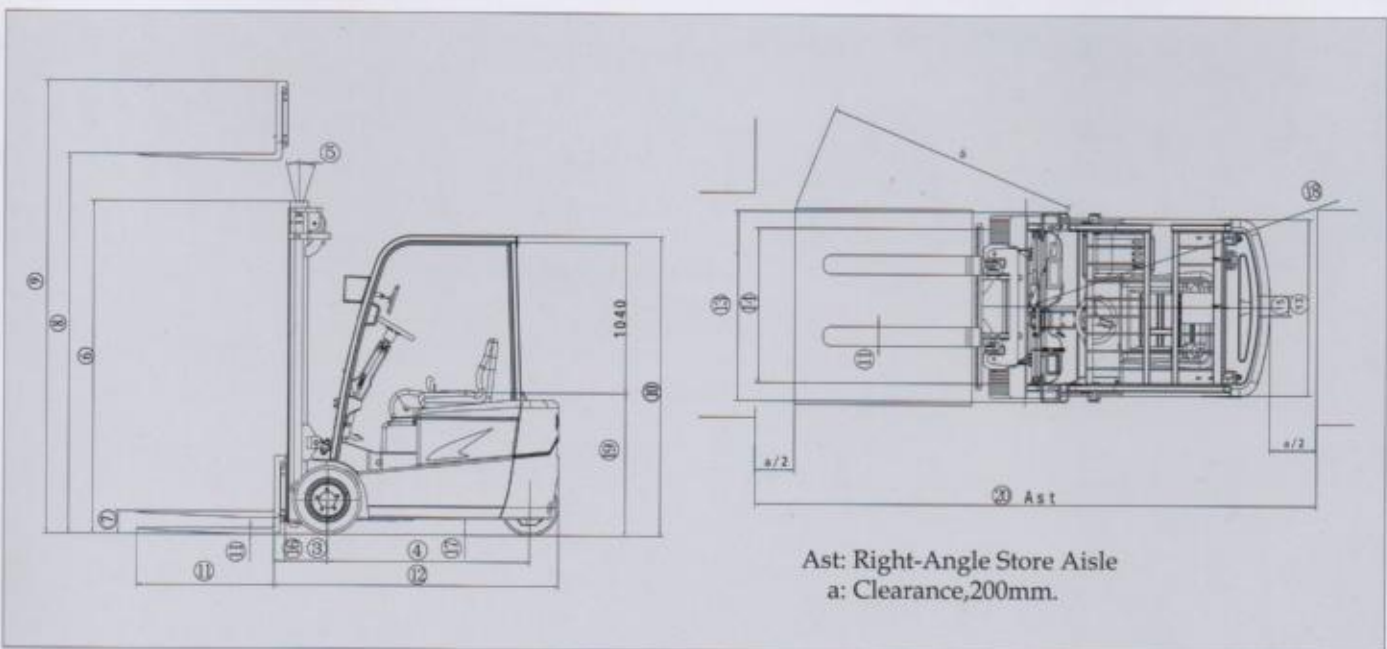
Operating brake:Foot operated oil-bathed multiple disc brake. Parking brake: hand operated cable brake and acted upon the oil-bathed multiple disc brake. Oil-bathed Multiple Disc Brake is helpful to prolong it's life and reduce the maintenance expense for it.

● BATTERY COMPARTMENT SIZE:

Model	Compartment Size	Battery Specifications	
	WD×LG×HT	Size	Standard
CPD10-15S-CQ	845×433×789	835×418×784	DIN 43531A
CPD10S-FQ	845×433×660	830×414×627	DIN 43531A
CPD15S-FQ	845×533×660	830×522×627	DIN 43531A
CPD18S-FQ	1040×460×660	1030×439×627	DIN 43531B
CPD18-20S-CQ	1040×540×660	1030×529×627	DIN 43531B

STANDARD DIMENSIONS (FRONT SINGLE TIRE)

①	Manufacturer	HELI						
②	Model	CPD10S-CQ	CPD10S-FQ	CPD15S-CQ	CPD15S-FQ	CPD18S-FQ	CPD18S-CQ	CPD20S-CQ
③	Load Distance (mm)	339	339	343	343	356	356	356
④	Wheelbase (mm)	1250	1250	1250	1350	1350	1455	1455
⑤	Mast Tilt Angle, forwards/backwards (deg)	5/7	5/7	5/7	5/7	5/7	5/7	5/7
⑥	Height with mast lowered (mm)	2220	2220	2220	2220	2220	2220	2220
⑦	Free lift (mm)	125	125	125	125	130	130	130
⑧	Standard lift height (mm)	3300	3300	3300	3300	3300	3300	3300
⑨	Height with mast extended (mm)	4335	4335	4335	4335	4335	4335	4335
⑩	Overhead Guard Height (mm)	2080	1980	2080	1980	1980	1980	1980
⑪	Fork Size (mm)	31×100×770	31×100×770	35×100×920	35×100×920	38×100×920	38×100×920	40×122×920
⑫	Length to fork face (mm)	1784	1784	1788	1888	1896	2016	2016
⑬	Overall Width (mm)	1060/1070	1060/1070	1060/1070	1060/1070	1110/1140	1110/1140	1110/1140
⑭	Tread(front) (mm)	926	926	926	926	925	925	925
⑮	Tread(rear) (mm)	163	163	163	163	163	190	190
⑯	Ground Clearance, at mast, Loaded (mm)	90	90	90	90	90	90	90
⑰	Ground Clearance, at centre of wheelbase, Loaded (mm)	100	100	100	100	100	100	100
⑱	Turning Radius (mm)	1445	1445	1445	1545	1540	1660	1660
⑲	Seat height (mm)	1000	910	1000	910	910	910	910
⑳	Right Angle Stacking Aisle width(Pellet size: 1000x1000mm, Clearance:200mm) (mm)	3075	3075	3080	3180	3185	3305	3305
㉑	Right Angle Stacking Aisle width(Pellet size: 1200x1200mm, Clearance:200mm) (mm)	3300	3300	3300	3400	3410	3530	3530



WIDE VIEW MAST

Mast model	Max.lift height mm	Capacity at 500mm;Load center(kg)							Height with mast lowered mm			Tilting Angle (°)
		CPD10S-CQ	CPD10S-FQ	CPD15S-CQ	CPD15S-FQ	CPD18S-FQ	CPD18S-CQ	CPD20S-CQ	1.0-2.0t			
KM200	2000	1000	1000	1500	1500	1750	1750	2000	1580			5/7
KM250	2500	1000	1000	1500	1500	1750	1750	2000	1800			5/7
KM300	3000	1000	1000	1500	1500	1750	1750	2000	2080			5/7
KM330	3300	1000	1000	1500	1500	1750	1750	2000	2220			5/7
KM350	3500	1000	1000	1500	1500	1750	1750	1950	2330			5/7
KM370	3700	1000	1000	1450	1450	1700	1750	1900	2430			5/7
KM400	4000	1000	1000	1400	1400	1680	1700	1850	2630			5/7
KM425	4250	1000	1000	1350	1350	1650	1650	1800	2755			5/7
KM450	4500	1000	1000	1300	1300	1600	1600	1750	2880			5/7
KM500	5000	900	900	1200	1200	1500	1500	1650	3130			5/7
KM550	5500	750	750	1000	1000	1300	1300	1400	3430			3/5
KM600	6000	500	500	700	700	950	950	1100	3680			3/5

WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max.lift height mm	Capacity at 500mm;Load center (kg)							Height with mast lowered Free lift (with backrest)(mm)			Tilting Angle (°)
		CPD10S-CQ	CPD10S-FQ	CPD15S-CQ	CPD15S-FQ	CPD18S-FQ	CPD18S-CQ	CPD20S-CQ	1.0-2.0t	1.0-2.0t	1.0-2.0t	
KZM200	2000	1000	1000	1500	1500	1750	1750	2000	1550	940	460	5/7
KZM250	2500	1000	1000	1500	1500	1750	1750	2000	1800	1140	670	5/7
KZM300	3000	1000	1000	1500	1500	1750	1750	2000	2050	1390	920	5/7
KZM330	3300	1000	1000	1500	1500	1750	1750	2000	2200	1540	1070	5/7
KZM350	3500	1000	1000	1450	1450	1700	1750	1950	2300	1640	1170	5/7
KZM375	3750	1000	1000	1400	1400	1680	1750	1900	2425	1764	1294	5/7
KZM400	4000	1000	1000	1350	1350	1650	1700	1850	2600	1940	1470	3/5
KZM425	4250	1000	1000	1300	1300	1630	1650	1800	2720	2066	1596	3/5
KZM450	4500	1000	1000	1300	1300	1600	1600	1750	2850	2190	1720	3/5
KZM500	5000	900	900	1200	1200	14500	1500	1650	3100	2440	1970	3/5
KZM550	5500	750	750	1000	1000	1200	1250	1400	3400	2740	2270	3/5
KZM600	6000	500	500	650	650	850	900	1000	3650	2990	2520	3/5

WIDE VIEW FULL FREE 3-STAGE MAST

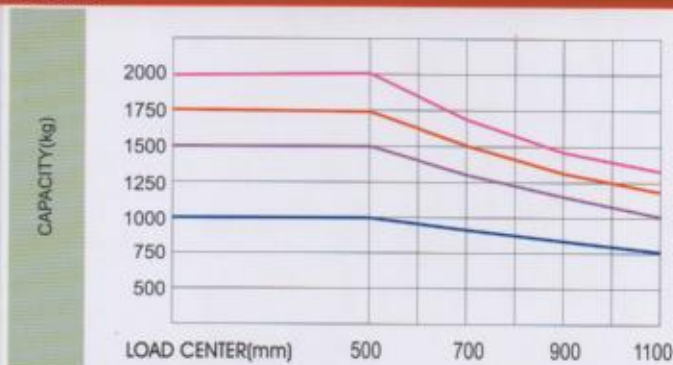
Mast model	Max.lift height mm	Capacity at 500mm;Load center (kg)							Height with mast lowered free lift (with backrest)(mm)			Tilting Angle (°)
		CPD10S-CQ	CPD10S-FQ	CPD15S-CQ	CPD15SFQ	CPD18S-FQ	CPD18S-CQ	CPD20S-CQ	1.0-2.0t	1.0-2.0t	1.0-2.0t	
KZSM360	3600	1000	1000	1400	1400	1700	1750	1900	1770	1184	720	3/5
KZSM400	4000	1000	1000	1300	1300	1650	1700	1850	1905	1316	855	3/5
KZSM435	4300	1000	1000	1280	1280	1600	1650	1800	2020	1434	970	3/5
KZSM450	4500	1000	1000	1250	1250	1550	1600	1750	2070	1484	1020	3/5
KZSM470	4700	1000	1000	1250	1250	1500	1600	1700	2140	1550	1090	3/5
KZSM480	4800	1000	1000	1200	1200	1450	1550	1650	2170	1594	1120	3/5
KZSM500	5000	900	900	1100	1100	1400	1500	1600	2270	1684	1220	3/5
KZSM540	5400	750	750	950	950	1200	1200	1350	2405	1816	1355	3/5
KZSM600	6000	500	500	600	600	800	850	950	2620	2032	1570	3/5

SPECIFICATION

Manufacturer	HELI							
Model		CPD10S-CQ	CPD10S-FQ	CPD15S-CQ	CPD15S-FQ	CPD18S-FQ	CPD18S-CQ	CPD20S-CQ
Load Capacity	ton	1.0	1.0	1.5	1.5	1.75	1.75	2.0
Load Center	mm	500	500	500	500	500	500	500
Power Type		Battery	Battery	Battery	Battery	Battery	Battery	Battery
Operator Type		Seated	Seated	Seated	Seated	Seated	Seated	Seated
Travel speed,with/without load	km/h	14.5/15.5	14.5/15.5	14.2/15.5	14.2/15.5	14/15.3	14/15.2	14/15
lifting speed,with/without load	mm/s	300/425	300/425	290/425	290/425	310/520	310/520	290/500
Gradient performance with load	%	15	15	15	15	15	15	15
Max.draw bar pull with load	N	11550	11550	11920	11920	15420	15420	17390
Operating brakes		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Parking brakes		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Tyre Type		superelastic	superelastic	superelastic	superelastic	superelastic	superelastic	superelastic
Number of Wheels(x=driven), front/rear		2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2
Tyre,size,front		18x7-8	18x7-8	18x7-8	18x7-8	200/50-10	200/50-10	200/50-10
Tyre,size,rear		15x4.5-8	15x4.5-8	15x4.5-8	15x4.5-8	15x4.5-8	16x6-8	16x6-8
Drive motor	kW	2×4.5	2×4.5	2×4.5	2×4.5	2×4.5	2×4.5	2×4.5
Pump motor	kW	7.5	7.5	7.5	7.5	8.6	8.6	10.5
Battery voltage/rated capacity(5h)	V/Ah	48/420	48/330	48/420	48/440	48/480	48/600	48/600
Battery weight	kg	739 (700-780)	560 (532-588)	739 (700-780)	708 (673-743)	750(700-800)	940(900-1000)	940(900-1000)
Size of Batterybox(L×W×H)	mm	835×418×784	830×414×627	835×418×784	830×522×627	1030×439×627	1030×529×627	1030×529×627
Type of drive control		Mosfet	Mosfet	Mosfet	Mosfet	Mosfet	Mosfet	Mosfet
Type of pump motor control		Mosfet	Mosfet	Mosfet	Mosfet	Mosfet	Mosfet	Mosfet
Working pressure for attachments	MPa	17.5	17.5	17.5	17.5	20	20	20
Service weight	kg	2900	2820	3160	3080	3340	3420	3540
Axle loading with load,front/rear	kg	3173/727	3103/717	4006/654	4035/545	4525/645	4360/620	4920/700
Axle loading without load,front/rear	kg	1484/1416	1412/1408	1476/1684	1537/1543	1590/1750	1580/1650	1690/1850

CPD10S-CQ CPD15S-CQ CPD18S-CQ CPD20S-CQ
 CPD10S-FQ CPD15S-FQ CPD18S-FQ

Load curve



Notice:
 Vertical axle stands for load capacity while horizontal axle stands for load center. Load center is the distance counted from the front of the fork. The base point of the standard load is the center point of the cubic with the same 1000mm dimension in length, width and height. The load capacity should be down, if mast tilts forward, using non-standard forks or loading goods with extra width. Please notice the different load capacity between different load centers according to load chart.



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STANDARD EQUIPMENT

- ZF Drive unit includes Gearbox, AC-motor and oil-cooled disc brake
- ZAPI /CURTIS MOSFET electronic travel controllers and lifting controller
- DC/DC Converter
- 3300mm STD 2-Stage mast
- Load backrest
- Carriage
- Standard fork
- Tilt cylinder(5 fwd/7 back)
- 2-section Control Valve
- Super-elastic tyre
- Battery
- Head lights
- High-mounted rear combination lights (back up, brake, turn signal)
- Front lights (turn signal & clearance)
- Side view mirror

OPTIONS

- Full free 2-Stage mast
- STD mast with other lifting height
- Full free 3-Stage mast
- Side-shifter(hook-on,integral type)
- Nonstandard forks in length
- Other attachments
- Warning lights
- Battery charger
- Optional battery

* Details of specifications and equipment are based on information available at the time of printing and may change without notice.



ISO9001

HELI

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