



CPCD 200-460 G Series Balance Weight Type Forklift



Anhui Heli Co. Ltd., a core holding subsidiary of the forklift group, was listed in Shanghai Stock Exchange in 1996 and it is registered capital is 616.8 million. It is presently an industrial vehicle research and development, manufacturing and export base in China with large scale, complete product line and industrial chain and strong overall strength.

Position in industry

We have the most completed forklift and parts among the same industry in China; The performance of the truck stays at the leading position among the same industry in China and some products reach to international advanced level. Major economic indicators rank top 1 for consecutive many years among the same industry in China.

Scientific research ability

The technical center of the company was honored as one of the first batch of "enterprise technical center at national level" in 1995 by National Development and Reform Commission together with other three ministers and commissions. We have complete research sectors and rich infrastructure.

Our strength

Key awards

In recent 5 years, New products with our independent research and development win 6 awards for scientific and technological advancement, 2 first prize wards for scientific and technological advancement in Anhui Province and 1 second prize award for scientific and technological advancement in mechanical industry.



HELI around the world

HELI ranked top 10 among the world industrial truck sector in 2006 and top 8 from 2011. HELI has autonomous sales network and sound service system with 24 provincial sales network and more than 400 second level dealers in domestic and in overseas, HELI sets up sales network in more than 80 countries and regions and our products sell to 140 countries and regions over the world among which 60% of our products are sold to Europe and America.

Brand concept

With being world top 5 as the short-term goal, HELI is committed to be a world first-class and over-lasting enterprise.

Centennial HELI is our definition in thought and world top 5 is our quantized goal. HELI people work steadily and keep forging ahead to make our enterprise bigger and stronger. HELI has gone to a fast developing time since the new century. In 2006, HELI ranked world top 10. Now, we make our decision to be world top 5 which is not only a heritage of our glorious history but also our never-ending hard effort.

Heavy machine manufacturing base

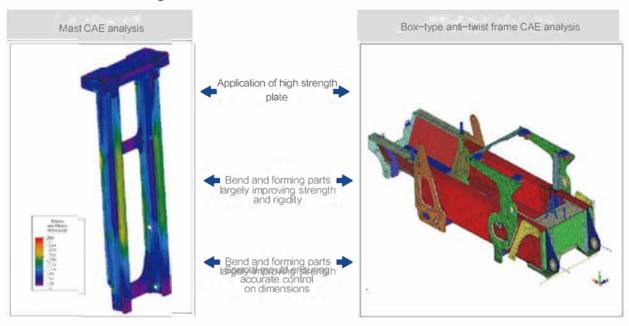
Based on HELI strong scientific research platform and manufacturing ability, HELI research and develop, produce and sale heavy trucks, reach stacker and empty container handler with completed series and various types to provide customers with special material handling solutions.

Heavy truck: 12t–18t、20–25t、28–32t、35t、38–40t、42–46t Reach stacker: standard type reach stacker, heavy type reach stacker

Container handler :2-3 layer, 5-6 layer, 7-8 layer

Enduring and durable

A.1 Durable structure design



A.2 Easy and high efficient daily inspection

► Cab electric tilting system (Tilting cab type forklift standard)

Automatic tilting system facilitates interior maintenance; Hydraulic drives tilting cylinder with electric assistance making cab tilt 60° right ward which makes maintenance easy.

▶ Engine hood with large opening angle





- ► Engine hood with large opening angle or sliding engine hood Open type engine hood provides large maintenance space.
- ► Easy liquid adding and check
 Cooling liquid adding and check, engine oil adding and check and hydraulic oil level check become easier.
- ▶ Easy air cleaner filter replacement



A₃ Improved protection performance

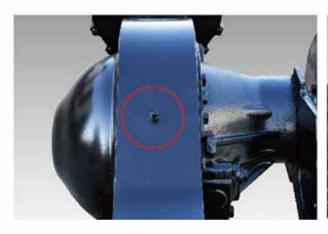
- Oil cylinder protection sleeve (optional)
- Electric tilting button with high dust-proof and water-proof degree
- · Front axle dust proof vent
- · Transmission box dust proof vent



Oil cylinder protection sleeve(optional): it is used to protect cylinder damaged from foreign matters



Electric tilting button with high dust-proof and water-proof degree: protecting degree:IP67



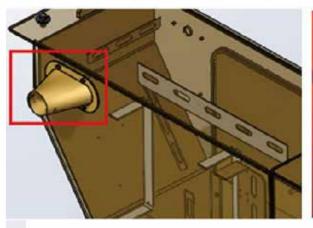
Front axle dust proof vent



Transmission box dust proof vent



- y Dust-proof sleeve for electric cabinet
- y Steel wire winded hoses are used and safety level is improved greatly.
- y Dust-proof waterproof connectors
- y Harness meets German standard





Dust-proof sleeve for electric cabinet

Steel wire winded hoses are used and safety level is improved greatly.







 Harness meets German standard and its temperature resistance ability is largely improved (-40 ℃-105 ℃)

A.4 Improved cooling efficiency

Optimal designed channel HELI special cooling medium Engine original fan



Optimal designed channel Optimal designed radiator and channel make cooling system have small resistance, avoid air flowing back effectively and improve cooling efficiency.



Engine original fan Good matching ability, stable working, large cooling power



▶ High strength aluminum radiator High strength fin type structure will not deform or crack easily. Exterior injection molding treatment---anticorrosion and oxidation resistance



B. **ENERGY-SAVING**

B.1 High efficient matching, forceful power

VOLVO engine, ZF or DANA transmission box are assembled on the truck.







B.2 Hydraulic dynamic load variable control system(35-46t) or constant displacement system (20-32t)

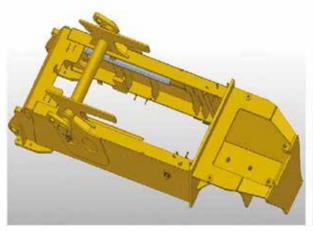
- ▶ It can adjust oil pump displacement automatically according to operator habit and load condition to achieve high precision flow control and energy saving.
 - Constant displacement system has simple structure, mature technology, reliablesystem and low cost.

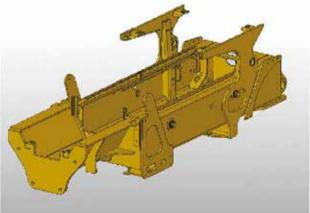
B.3 Light type design

- ▶ Rear counter weight has no air channel and counter weight use ratio is 5% increased and thus truck service weight is reduced.
- Light type design optimizes structure and the truck is lighter and more stable.



Rear counter weight has no air channel and counter weight use ratio is increased and thus truck service weight is reduced.





▶ Light type design Application of high strength material Years of data accumulation and accurate CAE analysis Constant structure optimization



C. COMFORTABLE AND CONVENIENT

C.1 Easy get on-off

- Anti-skid pedal
 Anti-skid aluminous pedal has good anti-skid performance.

 Auxiliary handrail
 Solid and durable
- Large getting on off pedal and handrail
 Open type steps make easy and safe get on-off.





C₂ Smaller turning radius

Compact frame design
 Optimized steering angle

C.3 Superior view



► Superior front view Front glass with large arc is used and front view field angle is 10° increased.



► Superior top view Large glass is used on the top of cab.

► Glass for left and right side window 4 pieces of glass is used on left and right door to ensure 360° view.







Superior rear view
 Large glass is used at the rear end of cab.

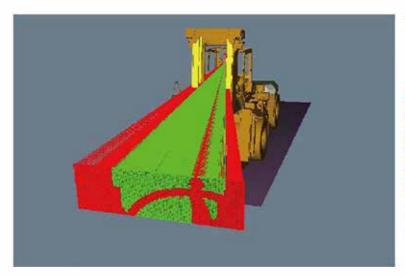


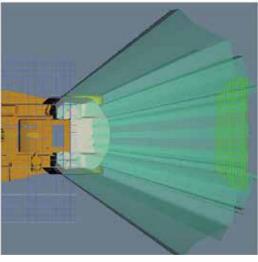
Rear vision system

Truck real time rear view can be displayed when backward.



Front view check Rear view check

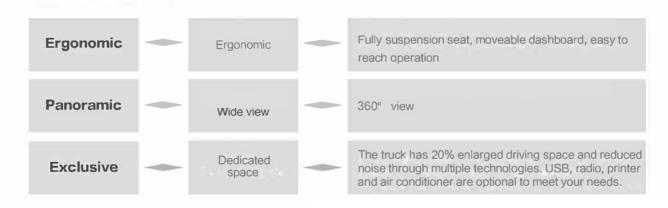






C.4 More comfort driving experience

Special cab with 360° view









Fully suspension seat Adjustable damping shock reducing design not only bears your weight but also provides steady driving experience.

Weighting system(optional) Weight can be measured accurately through checking hydraulic pressure.



Backward radar(optional)

Six probes ensure driving safety.

Monitor is achieved through reasonable distributed 6 points.

Larger monitoring range



► Truck working monitoring and condition display meter

Ergonomic optimized layout makes reading and operation easy.



► Pedal optimized layout

Optimized pedal reduces fatigue during long time working.



► Adjustable steering wheel

Steering wheel can be adjusted according to operator habit and easy and flexible steering largely reduces your work.



► Flexible control knob

Accurate, safe and effective control can be achieved through small operation force.



D. SAFE AND EFFICIENT

D.1 Better reliability

► Smaller front overhang

Retroposition of center of gravity More compact mast structure

▶ Retroposition of center of gravity

Retroposition of power system
Retroposition of cooling sytem
No air channel on the balance weight



D.2 OPS

- ► OPS for the whole truck (optional)
 - Truck power will be cut automatically and the truck can not be operated when operator is away from seat.
- ► OPS system for mast (optional)

The mast is locked and can not be operated when operator is away from seat.







D.3 Wet type drive axle

► Maintenance free

Specially designed structure and brake principle provides anti-dust and anti-water function and saves your maintenance cost.

► Safe and reliable brake

Working requirements such as Long time, high duty, short distance or frequent brake can be satisfied.

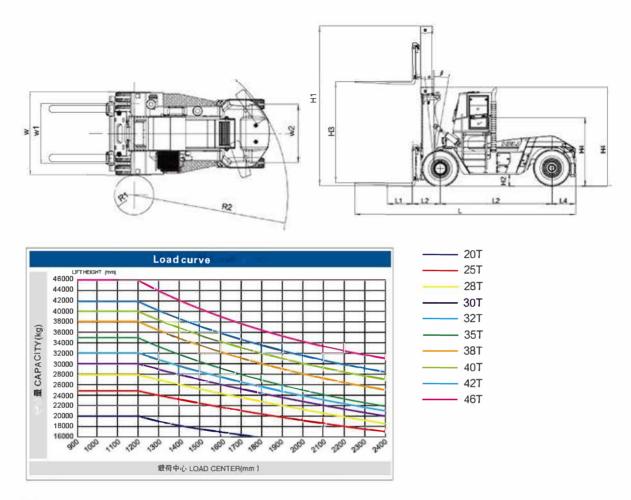


E. Technical parameter

'Technical parameters														
Model	Unit	CPCD200	CPCD200	CPCD250	CPCD250	CPCD280	CPCD300	CPCD320	CPCD350	CPCD380	CPCD400	CPCD420	CPCD460	
Rated load	t	20	20	25	25	28	30	32	35	38	40	42	46	
The mass	kg	33200	33200	36500	36500	40000	42000	43000	46000	51600	53600	56000	58600	
Maximum lifting speed (loaded/unloaded)	mm/s	280/310	280/310	280/310	280/310	280/310	280/310	280/310	240/260	280/340	280/340	240/320	240/320	
Maximum speed (loaded/unloaded)	km/h	23/26	23/26	23/26	23/26	22/25	22/25	22/25	22/25	23/26	23/26	23/26	23/26	
Gradeability (loaded)	%	27	27	27	27	27	27	27	27	36.6	35	30	30	
Noise in the cab	dB	78	79	78	79	78	78	78	79	76	76	76	76	

Size parameters							1111						
Model	Unit	CPCD200	CPCD200	CPCD250	CPCD250	CPCD280	CPCD300	CPCD320	CPCD350	CPCD380	CPCD400	CPCD420	CPCD460
Overalllength		8742	8742	8742	8742	9200	9200	9200	9200	9870	9870	10370	10370
Overall width	mm	3040	3040	3040	3040	3460	3460	3460	3460	4120	4120	4120	4120
Overallheight	mm	3995	3555	3995	3555	4120	4120	4120	4120	4600	4600	4850	4850
Load center distance	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Wheelbase	mm	4250	4250	4250	4250	4650	4650	4650	4650	5000	5000	5500	5500
Front overhang	mm	1102	1102	1102	1102	1162	1162	1162	1162	1270	1270	1270	1270
Rear overhang	mm	990	990	990	990	990	990	990	990	1160	1160	1160	1160
Minimum underground clearance	mm	280	280	280	280	275	275	275	275	350	350	390	390
Seat height	mm	2793	2473	2793	2473	2850	2850	2850	2530	2590	2590	2620	2620
The turning radius	mm	775	775	775	775	824	824	824	824	936	936	936	936
Turning radius (outside)	mm	5920	5920	5920	5920	6395	6395	6395	6395	6950	6950	7518	7518
Fronttrack	mm	2200	2200	2200	2200	2490	2490	2490	2490	3090	3090	3090	3090
Rear track	mm	2510	2510	2510	2510	2440	2440	2440	2440	2840	2840	2840	2840
Mast height (retracted/extended)	mm	3995/5995	3495/4995	3995/5995	3495/4995	4120/6120	4120/6120	4120/6120	4120/6120	4600/6600	4600/6600	4830/6830	4830/6830
Mast lifting height	mm	4000	3000	4000	3000	4000	4000	4000	4000	4000	4000	4000	4000
Mast tilting angle (forward/backward)	deg	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
Fork dimension (length*width*thickness)	mm	2440 × 250 × 110	2440 × 250 × 110	2440 × 250 × 110	2440 × 250 × 110	2440 × 300 × 115	2440×300×115	2440X300X115	2440X300X120	2440×300×145	2440 × 300 × 145	2440×300×145	2440 × 300 × 145
Fork adjusting range (Outside of Fork)	mm	820-2700	820-2700	820-2700	820-2700	920-2850	920-2850	920-2850	920-2850	1250-2850	1250-2850	1250-2850	1250-2850

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Note:

Load center is measured from the fork front. A standard load center point refers to the center of a cubic of side length of 2400mm. When gantry tilts forward, the bearing capacity will reduce in case of use of non-standard fork or loading a load exceeding the normal width,. Load curve tells you bearing capacity of various load centers in time.

Mast name	Max.fork Height (mm)	Overall height (mm)	(F/B)	Remarks	
M400	4000	3995	6°/10°	standarð equipmen	
M450	4500	4245	6°/10°		
M500	5000	4495	6°/10°		
M550	5500	4745	6°/10°		
M600	6000	4995	6°/10°		
M650	6500	5245	6°/10°		
M700	7000	5495	6°/10°		
M750	7500	5745	6°/10°		
M800	8000	5995	6°/10°		



Mast name	Max.fork Height (mm)	Overall height (mm)	(F/B)	Remarks
M400	4000	4120	6°/10°	standard equipmen
M450	4500	4370	6°/10°	
M500	5000	4620	6°/10°	
M550	5500	4870	6°/10°	
M600	6000	5120	6°/10°	
M650	6500	5370	6°/10°	
M700	7000	5620	6°/10°	
M750	7500	5870	6°/10°	
M800	8000	6120	6°/10°	

Mast name	Max. fork Height (mm)	Overall height (mm)	Tilt angle (F/B)	Remarks	
M400	4000	4600	6°/10°	standard equipmen	
M450	4500	4850	6°/10°		
M500	5000	5100	6°/10°		
M550	5500	5350	6°/10°		
M600	6000	5600	6°/10°		
M650	6500	5850	6°/10°		
M700	7000	6100	6°/10°		
M750	7500	6350	6°/10°		
M800	8000	6600	6°/10°	T	

Mast name	Max. fork Height (mm)	Overall height (mm)	Tift angle (F/B)	Remarks
M400	4000	4830	6°/10°	standard equipmen
M450	4500	5080	6°/10°	
M500	5000	5330	6°/10°	
M550	5500	5580	6°/10°	
M600	6000	5830	6°/10°	
M650	6500	6080	6°/10°	
M700	7000	6330	6°/10°	
M750	7500	6580	6°/10°	
M800	8000	6830	6°/10°	

Note: Duplex full free mast is optional

- Our products are constantly updated and improved. Parameters and design are subject to change without prior notice.
- The configuration and color of the products in figures may be different from the actual delivered model. Please in kind prevails.



F. Configurations

	Vehicle configuration														
Do	ak targua (Nm/DDM)	CPCD200 -VZ2-12III	CPCD200 -VD1-12III	CPCD250 -VZ2-12III	CPCD250 -VD1-12III	CPCD280 -VZ2-12III	CPCD300 -VZ2-12III	CPCD320 -VZ2-12III	CPCD350 -VZ1-12III(IV)	CPCD380 -VD2-12III	CPCD400 -VD2-12III	CPCD420 -CD-12III	CPCD420 -VD2-12III	CPCD460 -CD-12III	CPCD460 -VD2-12III
Engine	ak torque (Nm/RPM) Brand	VOLVO	VOLVO	VOLVO	CUMMINS	VOLVO	CUMMINS	VOLVO							
	Model	TAD851VE	TAD851(871)VE	TAD1151VE	TAD1151VE	QSM11	TAD1151VE	QSM11	TAD1151VE						
	Rated output (kW/RPM)	185/2200	185/2200	185/2200	185/2200	185/2200	185/2200	185/2200	185/2200	265/2100	265/2100	254/1800	265/2100	254/1800	265/2100
	Forklift truck model	1160/1350	1160/1350	1160/1350	1160/1350	1160/1350	1160/1350	1160/1350	1160/1350	1785/1316	1785/1316	1708/1400	1785/1316	1708/1400	1785/1316
	Emission standards	EUStageIII	EU Stage III	EUStageIII	EU Stage III	EU Stage III	EU Stage III	EU Stage III	EU Stage III(IV)	EU Stage III	EUStageIII	EU Stage III	EU Stage III	EU Stage III	EU Stage III
Transmission	model	ZF3WG211	DANA32000	ZF3WG211	DANA32000	ZF3WG211	ZF3WG211	ZF3WG211	ZF3WG211	DANA36000	DANA36000	DANA TE27	DANA TE27	DANA TE27	DANA TE27
Drive axle	model	Kessler	Kessler	Kessler	Kessler	Kessler	Kessler	Kessler							
Tire	size	14.00-24	14.00-24	14.00-24	14.00-24	16.00-25	16.00-25	16.00-25	16.00-25	18.00-25	18.00-25	18.00-25	18.00-25	18.00-25	18.00-25
Supporting configuration	Reversing radar	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Reversing image	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Weighing system	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	The vehicle ops	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	The door frame ops	0	0	0	0	0	0	0	0	0	0	0	0	0	0
The hydraulic	Quantitative system	•	•	•	•	•	•	•	/	/	/	/	/	/	/
system	Variable system	/	/	/	/	/	/	/	•	•	•	•	•	•	•
41.45	Air conditioning	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air conditioning options	Used by air conditioning	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pneumatic tyre	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1. XX40	Solidtyre	0	0	0	0	/	/	/	/	/	/	/	/	/	/
Tyre options	Solid tyre (front), pneumatic tyre (rear)	0	0	0	0	/	/	/	/	/	/	/	/	/	/
	Pneumatic tyre (front), solid tyre (rear)	0	0	0	0	/	/	/	/	/	/	/	/	/	/
	Thermocline cab	•	/	•	/	•	•	•	/	•	•	•	•	•	•
Cab	Tilting cab	/	•	/	•	/	/	/	•	/	/	/	/	/	/

^{●-}Standard item ○-Optional item /-Not used

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G. Configuration

Optional attachments



 Side shifting fork positioner (standard) It has both space adjusting and side shifting functions to improving working efficiency.



Fork extension It effectively extends fork and it is suitable for large size handling.



 Carpet boom It is suitable for roll type goods such as steel roll, wire roll and so on.



 Crane jib It is safe and high efficient to lift goods.



Slings It is suitable for goods in bundle such as rebar, steel tube and so on.

HELI smart fleet management system (optional)

- Vehicle positioning
- Remote diagnosis
- Remote mon toring
- Maintenance reminder
- Battery management
- Statistical form
- Vehicle management
- Identification recognition (optional)
- Weight management (optional)











HELI CANADA

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Our products are subject to improvements and changes without notice.