









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.



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26455lbs-35274lbs

G Series Balance Weight Type Forklift



160

www.helichina.com

Our Strength

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.



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 150 countries and regions over the world In the next five years, Heli will vigorously promote the international operation and create a global famous brand.

Brand concept

With being world top 5 as the short-term goal, HELI is committed to be a world advanced 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







Easy liquid adding and check

Cooling liquid adding and check, fuel adding, level check, oil-water separator replacement, engine oil adding and check and hydraulic oil level check become easier.

A.1 Durable structure design



A.2 Easy and high efficient daily inspection

Cab electric tilting system Automatic tilting system facility

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 Open type engine hood which can be open through two self-lock spring ensures easy and high efficient maintenance.









Easy cooling liquid adding and check

· Easy fuel adding and check



- Easy hydraulic oil level and quality (hydraulic oil level gauge)
- Easy oil-water separator replacement and maintenance
- · Easy engine oil adding and check

A3 Improved protection performance

- Oil cylinder protection sleeve
- ► Electric tilting button with high dust-proof and water-proof degree
- Improved harness protection degree
- Dust-proof and water-proof plus and sockets
- Dust-proof vent
- ► High strength aluminum plate fin type radiator
- Improved fuel pipe safety degree



- 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





Dust-proof sleeve for electric cabinet



Dust proof and water proof sockets and plugs: protection degree IP65

 High strength fin type structure will not deform or crack easily. Exterior injection molding treatment---anti-corrosion and oxidation resistance.

Molding steel pipe is used for oil suction pipe improving safety degree largely.

- Harness meets German standard and its temperature resistance ability is largely improved (-40 $^\circ\!C$ -105 $^\circ\!C$) .

A.4 Improved cooling efficiency

- Optimal designed channel
- ► Reasonable layout of radiator's fins
- Optimal designed fan



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



Axial fan with multiple blade, enough blast capacity and pressure and consume power is special for G series based on a large number of comparative tests.





B.1 High efficient matching, forceful power

Cummins B6.7 engine

Six cylinder four stroke turbocharged engine which is powerful, reliable, and economic and meets China III is assembled on the truck.

ZF transmission box Smooth gear shifting without shock. Intelligent gear shifting mode is easier. High efficient power match is more energy saving.

B.2 Hydraulic dynamic load variable control system

It can adjust oil pump displacement automatically according to operator habit and load condition to achieve high precision flow control and energy saving.



Energy saving and environment friendly







B_{.3} Intelligent sensitive thermal management system

- Four in one compound radiator effectively integrates resource and saves space.
- > Real time thermal managing system monitors cooling medium temperature curve of the completed truck and fan multilevel speed changing is
- achieved.
 The truck is heated quickly in winter and in summer, the system power consumption is more reasonable.
 The system saves 10% of the energy and consumption in low temperature area is 15% reduced.
- Better matching design; multilevel fan speed; outstanding noise reducing effect.



B.4 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.



Intelligent sensitive thermal management system

- Electric control system Real time thermal managing system monitors cooling medium temperature curve of the completed truck to control fan speed.
- Hydraulic system Fan is powered by separated power which is different from traditional direct connection fan to achieve fan multilevel sped changing.
- Cooling system Four in one compound radiator, optimized air channel and fan the air duct and the fan.



Counter weight no air channel design Special cooling system layout and temperature control system are adopted on G series truck. 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.

12-16 t



Comfort and convenient



C.1 Easy get on-off

- Large getting on off pedal and handrail Open type steps make easy and safe get on-off.
- Anti-skid pedal Anti-skid aluminous pedal has good anti-skid performance.
- Auxiliary handrail Solid and durable





- C.2 Smaller turning radius
 - Smaller turning radius Compact frame design Optimized steering angle



C.3 Mast lower buffering

Mast lower buffering Reduce the shock when lowering



C.4 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.
- Superior rear view 1200mmx900mm glass is used at the rear end of cab.
- Glass for left and right side window 4 pieces of glass is used on left and right door to ensure 360° view.
- Professional ergonomics view analysis



 Rear vision system (optional) truck real time rear view can be displayed when backward.

Front view check

Rear view check





C.5 More comfort driving experience

special cab with 360° view





P 00000 Weighting system(optional)

Moveable dashboard Most reasonable relative position is set between dashboard and seat SIP point through optimized ergonomic and multiple test. Dashboard and seat can be moved together to meet different driving needs.







 Fully suspension seat experience.

 Adjustable steering wheel bears your weight but also provides steady driving habit and easy and flexible steering largely reduces working. your work.



 Temperature control system through multiple channel Fully sealed cab controls temperature in the cab high efficiently and multiple channels cross ventilation keep the temperature in the cab stable. winter.

 Flexible control knob through small operation force.





 Backward radar(optional) Weight can be measured accurately through Monitor is achieved through reasonable distributed 6 points.



 Pedal optimized layout Adjustable damping shock reducing design not only Steering wheel can be adjusted according to operator Optimized pedal reduces fatigue during long time



Accurate, safe and effective control can be achieved







D.1 Better stability

- Smaller front overhang
- · 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.







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.

D.4 High efficient working



High efficient operation

 Hydraulic pilot long distance control provide high operation accuracy and quick response.

· Integrated dashboard makes operation easy. · Reasonable ergonomics layout provides you

human-machine friendly operating experience.

► High efficient performance

- Faster working speed
- · Better gradeability
- · Forceful power output provides truck better acceleration performance and gradeability.







Technical parameters

Tec	Fechnical parameters											
01	Model	Unit	CPCD120-C2Z-09	CPCD135-C2Z-06	CPCD150-C2Z-06	CPCD160-C2Z-06	CPCD140-C2Z-09	CPCD150-C2Z-09	CPCD160-C2Z-09	CPCD140-C2Z-12	CPCD150-C2Z-12	CPCD160-C2Z-12
02	Rated load	lbs	26455	29762	33069	35274	30865	33069	35274	30865	33069	35274
03	The mass	lbs	39242	39242	40565	41447	45195	46297	47399	47178	48942	50705
04	Maximum lifting speed (loaded/unloaded)	ft/min	70.9/74.9	70.9/74.9	69.0/74.9	69.0/74.9	72.9/78.8	72.9/78.8	72.9/78.8	72.9/78.8	72.9/78.8	72.9/78.8
05	Maximum speed (loaded/unloaded)	mph	14.9/16.2	14.9/16.2	15.5/16.8	15.5/16.8	16.3/17.0	16.3/17.0	16.3/17.0	16.5/17.2	16.3/17.0	15.1/16.2
06	Gradeability (loaded/unloaded)	%	36.4/40	36.4/40	36.4/40	36.4/40	36.4/40	36.4/40	36.4/40	36.4/40	36.4/40	36.4/40
07	Noise in the cab	dB(A)	≤73.8	≤73.8	≤73.8	≤73.8	≤73.8	≤73.8	≤73.8	≤73.8	≤73.8	≤73.8

Size	e parameters											
01	Model	Unit	CPCD120-C2Z-09	CPCD135-C2Z-06	CPCD150-C2Z-06	CPCD160-C2Z-06	CPCD140-C2Z-09	CPCD150-C2Z-09	CPCD160-C2Z-09	CPCD140-C2Z-12	CPCD150-C2Z-12	CPCD160-C2Z-12
02	Overall length		264	246.3	246.7	246.7	279.7	279.7	279.7	314	314	314
03	Overall width	in	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
04	Overall height	in	134.25	134.25	134.84	134.84	131.5	131.5	131.5	131.5	131.5	131.5
05	Load center distance	in	35.4	23.6	23.6	23.6	35.4	35.4	35.4	47.2	47.2	47.2
06	Wheelbase	in	128	128	128	128	137.8	137.8	137.8	147.6	147.6	147.6
07	Frontoverhang	in	30.9	30.9	31.3	31.3	36.8	36.8	36.8	36.8	36.8	36.8
08	Rear overhang	in	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
09	Minimum underground clearance	in	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
10	Seatheight	in	77.6	77.6	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
11	Turning radius (inside)	in	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
12	Turning radius(outside)	in	175.2	175.2	177.2	177.2	187	187	187	200.8	200.8	200.8
13	Fronttrack	in	74.3	74.3	74.3	74.3	74.6	74.6	74.6	74.6	74.6	74.6
14	Reartrack	in	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
15	Mast height (retracted/extended)	in	134.25/193.31	134.25/193.31	134.84/193.90	134.84/193.90	131.5/190.6	131.5/190.6	131.5/190.6	131.5/190.6	131.5/190.6	131.5/190.6
16	Mast lifting height	in	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1
17	Mast tilting angle (forward/backward)	in	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12
18	Fork dimension (length*width*thickness)	deg	71.7x7.9x3.3	53.9x7.9x3.3	53.9x7.9x3.3	53.9x7.9x3.3	71.7x7.9x3.7	71.7x7.9x3.7	71.7x7.9x3.7	96.1x7.9x3.9	96.1x7.9x3.9	96.1x7.9x3.9
19	Fork adjusting range	in	19.7-93.3	19.7-93.3	19.7-93.3	19.7-93.3	19.7-93.3	19.7-93.3	19.7-93.3	19.7-93.3	19.7-93.3	19.7-93.3













G Series 12–13.5t forklift truck (ultimate version)-Standard Mast

G Series 12-1	3.5t forklift truck (ultimate version)-Standard	Mast	·	······		
		Load capacity (lode center 900mm)(kg)	Load capacity (lode center 600mm)(kg)			
Mast model	Max.lifting height (mm)	CPCD120 CPCD135		Overall height of mast (mm)	Max.mast height(mm)	Mast tilt angle α/β (°)
M300	3000	12000	13500	3410	4910	6/12
M350	3500	12000	13500	3480	5230	6/12
M400	4000	12000	13500	3730	5730	6/12
M450	4500	12000	13500	3980	6230	6/12
M500	5000	12000	13500	4280	6780	6/6
M550	5500	11000	12500	4530	7280	3/6
M600	6000	10000	11500	4830	7830	3/6
M650	6500	9000	10500	5080	8330	3/6

G Series 15–16t light type forklift truck (ultimate version) –Standard Mast

		Load capacity (lode	center 600mm)(kg)				
Mastmodel	Max.lifting height (mm)	CPCD150	CPCD160	Overall height of mast (mm)	Max.mast height(mm)	Mast tilt angle $\alpha/\beta(^\circ)$	
M300	3000	15000	16000	3425	4925	6/12	
M350	3500	15000	16000	3495	5245	6/12	
M400	4000	15000	16000	3745	5745	6/12	
M450	4500	15000	16000	3995	6245	6/12	
M500	5000	15000	16000	4295	6795	6/6	
M550	5500	14000	15000	4545	7295	3/6	
M600	6000	13000	14000	4845	7845	3/6	
M650	6500	12000	13000	5095	8345	3/6	

G Series 14–16t standard type forklift truck (ultimate version)-Standard Mast

		Loa	ad capacity (lode center 900mm)(l	kg)				
Mast model	Max.lifting height (mm)	CPCD140 CPCD150		CPCD160	Overall height of mast (mm)	Max.mast height(mm)	Mast tilt angle α/β (°)	
M300	3000	14000	15000	16000	3340	4840	6/12	
M350	3500	14000	15000	16000	3590	5340	6/12	
M400	4000	14000	15000	16000	3840	5840	6/12	
M450	4500	14000	15000	16000	4090	6340	6/12	
M500	5000	14000	15000	16000	4340	6840	6/6	
M550	5500	13000	14000	15000	4590	7340	3/6	
M600	6000	12000	13000	14000	4840	7840	3/6	
M650	6500	11000	12000	13000	5090	8340	3/6	

G Series 14-16t heavy-load type forklift truck (ultimate version)-Standard Mast

		Lo	ad capacity (lode center 1200mm)	(kg)			Mast tilt angle α/β (° $$)	
Mastmodel	Max.lifting height (mm)	CPCD140	CPCD150	CPCD160	Overall height of mast (mm)	Max.mast height(mm)		
M300	3000	14000	15000	16000	3340	4840	6/12	
M350	3500	14000	15000	16000	3590	5340	6/12	
M400	4000	14000	15000	16000	3840	5840	6/12	
M450	4500	14000	15000	16000	4090	6340	6/12	
M500	5000	14000	15000	16000	4340	6840	6/6	
M550	5500	13000	14000	15000	4590	7340	3/6	
M600	6000	12000	13000	14000	4840	7840	3/6	
M650	6500	11000	12000	13000	5090	8340	3/6	





01		Truck model	CPCD120-C2Z-09	CPCD135-C2Z-06	CPCD150-C2Z-06	CPCD160-C2Z-06	CPCD140-C2Z-09	CPCD150-C2Z-09	CPCD160-C2Z-09	CPCD140-C2Z-12	CPCD150-C2Z-12	CPCD160-C2Z-12
		Brand	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	Engine	Model	B6.7	B6.7	B6.7	B6.7	B6.7	B6.7	B6.7	B6.7	B6.7	B6.7
En		Rated power (Hp/rpm)	172.9/2200	172.9/2200	172.9/2200	172.9/2200	199.7/2200	199.7/2200	199.7/2200	199.7/2200	199.7/2200	199.7/2200
		Rated torque (lb.ft/rpm)	649.8/1300	649.8/1300	649.8/1300	649.8/1300	730.2/1500	730.2/1500	730.2/1500	730.2/1500	730.2/1500	730.2/1500
		Emission standard	EU Stage V/T4F/China Stage IV	EU Stage V/T4F/China Stage IV	EUStageV/T4F/ChinaStageIV	EU Stage V/T4F/China Stage IV	EU Stage V/T4F/China Stage IV	EUStageV/T4F/ChinaStageIV	/EUStageV/T4F/ChinaStageIV	EUStage V/T4F/China Stage IV	EUStageV/T4F/ChinaStageIV	EU Stage V/T4F/China Stag
3 Tra	ansmission	Model	ZF131	ZF131	ZF131	ZF131	ZF171	ZF171	ZF171	ZF171	ZF171	ZF171
4 Dri	ive axle	Model	Meritor drive axle	Meritor drive axle	Meritor drive axle	Meritor drive axle	Kessler	Kessler	Kessler	Kessler	Kessler	Kessler
05 Tir	re	Size	11.00-20	11.00-20	12.00-20	12.00-20	12.00-20	12.00-20	12.00-20	12.00-20	12.00-20	12.00-20
	Auxiliary configuration	Backward radar	•	۲	۲	•	•	•	•	•	•	•
		Backward image	٠	۲		•	•	۲	•	•	•	•
		Weighting system	0	0	0	0	0	0	0	0	0	0
		Ops for the whole truck	0	0	0	0	0	0	0	0	0	0
		Ops for mast	0	0	0	0	0	0	0	0	o	0
JZ HV	/draulic	Consistent rate system				•	1	1	1	1	1	1
sys	atom.	Variable system	1	/	1	1	•	•	•	•	•	•
a Air	conditioner	Air conditioner	Ò	۲	۲	•	٠	•		•	•	•
		Pneumatic tyre	٠	۲	۲		. I I I I I I I I I I I I I I I I I I I	۲	•	•	•	٠
9 т.	Гyre	Solid tyre	0	0	0	0	0	0	0	0	0	0
Ту		Solid tyre (front), pneumatic tyre (rear)	0	0	0	0	0	0	0	0	0	0
		Pneumatic tyre (front), solid tyre (rear)	0	0	0	0	0	0	0	0	o	0
10 Ca	ab	Tilting cab	•	•	•	•	•	•	•	•	•	•

●-Standard item ○-Optional item /-Not used

• Our products are subject to the improvements and changes without notice.

• The picture in the brochure may not be the standard model of this type. The configuration and color of the product in the picture may be different from the actual machine. Please adhere to the actual machine.





Mast



- Standard type mast
- It is suitable for normal working condition. It has changeable tread and high fatigue resistance ability.



Two-stage full free mast It is suitable for narrow working conditions in doors, cabin and dwarf door. Extraposition lifting cylinder provides better view.

- Three-stage full free mast The truck has larger lifting height and lower truck height and thus it is safer.

HELI smart fleet management system

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





It is easy and quick with two forks adjusting powered by hydraulic.

It has both space adjusting and side shifting functions to improving working efficiency.

Side shifting and space adjusting function are separated from each other to achieve quick respond.

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

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

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