

CPCD 120-160 G series Balance Weight Type Forklift



HELI

12-16 t

G Series Balance Weight Type Forklift

STAGE V



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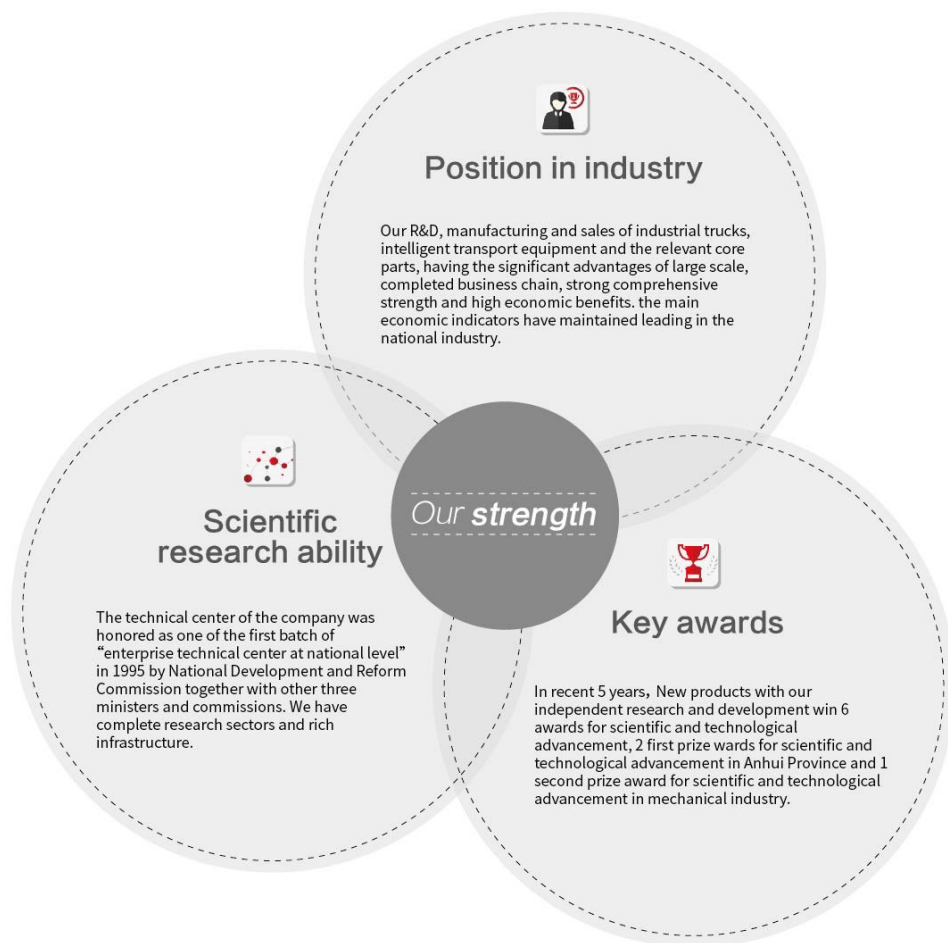
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* Our products are subject to improvements and changes without notice.

www.heliforklift.net

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

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.

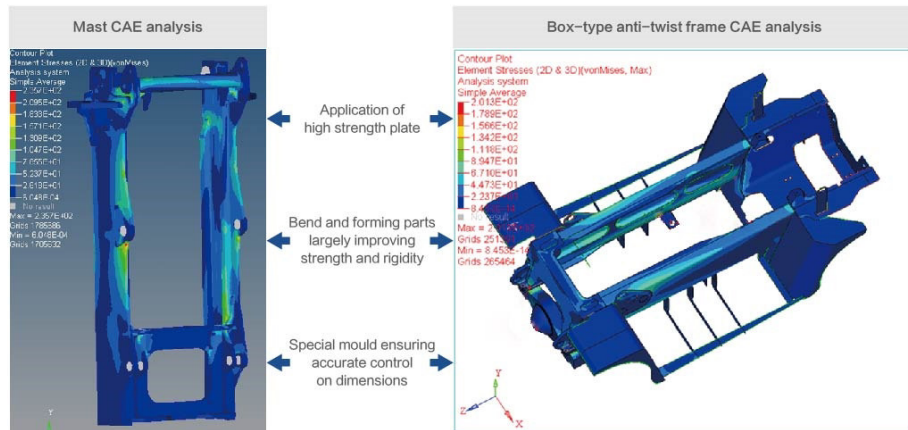
Heavy truck: 12t-18t, 20-25t, 28-32t, 35t, 38-40t, 42-46t

Reach stacker: standard type reach stacker, heavy type reach stacker

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

A Enduring and durable

A.1 Durable structure design



A.2 Easy and high efficient daily inspection

- ▶ **Cab electric tilting system**
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 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.



- 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

A.3 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



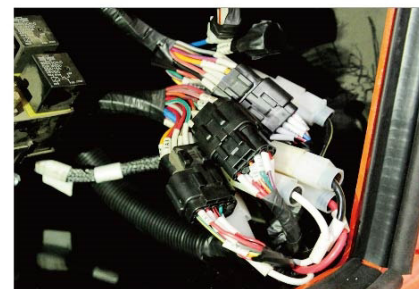
■ High strength fin type structure will not deform or crack easily.
Exterior injection molding treatment---anti-corrosion and oxidation resistance.



■ Dust-proof sleeve for electric cabinet



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



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



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

A.4 Improved cooling efficiency

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



- Optimal designed radiator and channel
Optimal designed radiator and channel make cooling system have small resistance, avoid air flowing back effectively and improve cooling efficiency.
- Optimal designed fan
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/ Energy saving and environment friendly

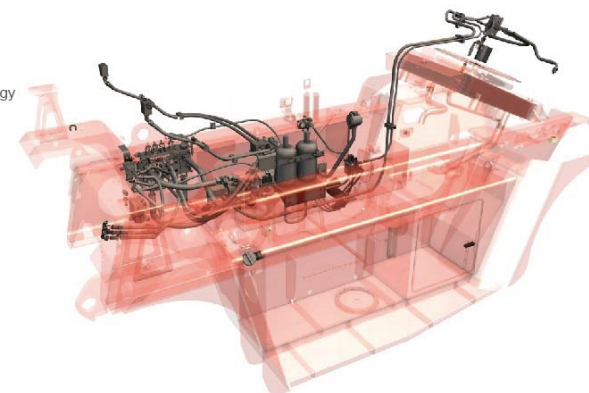
B.1 High efficient matching, forceful power

- ▶ Cummins QSB6.7 engine
Six cylinder four stroke turbocharged engine which is powerful, reliable, and economic and meets EU Stage V/T4F/China Stage IV 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.



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.



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 speed changing.
- Cooling system
Four in one compound radiator, optimized air channel and fan the air duct and the fan.

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.



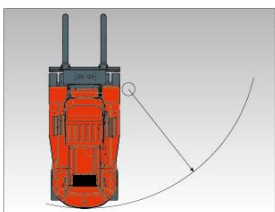
- Counter weight no air channel design
Special cooling system layout and temperature control system are adopted on G series truck. rear counter weight has no air channel and counter weight use ratio is increased and thus truck service weight is reduced.
- Light type design
 - Application of high strength material.
 - Years of data accumulation and accurate CAE analysis.
 - Constant structure optimization.

C/ 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

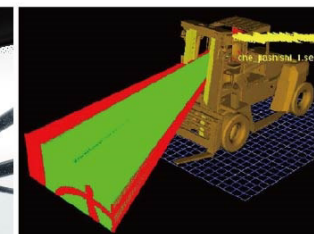


C.4 Superior view

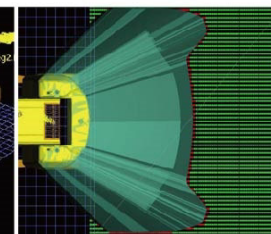
- Superior front view
Front glass with large arc is used and front view field angle is 10° increased.
- Superior top view
Large glass is used on the top of cab.
- Superior rear view
1200mmx900mm glass is used at the rear end of cab.
- Glass for left and right side window
4 pieces of glass is used on left and right door to ensure 360° view.
- Professional ergonomics view analysis



- Rear vision system
truck real time rear view can be displayed when backward.



- Front view check



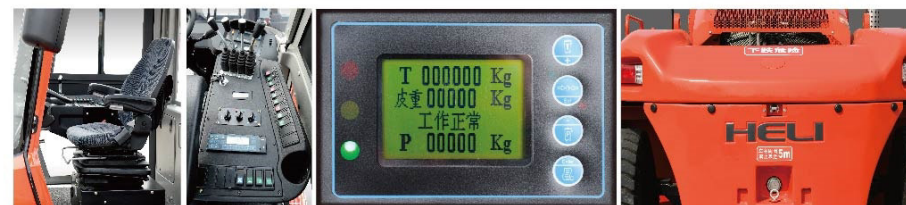
- Rear view check



C.5 More comfort driving experience

special cab with 360° view

Ergonomic	↔	Ergonomic	↔	Fully suspension seat, moveable dashboard, easy to reach operation
Panoramic	↔	Wide view	↔	360° view
Exclusive	↔	Dedicated space	↔	The truck has 20% enlarged driving space and reduced noise through multiple technologies. USB, radio, printer and air conditioner are optional to meet your needs.



- **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.
- **Weighting system(optional)**
Weight can be measured accurately through checking hydraulic pressure.
- **Backward radar**
Monitor is achieved through reasonable distributed 6 points. Larger monitoring range



- **Fully suspension seat**
Adjustable damping shock reducing design not only bears your weight but also provides steady driving experience.
- **Adjustable steering wheel**
Steering wheel can be adjusted according to operator habit and easy and flexible steering largely reduces your work.
- **Pedal optimized layout**
Optimized pedal reduces fatigue during long time working.



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

D Safe and high efficient



D.1 Better stability

- ▶ Smaller front overhang
 - More compact mast structure
- ▶ Retroposition of center of gravity
 - Retroposition of power system
 - Retroposition of cooling system
 - No air channel on the balance weight

D.2 OPS

- ▶ OPS for the whole truck

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

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.

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.

Mast lifting and lowering speed is 5% increased.

