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ISO45001  
ISO45001:2018



ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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## X Series Diesel / Gasoline / LPG Counterbalanced Forklift Trucks

with capacities of 4,000 to 5,500kg

*The World of Hangcha*





P20

# X Series

Diesel / Gasoline / LPG  
Counterbalanced  
Forklift Trucks



## Innovation design

The X series is the new series of internal combustion counterbalance forklift truck developed by Hangcha independently, adopting the world advanced technologies based on the original products. Through the comprehensive upgrading of appearance molding, energy conservation, environmental protection, comfort, security and reliability, it will become the world-class forklift truck which can meet your overall demands.

### Strong appearance and visual impact

The appearance of full truck is developed under the cooperation with professional industrial design company by adopting the appearance design methods of brand-new concept. The streamlined surface modeling design brings smooth lines, elegant appearance, vigorous and steady surface as well as the outstanding inherence, possessing the powerful visual impact.

The appearance of the truck is small, exquisite and concise. which adopting the newly designed parts with opening mould at large area, the appearance will be more humanized.



The new designed mast increase forward visibility 15%



Legroom ↑ 15%



High pressure common rail electronic-controlled engine provide lower failure rate (Common rail engine)



Fuel consumption ↓ 10% (Common rail engine)



Exhaust emission ↓ 35% (Common rail engine)



Aluminous plate-fin radiator provides stronger structure



Grade-speed ability ↑ 15%



Better cold starting performance (Common rail engine)



Water temp ↓ 10 C, oil temp ↓ 10%



Pro



## Energy conservation and Environmental protection



The standard engine is the high pressure common rail electronic-controlled engine which adopts high pressure multiple injections technology to ensure the strong power take-off, lower emission and better cold starting performance; saving the 10% of energy consumption.



The whole truck adopts LED lights as shiner and new-type panoramic retroreflector to ensure energy conservation and power saving as well as greatly improve the performance and service life of luminaires at the same time.

The full vehicles all adopt the environmental protection material to reduce environmental hazards.

## Maintenance



Newly-developed LCD instrument has more comprehensive functions and more stable performance and entirely displays the full truck running state, trouble diagnosis and other important information, which can make the operator more intuitively and conveniently have a better knowledge of truck state and make the maintenance conveniently.



The enlarged opening angle of hood and increase of left and right hood side plates can provide you with convenient and rapid maintenance mode.



Adoption of new generation integrated electric box makes maintenance and repair convenient, layout becomes more reasonable and with better water-proof performance.



Integral locking pin structure on the baseboard can be opened without tool, which is convenient for daily repair and maintenance.



Easy/  
Efficiency/  
Economy



## Fully improved reliability And security



1. The radiator adopts aluminous plate-fin radiator with better performance and higher structural strength. Impendent oil radiator, optimized oil and water heat dissipation channel and double ventilation holes on counterweight can greatly improve cooling efficiency and reliability of overloaded operation and ensure reliable operation of the engine.



2. Anti-slip pedal is convenient to get on/off the truck and also more safe for the driver.



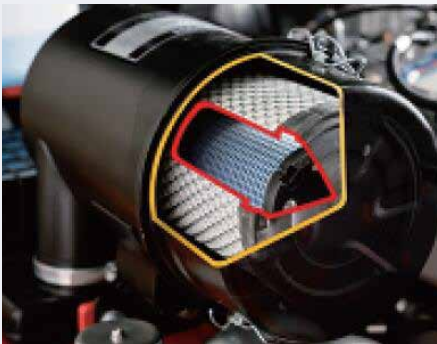
4. Optimized hydraulic breather structure and integrated with return oil filter can prolong the service life of hydraulic pressure system.

3. Overhead guard adopts special-shaped steel tube, which can reinforce the strength and improve sealing of the cab.

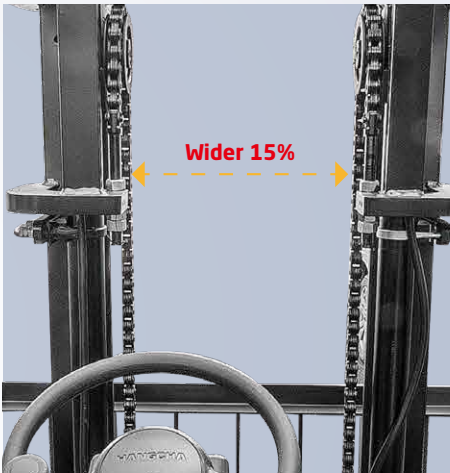


# Comfort and convenience

*Reduce the caster angle of instrument stand and adopt the integral hood to greatly increase the space underfoot;  
The orthodrome of overhead guard fore leg will expand the driving space;*



Optimized air intake and exhaust system of full truck, high-capacity exhaust buffer and high-effect intake buffer will reduce the noise of full truck by 3dB and reduce the vibration by 20%.



Adopt the new-type of box iron. Increase the inside width of inner mast and the spacing between lifting cylinders. The lowering of instruments in the driving cab will greatly increase the forward visibility; The rear visibility will also be greatly improved through the optimization design of counterweight.



The design of steering wheel of small diameter and electro-hydraulic system as well as the car-type double-handle combination switch will greatly improve the driving comfort.

/ The large-scale high-quality acoustic wool can greatly reduce ear noise and improve driving comfort.  
/ The newly developed LCD instruments have more comprehensive functions and more stable performance and can completely display important information such as the running status of the forklift, engine failure, etc., so that the operator can more clearly know the status of the forklift and the maintenance becomes easier.  
/ The vehicle body harness adopts quick-insert tube clamp, convenient and reusable, improving the aesthetics of the vehicle body harness.



# Green and energy efficiency

*The hydraulic dual-pump merging technology and increased hydraulic pipe diameter are adopted to reduce pressure loss greatly, and prolong the service life of the hydraulic system while achieving energy saving and high efficiency.  
The application of load sensing multi-way valve greatly improves the lifting speed and work efficiency.*



# Safety and reliability

/ The standard enhanced brake allows stable and reliable braking and long service life.  
/ The standard flexible hydraulic gearbox features high quality, long service life and small vibration of the entire forklift, ensuring reliability of the entire forklift.  
/ The application of the standard open casting flexible steering axle with the vibration damping design and the use of the steering cylinder of one bigger size and strengthened bearings achieve high reliability.  
/ The new mast structure of channel steel broadens the front view significantly. And the front overhang of the triplex mast is greatly reduced, improving safety significantly.  
/ The super-large high performance water tank can enhance the heat dissipation area, significantly reduce the water and oil temperature, and improve the reliability under heavy working conditions and when attachments are configured.  
/ The hydraulic system adopts 24° tapered seal to improve the sealing performance of the hydraulic system, ensuring reliability of the entire forklift.

# Intelligentized management system (option)

*Reserved plug of extending function of Intelligent module is on the wire bundles that makes truck management more convenient and rapid.*





Pro



## Standard Specification

- / Reminder of maintenance
- / LED working light
- / Hydraulic oil filter
- / Electric Flameout
- / Seat with belt
- / Skidproof pedal
- / Air filter
- / Hydraulic oil dipstick
- / Traction device
- / Mast speed limiting valve
- / Full hydraulic power steering
- / Wide view duplex mast
- / Standard forks
- / Standard overhead guard
- / Rear combination LED light
- / Panoramic rearview mirror
- / Filf folder
- / Adjustable steering column
- / Pre-heating indicator
- / Engine fuel pressure warning
- / Neutral switch
- / Engine hood spring
- / Dipstick
- / Pneumatic tyres
- / Standard load backrest
- / Horn
- / Fuel gauge
- / LCD display
- / Cable parking brake
- / Tilt cylinder self-locking valve
- / Fork carriage mounting class III ( IV )
- / Timer
- / Load safety valve
- / Charging indicator
- / Water temperature gauge
- / Reversing buzzer
- / Return oil filter
- / Hand grip
- / Integrated controller
- / Oil-water separator
- / Engine fault warning
- / Rubber pedal
- / 2nd hydraulic function
- / Transmission oil temperature warning

## Optional Mast

- / Duplex wide view full free mast
- / Trilex wide view full free mast
- / Special duplex wide view mast
- / Wider fork carriage
- / Special forks

## Options

- / Cover of tilt cylinder
- / Dual front wheel
- / Cabin
- / High-positioned exhaust system
- / Customer painting
- / Cabin heater
- / LED rear working light
- / Hood lock
- / Double heat insulating pad and leather cover
- / Net cover of radiator
- / Solid tyre
- / Middle-positioned exhaust system
- / Sparkle arrester
- / Suspension seat
- / Fuel tank lock
- / Speed meter
- / Extinguisher
- / Right rear armrest with horn button
- / Counter weight net
- / Height of overhead guard
- / Dual air filter
- / Milometer
- / Waterproof cover on the guard
- / Toolbox

## Optional Attachments

- / Paper roll clamp
- / Rotating bale clamp
- / Load stabilizer
- / Multi-drum clamp
- / Bale clamp
- / Drum clamp
- / Dumping clamp
- / Crane arm
- / String pole
- / Weigher system
- / Sideshifter
- / Rotating forks
- / Fork extensioner
- / Load release device
- / Carton clamp
- / Push-pull device
- / Bucket
- / Hook
- / Lengthened fork