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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

# XF SERIES

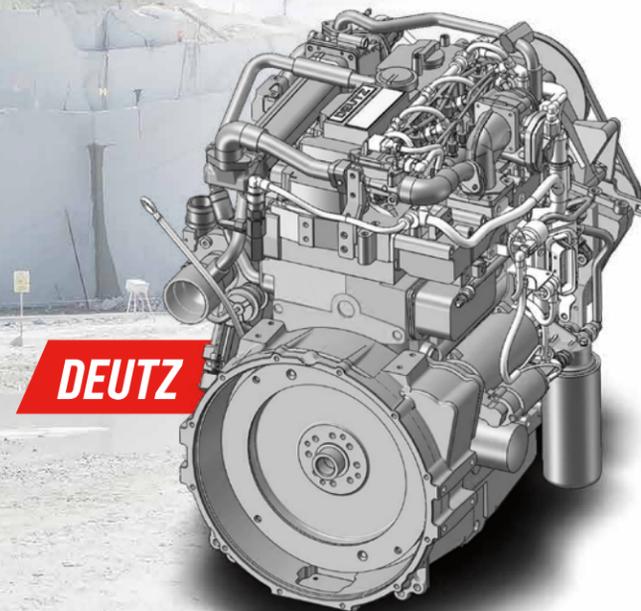
DIESEL / LPG COUNTERBALANCED TRUCKS

with capacities of 5,000 to 7,000kg

# HANGCHA be with you at every stage

Efficient, reliable solutions for your demands

**STAGE V**



With Hangcha you can meet all Stage V emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, turbocharged Inter-cooled, EGR + DOC + DPF. Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.

## HANGCHA Forklift with StageV

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)	Service brake
1	5.0-7.0t	XF	DEUTZ	TCD 3.6 L4	Diesel	CPCD50/60/70-XW95G	Stage V/T4F	ZF	55.4/2300	Wet brake
2	5.0-7.0t	XF	Cummins	F3.8	Diesel	CPCD50/60/70-XH16B	Stage V/T4F	Okamura	90/2200	Wet brake
3	5.0-7.0t	XF	Yuchai	YCA05115-S500	Diesel	CPCD50/60/70-XH15B	Stage V	Okamura	85/2200	Wet brake
4	5.0-7.0t	XF	PSI	PSI 4.3	LPG	CPYD50/60/70-XH20	Stage V	CHINA	79.75/2300	Drum brake

Note: Stage V applied for European Union also including Israel and Turkey

## EASY MAINTENANCE

Careful design facilitates inspection and servicing. Easy maintenance reduces the amount of downtime and helps to reduce cost also.

- ▶ The location of the air-filter is easy to reach, and it's very easy to replace the filter.
- ▶ The rotating LPG bottle holder is easy to replace the bottle, reduces the downtime.
- ▶ All the locations of the engine oil level dipstick, filter of hydraulic, water separator are easy to reach, and very easy for engineer to check.
- ▶ There's gas spring support for the front cover of radiator, and it can auto-open when the rear cover of radiator is opened.



## PRODUCTIVITY

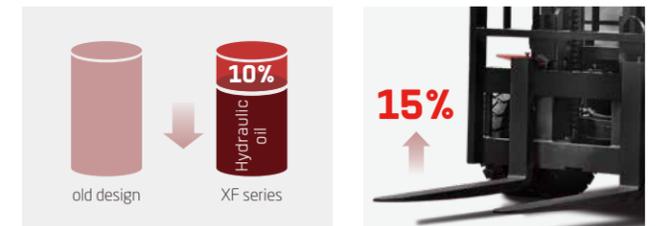
Thanks to the series technological innovations, the efficiency of the truck is improved, the energy consumption is reduced.



By optimizing transmission design, the power train provides higher efficiency, and the Max. driving speed is increased **20%**



- ▶ Interactive instrument: The instrument adopts 4.0-inch LCD display with four interactive buttons, and has one CAN bus communication function. The communication protocol is compatible with CANopen and SAE J1939 standards.



- ▶ The new patent dynamic load sensing hydraulic steering system contributes to reduce loss of hydraulic, improve energy consumption and increase 15% lifting speed.



- ▶ The new efficiency LED lighting system and new type reflector reduce energy consumption, improve illumination performance and prolong working life.

# COMFORTABLE OPERATION

In developing the XF 5-7t series, comfort and easy operation is always considered, for example, improved vibrating levels, compound engine damper and full floating seat and cabin are applied. Comfortable also contribute to increased productivity.

▶ The new, relocated easy-to-see LCD meter lets the operator check on all aspects of operational status at a glance.



▶ The automobile-style suspended pedals provide more ergonomic operation.



▶ The new automobile-style light/turn-signal lever and forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.



▶ The optional Electro-hydraulic proportional control system contributes more sensitive and precise load handling. The easy-to-operate levers provide total load handling operation. An armrest is provided to reduce fatigue.

▶ Only 90N parking brake force is required.



▶ The small diameter steering wheel with tilt adjustment provides the ideal operating position. The superior responsiveness of the steering wheel optimizes maneuverability even in narrow spaces.



# SAFETY

A wide range of technologies are applied to ensure absolute safety for both the operator and those in the surrounding.



The locking device of the engine hood damper and parking brake help add to safety.



There's an energy accumulator applied in the braking system, which means when the engine is shut down, it can also provides more than 4 times emergency brake.



▶ The seat sensor system incorporates lifting/tilting and traveling locking function. When the operator leaves the seat, the system automatically locks lifting/tilting and disables traveling to ensure safety.

▶ A throttling device is adopted to avoid the mast being out of control even some pipes are broken.



**WIDER**

**WIDER 30%**

▶ The extra foot space is provided to reduce operator fatigue significantly. The new wide-open, non-slip step makes getting in and out easy and safe.

**SOFTLY**

▶ In addition to the soft landing system, the soft lifting system is adopted (front lifting cylinders of triplex mast and full free duplex mast), as a result, the noise and shock of the mast significantly decreases.

**WIDER**

▶ The new design mast provides broad forward visibility due to the distance between inside mast is increase 60mm.

# RELIABILITY

By focusing on enhancing reliability, reducing downtime, the XF series is able to make the greater productivity for customer.



- ▶ The patent plated-fin type aluminum radiator is applied, the heat exchanging is approved, and improves the capability for operation in severe environments.



- ▶ The new stamped air cleaner featuring tangential intake, double seal with safety filter is durable, corrosion-free and vibration-resistant, provides better filter efficiency and lower intake resistance than the previous.



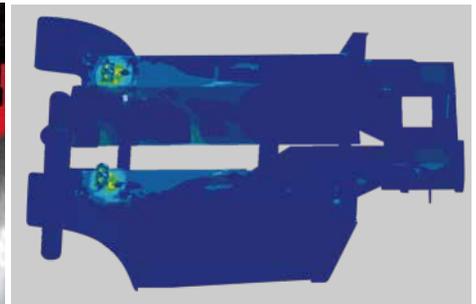
- ▶ All the controllers, relays, and safety fuses are allocated in the controller box, free to water and dust. The main electronic components are waterproof, which is capable operator in severe environment. And the famous brand air-filter is also applied in the truck.



- ▶ There're four levels shock absorption applied to reduced the vibration from the road to the driver. The damping pad is applied reduce the vibration, Like between the steering axle and the chassis, The engine, torque convertor and the chassis, the overhead guard and the chassis. And the suspension seat is another vibration reduction.



- ▶ Brake oil and steering oil are separated, non-interference in each other, using dynamic load sensing steering system, more energy efficient.



- ▶ High strength chassis, mast and front/rear axle are to make sure the reliability of the truck, even for high strength application.

# Features

Truck	Standard	Options
Traction device	●	
Hand grip	●	
Standard seat	●	
Standard overhead guard	●	
Waterproof cover on the guard	●	
Back view mirror	●	
Pneumatic tyres	●	
Cabin		○
Cabin heater		○
Front window		○
Super elastic tyre		○
Non-mark tyre(white/green)		○
Suspension seat		○
Extinguisher		○
Special given color		○
Boot for tilt cylinder		○
Counter weight net		○
Seat sensor system		○
Toolbox		○
Hood lock ( for W95 engine)		○
<b>Steering</b>		
Full hydraulic power steering	●	
Smaller diameter steering wheel	●	
Adjuster of steering wheel	●	
<b>Chassiss</b>		
Skidproof pedal	●	
Rubber pedal	●	
Engine hood spring	●	
<b>Control</b>		
Power steering	●	
Suspension pedal	●	
Integrated combination switch	●	
Parking brake	●	
<b>Hydraulic</b>		
Dynamic load sending control valve	●	
Hydraulic oil filter	●	
Tilt cylinder self-lock valve	●	
Hydraulic oil dipstick	●	
Accumulator	●	
Auxiliary hydraulic valve		○
Electro-hydraulic		○
Proportional control system		○
<b>Transmission</b>		
Suspension transmission	●	
Oil filter	●	
Dipstick	●	
Oil cooler	●	
Non-asbestos brake	●	
Wet brake (W65/W95/H16/H15)	●	
Drum brake (W14/W57/W68/W24/H20)	●	
Japanese drum brake		○
Wet brake		○
<b>Power</b>		
Big capacity aluminum radiator	●	
Whirlwind air cleaner	●	
Safety filter	●	
High-efficient intake muffler	●	
High-efficient exhaust muffler	●	
Middle-positioned exhaust system (W65/W14/W57/W68/W24/H20)	●	
High-positioned exhaust system (W95/H16/H15)	●	
Upright exhaust system		○
Air pre-cleaner		○
Net cover of radiator		○
Spark arrester		○
Purified exhaust system		○
Fan protector		○

Electronics	Standard	Options
High-efficient front lights	●	
High-efficient LED rear lights	●	
Service-free start battery	●	
Combination controller	●	
LCD display	●	
Neutral switch	●	
Hour meter	●	
Fuel gauge	●	
Water temperature gauge	●	
Pre-heat indicator	●	
Charging indicator	●	
Engine fuel pressure warning	●	
Oil temperature	●	
Horn	●	
Reversing buzzer	●	
Air-filter with jam sensor	●	
Emergency power off	●	
OBD		○
Front working light		○
Rear working light		○
Warning lamp		○
<b>Mast</b>		
Standard wide view duplex mast	●	
Standard forks	●	
Standard fork carriage	●	
Standard load back rest	●	
Mast speed limiting valve	●	
Load safety valve	●	
Mast down buffer device	●	
Mast up buffer device	●	
Side roller	●	
Duplex wide view free-lift mast		○
Triplex wide view free-lift mast		○
Special forks		○
Wider fork carriage		○
Widerload back rest		○
<b>Optional Attachments</b>		
Paper roll clamp		○
Rotating bale clamp		○
Load stabilizer		○
Multi-drum clamp		○
Bale clamp		○
Drum clamp		○
Dumping clamp		○
Crane arm		○
String Pole		○
Sideshifter		○
Rotating forks		○
Fork extensioner		○
Load release device		○
Carton clamp		○
Push-pull device		○
Bucket		○
Hook		○
Lengthened fork		○