 XF Series Diesel / LPG Pneumatic Tire Trucks

with capacities of 11,000 to 15,500lbs
Comfortable Operation

In developing the XF 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 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.

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.

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.

The new design mast provides broad forward visibility due to the distance between inside mast is increase 60mm.
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HANGCHA be with you at every stage
Efficient, reliable solutions for your demands

**Comfortable Operation**

1. The new, relocated easy-to-see LCD meter lets the operator check on all aspects of operational status at a glance.
2. The new automobile-style light/turn-signal lever and forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.
3. Only 90N parking brake force is required.
4. 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.
5. The automobile-style suspended pedals provide more ergonomic operation.

**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%.
- The new efficiency LED lighting system and new type reflector reduce energy consumption, improve illumination performance and prolong working life.
- The new patent dynamic load sensing hydraulic steering system contributes to reduce loss of hydraulic, improve energy consumption and increase 15% lifting speed.

**Interactive Instrument**

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

**DEUTZ**

With Hangcha you can meet all Tier 4f emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.

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Reliability

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

![Image of air cleaner with text: 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.]

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

![Image of brake system with text: Brake oil and steering oil are separated, non-interference in each other, using dynamic load sensing steering system, more energy efficient.]

Easy Maintenance

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

![Image of engine components with text: The location of the air-filter is easy to reach, and it’s very easy to replace the filter. 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.]

Safety

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

1. The OPS 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.

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

![Image of safety features with text: A wide range of technologies are applied to ensure absolute safety for both the operator and those in the surrounding.]

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

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There’s gas spring support for the front cover of radiator, and it can auto-open when the rear cover of radiator is opened.

![Image of gas spring support with text: There’s gas spring support for the front cover of radiator, and it can auto-open when the rear cover of radiator is opened.]

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

![Image of energy accumulator with text: 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.]

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

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

![Image of aluminum radiator with text: The patent plated-fin type aluminum radiator is applied, the heat exchanging is approved, and improves the capability for operation in severe environments.]

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.

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1. The OPS 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.

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

- String Pole
- Drum clamp
- Bale clamp
- Rotating bale clamp
- Paper roll clamp

**Electronics**

- Cabin heater
- Standard seat
- Dipstick
- Oil filter
- Adjuster of steering wheel
- Smaller diameter steering wheel
- Air pre-cleaner
- High-efflcient exhaust muffler
- Safety filter
- Proportional control system
- Fuel gauge
- Reversing buzzer
- Horn

**Mast**

- Load release device
- Skidproof pedal
- Carton clamp
- Load distance, centre of drive axle to fork
- Hydraulics of lift
- Hydraulic oil inlet
- Emergency power off
- Side-valve

**Power**

- High-capacity air compressor
- Deluxe air cleaner
- Safety filter
- High-efflcient exhaust muffler
- High-efflcient exhaust muffler
- LCD display
- Horn
- Air filter with pre sensor
- Multi-function lever device
- Side-valve

**Transmission**

- Manual transmission
- Manual transmission
- Manual transmission
- Manual transmission
- Manual transmission
- Manual transmission
- Manual transmission
- Manual transmission

**Chassis**

- Full hydraulic power steering
- Smaller diameter steering wheel
- Adjustable steering wheel
- Power steering
- Integrated combination switch
- Pulsing valve
- Hydraulic oil inlet

**Control**

- Manual steering
- Manual steering
- Manual steering
- Manual steering
- Manual steering
- Manual steering
- Manual steering
- Manual steering

**Hydraulic**

- Standard side-view glass rear
- Standard forks
- Standard fork carriage
- Standard load back rest
-Standard seat
- Side-valve

**Turnig radius**

- Aisle width for pallets
- 31.5" x 47.3" lengthways
- Ground clearance, centre of wheelbase
- Fork-carriage width
- Overall width
- Length to face of forks
- Tread, rear
- Tyre size, rear

**Engine manufacturer/type**

- CPCD50-XW65G
- CPCD60-XW65G
- CPYD60-XW24
- FD70G

**turbo gas, petrol**

- 3.6
- 3.5
- 1.2
- 1.3

**Fork-carriage width**

- 8530/9100
- 28190/3830
- 20600
- 20300

**Overall width**

- 8530/9100
- 28190/3830
- 20600
- 20300

**Height to face of forks**

- 150
- 150
- 150
- 150

**Load distance, centre of drive axle to fork**

- 186
- 186
- 186
- 186

**Load to face of forks**

- 142
- 142
- 142
- 142

**Length to face of forks**

- 150
- 150
- 150
- 150

**Tread, rear**

- 67
- 67
- 67
- 67

**Tyre size, rear**

- 8.25-15-14PR
- 8.25-15-14PR
- 8.25-15-14PR
- 8.25-15-14PR

**Weight**

- 20600
- 20300
- 20300
- 20300

**Hydraulic XF series 11,000~15,500 lb forklift specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Fuel</th>
<th>Manufacturer</th>
<th>Engine manufacturer/type</th>
<th>Turning radius</th>
<th>Power</th>
<th>Hydraulics</th>
<th>Electronics</th>
<th>Mast</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPCD50-XW65G</td>
<td>Diesel</td>
<td>Hangzhou Group Co., Ltd.</td>
<td>Deutz TCD3.6 L4</td>
<td>8.25/15.4</td>
<td>20600</td>
<td>20300</td>
<td>20300</td>
<td>20300</td>
<td>20300</td>
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<td>20600</td>
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<td>20300</td>
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<tr>
<td>CPYD60-XW24</td>
<td>Diesel</td>
<td>Hangzhou Group Co., Ltd.</td>
<td>Deutz TCD3.6 L4</td>
<td>8.25/15.4</td>
<td>20600</td>
<td>20300</td>
<td>20300</td>
<td>20300</td>
<td>20300</td>
</tr>
<tr>
<td>FD70G</td>
<td>Diesel</td>
<td>Hangzhou Group Co., Ltd.</td>
<td>Deutz TCD3.6 L4</td>
<td>8.25/15.4</td>
<td>20600</td>
<td>20300</td>
<td>20300</td>
<td>20300</td>
<td>20300</td>
</tr>
</tbody>
</table>

**Options**

- Full cabin
- Cabin heater
- Front window
- Solid front fender
- Suspension seat
- Pin erection guide
- Special color
- Boot for lift cylinder
- Counter weight bar
- OPS system

**Power**

- Air pre-cooler
- Radiator screen
- Fan protector

**Hydraulic**

- Available hydraulic valve
- Electric hydraulic
- Proportional control system

**Electronics**

- Front working light
- Rear working light

**Mast**

- Triple side view (front side)
- Triple side view (rear side)
- Side fork carriage
- Under fork back rest

**Dimensions**

- Height
- 81.9
- 81.9
- 81.9
- 81.9

**Optional Attachments**

- Paper roll clamp
- Sideshifter
- Rotating bale clamp
- Rotating bits
- Fork extensrion
- Multi-drum clamp
- Load release device
- Bale clamp
- Carton clamp
- Drum clamp
- Push-pull device
- Bucket
- Crane arm
- Hook
- Sting Pole
- Weighted fork
### Standards

**Transmission**
- 10-speed transmission
- Smaller diameter steering wheel
- Adjuster of steering wheel
- Gear shift lever

**Chassis**
- Full hydraulic power steering
- Rubber pedal
- Engine Hou spring
- Dynamic load sensing control valve
- Hydraulic oil filter

**Control**
- Power steering
- Suspension pedal
- Integrated combination switch
- Parking brake

**Hydraulic**
- Hydraulic oil filter
- Tilt cylinder soft lock valve
- Hydraulic oil pipes
- Accumulator

**Electronics**
- Engine Hou spring
- Skidproof pedal
- Air filter with pressure sensor
- Air filter cruise
- Air filter back rest

**Mast**
- Seat height
- Height of overhead guard
- Height, mast extended
- Mast extendable
- Mast extendable fork carriage
- Triplex wide view free-lift mast
- Duplex wide view free-lift mast

### Options

**Truck**
- Track trailer
- Handbrake
- Standard seat
- Non-mark tyre (white/green)
- Traction device

**Power**
- Middle-positioned exhaust system
- High-efficient exhaust muffler
- Whirlwind air cleaner
- Big capacity aluminum radiator

**Hydraulic**
- Power steering
- Suspension pedal
- Integrated combination switch
- Parking brake

**Electronics**
- Hour meter
- High-efficient front lights
- Power steering

**Mast**
- Seat height
- Height of overhead guard
- Height, mast extended
- Mast extendable
- Mast extendable fork carriage
- Triplex wide view free-lift mast
- Duplex wide view free-lift mast

### Optional Attachments

- Paper roll clamp
- Sideshifter
- Rotating bale clamp
- Rotating forks
- Fork extender
- Multi-drum clamp
- Load release device
- Bale clamp
- Drum clamp
- Push pull device
- Bucket
- Crane arm
- Hook
- String Pole
- Lengthened fork

### XF series 11,000~15,500 lb forklift specification:

**XF-50**
- Load capacity: 5,000 lb
- Lift height: 120"
- Mast length: 100"
- Fork length: 48"
- Fork width: 15.5"

**XF-60**
- Load capacity: 6,000 lb
- Lift height: 120"
- Mast length: 100"
- Fork length: 48"
- Fork width: 15.5"

**XF-70**
- Load capacity: 7,000 lb
- Lift height: 120"
- Mast length: 100"
- Fork length: 48"
- Fork width: 15.5"
### 11,000~15,500 lb XF series mast: (pneumatic)

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Free Height</th>
<th>Load Capacity at 24 in</th>
<th>Double Tire Load Capacity, FWD/BWD</th>
</tr>
</thead>
<tbody>
<tr>
<td>XG7504500</td>
<td>129.9</td>
<td>15500</td>
<td>15500</td>
</tr>
<tr>
<td>XG7504600</td>
<td>139.0</td>
<td>15500</td>
<td>15500</td>
</tr>
<tr>
<td>XG7504800</td>
<td>150.5</td>
<td>15500</td>
<td>15500</td>
</tr>
<tr>
<td>XG7505000</td>
<td>161.4</td>
<td>14000</td>
<td>13800</td>
</tr>
<tr>
<td>XG7505002</td>
<td>161.4</td>
<td>14000</td>
<td>13800</td>
</tr>
</tbody>
</table>

With sideshifter minus 1102lbs, with integral sideshifter minus 882lbs.
11,000~15,500 lb XF series mast: (pneumatic)

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Load Capacity (lb)</th>
<th>Lift Range (°)</th>
<th>Capacity (lb)</th>
<th>Tilt Range (°)</th>
<th>Load Distance (in)</th>
<th>Free Lift (in)</th>
<th>Overall Height (in)</th>
<th>Height (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>11,000</td>
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<td></td>
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<td>15,500</td>
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</tr>
</tbody>
</table>

Note: The table above provides a summary of the lifting capacities and related specifications for the XF series mast models. The capacity is listed in pounds, and the tilt range, lift range, and load distance are specified in degrees and inches respectively. The overall height and height values are also detailed.
XF Series Diesel / LPG Pneumatic Tire Trucks

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