XF Series Diesel Pneumatic Tire Forklift

with capacities of 17,500 to 22,000lbs
In developing the XF 17500-22000lbs 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.

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 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.

The new design mast provides broad forward visibility due to outside located hydraulic pipes of fork positioner.
Simple/Solid/Smart

Comfortable Operation

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Environmentally friendly material, low exhaust emission, and low noise level, all these are considered at the beginning of the product development.

Special developed engine is applied for optimum balance of power and superior environmental performance. All diesel engines are in compliance with EU stage IV control regulation.

The environment friendly materials, such as non-asbestos brake shoe and new type sealing gasket, are adopted entirely to meet environmental safety.

Environmental Friendliness

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.

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

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Reliability

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

Safety

A wide range of technologies are applied to ensure absolute safety for both the operator and those in the surrounding. Independent braking and steering circuit without interference.

1. 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.

Easy Maintenance

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

Safety

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- Safety
  - A wide range of technologies are applied to ensure absolute safety for both the operator and those in the surrounding.
  - Independent braking and steering circuit without interference.
  - 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.
  - There’s gas spring support for the front cover of radiator, and it can auto-open when the rear cover of radiator is opened.

- 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.
  - Brake drum is installed outside of wheel hub, easy to remove and install when we replace the brake shoes.
  - 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.

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

- 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.

- The battery is located above the fuel tank, there’s battery box and adiabatic plate between them to prolong the battery’s working life.

- Add return oil filter of gearbox and multi-valve, improving the cleanliness of transmission and hydraulic oil.

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

- There’re four-level shock absorptions applied to reduce the vibration from the road to the driver. The damping pad is applied to reduce the vibration, like between the steering axle and the chassis. The engine, torque converter and the chassis, the overhead guard and the chassis. And the suspension seat is another vibration reduction.

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

- 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.

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  - The location of the air-filter is easy to reach, and it’s very easy to replace the filter.
  - Brake drum is installed outside of wheel hub, easy to remove and install when we replace the brake shoes.
  - 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.
## Standards

### Transmission
- Dumping clamp
- Drum clamp
- Bale clamp
- Multi-drum clamp
- Paper roll clamp

### Chassis
- Power steering
- Rubber pedal
- Engine hood spring
- Parking brake

### Control
- Power steering
- Suspension pedal
- Integrated combination switch

### Hydraulic
- Dynamic load sensing control valve
- Hydraulics of lifter
- Tilt cylinder soft lock valve
- Hydraulics of dozers
- Accumulator
- Hydraulics oil radiator

### Truck
- Counter weight net
- Special given color
- Extinguisher
- Super elastic tyre
- Floating cabin
- Pneumatic tyres
- Waterproof cover on the guard
- Traction device

### Transmission
- Wet brake
- Non-asbestos brake
- Oil cooler
- Oil filter
- Suspension transmission

### Mass
- Hook
- Load release device
- Rotating forks
- Sideshifter

### Electronics
- LED headlamp
- High-efficiency LED rear lights
- Charging indicator
- Engine fuel pressure warning
- Oil temperature
- Horn
- Neutral switch
- Reversing buzzer
- Air filter with jam sensor
- Side view
- Fork positioner

### Options
- Proportional control system
- Pneumatic tyres
- Hour meter
- Combination controller
- Service-free start battery
- High-efficient LED rear lights

### Optional Attachments
- Paper roll clamp
- Sideshifter
- Rotating bale clamp
- Rotating forks
- Fork extensor
- Multi-drum clamp
- Load release device
- Bale clamp
- Carton clamp
- Drum clamp
- Push-pull device
- Dumping clamp
- Bucket
- Crane arm
- Hook
- String Pole
- Lengthened fork

## 17500/22000lbs XF series mast: (pneumatic)

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Max. fork height</th>
<th>Lowered</th>
<th>Free-lift backhoe</th>
<th>Load-distance tele to fork</th>
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### Mast

- Mast up buffer device
- Tilt cylinder self-lock valve
- Mast down buffer device
- Standard forks
- Standard wide view duplex mast

### Power

- Whirlwind air cleaner
- High-capacity aluminum radiator
- High-positioned exhaust system
- High-efficiency intake muffler

### Control

- Engine fuel pressure warning
- Pre-heating indicator
- Warning lamp
- Rear working light
- Front working light
- Pre-heat indicator

### Electronics

- Integrated combination switch
- Suspension pedal
- Emergency power off
- Air-filter with jam sensor
- Reversing buzzer
- Horn

---

### Optional Attachments

- Paper roll clamp
- Sideshifter
- Rotating bale clamp
- Rotating forks
- Fork extensor
- Multi-drum clamp
- Load release device
- Bale clamp
- Carton clamp
- Drum clamp
- Push-pull device
- Dumping clamp
- Bucket
- Crane arm
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### Standards

**Transmission**
- Full hydraulic power steering
- Smaller diameter steering wheel
- Adjuster of steering wheel
- Door abutment of steering axle
- Power steering
- Suspension pedal
- Engine hood spring
- Power steering
- Integrated combination switch
- Parking brake
- Dynamic load sensing control valve
- Hydraulics of drive
- Tilt cylinder self-lock valve
- Hydraulics of digits
- Accumulator
- Hydraulics oil radiator

**Chassis**
- Rubber pedal
- Steering pedal
- Engine hood spring
- Parking brake
- Rubber pedal
- Engine hood spring
- Parking brake
- Rubber pedal
- Engine hood spring
- Parking brake

**Control**
- Electric control
- Combination control
- Service-free start battery
- Standard seat
- Pre-fixed indicator
- Standard seat
- Pre-fixed indicator
- Standard seat
- Pre-fixed indicator

**Hydraulic**
- Load stabilizer
- Rotating bale clamp
- Paper roll clamp
- Extinguisher
- Suspension seat
- Super elastic tyre
- Truck
- Standard seat
- Fan protector
- Power
- Big capacity aluminum radiator
- Engine hood spring
- Auxiliary hydraulic valve
- OES
- Combination control system
- Pre-fixed indicator
- Rear working light
- Working lamp

### Options

**Truck**
- Tool box
- Tool box
- Tool box
- Tool box

**Power**
- Big capacity aluminum radiator
- Standard seat
- Fan protector
- Power
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**Electronics**
- Pre-fixed indicator
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**Mast**
- Standard seat
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### Specifications

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## XF series 17500/22000lbs forklift specification

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<th>Specification</th>
<th>CPCD80-XW75G</th>
<th>CPCD100-XW75G</th>
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<td>HANGCHA GROUP CO., LTD.</td>
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<td><strong>Manufacturer’s type designation</strong></td>
<td>CPCD80-XW75G</td>
<td>CPCD100-XW75G</td>
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<tr>
<td><strong>Drive: electric (battery or mains), diesel, petrol, fuel gas</strong></td>
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<td><strong>Operator type: hand, pedestrian, standing, seated, order-picker</strong></td>
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<td><strong>Tyre size, rear</strong></td>
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<td><strong>Tread, rear</strong></td>
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<td><strong>Height, mast extended</strong></td>
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### Dimensions

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<th>CPCD100-XW75G</th>
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<td><strong>Ground clearance, laden, mast</strong></td>
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<td><strong>Ground clearance, centre of wheelbase</strong></td>
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### Technical details

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XF series 17500/22000lbs forklift specification:

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Manufacturer: Hangcha Group Co., Ltd.
XF Series Diesel Pneumatic Tire Forklift

with capacities of 17,500 to 22,000lbs