 XF Series 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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Environmental Friendliness

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. The LPG engine is in compliance with EPA Tier2 control regulation.

The environment friendly materials, such as non-asbestos brake shoe and new type sealing gasket, are adopted entirely to meet environmental safety. And the noise level is reduced 3dB too.

 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%.

15mm

Environmental Friendliness

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

The applied optimized exhaust muffler, intake muffler and the noise shield technologies are reduced 3dB at the driver’s ear noise level.

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Reliability

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

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.

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

Safety

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

1. 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.

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

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.

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

There’s 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 axe and the chassis, The engine, torque convertor and the chassis, the overhead guard and the chassis. And the suspension seat is another vibration reduction.

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

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 operator in severe environment. And the famous brand air filter is also applied in the truck.

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

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

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

### Transmission
- Full hydraulic power steering
- Tilt/shift pedal
- Power steering
- Rubber pedal
- Engine back spring
- Dynamic load-sensing control valve
- Hydraulic oil filter
- Tilt cylinder self-lock valve
- Hydraulic oil dipstick
- Engine hood spring
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- Dynamic load sending control valve

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### Chassis
- Water temperature gauge
- Hour meter
- Neutral switch
- LCD display
- Service-free start battery
- High-efficient LED rear lights
- High-efficient front lights
- Engine fuel pressure warning
- Charging indicator
- Pre-heat indicator
- Warning lamp
- Rear working light
- Front working light

### Electronics
- Emergency power off
- Air-filter with jam sensor
- Oil temperature
- Engine manufacturer/type
- Diesel engine
- Engine ISO 8528-1
- Fuel saver
- Electric power steering
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### Hydraulics
- Mast down buffer device
- Load safety valve
- Mast speed limiting valve
- Standard load back rest
- Standard fork carriage
- Standard forks

### Mast Electronics
- Widerload back rest
- Wider fork carriage
- Free-lift mast
- Duplex wide view

### Truck
- Japanese drum brake
- Side brake
- Engine exhaust system
- Air pre-cleaner
- Net cover of radiator
- Spark arrester
- Fan protector
- Pre-heat indicator
- Warning lamp
- Rear working light
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### Power
- Big capacity aluminum radiator
- Alkaline cooling system
- High-efficient front lights
- High-efficient front brake muffler
- High-efficient rear brake muffler
- High-efficient exhaust muffler
- High-efficient intake muffler
- High-efficient exhaust system
- Pneumatic tyres
- Back view mirror
- Rear view mirror
- Non-marking tyres
- Fan protector
- Spark arrester
- Net cover of radiator
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- Engine hood spring
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### Power Transmission
- Towing coupling, type DIN 15170
- Operating pressure for attachments
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### Optional Attachments
- Paper roll clamp
- Sideshifer
- Rotating bale clamp
- Rotating forks
- Fork extennder
- Multi-drum clamp
- Bale clamp
- Carton clamp
- Drum clamp
- Push-pull device
- Bucket
- Crane arm
- Hook
- String Pile
- Lengthened fork

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

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<table>
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<th>Transmission</th>
<th>Steering</th>
<th>Chassis</th>
<th>Control</th>
<th>Hydraulic</th>
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</table>

## Truck

<table>
<thead>
<tr>
<th>Power</th>
<th>Electronics</th>
<th>Mast</th>
</tr>
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<tbody>
<tr>
<td>J: Traction device</td>
<td>J: Engine</td>
<td>J: Mast up buffer device</td>
</tr>
<tr>
<td>J: Hydraulics</td>
<td>J: Power steering</td>
<td>J: Load safety valve</td>
</tr>
<tr>
<td>J: Standard seat</td>
<td>J: Charging</td>
<td>J: Mast speed limiting valve</td>
</tr>
<tr>
<td>J: Standard mirror</td>
<td>J: Oil pressure</td>
<td>J: Standard fork carriage</td>
</tr>
<tr>
<td>J: Wheelbase cover</td>
<td>J: Air temperature</td>
<td>J: Standard fork carriage</td>
</tr>
<tr>
<td>J: Back view mirror</td>
<td>J: Smoke</td>
<td>J: Standard fork carriage</td>
</tr>
<tr>
<td>J: Air suspension</td>
<td>J: Air filter</td>
<td>J: Standard fork carriage</td>
</tr>
<tr>
<td>J: Tool box</td>
<td>J: Alarm</td>
<td>J: Standard fork carriage</td>
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## Options

<table>
<thead>
<tr>
<th>Truck</th>
<th>Transmission</th>
<th>Power</th>
<th>Electronics</th>
<th>Mast</th>
</tr>
</thead>
<tbody>
<tr>
<td>J: Cabins heater</td>
<td>J: Air pre-cleaner</td>
<td>J: Spark arrestor</td>
<td>J: Mast speed-up</td>
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<tr>
<td>J: Front window</td>
<td>J: Oil cooler</td>
<td>J: Engine</td>
<td>J: Mast up buffer device</td>
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<tr>
<td>J: Suspension seat</td>
<td>J: Special function</td>
<td>J: Engine</td>
<td>J: Standard fork carriage</td>
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<tr>
<td>J: Special given color</td>
<td>J: Chain tension</td>
<td>J: Engine</td>
<td>J: Standard fork carriage</td>
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## Optional Attachments

|---------------------|--------------------------------|-----------------------|---------------------------|

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Performance data</th>
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<tr>
<td></td>
<td></td>
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<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Data</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td></td>
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<table>
<thead>
<tr>
<th>Specifications</th>
<th>Data</th>
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<tr>
<td>Transmission</td>
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<tr>
<td>Power</td>
<td>110-130, 110-130, 110-130</td>
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<tr>
<td>Speed</td>
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<td>No. of cylinders</td>
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<tr>
<td>Operating pressure</td>
<td>120-140, 120-140, 120-140</td>
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<td>Oil standard for attachment</td>
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<td>Average monthly fuel consumption</td>
<td>12-14, 12-14, 12-14</td>
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## 11,000~15,500 lb XF series mast: (pneumatic)

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Mast Height</th>
<th>Counterbalance Height</th>
<th>Fork Height</th>
<th>Lift Range</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(in)</td>
<td>(in)</td>
<td>(in)</td>
<td>(°)</td>
<td>(lb)</td>
</tr>
<tr>
<td>X50/70P400</td>
<td>129.9</td>
<td>104.4</td>
<td>208</td>
<td>108.3</td>
<td>6.3</td>
<td>235/238</td>
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<tr>
<td>X50/70P460</td>
<td>146.7</td>
<td>119.2</td>
<td>208</td>
<td>108.5</td>
<td>6.3</td>
<td>235/238</td>
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<tr>
<td>X50/70H460</td>
<td>157.5</td>
<td>118.1</td>
<td>204</td>
<td>110.3</td>
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<td>235/238</td>
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<tr>
<td>X50/70H500</td>
<td>177.2</td>
<td>130.2</td>
<td>205</td>
<td>110.6</td>
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</tr>
<tr>
<td>X50/70P500</td>
<td>186.8</td>
<td>139.8</td>
<td>206</td>
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<td>X50/70N500</td>
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<td>58/52.6</td>
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</tr>
<tr>
<td>X50/70N600</td>
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<td>X50/70N700</td>
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<td>X50/70N760</td>
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<td>X50/70N900</td>
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<td>217.1</td>
<td>157</td>
<td>104.3</td>
<td>58/52.6</td>
<td>51.7</td>
</tr>
</tbody>
</table>

### Load Capacity at 24 in

- **Load distance, centre of drive axle to fork FWD/BWD:**
  - With backrest: 11000 lb
  - Without backrest: 10400 lb

### Lift Range and Capacity

- **LIFTING HEIGHT: ≤196.8 in**
  - 14500 lb
- **LIFTING HEIGHT: 216.5 in**
  - 14000 lb
- **LIFTING HEIGHT: 236.2 in**
  - 13500 lb
- **LIFTING HEIGHT: 256.2 in**
  - 12000 lb
- **LIFTING HEIGHT: 276.2 in**
  - 11000 lb
- **LIFTING HEIGHT: 296.2 in**
  - 10000 lb
- **LIFTING HEIGHT: 316.2 in**
  - 9000 lb
- **LIFTING HEIGHT: 336.2 in**
  - 8000 lb
- **LIFTING HEIGHT: 356.2 in**
  - 7000 lb
- **LIFTING HEIGHT: 376.2 in**
  - 6000 lb
- **LIFTING HEIGHT: 396.2 in**
  - 5000 lb
- **LIFTING HEIGHT: 416.2 in**
  - 4000 lb
- **LIFTING HEIGHT: 436.2 in**
  - 3000 lb
- **LIFTING HEIGHT: 456.2 in**
  - 2000 lb
- **LIFTING HEIGHT: 476.2 in**
  - 1000 lb

### Additional Notes:

- **Max. Fork Height:**
  - Lowered: 129.9 in
  - Extended: 157.5 in

- **Free Lift Overall Height:**
  - X50/70M330: 155.7 in
  - X50/70M360: 167.5 in
  - X50/70M400: 179.3 in
  - X50/70M450: 195.1 in
  - X50/70M500: 225.8 in
  - X50/70M550: 237.6 in
  - X50/70M600: 244.6 in

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<th>Tilt range</th>
<th>Lift capacity at 24 in</th>
<th>Load distance, centre of drive axle to fork FWD/BWD</th>
<th>Max. fork height</th>
<th>Lowered Free lift</th>
<th>Overall height</th>
</tr>
</thead>
<tbody>
<tr>
<td>XG70M330</td>
<td>12°</td>
<td>13,500 lb</td>
<td>13,500 lb</td>
<td>137.2</td>
<td>102.4</td>
<td>155.0</td>
</tr>
<tr>
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<tr>
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XF Series LPG Pneumatic Tire Trucks

with capacities of 11,000 to 15,500lbs