XF Series LPG Cushion Tire Forklift

with capacities of 3,000 to 6,500lbs
CONCEPT

XF series LPG cushion tire forklift is developed on basis of existing XF series by Hangcha, with world-leading technologies, a world-class forklift that can meet your demand in all dimensions thanks to the overall upgrading in appearance modeling, energy conservation and environmental protection, comfort, safety, and reliability. Application of new technologies including load-sensing hydraulic system, energy-efficient lighting system, low-emission engine, effective noise and vibration control, and brand-new control system offers higher efficiency and lower cost for your work.

LED lighting system and environmentally-friendly materials for entire truck

LED lights are applied for entire truck. It saves power and energy, with significantly increased performance and service life of lights.

Environmentally-friendly materials are applied for the entire truck to minimize damage to environment.

Visualized LCD instrument panel

Newly developed LCD meters have more complete functions and more stable performance. Important information including running status of the entire truck and failure of the engine (electronically controlled engine) can be displayed completely, so that the operator can understand status of the truck in a visualized manner, for easy maintenance.

Suspension Seat

57.1 INCHES

Short Wheelbase
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57.1 INCHES
New generation of integrated electrical box

The new generation of integrated electrical box is applied, with reasonable layout, easy for service and maintenance, with better waterproof performance.

The entire truck is equipped with waterproof connectors, with increased waterproof performance.

Cooling system of optimized design

Aluminum plate-fin radiator of stronger cooling performance and higher structural strength is applied, with independent oil radiator, optimized heat transfer channel, and counterweight with dual-hole ventilation, which improve cooling efficiency substantially, increase reliability for heavy-load operation, and guarantee reliable work of the engine.

Reliable hydraulic system

Optimized hydraulic breather structure, with built-in return oil filter, increases service life of hydraulic oil system.

Load-sensing hydraulic steering system is highly energy efficient.

Safety lock for engine hood

It is safe for driving by the operator, and can be opened easily.

Full-view rear view mirror

Full-view rear view mirror provides wider rear view, safer for operation.

Wide-view mast offering better visibility

New type of steel channels and mast system of brand-new design are applied to increase visibility in front of the driver.

Low LPG fuel warning indicator

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Low LPG fuel warning indicator

Safety lock for engine hood
High-strength suspension overhead guard

The overhead guard is fabricated with specially-shaped steel tubes, with high strength; integral overhead guard, easy for repair and disassembly; flexible connection is applied between overhead guard and truck frame, with small vibration, which increases operator comfort substantially.

Large hand grip

Large hand grip of optimized design enables easier access to the truck.

Steering axle

Large-sized conical bearing is applied at master pin of the steering axle, together with a large-diameter steering cylinder, and buffer blocks at top, which increase reliability of the steering axe substantially.

New steering wheel adjusting mechanism

Small-diameter steering wheel and electro-hydraulic steering (hydraulic transmission) design, and car-like combination switch of double handles, increase operator comfort substantially.

North America certified engine

High power and high torque, favorable clean emission; and excellent fuel economy;

Emission standard of the engine is in compliance with EPA/CARB Tier2;

Electronically controlled engine.

Tilt-back LP bracket (3000~3500lbs Opt.)

Tilt-back cylinder holder is easy for replacing LPG cylinder and opening engine hood for maintenance.

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.

Hood plate

with large open angle

The hood plate has a large open angle, easy for maintenance.
High-strength suspension overhead guard

The overhead guard is fabricated with specially-shaped steel tubes, with high strength; integral overhead guard, easy for repair and disassembly; flexible connection is applied between overhead guard and truck frame, with small vibration, which increases operator comfort substantially.

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High-strength suspension overhead guard

The overhead guard is fabricated with specially-shaped steel tubes, with high strength; integral overhead guard, easy for repair and disassembly; flexible connection is applied between overhead guard and truck frame, with small vibration, which increases operator comfort substantially.
Standard Configuration

- Traction unit
- Small-capacity steering wheel
- Integrated combination switch
- Extended hand grip
- Steering wheel adjusting device
- Cable-type parking brake (with self-lock)
- Suspension seat with safety belt
- Large-capacity aluminum radiator
- Dynamic load sensing system
- Suspension integral overhead guard
- Whirlwind high-efficiency air filter
- Hydraulic oil suction filter element
- Roof
- Safe filter element
- Inclined oil way latching valve
- Full-view rear view mirror
- High-efficiency exhaust muffler
- Hydraulic oil dipstick
- High-performance tie rod
- Access tight safe step
- High-efficiency LED combination front lamp
- Large rubber pedal pad
- Full floating transmission
- Steering wheel adjusting device
- Maintenance-free battery
- Transmission oil filter element

- Hydraulic oil return oil filter element
- Combined LCD meters
- Gearbox dipstick
- Engine hood spring
- Integrated controller
- Gearbox oil cooler
- File folder
- Alarm light
- Non-asbestos brake
- Electro-hydraulic steering
- Charging reminder
- Load-sensing steering system
- Suspension operation pedal
- Oil gauge
- Water thermometer
- Cup holder
- Preheating indicator
- Standard fork
- Timer
- Standard carriages
- Engine oil pressure alarm
- Steering wheel adjusting device
- Maintenance reminder
- Load safety valve

- Horn
- Soft landing system
- Reversing buzzer
- Mast lifting buffer device
- Tilt piston rod jacket
- Fan protector
- Reversing assist grip with horn button
- Front acoustic hood of steering wheels
- Low LPG fuel warning indicator
- Double soundproof pad of hood
- Swing-out LP bracket (4000-6500lbs)
- Speed control switch
- Smooth cushion tire
- Tilt back LP bracket (3000-3500lbs)

Options

- Customized paint color
- LED rear work light
- Auxiliary hydraulic valve group
- Over-speed alarm
- Engine hood lock
- Fire extinguisher
- OPS system
- High-low overhead guard
- Radiator screen
- Pre-cleaner
- Blue spot light
- Counter weight net
- Swing-down LP bracket (4000-6500lbs)
- Traction cushion type
- Smooth Non-making cushion type
- Belly pan

Special Mast Devices

- Duplex wide-view full-free mast
- Triplex wide-view full-free mast
- Special dual-view wide-view mast
- Wide carriage
- Special fork

Optional Accessories

- Paper roll clamp
- Side-shift fork
- Rotating flat clamp
- Rotating fork
- Load stabilizer
- Fork extension
- Multi-drum clip
- Load release device
- Bale clamp
- Carton clamp
- Oil barrel clamp

Horn
- Soft landing system
- Reversing buzzer
- Mast lifting buffer device
- Tilt piston rod jacket
- Fan protector
- Reversing assist grip with horn button
- Front acoustic hood of steering wheels
- Low LPG fuel warning indicator
- Double soundproof pad of hood
- Swing-out LP bracket (4000-6500lbs)
- Speed control switch
- Smooth cushion tire
- Tilt back LP bracket (3000-3500lbs)

3000-3500lbs XF series mast (Cushion)

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Fork Height</th>
<th>Lowered</th>
<th>Tilted</th>
<th>Tripod</th>
<th>Load Capacity at 24 in (600mm) Front Fork Tip Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSH50A2</td>
<td>60.4 (1530)</td>
<td>60.4 (1530)</td>
<td>60.4 (1530)</td>
<td>60.4 (1530)</td>
<td>60.4 (1530)</td>
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<tr>
<td>XSH50A3</td>
<td>63.0 (1600)</td>
<td>63.0 (1600)</td>
<td>63.0 (1600)</td>
<td>63.0 (1600)</td>
<td>63.0 (1600)</td>
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<tr>
<td>XSH50A4</td>
<td>65.6 (1670)</td>
<td>65.6 (1670)</td>
<td>65.6 (1670)</td>
<td>65.6 (1670)</td>
<td>65.6 (1670)</td>
</tr>
<tr>
<td>XSH50A5</td>
<td>68.2 (1740)</td>
<td>68.2 (1740)</td>
<td>68.2 (1740)</td>
<td>68.2 (1740)</td>
<td>68.2 (1740)</td>
</tr>
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</table>

4000-5000lbs XF series mast (Cushion)

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Fork Height</th>
<th>Lowered</th>
<th>Tilted</th>
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<td>60.4 (1530)</td>
</tr>
<tr>
<td>XSH50A3</td>
<td>63.0 (1600)</td>
<td>63.0 (1600)</td>
<td>63.0 (1600)</td>
<td>63.0 (1600)</td>
<td>63.0 (1600)</td>
</tr>
<tr>
<td>XSH50A4</td>
<td>65.6 (1670)</td>
<td>65.6 (1670)</td>
<td>65.6 (1670)</td>
<td>65.6 (1670)</td>
<td>65.6 (1670)</td>
</tr>
<tr>
<td>XSH50A5</td>
<td>68.2 (1740)</td>
<td>68.2 (1740)</td>
<td>68.2 (1740)</td>
<td>68.2 (1740)</td>
<td>68.2 (1740)</td>
</tr>
</tbody>
</table>

- 3000-3500lbs XF series mast (Cushion)
  - Model: XSH50A2, XSH50A3, XSH50A4, XSH50A5
  - Max. Fork Height: 60.4 (1530), 63.0 (1600), 65.6 (1670), 68.2 (1740)
  - Lowered Height: 60.4 (1530), 63.0 (1600), 65.6 (1670), 68.2 (1740)
  - Tilted Height: 60.4 (1530), 63.0 (1600), 65.6 (1670), 68.2 (1740)
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/ Integrated combination switch
/ Extended hand grip
/ Steering wheel adjusting device
/ Cable-type parking brake (with self-lock)
/ Suspension seat with safety belt
/ Large-capacity aluminum radiator
/ Dynamic load sensing system
/ Suspension integral overhead guard
/ Whirlwind high-efficiency air filter
/ Hydraulic oil suction filter element
/ Roof
/ Safe filter element
/ Inclined oil way latching valve
/ Full-view rear view mirror
/ High-efficiency exhaust muffler
/ Hydraulic oil dipstick
/ High-performance tie rod
/ Access/exit safe step
/ High-efficiency LED combination front lamp
/ Large rubber pedal pad
/ Full-floating transmission
/ Steering wheel adjusting device
/ Maintenance-free battery
/ Transmission oil filter element

/ Hydraulic oil return oil filter element
/ Combined LCD meters
/ Gearbox dipstick
/ Engine hood spring
/ Integrated controller
/ Gearbox oil cooler
/ File folder
/ Alarm light
/ Non-asbestos brake
/ Electro-hydraulic steering
/ Charging reminder
/ Load-sensing steering system
/ Suspension operation pedal
/ Oil gauge
/ Full-view rear view mirror
/ Cup holder
/ Preheating indication
/ Standard fork
/ Timer
/ Standard carriage
/ Engine oil pressure alarm
/ Gearbox oil temperature alarm
/ Maintenance reminder
/ Load safety valve

/ Horn
/ Soft landing system
/ Reversing buzzer
/ Mast lifting buffer device
/ Tilt piston rod jacket
/ Fan protector
/ Reversing assist grip with horn button
/ Front acoustic hood of steering wheels
/ Low LPG fuel warning indicator
/ Double soundproof pad of hood
/ Swing-out LP bracket (4000-6500lbs)
/ Speed control switch
/ Smooth cushion tyne
/ Tilt back LP bracket (3000-3500lbs)

Options

/ Customized paint color
/ LED rear work light
/ Auxiliary hydraulic valve group
/ Over-speed alarm
/ Engine hood lock
/ Fire extinguisher
/ OPS system
/ High-low overhead guard
/ Radiator screen
/ Pre-cleaner
/ Blue spot light
/ Counter weight net
/ Swing-down LP bracket (4000-6500lbs)
/ Traction cushion tyne
/ Smooth Non-marking cushion tyne
/ Belly pan

Special Mast Devices

/ Duplex wide-view full-free mast
/ Triplex wide-view full-free mast
/ Special dualpex wide-view mast
/ Wide carriage
/ Special fork

Optional Accessories

/ Paper roll clamp
/ Side-shift fork
/ Rotating flat clamp
/ Rotating fork
/ Crane arm
/ Load stabilize
/ Fork extension
/ Multi-drum clamp
/ Load release device
/ Bale clamp
/ Carton clamp
/ Oil barrel clamp

4000-5000lbs XF series mast:(Cushion)

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<tr>
<th>Type</th>
<th>Model</th>
<th>Max. Load (lbs)</th>
<th>Lowers (°)</th>
<th>Trans (°)</th>
<th>Full Floating (°)</th>
<th>Height Lowered (in)</th>
<th>Capacity (lbs)</th>
<th>Height Lowered (in)</th>
<th>Capacity (lbs)</th>
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</tr>
<tr>
<td></td>
<td>4000-5000</td>
<td>3800 (1625)</td>
<td>3900 (1760)</td>
<td>4400 (1995)</td>
<td>3500 (1580)</td>
<td>3000 (1350)</td>
<td>3000 (1350)</td>
<td>3000 (1350)</td>
<td>3000 (1350)</td>
</tr>
<tr>
<td></td>
<td>4000-5000</td>
<td>4000 (1815)</td>
<td>4100 (1890)</td>
<td>4600 (2095)</td>
<td>3700 (1680)</td>
<td>3200 (1450)</td>
<td>3200 (1450)</td>
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3000-3500lbs XF series mast:(Cushion)

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Max. Load (lbs)</th>
<th>Lowers (°)</th>
<th>Trans (°)</th>
<th>Full Floating (°)</th>
<th>Height Lowered (in)</th>
<th>Capacity (lbs)</th>
<th>Height Lowered (in)</th>
<th>Capacity (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3000-3500</td>
<td>2800 (1300)</td>
<td>2900 (1350)</td>
<td>3400 (1550)</td>
<td>2500 (1125)</td>
<td>2000 (900)</td>
<td>2000 (900)</td>
<td>2000 (900)</td>
<td>2000 (900)</td>
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<tr>
<td></td>
<td>3000-3500</td>
<td>3000 (1400)</td>
<td>3100 (1450)</td>
<td>3600 (1700)</td>
<td>2800 (1250)</td>
<td>2200 (975)</td>
<td>2200 (975)</td>
<td>2200 (975)</td>
<td>2200 (975)</td>
</tr>
<tr>
<td></td>
<td>3000-3500</td>
<td>3000 (1400)</td>
<td>3100 (1450)</td>
<td>3600 (1700)</td>
<td>2800 (1250)</td>
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<td>2200 (975)</td>
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</tr>
</tbody>
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### 6000-6500lbs XF series mast (Cushion)

- **Model**: XF series LPG cushion tire forklift truck 3000-6500lbs specification

#### XF series LPG cushion tire forklift truck 3000-6500lbs specification

<table>
<thead>
<tr>
<th>Model</th>
<th>XFC30M360</th>
<th>XFC30M330</th>
<th>XFC30M300</th>
<th>XFC30M250</th>
<th>XFC30N600</th>
<th>XFC30N500</th>
<th>XFC30N400</th>
<th>XFC30U400</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>XFC30M360</td>
<td>XFC30M330</td>
<td>XFC30M300</td>
<td>XFC30M250</td>
<td>XFC30N600</td>
<td>XFC30N500</td>
<td>XFC30N400</td>
<td>XFC30U400</td>
</tr>
<tr>
<td><strong>Max. Fork Length</strong></td>
<td>101.2 (2570)</td>
<td>116.9 (2970)</td>
<td>93.3 (2370)</td>
<td>89.3 (2270)</td>
<td>79.5 (2020)</td>
<td>85.4 (2170)</td>
<td>79.5 (2020)</td>
<td>87.4 (2220)</td>
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<tr>
<td><strong>Width</strong></td>
<td>57.9 (1470)</td>
<td>64.4 (1635)</td>
<td>52.6 (1335)</td>
<td>42.7 (1085)</td>
<td>42.7 (1085)</td>
<td>42.7 (1085)</td>
<td>42.7 (1085)</td>
<td>42.7 (1085)</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>281.8 (7155)</td>
<td>261.6 (6645)</td>
<td>234.1 (5945)</td>
<td>230.1 (5845)</td>
<td>222.2 (5645)</td>
<td>182.9 (4645)</td>
<td>123.8 (3145)</td>
<td>234.1 (5945)</td>
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<tr>
<td><strong>Drawbar pull, laden/unladen</strong></td>
<td>5.3 (135)</td>
<td>5.3 (135)</td>
<td>5.3 (135)</td>
<td>5.3 (135)</td>
<td>5.3 (135)</td>
<td>5.3 (135)</td>
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<tr>
<td><strong>Wheelbase</strong></td>
<td>5.7 (145)</td>
<td>5.6 (145)</td>
<td>5.6 (145)</td>
<td>5.6 (145)</td>
<td>5.6 (145)</td>
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</tr>
</tbody>
</table>

### XF series LPG Cushion tire forklift truck 3000-6500lbs specification

- **Engine**
  - **Type**: LPG
  - **hp (kW)**: 38.5 (28.8)

- **Transmission**
  - **Type**: Mechanical
  - **Speeds**: 4.9

- **Power Source**: LPG

- **Electrical system voltage**: 98.4 (2500)

- **Battery voltage capacity**: 155.7 (3955)

- **Load capacity at 24 in (600mm)**
  - Front: 6500 (2950)
  - Rear: 6500 (2950)

- **Operational range**: 3.6

- **Overall height**: 65.9 (1675)

- **Weight**:
  - **Dry weight**: 63.1 (1635)

- **Engine power**: 55.0 (40.5)

- **Battery voltage capacity**: 5.3 (135)

- **Transmission**: Mechanical

- **Operational range**: 3.6

- **Overall height**: 65.9 (1675)

- **Weight**:
  - **Dry weight**: 63.1 (1635)
XF series mast (Cushion)

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Fork Length</th>
<th>Lowered</th>
<th>Lifted</th>
<th>Max. Weight</th>
<th>Side overhang</th>
<th>Max. Weight</th>
<th>Outlet Diameter</th>
<th>Fill Capacity (gals)</th>
<th>Gross Capacity (gals)</th>
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<td>9.5</td>
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<td>19.7</td>
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XF series LPG cushion tire forklift truck 3000-6500lbs specification

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<thead>
<tr>
<th>Model</th>
<th>Forklift Time</th>
<th>Lift Capacity</th>
<th>Rated Capacity</th>
<th>Rated Load</th>
<th>Operator Type</th>
<th>Axle Loading, Laden Front/rear</th>
<th>Ground Clearance, Laden Front/rear</th>
<th>Fork Carriage Width</th>
<th>Fork-Height Range</th>
<th>Wheelbase</th>
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<tr>
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<td>6000 lbs</td>
<td>6000 lbs</td>
<td>6000 lbs</td>
<td>Standing</td>
<td>5500 lbs</td>
<td>16500 lbs</td>
<td>81.7 (2075)</td>
<td>5.3 (135)</td>
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Fuel tank capacity (gal) = 110/118 (0.56/0.60)
XF Series LPG Cushion Tire Forklift

with capacities of 3,000 to 6,500lbs