

# J Series

4.0/4.5/5.0 T  
Electric Forklift

## Standard Feature

- AC drive system
- Front wheel & Rear wheel pneumatic tyres
- High capacity storage battery
- Emergency disconnect switch
- Rubber floor mat
- 2 Spools control valve
- Locked spring gas
- Front combined lamp
- 3 meters 2-stage mast
- Adjustable steering column
- Rearview mirror
- Drive, lift, steering controlled
- Rear combined lamp
- Beeper
- Toolbox and file folder
- Hour meter, self-diagnose indicator

## Optional Feature

- 4.3-6 meters 3-stage mast
- 2.5-4.5 meters 2-stage mast
- With attachment
- Other dimension forks
- High capacity battery
- Special carriage and backrest
- Solid tyre
- No mark solid tyre
- Battery charger



CE CERTIFICATE



ISO14001: 2004



ISO9001: 2000



ZHEJIANG HANGCHA ENGINEERING MACHINERY CO.,LTD.  
(ZHEJIANG HANGCHA IMP. & EXP. CO.,LTD.)

[www.hcforklift.com](http://www.hcforklift.com)

Add: 398 Shi Qiao Road, Hangzhou 310022, P.R.China  
Tel: +86-571-88135110 88126376 88135220 88125527 88130499(Ext. 8116, 8206, 8200)  
Fax: +86-571-88132890 88126379  
E-mail: [sales@hcforklift.com](mailto:sales@hcforklift.com)



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ZHEJIANG HANGCHA ENGINEERING MACHINERY CO.,LTD.

durable, clean: **HYDRAULICS**  
simple, comprehensive: **PANEL**  
optimised, powerful: **BATTERIES**

### **CONTROLLER**

New Multi-Display employed full-dotted LCD is located on the steering column to improve visibility and manipulate-ability. Well fitted with convenient functions, such as battery level indicator, truck operation records, passwords entry and so on. While traveling, displays travel speed and BDI (Battery Discharge Indicator), while stopping, displays clock, Multi-display shows appropriate information under various situations.

DANAHER MOTION made high-frequency controller incorporates a powerful microprocessor together with MOSFET power electronics. It controls all truck movements precisely with high energy efficiency at low noise level- from smooth, sensitive inching to powerful acceleration and regenerative braking.

The new controller also offers sophisticated communication facilities and built-in diagnostics to reduce downtime. All electronics are housed inside the chassis body to protect them from external damage.

### **DRIVE TRAIN**

#### **AC Power System**

Multiple benefits of the AC Power System include: fast response to operating commands, precise power control, compact components. Moreover, since the AC motor does not use contactors and brushes, these maintenance items will no longer be required. It also allows for a revolutionary new forklift design and performance so enhanced the operator can actually feel the difference.



### **CHASSIS**

A fully enclosed chassis frame houses the drive motors. The hydraulic and drive components are protected against dirt and water. Due to their compact design, these trucks are exceptionally robust.

Main electric equipments are placed inside of operator compartment. You can access to main pump motor, oil tank by opening left and right cover hood.

No tools are required remove floor plate.

### **STEERING**

Rear axle with integrated steering cylinder suspended in the chassis with bearings for constant floor contact of all four wheels. It provides appropriate swinging limit of the steering axle and gives greater cornering stability.

Hydraulic power steering, combined with drive-motor system, gives superb maneuverability with low noise level and low energy consumption. The low steering force required, further enhances operator comfort.

### **Brakes**

The J series four-wheel truck has three independent braking systems:

- Regenerative braking system
- Front wheel brake drum system
- Toggle-type parking brake

#### **Three Types of Regenerative Systems (AC)**

■ When accelerator is released  
Regenerative braking operates when the accelerator pedal is released during travel to collect the electrical power created. It also acts much like "engine braking" to slow the speed of the forklift.

- During switch back

Regenerative braking operates during travel whenever the direction lever is switched from forward to reverse (or vice versa).

- During braking

Regenerative braking operates whenever the brake pedal is depressed during travel. The regenerative system also helps to reduce brake lining wear and helps extend operating time per charge.



simple. Easy: **SERVICE**  
 AC: **MOTORS**  
 state of the art: **ELECTRONICS**  
 strong, wide, clear view: **MASTS**

### OPERATOR'S COMPARTMENT

A low step provides easy, comfortable access to the ergonomically designed compartment. The adjustable steering column and driver's seat ensure a comfortable working position.

Hydraulic levers can be mounted on either scuttle or beside the battery, allowing access from either side. Two strong grab handles are provided.

Lower step makes easy entry and exit. A clear foot well with well-placed pedals gives plenty of room for large feet and helps the driver work safely. This will be much appreciated by operators who have to get on and off of the forklift frequently.



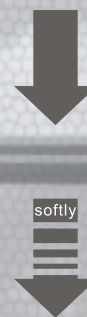
Comfortable seat can be upgraded to a luxury semi-suspension version.



Safe and easy access is assured by a large, non-slip step and grab handle.

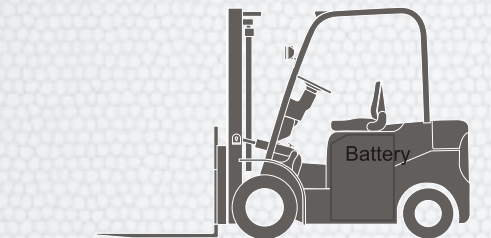
### SOFT LANDING LIFT CYLINDER

During lowering fork with no load, fork speed is reduced just before touching ground to avoid collision noise with ground. The operator and those working near the forklift will appreciate the reduced noise.



### BATTERY

Battery is dropped down to the lowest part of frame. This concept gives truck firm stability while it is traveling. By using relocating the battery under the cover hood, it reduces operator fatigue and makes the truck's overall dimensions smaller.



Because you open and close the battery cover for daily checkup, access of battery cover is improved by using gas-spring with lock function.



### INTRODUCTION

The distinctive features of the new 4.0-5.0t J series electric Four-wheel counterbalanced forklift are the following:

- Versatility of use due to compact design and minimal operating space requirements. Compact dimensions combined with superb maneuverability.
- High stability, both when stationary and cornering, due to long wheelbase, low centre of gravity and wide tyres.
- Economy of operation, resulting from minimized maintenance costs, e.g. fully enclosed 3 phase AC asynchronous motors with high degree of efficiency maintenance free for life.

**F**or more than 30 years, **Zhejiang Hangcha Engineering Machinery CO., LTD.** Has played a leading role in the manufacture and production of Chinese forklift industry. We constantly strive to develop and incorporate the latest advances in forklift design and technology to ensure that our products provide an optimum level of performance, all the time. Our new generation J series of forklifts truly exemplifies this commitment to excellence.

