Electric Three－wheel Forklift

Standard Feature

## Optional Feature

－AC drive system
AC drive system
－ $4.3-6$ meters 3 －stage mast
2．5－4．5 meters 2 －stage mast
With attachment
Option fork
High capacity ba
Spead carriage


ISO14001： 1996
Rmergency disconnect switch
Rubber floor mat
2 Spools control valve
Locked spring gas
Front combined lam
－ 3 meters 2－stage mast
－Adjustable steering column
－Rearview mirror
－Drive，lift，steering controlled
－Beeper
－Toolbox and file folder
－Hour meter，self－diagnose indicator


ISO9001： 2000

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CHASSIS \& HYDRAULICS
A fully enclosed chassis frame houses the drive motors. The hydraulic and drive component
against dirt and water.
For long, leak-free service it is critical to keep the hydraulic system clean. The $J$ servies has high quality cylinders and hard chrome burnished and polished rods to reduce burnished and polished rods to reduce seal wear for long life
To keep the fluid clean the $J$ has a full-flow low pressure filter on the return line.
Cleanliness minimises seal and pump wear and keeps the contro alve in good, trouble free, condition

## Brakes

The J series three-wheel truck ha three independent braking systems - Regenerative braking system - Hydraulic wet disc brake system - Toggle-type parking brake


FRAME
Vertical sides help the driver work safely with less damage, even in an area with low-level obstructions. Thick chassis plates resist distortion, reduce damage and minimise refurbishment costs.
The wide mast and low console give an excellent view of the forks and the way ahead.
Well positioned lights ensure optimum vision to both the front and back-essential in containers.
Much attention has been given to thecarriage design, with an integra full-vision side-shift. The cleverly machined structure of tensile steel bars and a double-ended hydraulic cylinder gives the max view of the load and forks, coupled with variable speed side-shift.


The wide mast, low scuttle and high seating position gives the ooperator an excellent ivew of the
forks and of the way ahead-reducing load damage
and accidents. and accidents.

## BATTERY CONTROL

Over $50 \%$ of all electric lift truck bought today are three-wheelers and they have greatest range of applications, from running for just $1 / 2$ an hort at a time to working three full shifts a day.
The J series uses only the best European coutrol systems. Smaller trucks with less demanding work patterns are fitted with market leading ZAPI DC SEM controllers.

For heavier-duty trucks it makes sense to select the Danaher AC controllers which optimise battery power, particularly helpful on ramps and long runs as well as high lifts.


## DRIVER'S COMPARTMENT

The $J$ serise' design pays grea attention to the driver zone: a strong grab handle is provided, with a large ow step for easy access.
A clear footwell with well-placed pedals gives plenty of room for large eet and helps the driver work safely The simple, concise instrument pane is less distracting yet still offers comprehensive warning system.
Hydraulic levers can be mounted on either the scuttle or beside the battery, allowing access from either side.
The standard Grammer GS12 sem suspension seat is a clear benefit for onger shifts or mature operators and gives comfortable support.


Comforatable eseat can
suspension version.
Stafe and easy access
step and grab hande.
The adjustable steering colun ersu
steering Column ensure a

## DRIVE TRAIN

The incorporation of $\mathrm{ZF}^{\text {® }}$ developed components, including finely engineered helical gears, assures low noise, high quality and a longer service life.
For heavy-duty application the AC system and brushless motors with minimum servicing is ideal for long cycles, ramps and high lifts.

SEM drive motor provides more advanced control features The ZAPI controller control the traveling, lifting, tiliting and steering action.
Twin DC or AC motors are readily accessible from either he front or above, minimising service time.


## STEERING

The "On - demand" 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.

simple. Easy: SERVICE
DC orAC: MOTORS state od the art: ELECTRONICS strong, wide, clear view: MASTS


## ELECTRONICS

$D C$ or AC - the choice is yours.
The ultimate in DC control is the ZAPI high frequency MOSFET microprocessor, coupled with separately excited motors (SEM) to give the truck smooth can be imposed and more than 30 performance characteristics can be adjusted. An excellent system for smaller trucks with a medium workload.
$A C$ techmology is better suited to heavy-duty applications. The use of current is optimised and AC motors are brushless, which minimises servicing Motors can be very well protected against the water and dust. Roll-back is almost eliminated and higher travel speeds are attainable.
Both systems are fully adjustable to suit the load, the working area and the operator. Inbuilt diagnostics record intermittent faults and service requirements reducing expensive service time
The choice is between ZAPI DC control originating in Italy or Danaher AC systems produced in Sweden


More than thity performance parameters can be adiusted to suit the type
of load, congestion od the working area and skill of the driver.

FOr 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

## INTRODUCTION

The distinctive features of the new J series electric three-wheel 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. Low-wear brakes.


## 1.3-2.0 t Electric Three-wheel Forklift Specification

## DIMENSIONS


$a=200 \mathrm{~mm}$ safety clearance



$1.3 / 1.5 / 1.6 / 1.8 / 2.0 t / J$ serise mast
LOAD CHART

| $\stackrel{\text { ® }}{\substack{2}}$ | $\begin{aligned} & \frac{\overline{0}}{\frac{0}{8}} \end{aligned}$ | $\begin{gathered} \text { Mast } \\ \text { foright } \\ \text { height } \end{gathered}$ | Overall height |  |  | Free lift Extended |  | Tilt range |  | Capacity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Lowered | Extended |  |  |  | FED | RED | Load capacity at 500 mm |  |  |  |  |
|  |  |  |  | With backrest | Without backrest | $\begin{gathered} \text { With } \\ \text { backrest } \end{gathered}$ | Without backrest |  |  | 1.35 | $1.5 T$ | 1.6 T | 1.8 T | $2.0 T$ |
|  |  | mm | mm | mm | mm | mm | mm | Deg | Deg | kg | kg | kg | kg | kg |
|  | $\frac{x}{i}$ | 2500 | 1745 | 3445 | 3065 | 145 | 145 | 6.5 | 6.5 | 1300 | 1500 | 1600 | 1800 | 2000 |
|  |  | 2700 | 1845 | 3645 | 3265 | 145 | 145 | 6.5 | 6.5 | 1300 | 1500 | 1600 | 1800 | 2000 |
|  |  | 3000 | 1995 | 3945 | 3565 | 145 | 145 | 6.5 | 6.5 | 1300 | 1500 | 1600 | 1800 | 2000 |
|  |  | 3300 | 2145 | 4245 | 3865 | 145 | 145 | 6.5 | 6.5 | 1300 | 1500 | 1600 | 1800 | 2000 |
|  |  | 3500 | 2245 | 4445 | 4065 | 145 | 145 | 6.5 | 6.5 | 1300 | 1500 | 1600 | 1800 | 2000 |
|  |  | 3600 | 2295 | 4545 | 4165 | 145 | 145 | 6.5 | 6.5 | 1300 | 1500 | 1600 | 1800 | 2000 |
|  |  | 4000 | 2545 | 4945 | 4565 | 145 | 145 | 3.5 | 5 | 1300 | 1500 | 1600 | 1800 | 2000 |
|  |  | 4300 | 2710 | 5245 | 4865 | 145 | 145 | 3.5 | 5 | 1200 | 1400 | 1500 | 1700 | 1900 |
|  |  | 4500 | 2820 | 5445 | 5065 | 145 | 145 | 3.5 | 5 | 1100 | 1300 | 1400 | 1600 | 1800 |
|  | $\begin{array}{\|l\|l} \frac{x}{2} \\ \stackrel{y}{5} \\ \hline \end{array}$ | 4300 | 2010 | 5245 | 4905 | 1100 | 1415 | 3.5 | 5 | 1200 | 1400 | 1500 | 1700 | 1900 |
|  |  | 4500 | 2075 | 5445 | 5105 | 1170 | 1480 | 3.5 | 5 | 1100 | 1300 | 1400 | 1600 | 1800 |
|  |  | 4800 | 2175 | 5745 | 5405 | 1270 | 1580 | 3.5 | 5 | 1000 | 1200 | 1300 | 1500 | 1550 |
|  |  | 5000 | 2240 | 5945 | 5605 | 1340 | 1645 | 3.5 | 5 | 950 | 1150 | 1250 | 1450 | 1500 |
|  |  | 5500 | 2410 | 6445 | 6105 | 1500 | 1815 | 3.5 | 5 | 850 | 1050 | 1150 | 1200 | 1300 |
|  |  | 6000 | 2625 | 6945 | 6625 | 1670 | 2010 | 3.5 | 5 | 750 | 950 | 1050 | 1100 | 1200 |

