

**XE**  
SERIES



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ISO 4001  
ISO 45001:2018



ISO 14001  
ISO 14001:2015



ISO 9001  
ISO 9001:2015



HANGCHA products conform  
to the European Safety  
Requirements



# XE SERIES

ELECTRIC FORKLIFT TRUCK WITH  
LITHIUM POWER

With capacity of 6,000 to 10,000kg



# XE SERIES ELECTRIC FORKLIFT TRUCK WITH LITHIUM POWER

While inheriting the family design of electric forklifts, some key parts are universal with internal combustion trucks. The whole truck has been optimized in terms of performance, ergonomics, reliability, maintenance, outdoor working ability, and load capacity to meet the needs of customers for internal combustion forklift usage scenarios.



*The XE series of 6-10 ton lithium battery forklifts are developed based on the advantages of Hangcha's "lithium battery special structure" and "permanent magnet synchronous technology".*

## ENVIRONMENTALLY FRIENDLY

- The hydraulic lifting system uses dual-pump confluence technology, combined with a powerful system, resulting in an overall improvement in performance.
- The leading "permanent magnet synchronous system" effectively reduces energy consumption and enhances endurance.



## ENERGY EFFICIENT

- The charging port features a door-within-door design, with standard quick-change batteries, making both charging and battery changing convenient.
- Lithium batteries come standard with dual-gun fast charging ports, paired with dual-gun chargers for efficient energy replenishment.



## SAFE AND RELIABLE

- Equipped with two independent cooling air ducts to ensure long-lasting, efficient performance.
- Standard features include turning deceleration, which reduces the turning radius for greater maneuverability and stability during operation.



Utilizes internal combustion truck structures, including the frame and front/rear axles, paired with large tires for increased ground clearance, making it more suitable for outdoor operations.



Designed for high load capacity, minimizing the risk of rear tipping and ensuring more stable operation.



The truck features IPX4 protection rating, and the lithium battery is equipped with electric heating module to ensure normal operation in cold or rainy weather.





# COMFORTABLE EXPERIENCE

**XE**  
SERIES

Standard features include a load-sensitive multi-way valve and lift potentiometer, providing good energy-saving effects and reducing operating force by **20%**, with improved micro-motion performance.



HANGCHA provides Li-ion battery (LiFePO4) with 6 years or 12000 hours warranty.

**6 YEARS**  
**WARRANTY**

## EXCELLENT VISION

- Inherits the advantages of the lithium battery special structure, resulting in a more compact body, better visibility, ample operating space, and excellent ergonomics.

Equipped with a panoramic rearview mirror and a reverse assist horn for more comfortable reversing operations.



Comes standard with a USB charging port and storage box for added convenience in daily use.



The color display smart instrument includes functions for viewing and adjusting key parameters, facilitating maintenance and fine-tuning.



## EASY MAINTENANCE

The counterweight cover can be removed without tools, paired with a large-angle hood for clear visibility of maintenance components.



## Optional battery list

|      | Capacity(Ah) | 6.0-7.0t | 8.0-10t |
|------|--------------|----------|---------|
| EVE  | 580          | ●        | ●       |
|      | 690          | ○        | ○       |
|      | 920          | ○        | ○       |
|      | 1218         | ○        | ○       |
| CATL | 536          | ○        | ○       |
|      | 564          | ○        | ○       |
|      | 906          | ○        | ○       |
|      | 1208         | ○        | ○       |

Note: ● Battery; ○ Battery Opt; - Not available





# LITHIUM POWERED

## EMPOWER YOURSELF WITH THE BEST



Li  
Lithium

POWER THE POSSIBILITIES  
RELIABLE LITHIUM-ION TECHNOLOGY

## LITHIUM BATTERY ADVANTAGES



### Long service life

4000 full charging cycles with at least 75% residual capacity.



### Return on investment

Add flexibility to your operation, cost-saving in the long term, increased efficiencies.



### Maintenance free

No topping up of water or checking acid levels.



### High energy density

The high energy density of the Li-Ion battery ensures long working times and increases the high availability.



### Cold area application

Li-Ion batteries maintain high performance at temperatures below freezing.



### High safety and reliability

Intelligent battery management monitoring every important function, no emission of battery gasses.



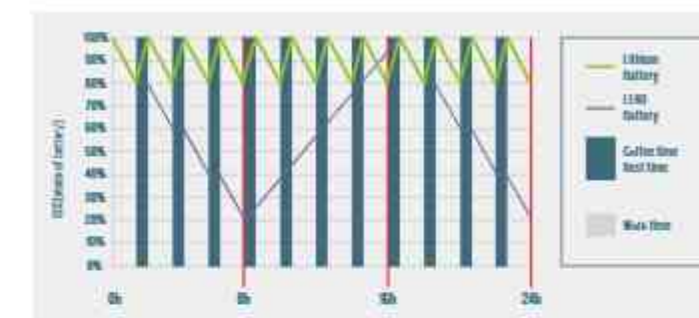
### Opportunity charging

Full performance during several shifts thanks to effective interim charging.

## FEATURES & BENEFITS THE HANGCHA DIFFERENCE

### Efficiency

By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.



### Safety

- / Intelligent battery management monitoring every important function.
- / Higher user safety, thanks to acid-free use.
- / User friendly due to avoided battery change.
- / No emission of battery gasses.



### QUESTION 1

Q: What are the characteristics of lithium batteries, especially when used in high and low temperature environments?

Charging temperature: -30-55  
Discharge temperature: -30-55  
Storage environment temperature: -30-55

After the truck key switch is closed, the instrument battery condition needs to be checked:  
1. Confirm that there is no battery system alarm message on the instrument panel.  
2. Please check the remaining power before use. It is recommended to use the SOC between 50% and 100%.  
3. If the SOC is lower than 20%, it is not recommended to continue using it. Please charge it as soon as possible.

### QUESTION 2

Q: What is the charging time and usage time calculation of forklift lithium battery?

- Available power of lithium battery (kWh) = rated voltage \* rated power \* 90% (To avoid over-discharge damaging the battery, the forklift is equipped with low power protection (less than 10%).)
  - Charging time (h) = rated capacity of lithium battery (Ah) \* 90% / charger output current (A).
  - The power consumed for charging (kWh) = the available power of the lithium battery \* 93% (the charging efficiency of the charger is calculated as 93%).
  - Usage time (h) = available power of lithium battery / energy consumption data.
- For specific energy consumption values, please refer to the technical table on the sharing platform.

### QUESTION 3

Q: How does Hangcha BMS work to ensure the safety of the lithium battery?

HANGCHA BMS (battery management system) can monitor the cells at all time. As a result, hangcha lithium power is the reliable solution.



#### Battery Safety Management:

Overcharge/over-discharge protection  
Overcurrent/over-temperature/low-temperature protection  
Multi-level fault diagnosis protection  
Double fault monitoring



#### Battery Parameter Detection:

Battery voltage detection and analysis  
Battery current detection and analysis  
Battery temperature detection and analysis



#### Equilibrium Management:

Equalization based on voltage mode  
Equalization based on time mode  
Equalization based on battery cell SOC  
Active/passive equalization optional



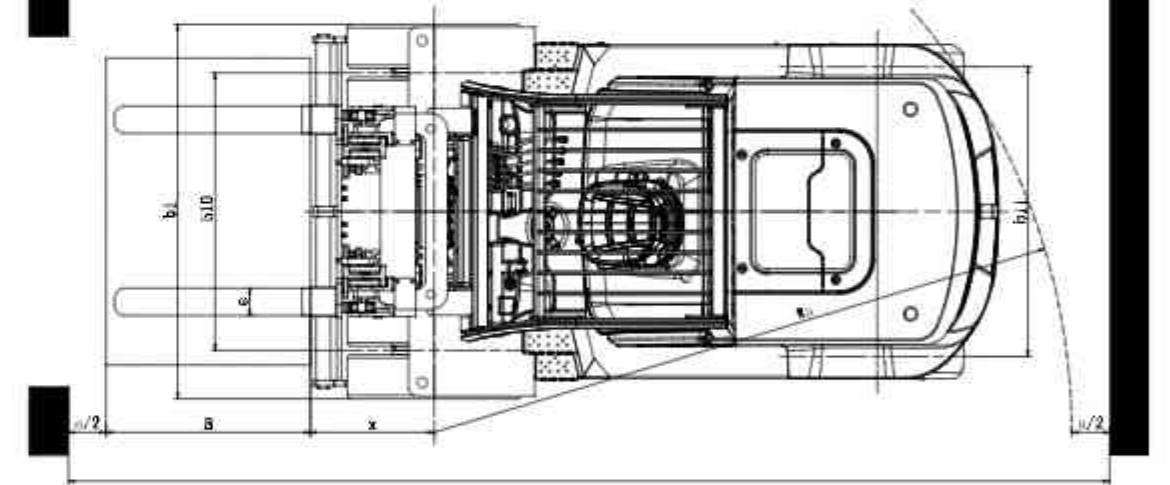
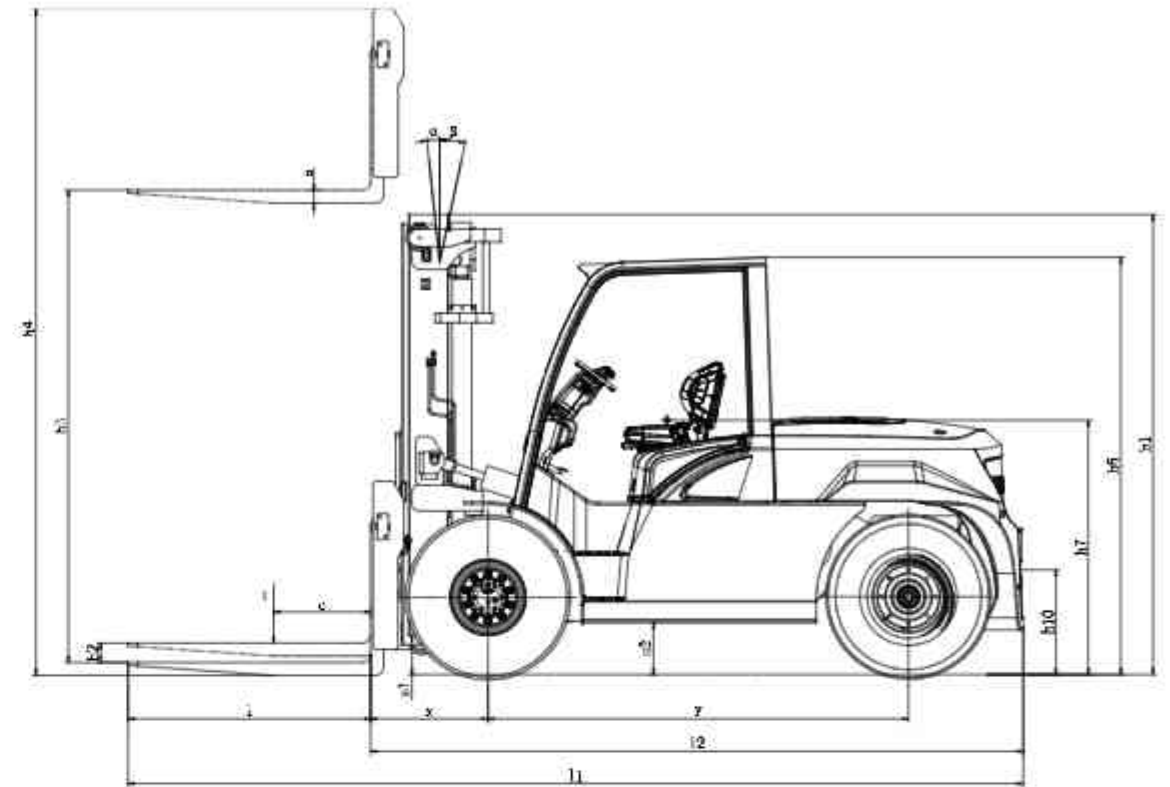
#### Other Features:

Low cost, low power consumption  
Historical data record  
Flexible cascade expansion  
CRC data validation

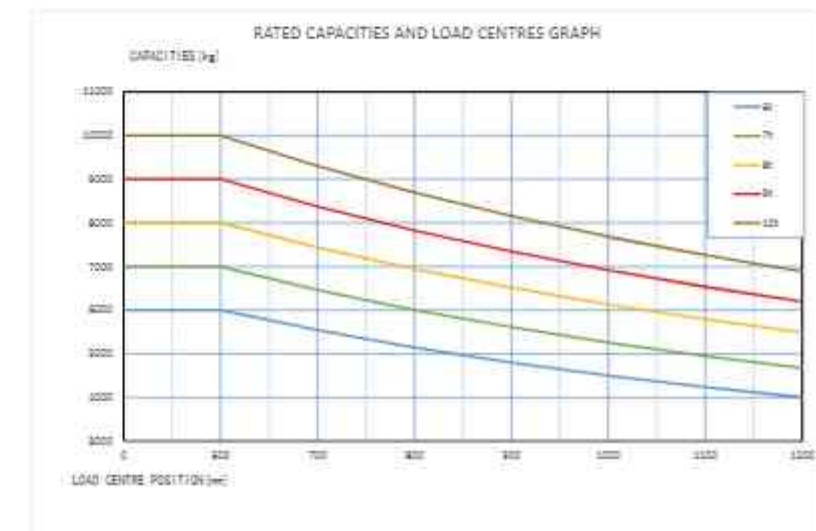


## Technical Data

| 1.1    | Manufacturer                                                    |                 | HANGCHA GROUP CO., LTD. |               |               |               |                |
|--------|-----------------------------------------------------------------|-----------------|-------------------------|---------------|---------------|---------------|----------------|
|        |                                                                 |                 | CP080-KEY2-SI           | CP070-KEY2-SI | CP080-KEY2-SI | CP090-KEY2-SI | CPD100-KEY2-SI |
| 1.2    | Manufacturer's type designation                                 |                 | Electric                | Electric      | Electric      | Electric      | Electric       |
| 1.3    | Drive: electric (battery or mains), diesel, petrol, fuel gas    |                 | Seated                  | Seated        | Seated        | Seated        | Seated         |
| 1.4    | Operator type: hand, pedestrian, standing, seated, order-picker |                 |                         |               |               |               |                |
| 1.5    | Rated capacity / rated load                                     | kg              | 8000                    | 7000          | 8000          | 8000          | 10000          |
| 1.6    | Load centre distance                                            | c (mm)          | 600                     | 600           | 600           | 600           | 600            |
| 1.7    | Load distance, centre of drive axle to fork                     | x (mm)          | 603.5                   | 608.5         | 713.8         | 725.9         | 725.9          |
| 1.8    | Wheelbase                                                       | y (mm)          | 2350                    | 2350          | 2600          | 2600          | 2600           |
| 2.1    | Service Weight                                                  | kg              | 9800                    | 10200         | 11900         | 12200         | 13900          |
| 2.2    | Axle loading, laden front/rear                                  | kg              | 13790/1810              | 15180/2020    | 17650/2250    | 19770/2430    | 21290/2620     |
| 2.3    | Axle loading, unladen front/rear                                | kg              | 4710/4690               | 4580/5820     | 5600/6300     | 6180/7020     | 6180/7610      |
| 3.1    | Tyres: solid rubber, superelastic, pneumatic, polyurethane      |                 | pneumatic               | pneumatic     | pneumatic     | pneumatic     | pneumatic      |
| 3.2    | Tyre size, front                                                |                 | 8.25-15-14PR            | 8.25-15-14PR  | 9.00-20-14PR  | 9.00-20-14PR  | 9.00-20-14PR   |
| 3.3    | Tyre size, rear                                                 |                 | 8.25-15-14PR            | 8.25-15-14PR  | 9.00-20-14PR  | 9.00-20-14PR  | 9.00-20-14PR   |
| 3.5    | Wheels, number front / rear (x = driven wheels)                 |                 | 4x/2                    | 4x/2          | 4x/2          | 4x/2          | 4x/2           |
| 3.6    | Tread, front                                                    | b10 (mm)        | 1488                    | 1488          | 1628          | 1628          | 1628           |
| 3.7    | Tread, rear                                                     | b11 (mm)        | 1700                    | 1700          | 1700          | 1700          | 1700           |
| 4.1    | Tilt of mast/fork carriage forward/backward                     | a/b (°)         | 6/12                    | 6/12          | 6/12          | 6/12          | 6/12           |
| 4.2    | Height, mast lowered                                            | h1 (mm)         | 2500                    | 2500          | 2700          | 2850          | 2950           |
| 4.3    | Free lift                                                       | h2 (mm)         | 170                     | 175           | 200           | 200           | 200            |
| 4.4    | Lift                                                            | h3 (mm)         | 3000                    | 3000          | 3000          | 3000          | 3000           |
| 4.5    | Height, mast extended                                           | h4 (mm)         | 4407                    | 4407          | 4210          | 4555          | 4555           |
| 4.7    | Height of overhead guard                                        | h6 (mm)         | 2470                    | 2470          | 2580          | 2580          | 2580           |
| 4.8    | Seat height/stand height                                        | h7 (mm)         | 1483                    | 1483          | 1573          | 1573          | 1573           |
| 4.12   | Coupling height                                                 | h10 (mm)        | 600                     | 600           | 640           | 640           | 640            |
| 4.19   | Overall length                                                  | l1 (mm)         | 4894                    | 4809          | 5523          | 5535          | 5535           |
| 4.20   | Length to face of forks                                         | l2 (mm)         | 2604                    | 2609          | 4023          | 4025          | 4025           |
| 4.21   | Overall width                                                   | b1/b2 (mm)      | 1894                    | 1894          | 2187          | 2197          | 2197           |
| 4.22   | Fork dimensions                                                 | s/e/l (mm)      | 60/150/1220             | 65/150/1220   | 75/160/1520   | 80/160/1520   | 80/160/1520    |
| 4.23   | Fork carriage ISO 2326, class/type A, B                         |                 | 4A                      | 4A            | 4A            | 5A            | 5A             |
| 4.24   | Fork carriage width                                             | b3 (mm)         | 1576                    | 1576          | 2153          | 2153          | 2153           |
| 4.31   | Ground clearance, laden, below mast                             | m1 (mm)         | 200                     | 200           | 250           | 250           | 250            |
| 4.32   | Ground clearance, centre of wheelbase                           | m2 (mm)         | 235                     | 235           | 320           | 320           | 320            |
| 4.34.1 | Aisle width for pallets 1000 x 1200 crossways                   | Ax1 (mm)        | 5183.5                  | 5188.5        | 5653.8        | 5655.8        | 5655.8         |
| 4.34.2 | Aisle width for pallets 800 x 1200 lengthways                   | Ax2 (mm)        | 5383.5                  | 5388.5        | 5853.8        | 5855.8        | 5855.8         |
| 4.35   | Turning radius                                                  | Wx (mm)         | 3380                    | 3380          | 3740          | 3740          | 3740           |
| 4.36   | Internal turning radius                                         | b12 (mm)        | /                       | /             | /             | /             | /              |
| 5.1    | Travel speed, laden/unladen                                     | km/h            | 18/20                   | 18/20         | 18/18         | 18/16         | 18/16          |
| 5.2    | Lift speed, laden/unladen                                       | mm/s            | 410/500                 | 380/440       | 340/430       | 280/350       | 280/350        |
| 5.3    | Lowering speed, laden/unladen                                   | mm/s            | 480/420                 | 480/420       | 480/400       | 480/400       | 480/400        |
| 5.6    | Max. Drawbar pull, laden/unladen                                | N               | 35000                   | 35000         | 35000         | 35000         | 35000          |
| 5.8    | Max. gradeability, laden/unladen                                | %               | 20/30                   | 18/30         | 19/25         | 18/22         | 15/21          |
| 5.9    | Acceleration time, laden/unladen (0-10m)                        | s               | /                       | /             | /             | /             | /              |
| 5.10   | Service brake                                                   |                 | Hydraulic               | Hydraulic     | Hydraulic     | Hydraulic     | Hydraulic      |
| 5.11   | Parking brake                                                   |                 | Mechanical              | Mechanical    | Mechanical    | Mechanical    | Mechanical     |
| 6.1    | Drive motor rating S2 60 min                                    | kW              | 40AC                    | 40AC          | 40AC          | 40AC          | 40AC           |
| 6.2    | Lift motor rating at S3 15%                                     | kW              | 30-2AC                  | 30-2AC        | 30-2AC        | 30-2AC        | 30-2AC         |
| 6.3    | Battery acc. to DIN 43531/35/36 A, B, C, no                     |                 | /                       | /             | /             | /             | /              |
| 6.4    | Battery voltage, nominal capacity                               | [V]/[Ah] or kWh | 96/560                  | 96/560        | 96/690        | 96/690        | 96/690         |
| 6.5    | Battery weight                                                  | kg              | 660                     | 660           | 770           | 770           | 770            |
| 10.1   | Operating pressure for attachments                              | MPa             | 10                      | 10            | 10            | 10            | 10             |
| 10.2   | Oil volume for attachments                                      | ℓ/min           | 75                      | 75            | 90            | 90            | 90             |



$$AST = W_a + x + B + a \quad a = 200 \text{ mm safety clearance}$$





6.0-7.0t Mast: (pneumatic)

| Type                                              | Model     |           | Lifting height |      | Overall height |      | Free lifting height |      |               |      | Front Overhang |       | Tilt Range       |      | Capacity (Mast vertical to ground) |           |
|---------------------------------------------------|-----------|-----------|----------------|------|----------------|------|---------------------|------|---------------|------|----------------|-------|------------------|------|------------------------------------|-----------|
|                                                   |           |           |                |      |                |      | Without backrest    |      | With backrest |      |                |       | Without backrest |      | With backrest                      |           |
|                                                   | 6.0t      | 7.0t      | mm             | mm   | mm             | mm   | mm                  | mm   | mm            | mm   | mm             | mm    | mm               | mm   | mm                                 |           |
|                                                   |           |           |                |      |                |      |                     |      |               |      |                |       |                  |      |                                    | Dual tire |
| Ingen valve full-free mast                        | XHP60M250 | XHP70M250 | 2500           | 2350 | 2907           | 3495 | 3667                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/12 | 8000                               | 7000      |
|                                                   | XHP60M270 | XHP70M270 | 2700           | 2350 | 4107           | 3898 | 3887                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 8/12 | 8000                               | 7000      |
|                                                   | XHP60M300 | XHP70M300 | 3000           | 2500 | 4407           | 3995 | 4167                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/12 | 8000                               | 7000      |
|                                                   | XHP60M330 | XHP70M330 | 3300           | 2650 | 4707           | 4295 | 4467                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/12 | 8000                               | 7000      |
|                                                   | XHP60M360 | XHP70M360 | 3600           | 2800 | 5007           | 4595 | 4767                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/12 | 8000                               | 7000      |
|                                                   | XHP60M400 | XHP70M400 | 4000           | 3000 | 5407           | 4895 | 5167                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/12 | 8000                               | 7000      |
|                                                   | XHP60M430 | XHP70M430 | 4300           | 3200 | 5707           | 5300 | 5487                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/6  | 8000                               | 7000      |
|                                                   | XHP60M450 | XHP70M450 | 4500           | 3300 | 5907           | 5500 | 5667                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/6  | 8000                               | 7000      |
|                                                   | XHP60M480 | XHP70M480 | 4800           | 3450 | 6207           | 5600 | 5967                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/6  | 8000                               | 7000      |
|                                                   | XHP60M500 | XHP70M500 | 5000           | 3550 | 6407           | 6000 | 6167                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 6/6  | 8000                               | 7000      |
|                                                   | XHP60M550 | XHP70M550 | 5500           | 3850 | 6907           | 6550 | 6867                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 3/6  | 5500                               | 5400      |
|                                                   | XHP60M600 | XHP70M600 | 6000           | 4100 | 7407           | 7050 | 7167                | 170  | 175           | 170  | 175            | 803.5 | 808.5            | 3/6  | 5200                               | 5000      |
| Ingen valve full-free mast                        | XHP60U250 | XHP70U250 | 2500           | 2185 | 3637           | 3455 | 3615                | 1048 | 1048          | 1230 | 1070           | 631.5 | 636.5            | 6/12 | 6000                               | 7000      |
|                                                   | XHP60U270 | XHP70U270 | 2700           | 2300 | 3837           | 3655 | 3815                | 1183 | 1183          | 1345 | 1185           | 631.5 | 636.5            | 6/12 | 6000                               | 7000      |
|                                                   | XHP60U300 | XHP70U300 | 3000           | 2450 | 4137           | 3955 | 4115                | 1313 | 1313          | 1495 | 1335           | 631.5 | 636.5            | 6/12 | 6000                               | 7000      |
|                                                   | XHP60U330 | XHP70U330 | 3300           | 2600 | 4437           | 4255 | 4415                | 1463 | 1463          | 1645 | 1485           | 631.5 | 636.5            | 6/12 | 6000                               | 7000      |
| Tiller full-free mast                             | XHP60U360 | XHP70U360 | 3600           | 2750 | 4737           | 4555 | 4715                | 1613 | 1613          | 1795 | 1635           | 631.5 | 636.5            | 6/12 | 6000                               | 7000      |
|                                                   | XHP60U400 | XHP70U400 | 4000           | 2950 | 5137           | 4855 | 5115                | 1813 | 1813          | 1995 | 1835           | 631.5 | 636.5            | 6/12 | 6000                               | 7000      |
|                                                   | XHP60U450 | XHP70U450 | 4500           | 3235 | 5307           | 5135 | 5395                | 1928 | 1928          | 2100 | 1940           | 672   | 677              | 6/6  | 5300                               | 5200      |
|                                                   | XHP60U480 | XHP70U480 | 4800           | 3375 | 5607           | 5235 | 5495                | 1428 | 1428          | 1600 | 1600           | 672   | 677              | 6/6  | 5300                               | 5200      |
|                                                   | XHP60U500 | XHP70U500 | 5000           | 3475 | 5807           | 5333 | 5513                | 1475 | 1475          | 1672 | 1672           | 672   | 677              | 6/6  | 5300                               | 5200      |
|                                                   | XHP60U550 | XHP70U550 | 5500           | 3875 | 6307           | 5735 | 5785                | 1575 | 1575          | 1800 | 1800           | 672   | 677              | 3/6  | 5300                               | 5000      |
|                                                   | XHP60N600 | XHP70N600 | 6000           | 3275 | 7407           | 7235 | 7235                | 1828 | 1828          | 2000 | 2000           | 672   | 677              | 3/6  | 4800                               | 5300      |
|                                                   | XHP60N650 | XHP70N650 | 6500           | 3375 | 7807           | 7713 | 7713                | 1875 | 1875          | 2172 | 2172           | 672   | 677              | 3/6  | 3800                               | 4300      |
|                                                   | XHP60N700 | XHP70N700 | 7000           | 3675 | 8407           | 8385 | 8385                | 2275 | 2275          | 2300 | 2300           | 672   | 677              | 3/6  | 3100                               | 3600      |
| 6-7t: Height of standard load backrest is 1270mm. |           |           |                |      |                |      |                     |      |               |      |                |       |                  |      |                                    |           |

8.0-10t Mast: (pneumatic)

| Type                                  | Model   |          | Lifting height | Lowered overall height |         | Overall height   |         | Free lifting height |         | Front Overhang |                        | Tilt Range | Capacity (Mast vertical to ground) |      |       |      |     |
|---------------------------------------|---------|----------|----------------|------------------------|---------|------------------|---------|---------------------|---------|----------------|------------------------|------------|------------------------------------|------|-------|------|-----|
|                                       |         |          |                |                        |         | Without backrest |         | With backrest       |         |                |                        |            |                                    |      |       |      |     |
|                                       | 8.0t    | 9.0/10t  |                | 8.0t                   | 9.0/10t | 8.0t             | 9.0/10t | 8.0t                | 9.0/10t |                |                        |            |                                    |      |       |      |     |
|                                       |         |          |                |                        |         |                  |         |                     |         | F/ft           | Load capacity at 800mm |            |                                    |      |       |      |     |
|                                       |         |          |                |                        |         |                  |         |                     |         |                |                        | Dual tire  |                                    |      |       |      |     |
|                                       |         |          |                |                        |         |                  |         |                     |         |                |                        |            |                                    |      | 8.0t  | 9.0t | 10t |
|                                       |         |          |                |                        |         |                  |         |                     |         |                |                        |            |                                    |      | mm    | kg   | kg  |
| Ingenieer's ability<br>full-free mast | X80M250 | X100M250 | 2500           | 3450                   | 2600    | 3710             | 4055    | 200                 | 200     | 714            | 725                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M270 | X100M270 | 2700           | 3550                   | 2700    | 3910             | 4255    | 200                 | 200     | 714            | 735                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M300 | X100M300 | 3000           | 3700                   | 2850    | 4210             | 4555    | 200                 | 200     | 714            | 755                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M330 | X100M330 | 3300           | 3850                   | 3000    | 4510             | 4855    | 200                 | 200     | 714            | 775                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M350 | X100M350 | 3500           | 3950                   | 3100    | 4710             | 5055    | 200                 | 200     | 714            | 795                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M380 | X100M380 | 3800           | 4000                   | 3150    | 4810             | 5155    | 200                 | 200     | 714            | 815                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M400 | X100M400 | 4000           | 4100                   | 3250    | 4910             | 5255    | 200                 | 200     | 714            | 835                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M430 | X100M430 | 4300           | 4200                   | 3350    | 5010             | 5355    | 200                 | 200     | 714            | 855                    | 8/6        | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M450 | X100M450 | 4500           | 4300                   | 3450    | 5110             | 5455    | 200                 | 200     | 714            | 875                    | 8/6        | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M480 | X100M480 | 4800           | 4350                   | 3500    | 5210             | 5555    | 200                 | 200     | 714            | 895                    | 8/6        | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M500 | X100M500 | 5000           | 4450                   | 3550    | 5310             | 5655    | 200                 | 200     | 714            | 915                    | 8/6        | 8000                               | 9000 | 10000 |      |     |
|                                       | X80M550 | X100M550 | 5500           | 4550                   | 3650    | 5410             | 5755    | 200                 | 200     | 714            | 935                    | 3/6        | 7000                               | 8500 | 8000  |      |     |
| Ingenieer's ability<br>full-free mast | X80M600 | X100M600 | 6000           | 4700                   | 3750    | 5510             | 5855    | 200                 | 200     | 714            | 955                    | 3/6        | 6000                               | 7500 | 8000  |      |     |
|                                       | X80M650 | X100M650 | 6500           | 4800                   | 3850    | 5610             | 5955    | 200                 | 200     | 714            | 975                    | 3/6        | 5800                               | 7000 | 7500  |      |     |
|                                       | X80U230 | X100U230 | 2300           | 3250                   | 2350    | 3605             | 3945    | 1145                | 955     | 719            | 744                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80U250 | X100U250 | 2500           | 3450                   | 2500    | 3705             | 4045    | 1245                | 1065    | 719            | 744                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
| Ingenieer's ability<br>full-free mast | X80U270 | X100U270 | 2700           | 3550                   | 2700    | 3905             | 4245    | 1345                | 1155    | 719            | 744                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80U300 | X100U300 | 3000           | 3700                   | 2850    | 4205             | 4545    | 1445                | 1205    | 719            | 744                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80U330 | X100U330 | 3300           | 3850                   | 3000    | 4505             | 4845    | 1545                | 1455    | 719            | 744                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80U360 | X100U360 | 3600           | 3900                   | 3150    | 4805             | 5145    | 1795                | 1605    | 719            | 744                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80U400 | X100U400 | 4000           | 4100                   | 3350    | 5105             | 5445    | 1995                | 1805    | 719            | 744                    | 8/12       | 8000                               | 9000 | 10000 |      |     |
|                                       | X80N450 | X100N450 | 4500           | 2750                   | 2850    | 5775             | 6055    | 1485                | 1305    | 759            | 794                    | 5/6        | 5800                               | 8000 | 8500  |      |     |
|                                       | X80N480 | X100N480 | 4800           | 2850                   | 2950    | 6075             | 6355    | 1585                | 1405    | 759            | 794                    | 5/6        | 5800                               | 8000 | 8500  |      |     |
|                                       | X80N500 | X100N500 | 5000           | 2950                   | 3050    | 6380             | 6655    | 1680                | 1505    | 759            | 794                    | 5/6        | 5300                               | 8000 | 8200  |      |     |
|                                       | X80N550 | X100N550 | 5500           | 3100                   | 3200    | 6810             | 7055    | 1800                | 1655    | 759            | 794                    | 3/6        | 5800                               | 7500 | 7700  |      |     |
|                                       | X80N600 | X100N600 | 6000           | 3250                   | 3350    | 7275             | 7555    | 1885                | 1805    | 759            | 794                    | 3/6        | 5400                               | 6700 | 7000  |      |     |
|                                       | X80N650 | X100N650 | 6500           | 3530                   | 3630    | 7840             | 8055    | 2200                | 2085    | 759            | 794                    | 3/6        | 4800                               | 5800 | 6200  |      |     |
|                                       | X80N700 | X100N700 | 7000           | 3700                   | 3800    | 8310             | 8555    | 2400                | 2255    | 759            | 794                    | 3/6        | 4200                               | 4800 | 5200  |      |     |

Features

| Color                                                             | Standard | Options |
|-------------------------------------------------------------------|----------|---------|
| Yellow-black                                                      | ●        |         |
| Other customized color                                            |          | ○       |
| Particular market                                                 |          |         |
| Ce Standard                                                       |          | ○       |
| Neutral label                                                     |          | ○       |
| Cold storage environment                                          |          |         |
| -30℃                                                              |          | ○       |
| Mast                                                              |          |         |
| Duplex mast                                                       | ●        |         |
| Tilt cylinder cover                                               | ●        |         |
| See the mast specification                                        |          | ○       |
| Tilt cylinder boot                                                |          | ○       |
| Fork and attachment                                               |          |         |
| Standard fork                                                     | ●        |         |
| Fork arm carrier                                                  | ●        |         |
| Load backrest                                                     | ●        |         |
| Other fork length                                                 |          | ○       |
| Other attachments                                                 |          | ○       |
| Tires                                                             |          |         |
| Pneumatic tire (dual)                                             | ●        |         |
| Solid tire (dual)                                                 |          | ○       |
| White no marked solid tire (dual)                                 |          | ○       |
| Mutiway valve                                                     |          |         |
| 2nd load-sensing valve(6-7t)                                      | ●        |         |
| 4th load-sensing valve(8-10t)                                     | ●        |         |
| Potionmeter for lift                                              | ●        |         |
| 3rd load-sensing valve(6-7t)                                      |          | ○       |
| 4th load-sensing valve(6-7t)                                      |          | ○       |
| 5th load-sensing valve(6-10t)                                     |          | ○       |
| Tiller                                                            |          |         |
| Lifting and tilting level                                         | ●        |         |
| Fingertip system                                                  |          | ○       |
| Battery                                                           |          |         |
| Quick change lithium battery (GB standard dual plug)              | ●        |         |
| Lithium battery slide roll out                                    | ●        |         |
| Quick change big capacity lithium battery (GB standard dual plug) |          | ○       |
| Light                                                             |          |         |
| LED combination head lamp                                         | ●        |         |
| LED rear combination lamp                                         | ●        |         |
| Warning light                                                     |          | ○       |
| Acoustic and optical alarm lamp                                   |          | ○       |
| LED rear lamp                                                     |          | ○       |
| Blue/red light(F/R/L GR)                                          |          | ○       |
| Blue/red light Three-Way Linear Projector Light                   |          | ○       |
| Horn                                                              |          |         |
| Electric horn                                                     | ●        |         |
| Reverse buzzer                                                    | ●        |         |
| Right rear armrest with horn button                               | ●        |         |
| Forward buzzer                                                    |          | ○       |
| Smart module                                                      |          |         |
| FIMS[Fleet intelligent management system]                         |          | ○       |

Features

| Safety configuration                                 | Standard | Options |
|------------------------------------------------------|----------|---------|
| Turning deceleration                                 | ●        |         |
| Emergency power-off switch                           | ●        |         |
| Fuse box                                             | ●        |         |
| Soft landing                                         | ●        |         |
| Reversing radar                                      |          | ○       |
| Reversing camera                                     |          | ○       |
| Front /front and rear driving recorder               |          | ○       |
| DPS system                                           |          | ○       |
| Fire extinguisher                                    |          | ○       |
| Ascending buffering                                  |          | ○       |
| Bele alarm                                           |          | ○       |
| Overspeed alarm/Speed limit[adjustable]              |          | ○       |
| Common key                                           |          | ○       |
| Instrument rack space                                |          |         |
| Smart color screen instrument (speed mode selection) | ●        |         |
| Combination switch                                   | ●        |         |
| USB port                                             | ●        |         |
| Storage box                                          | ●        |         |
| Cigarette lighter                                    |          | ○       |
| Pin code (start by swiping a card)                   |          | ○       |
| Fingerprint lock                                     |          | ○       |
| Driving space                                        |          |         |
| Standard overhead guard                              | ●        |         |
| Central rear view mirror                             | ●        |         |
| PVC ceiling                                          |          | ○       |
| Elevated /Lowered overhead guard                     |          | ○       |
| F/R windshield [with /without windshield wiper]      |          | ○       |
| Cab                                                  |          | ○       |
| Fan                                                  |          | ○       |
| Air conditioner                                      |          | ○       |
| Heater                                               |          | ○       |
| Left and right rear view mirrors                     |          | ○       |
| Seat                                                 |          |         |
| Standard seat                                        | ●        |         |
| Fully-suspended seat                                 |          | ○       |
| Semi-suspended seat                                  |          |         |