


# XC Series 3-Wheel Electric Forklift Truck With Lithium Power

with capacities of 1,300 to 2,000kg

*The World of Hangcha*

SINCE 1956

HANGCHA

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ISO45001
ISO45001:2018

ISO14001
ISO14001:2015

ISO9001
ISO9001:2015

HANGCHA trucks conform to the European Safety Requirements.

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.

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# XC Series 3-Wheel Electric Forklift Truck With Lithium power

Covering models with a tonnage of 1.3t, 1.5t, 1.6t, 1.8t and 2.0t respectively, the new XC series three-point new energy electric forklifts are HANGCHA's dedicated-purpose battery forklifts subsequent to the XC series four-point dedicated-purpose battery forklifts.

Equipped with the dedicated lithium battery cells and modules for the XC series forklifts, which are developed jointly by HANGCHA and CATL, the truck has the features of high lifting speed, high driving speed, excellent ergonomic design, easy operation and high safety.




## Excellent ergonomic design

/ The truck has a large operation space more than 50% larger than that of the traditional three-point electric truck.
/ The enlarged brake pedal and appropriate regenerative braking function can effectively reduce the driver's fatigue.
/ For the optional integrated fingertip operating system, the combined operation armrest integrates the emergency shut-off, horn and quadruple thumb switches, etc., is electrically controlled through the CAN bus, and is highly reliable.

## Easy operations and maintenance

/ With the fully sealed hood and side plates, all major components including the electrically controlled components, motor, electrical components, etc. are sealed from dust and water.
/ Vulnerable parts and key parts are arranged reasonably to facilitate maintenance and repair.
/ The hood (with a self-locking gas spring) can be opened at a large angle facilitating the maintenance and replacement of the battery.

## Advancement

/ The high-frequency MOSFET integrated controller ensures smooth and accurate driving and lifting control, and has excellent speed regulation performance, good performance of electronic control matching the motor, functions of regenerative braking, reverse braking and anti-sliding on ramps, etc., and high safety and reliability.
/ The ultra-high power AC drive motor has a bridge structure.
/ An ultra-high power AC oil pump motor is used. The system has high efficiency, complete protection functions, built-in speed and temperature sensors, and greatly improved reliability and life.
/ The noise can be as low as 73dBA.

## Comfort

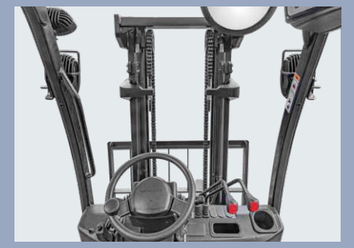
/ Owing to the low center of gravity and good stability, the driver feels comfortable during turning.
/ The intelligent sensing enables buffered descending. When the fork is 100 - 60mm away from the ground, the descending will automatically slow down, so that the goods and pallet will not hit the ground and the goods and ground can be protected effectively.
/ Silence, no pollution, energy saving and other advantages meet environmental protection requirements.
/ With friendly human-computer interfaces, the new large-screen LED instruments have good visibility and clear readings.



The dashboard in the driver's cab is placed overhead and can be seen when the driver lift her/his head, and the function buttons can be pressed easily



The packs can be easily removed by a manual or electric cart, and can be repaired and maintained conveniently



The wide-view mast with optimized design is unlikely to obstruct the operator's line of sight. The enlarged opening size of the fork carriage enables a wider view. The high fulcrum of the tilt cylinder enables better force bearing and more stable operation of the mast



The ergonomically designed tilt-adjustable small-diameter steering wheel makes the driver feel good




The seat can be adjusted back and forth by 210mm. The operator can choose the best driving position

## Main Accessories

/ The main electrical components such as the motor controller, contactor, power plug, emergency cut-off switch, dashboard, accelerator, are all products of well-known foreign brands.
/ The emergency cut-off switch equipped for the standard configuration complies with European safety regulations.
/ Electronic and hydraulic overload protection devices.
/ The truck has passed the CE certification.

## Standard Specification

/ Dual AC drive motors
/ High-power AC oil pump motor
/ Silent gear pump
/ Multi-function color screen instrument cluster
/ Large integral rubber pedal pad
/ Stamped iron hood, stamped iron side plates
/ Stamped stainless steel boarding step
/ Handbrake with a touch-proof mechanism
/ Turning deceleration function
/ Fork descending buffering(only for the wide view duplex mast)
/ SPE power selection
/ Mileage display, operating time display
/ Integrated fuse box
/ DC-DC converter
/ Doublet multiway valve
/ Emergency shut-off switch
/ Reversing buzzer
/ Traction pin
/ Load sensing steering system
/ Standard duplex mast, fork, fork carriage and load backrest
/ Lithium packs with low temperature electric heating systems
/ The gas spring of the hood with a touch-proof mechanism
/ LED combination headlights, LED combination three-color tail lights
/ Charging muzzle meeting national standards



## Safety

/ The optional descending lock function can disable the descending function when the driver leaves the seat, and enable high safety.
/ The standard configuration provides a fork descending buffering function. In addition, an optional electronic control function for buffering the fork's ascending is provided to protect the goods from falling and damaging the ground.
/ The handbrake can be optionally equipped with an alarm buzzer to prompt the driver to pull up the handbrake before leaving the truck.
/ Three horn buttons are provided, which are respectively on the driver's steering wheel, thumb switch equipped armrest (optional) and reverse armrest (optional), for alerting and protecting the surrounding people.
/ A PIN code should be provided before entering the system. 99 sets of PIN codes are available for the administrator. The truck is highly secured and irrelevant personnel cannot start the truck.

## Options

/ Lithium packs that can be replaced quickly
/ Start with a PIN code or by swiping a card
/ Ultra-elastic solid nose tire
/ Environmentally-friendly colored solid tire
/ Left and right rearview mirrors
/ Reversing video
/ Front/rear blue lights
/ Rear operation lights
/ Cold storage truck
/ Reverse armrest (containing a horn button)
/ Fully enclosed cab
/ OPS seat sensing function
/ Fork ascending buffering
/ Triple multiway valve
/ Quadruple multiway valve
/ Quintuple multiway valve
/ Widened / heightened load backrest
/ Widened fork carriage
/ Forks of other lengths
/ Full free duplex mast
/ Full free triplex mast
/ Integrated side shifter
/ Attachments of other specifications
/ Grammer MSG531 suspended seat
/ Dedicated lithium battery charger
/ Integrated fingertip control system including ergonomic armrests
/ Toolbox, folder

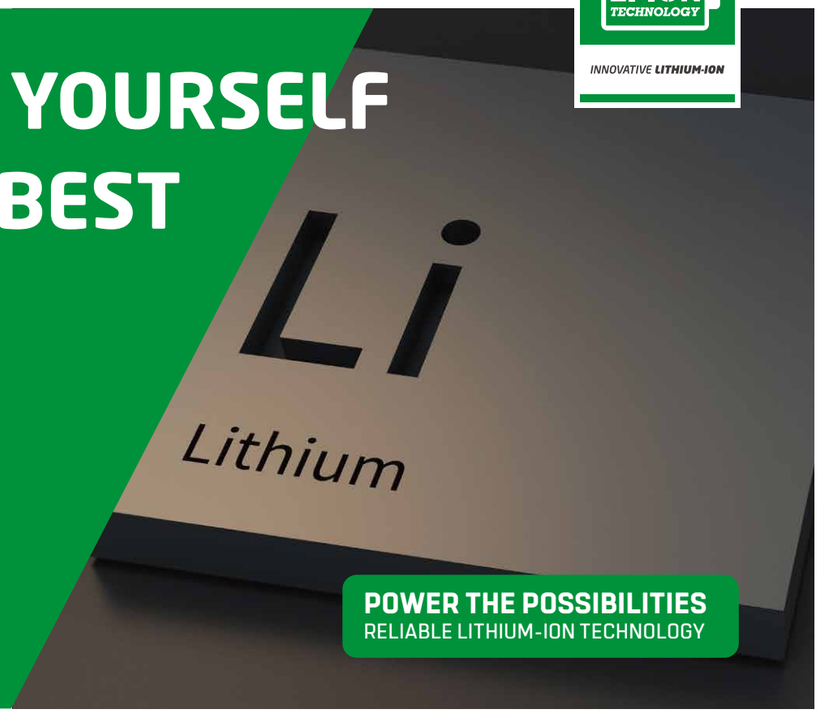


# LITHIUM POWERED

LI-ION TECHNOLOGY

INNOVATIVE LITHIUM-ION

## EMPOWER YOURSELF WITH THE BEST




V80 LITHIUM ION

**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.

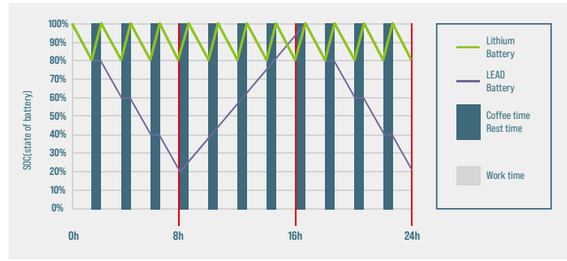
### High safety and reliability
Intelligent battery management monitoring every important function, no emission of battery gasses.

### Opportunity charging
Full performance during several shifts thanks to effective interim charging.

# FEATURES & BENEFITS
# THE HANGCHA DIFFERENCE

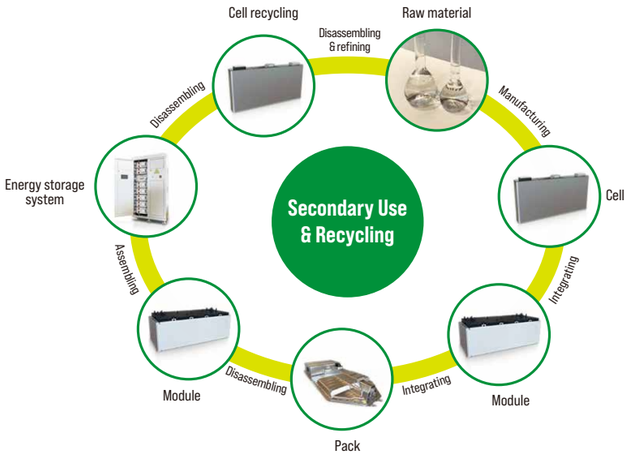
## Efficiency

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℃~65℃ |
| Discharge temperature: | -30℃~65℃ |
| Storage environment temperature: | -30℃~65℃ |

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?**

1. 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%)).
2. Charging time (h) = rated capacity of lithium battery (Ah) × 90% ÷ charger output current (A).
3. The power consumed for charging (kWh) = the available power of the lithium battery ÷ 93% (the charging efficiency of the charger is calculated as 93%).
4. 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 times. 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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Distinguishing mark | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. | | | | |
| | 1.2 | Manufacturers type designation | | CPDS13-XCC2G -SI<br>CPDS13-XCD8G-SI<br>CPDS13-XCD8B1-SI | CPDS15-XCC2G-SI<br>CPDS15-XCD8G-SI<br>CPDS15-XCD8B1-SI | CPDS16-XCC2G-SI<br>CPDS16-XCD8G-SI<br>CPDS16-XCD8B1-SI<br>CPDS16-XCD8G-SIF2 | CPDS18-XCC2G-SI<br>CPDS18-XCD8G-SI<br>CPDS18-XCD8B1-SI | CPDS20-XCC2G-SI<br>CPDS20-XCD8G-SI<br>CPDS20-XCD8B1-SI<br>CPDS20-XCD8G-SIF2<br>CPDS20-XCD8G-SIA* |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | electric | electric | electric | electric | electric |
| | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | seated | seated | seated | seated | seated |
| | 1.5 | Load capacity/rated load | Q (kg) | 1300 | 1500 | 1600 | 1800 | 2000 |
| | 1.6 | Load centre distance | c (mm) | 500 | 500 | 500 | 500 | 500 |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 360 | 360 | 360 | 360 | 365 |
| | 1.9 | Wheelbase | y (mm) | 1277 | 1277 | 1277 | 1347 | 1477 |
| Weight | 2.1 | Service Weight | kg | 2570 | 2930 | 3100 | 3350 | 3460 |
| | 2.2 | Axle loading, laden front/rear | kg | 3420/450 | 3767/663 | 4011/689 | 4392/758 | 4596/864 |
| | 2.3 | Axle loading, unladen front/rear | kg | 1185/1385 | 1258/1672 | 1335/1765 | 1447/1903 | 1533/1927 |
| Tyres, chassis | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | solid | solid | solid | solid | solid |
| | 3.2 | Tyre size, front | | 18x7 - 8 | 18x7 - 8 | 18x7 - 8 | 18x7 - 8 | 200/50-10 |
| | 3.3 | Tyre size, rear | | 15x4.5 - 8 | 15x4.5 - 8 | 15x4.5 - 8 | 140/55-9 | 140/55-9 |
| | 3.5 | Wheels, number front rear (x = driven wheels) | | 2x/2 | 2x/2 | 2x/2 | 2x/2 | 2x/2 |
| | 3.6 | Tread, front | $b_{10}$ (mm) | 910 | 910 | 910 | 910 | 928 |
| | 3.7 | Tread, rear | $b_{11}$ (mm) | 180 | 180 | 180 | 212 | 212 |
| Dimensions | 4.1 | Tilt of mast/fork carriage forward/backward | Grad | 7/6 | 7/6 | 7/6 | 7/6 | 7/6 |
| | 4.2 | Height, mast lowered | $h_1$ (mm) | 1978 | 1978 | 1978 | 1978 | 1978 |
| | 4.3 | Free lift | $h_2$ (mm) | 135 | 135 | 135 | 135 | 140 |
| | 4.4 | Lift | $h_3$ (mm) | 3000 | 3000 | 3000 | 3000 | 3000 |
| | 4.5 | Height, mast extended | $h_4$ (mm) | 3945 | 3945 | 3945 | 3945 | 3945 |
| | 4.7 | Height of overhead guard STD.(Cabin) | $h_6$ (mm) | 2100(2165) | 2100(2165) | 2100(2165) | 2100(2165) | 2100(2165) |
| | 4.9 | Seat height/stand height | $h_7$ (mm) | 1000 | 1000 | 1000 | 1000 | 1000 |
| | 4.12 | Coupling height | $h_{10}$ (mm) | 520 | 520 | 520 | 520 | 520 |
| | 4.19 | Overall length | $l_1$ (mm) | 2754 | 2754 | 2754 | 2824 | 3104 |
| | 4.20 | Length to face of forks | $l_2$ (mm) | 1834 | 1834 | 1834 | 1904 | 2034 |
| | 4.21 | Overall width | $b_1$ (mm) | 1086 | 1086 | 1086 | 1086 | 1120 |
| | 4.22 | Fork dimensions | s/e/l (mm) | 35/100/920 | 35/100/920 | 35/100/920 | 35/100/920 | 40/100/920 |
| | 4.23 | Fork carriage DIN 15 173 --- ISO 2328, class/type A,B | | ISO2328 2A | ISO2328 2A | ISO2328 2A | ISO2328 2A | ISO2328 2A |
| | 4.24 | Fork-carriage width | $b_3$ (mm) | 1000 | 1000 | 1000 | 1000 | 1000 |
| | 4.25 | Distance between fork-arms | $b_5$ (mm) | 200/1000 | 200/1000 | 200/1000 | 200/1000 | 200/1000 |
| | 4.31 | Ground clearance, laden, below mast | $m_1$ (mm) | 100 | 100 | 100 | 100 | 100 |
| | 4.32 | Ground clearance, centre of wheelbase | $m_2$ (mm) | 110 | 110 | 110 | 110 | 110 |
| | 4.33 | Aisle width for pallets 1000 x 1200 crossways | $A_{st}$ (mm) | 3158 | 3158 | 3158 | 3228 | 3365 |
| | 4.34 | Aisle width for pallets 800 x 1200 lengthways | $A_{st}$ (mm) | 3280 | 3280 | 3280 | 3350 | 3490 |
| | 4.35 | Turning radius | $W_a$ (mm) | 1470 | 1470 | 1470 | 1540 | 1675 |
| Performance data | 5.1 | Travel speed, laden/unladen | km/h | 16/16 | 16/16 | 16/16 | 16/16 | 15/15 |
| | 5.2 | Lift speed, laden/unladen | mm/s | 450/600 | 450/600 | 450/600 | 430/550 | 400/550 |
| | 5.3 | Lowering speed, laden/unladen | mm/s | 460/440 | 460/440 | 460/440 | 460/420 | 470/420 |
| | 5.5 | Drawbar pull, laden/unladen | N | 3500 /4000 | 3400 /3950 | 3300/3900 | 3200/3800 | 3050/3700 |
| | 5.6 | Max. Drawbar pull, laden/unladen | N | 12000/12000 | 12000/12000 | 11600/11500 | 11500/11400 | 11200/11000 |
| | 5.7 | Gradeability, laden/unladen | % | 16/18 | 16/18 | 16/18 | 15/17 | 13/15 |
| | 5.8 | Max. gradeability, laden/unladen | % | 20/20 | 20/20 | 20/20 | 18/20 | 15/18 |
| | 5.9 | Acceleration time, laden/unladen (0-10m) | s | 4.5/4.1 | 4.6/4.2 | 4.7/4.3 | 4.8/4.4 | 4.9/4.5 |
| | 5.10 | Service brake | | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| | 5.11 | Parking brake | | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical |
| Electric-engine | 6.1 | Drive motor rating S2 60 min | kW | 5x2 AC | 5x2 AC | 5x2 AC | 5x2 AC | 5x2 AC |
| | 6.2 | Lift motor rating at S3 15% | kW | 15 AC | 15 AC | 15 AC | 15 AC | 15 AC |
| | 6.3 | Battery acc. to DIN 43 531/35/36 A,B,C, no | | no | no | no | no | no |
| | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 80/230 | 80/230 | 80/230 | 80/230 | 80/280 |
| | 6.8 | Min. battery weight | kg | 155 | 155 | 155 | 155 | 280 |
| | 6.9 | Max. battery weight | kg | 230 | 230 | 230 | 230 | 350 |
| Addition data | 8.1 | Type of drive control | | MOSFET/AC | MOSFET/AC | MOSFET/AC | MOSFET/AC | MOSFET/AC |
| | | Manufacturer | | D8G/B1： means Inmotion controller C2G:means Curtis controller. | | | | |
| | 8.2 | Operating pressure for attachments | bar | 150 | 150 | 150 | 150 | 150 |
| | 8.3 | Oil volume for attachments | l/min | 35 | 35 | 35 | 35 | 35 |
| | 8.4 | Sound level at the driver´s ear according to EN / DIN 12 053 | dB (A) | 72 | 72 | 73 | 73 | 74 |
| | 8.5 | Towing coupling, type DIN | | Φ24 Pin | Φ24 Pin | Φ24 Pin | Φ24 Pin | Φ24 Pin |
| | 9.1 | Hydraulic Tank - capacity (drain & refill) | liter | 33 | 33 | 33 | 33 | 43 |

Note: ❄ F2: Means the cold storage truck model F2 are suitable for use in cold storage environments down to -30 °C.
★ A: Anti-corrosion protection, the type A is suitable for enviroments with C5-I and C5-M ratings.

**EVE Battery Capacity**

| Capacity (Ah) | 1.3-1.5t | 1.6-1.8t | 2.0t |
|---|---|---|---|
| 230 | ● | ● | ○ |
| 280 | / | / | ● |
| 304 | ○ | ○ | ○ |
| 460 | / | / | ○ |

Note: ● Standard battery capacity; ○ Optional battery capacity; / Not available

**CATL Battery Capacity**

| Capacity (Ah) | 1.3-1.5t | 1.6-1.8t | 2.0t |
|---|---|---|---|
| 228 | ○ | ○ | / |
| 302 | ○ | ○ | ○ |
| 375 | / | / | ○ |

Note: ● Standard battery capacity; ○ Optional battery capacity; / Not available

# Technical data(Permanent magnet synchronous)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Distinguishing mark | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. | | | | |
| | 1.2 | Manufacturers type designation | | CPDS13-XCY2G-SI<br>CPDS13-XCY2B1-SI<br>CPDS13-XCY2G-SIF2 | CPDS15-XCY2G-SI<br>CPDS15-XCY2B1-SI<br>CPDS15-XCY2G-SIF2 | CPDS16-XCY2G-SI<br>CPDS16-XCY2B1-SI<br>CPDS16-XCY2G-SIF2 | CPDS18-XCY2G-SI<br>CPDS18-XCY2B1-SI<br>CPDS18-XCY2G-SIF2 | CPDS20-XCY2G-SI<br>CPDS20-XCY2B1-SI<br>CPDS20-XCY2G-SIF2 |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | electric | electric | electric | electric | electric |
| | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | seated | seated | seated | seated | seated |
| | 1.5 | Load capacity/rated load | Q (kg) | 1300 | 1500 | 1600 | 1800 | 2000 |
| | 1.6 | Load centre distance | c (mm) | 500 | 500 | 500 | 500 | 500 |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 360 | 360 | 360 | 360 | 365 |
| | 1.9 | Wheelbase | y (mm) | 1277 | 1277 | 1277 | 1347 | 1477 |
| Weight | 2.1 | Service Weight | kg | 2570 | 2930 | 3100 | 3350 | 3460 |
| | 2.2 | Axle loading, laden front/rear | kg | 3420/450 | 3767/663 | 4011/689 | 4392/758 | 4596/864 |
| | 2.3 | Axle loading, unladen front/rear | kg | 1185/1385 | 1258/1672 | 1335/1765 | 1447/1903 | 1533/1927 |
| Tyres, chassis | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | solid | solid | solid | solid | solid |
| | 3.2 | Tyre size, front | | 18x7 - 8 | 18x7 - 8 | 18x7 - 8 | 18x7 - 8 | 200/50 - 10 |
| | 3.3 | Tyre size, rear | | 15x4.5 - 8 | 15x4.5 - 8 | 15x4.5 - 8 | 140/55-9 | 140/55-9 |
| | 3.5 | Wheels, number front rear (x = driven wheels) | | 2x/2 | 2x/2 | 2x/2 | 2x/2 | 2x/2 |
| | 3.6 | Tread, front | $b_{10}$ (mm) | 910 | 910 | 910 | 910 | 928 |
| | 3.7 | Tread, rear | $b_{11}$ (mm) | 180 | 180 | 180 | 212 | 212 |
| Dimensions | 4.1 | Tilt of mast/fork carriage forward/backward | Grad | 7/6 | 7/6 | 7/6 | 7/6 | 7/6 |
| | 4.2 | Height, mast lowered | $h_1$ (mm) | 1978 | 1978 | 1978 | 1978 | 1978 |
| | 4.3 | Free lift | $h_2$ (mm) | 135 | 135 | 135 | 135 | 140 |
| | 4.4 | Lift | $h_3$ (mm) | 3000 | 3000 | 3000 | 3000 | 3000 |
| | 4.5 | Height, mast extended | $h_4$ (mm) | 3945 | 3945 | 3945 | 3945 | 3945 |
| | 4.7 | Height of overhead guard STD.(Cabin) | $h_6$ (mm) | 2100(2165) | 2100(2165) | 2100(2165) | 2100(2165) | 2100(2165) |
| | 4.9 | Seat height/stand height | $h_7$ (mm) | 1000 | 1000 | 1000 | 1000 | 1000 |
| | 4.12 | Coupling height | $h_{10}$ (mm) | 520 | 520 | 520 | 520 | 520 |
| | 4.19 | Overall length | $l_1$ (mm) | 2754 | 2754 | 2754 | 2824 | 3104 |
| | 4.20 | Length to face of forks | $l_2$ (mm) | 1834 | 1834 | 1834 | 1904 | 2034 |
| | 4.21 | Overall width | $b_1$ (mm) | 1086 | 1086 | 1086 | 1086 | 1120 |
| | 4.22 | Fork dimensions | s/e/l (mm) | 35/100/920 | 35/100/920 | 35/100/920 | 35/100/920 | 40/100/920 |
| | 4.23 | Fork carriage DIN 15 173 --- ISO 2328, class/type A,B | | ISO2328 2A | ISO2328 2A | ISO2328 2A | ISO2328 2A | ISO2328 2A |
| | 4.24 | Fork-carriage width | $b_3$ (mm) | 1000 | 1000 | 1000 | 1000 | 1000 |
| | 4.25 | Distance between fork-arms | $b_5$ (mm) | 200/1000 | 200/1000 | 200/1000 | 200/1000 | 200/1000 |
| | 4.31 | Ground clearance, laden, below mast | $m_1$ (mm) | 100 | 100 | 100 | 100 | 100 |
| | 4.32 | Ground clearance, centre of wheelbase | $m_2$ (mm) | 110 | 110 | 110 | 110 | 110 |
| | 4.33 | Aisle width for pallets 1000 x 1200 crossways | $A_{st}$ (mm) | 3158 | 3158 | 3158 | 3228 | 3365 |
| | 4.34 | Aisle width for pallets 800 x 1200 crossways | $A_{st}$ (mm) | 3280 | 3280 | 3280 | 3350 | 3490 |
| | 4.35 | Turning radius | $W_a$ (mm) | 1470 | 1470 | 1470 | 1540 | 1675 |
| Performance data | 5.1 | Travel speed, laden/unladen | km/h | 16/16 | 16/16 | 16/16 | 16/16 | 15/15 |
| | 5.2 | Lift speed, laden/unladen | mm/s | 450/600 | 450/600 | 450/600 | 430/550 | 400/550 |
| | 5.3 | Lowering speed, laden/unladen | mm/s | 460/440 | 460/440 | 460/440 | 460/420 | 470/420 |
| | 5.5 | Drawbar pull, laden/unladen | N | 3500 /4000 | 3400 /3950 | 3300/3900 | 3200/3800 | 3050/3700 |
| | 5.6 | Max. Drawbar pull, laden/unladen | N | 12000/12000 | 12000/12000 | 11600/11500 | 11500/11400 | 11200/11000 |
| | 5.7 | Gradeability, laden/unladen | % | 16/18 | 16/18 | 16/18 | 15/17 | 13/15 |
| | 5.8 | Max. gradeability, laden/unladen | % | 20/20 | 20/20 | 20/20 | 18/20 | 15/18 |
| | 5.9 | Acceleration time, laden/unladen (0-10m) | s | 4.5/4.1 | 4.6/4.2 | 4.7/4.3 | 4.8/4.4 | 4.9/4.5 |
| | 5.10 | Service brake | | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| | 5.11 | Parking brake | | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical |
| Electric-engine | 6.1 | Drive motor rating S2 60 min | kW | 5x2 AC | 5x2 AC | 5x2 AC | 5x2 AC | 5x2 AC |
| | 6.2 | Lift motor rating at S3 15% | kW | 11AC | 11AC | 11AC | 11AC | 11AC |
| | 6.3 | Battery acc. to DIN 43 531/35/36 A,B,C, no | | no | no | no | no | no |
| | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 80/230 | 80/230 | 80/230 | 80/230 | 80/230 |
| | 6.8 | Min. battery weight | kg | 155 | 155 | 155 | 155 | 280 |
| | 6.9 | Max. battery weight | kg | 230 | 230 | 230 | 230 | 350 |
| Addition data | 8.1 | Type of drive control | | MOSFET/AC | MOSFET/AC | MOSFET/AC | MOSFET/AC | MOSFET/AC |
| | | Manufacturer | | Y2G/B1:means Enpower controller. | | | | |
| | 8.2 | Operating pressure for attachments | bar | 150 | 150 | 150 | 150 | 150 |
| | 8.3 | Oil volume for attachments | l/min | 35 | 35 | 35 | 35 | 35 |
| | 8.4 | Sound level at the driver´s ear according to EN / DIN 12 053 | dB (A) | 72 | 72 | 73 | 73 | 74 |
| | 8.5 | Towing coupling, type DIN | | Φ24 Pin | Φ24 Pin | Φ24 Pin | Φ24 Pin | Φ24 Pin |
| | 9.1 | Hydraulic Tank - capacity (drain & refill) | liter | 33 | 33 | 33 | 33 | 43 |

Note: ❄ F2: Means the cold storage truck model F2 are suitable for use in cold storage environments down to -30 °C.

**EVE Battery Capacity(Permanent magnet synchronous)**

| Capacity (Ah) | 1.3-1.5t | 1.6-1.8t | 2.0t |
|---|---|---|---|
| 230 | ● | ● | ● |
| 280 | / | / | ○ |
| 304 | ○ | ○ | ○ |
| 460 | / | / | ○ |

Note: ● Standard battery capacity; ○ Optional battery capacity; / Not available

**CATL Battery Capacity(Permanent magnet synchronous)**

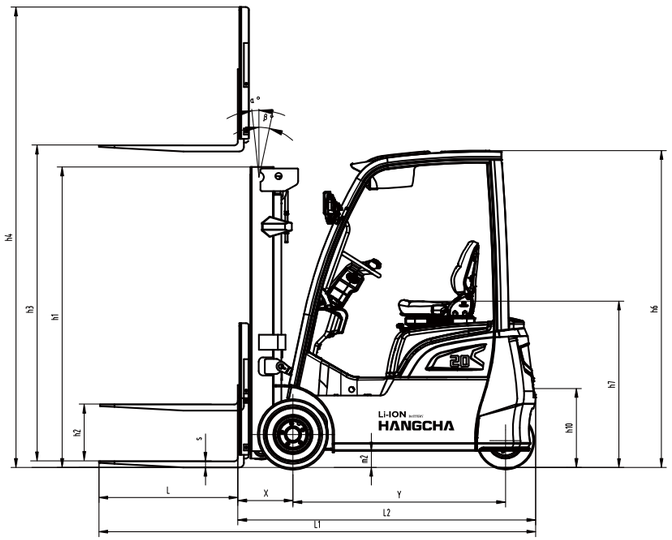
| Capacity (Ah) | 1.3-1.5t | 1.6-1.8t | 2.0t |
|---|---|---|---|
| 228 | ○ | ○ | / |
| 302 | ○ | ○ | ○ |
| 375 | / | / | ○ |

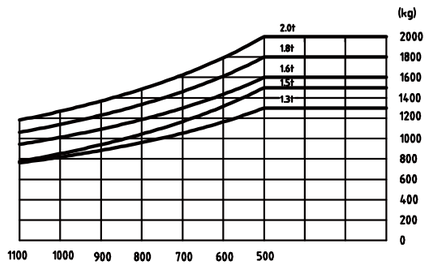
Note: ● Standard battery capacity; ○ Optional battery capacity; / Not available

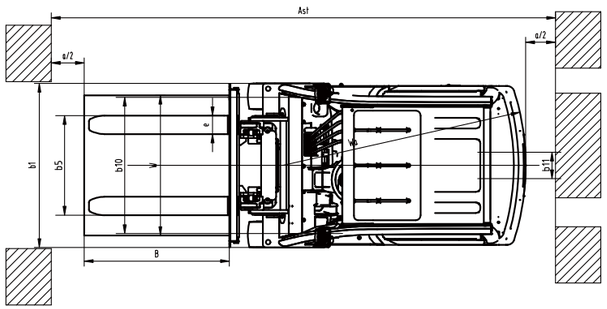
# XC Series 3-Wheel Electric Forklift Truck With Lithium Power Mast Specification

| Type | Model | Lifting height | Lowered overall height | Overall height | | Free lifting height | | Tilt range | | Capacity | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | With backrest | Without backrest | With backrest | Without backrest | F | R | Load center@500mm | | | | |
| | | | | | | | | | | 1.3t | 1.5t | 1.6t | 1.8t | 2.0t |
| | | mm | mm | mm | mm | mm | mm | (°) | (°) | kg | kg | kg | kg | kg |
| 2-stage wide view mast | M250 | 2500 | 1738 | 3445 | 3060 | 140 | 140 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | M270 | 2700 | 1838 | 3645 | 3260 | 140 | 140 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | M300 | 3000 | 1988 | 3945 | 3560 | 140 | 140 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | M330 | 3300 | 2138 | 4245 | 3860 | 140 | 140 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | M350 | 3500 | 2238 | 4445 | 4060 | 140 | 140 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | M360 | 3600 | 2338 | 4545 | 4160 | 140 | 140 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | M400 | 4000 | 2588 | 4945 | 4560 | 140 | 140 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | M430 | 4300 | 2738 | 5245 | 4860 | 140 | 140 | 7 | 6 | 1200 | 1400 | 1500 | 1700 | 1900 |
| | M450 | 4500 | 2838 | 5445 | 5060 | 140 | 140 | 7 | 6 | 1100 | 1300 | 1400 | 1600 | 1800 |
| 2-stage full-free lifting mast | U250 | 2500 | 1738 | 3445 | 3060.5 | 793 | 1090 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | U270 | 2700 | 1838 | 3645 | 3260.5 | 893 | 1190 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | U300 | 3000 | 1988 | 3945 | 3560.5 | 1043 | 1340 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | U330 | 3300 | 2138 | 4245 | 3860.5 | 1193 | 1490 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | U350 | 3500 | 2238 | 4445 | 4060.5 | 1293 | 1590 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | U360 | 3600 | 2288 | 4545 | 4160.5 | 1343 | 1640 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | U400 | 4000 | 2538 | 4945 | 4560.5 | 1593 | 1940 | 7 | 6 | 1300 | 1500 | 1600 | 1800 | 2000 |
| 3-stage full-free lifting mast | N400 | 4000 | 1888 | 4955 | 4552 | 943 | 1292 | 3.5 | 5 | 1300 | 1500 | 1600 | 1800 | 2000 |
| | N430 | 4300 | 1988 | 5255 | 4852 | 1043 | 1392 | 3.5 | 5 | 1200 | 1400 | 1500 | 1700 | 1900 |
| | N450 | 4500 | 2038 | 5455 | 5052 | 1093 | 1392 | 3.5 | 5 | 1100 | 1300 | 1400 | 1600 | 1800 |
| | N470 | 4700 | 2113 | 5655 | 5252 | 1168 | 1492 | 3.5 | 5 | 1000 | 1200 | 1300 | 1500 | 1700 |
| | N480 | 4800 | 2138 | 5755 | 5352 | 1193 | 1492 | 3.5 | 5 | 1000 | 1200 | 1300 | 1500 | 1700 |
| | N500 | 5000 | 2213 | 5955 | 5552 | 1268 | 1592 | 3.5 | 5 | 900 | 1100 | 1200 | 1400 | 1600 |
| | N550 | 5500 | 2388 | 6455 | 6052 | 1443 | 1792 | 3.5 | 5 | 800 | 1000 | 1100 | 1250 | 1500 |
| | N600 | 6000 | 2588 | 6955 | 6552 | 1643 | 1992 | 3.5 | 5 | 700 | 900 | 1000 | 1100 | 1300 |
| | N650 | 6500 | 2788 | 7455 | 7052 | 1843 | 2192 | 3.5 | 5 | 530 | 730 | 800 | 950 | 1100 |

With sideshifter minus 200kg, with integrated sideshifer minus 100kg.




a=200mm

$$AST=a+W_a+\sqrt{(X+B)^2+(W/2)^2}$$

