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"Hangcha Forklift"  
App herunterladen



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

HANGCHA Group Co., LTD behält sich das Recht vor, Änderungen bezgl. Farbe, Spezifikationen, Ausstattung und sonstige Details, dierer Broschüre ohne Vorankündigung vorzunehmen. Fahrzeugfarben können von den Farben in dieser Brochure abweichen.

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## XC Series 4-W Electric Forklift Truck With Lithium Iron-Phosphate

with capacity of 2,000 to 3,500kg



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# INNOVATIVE LOSUNGEN JETZT NEUE KRAFT



Die neuen elektrischen Elektrostapler der XC-Serie mit einem Bereich von 1,5 bis 3,5 t sind eine Reihe von Produkten mit neuem Fahrgestell, das von HANGCHA auf den Markt gebracht wurde.

Schnelles Laden und Opportunity-Laden gewährleisten die kontinuierliche Verfügbarkeit von Stapler.  
Leichtes Design, flexibel, hohe Energieeffizienz, wartungs-frei, lange Lebensdauer.

## EVE Akkupack

| Batteriekapazität(kW-h) |            |                       |
|-------------------------|------------|-----------------------|
| Pack1                   | 1.5 - 1.8t | 76.8V*230Ah, 17.66kWh |
| Pack2                   | 1.5 - 1.8t | 76.8V*304Ah, 23.34kWh |
| Pack3                   | 2.0 - 2.5t | 76.8V*230Ah, 17.66kWh |
| Pack4                   | 2.0 - 2.5t | 76.8V*304Ah, 23.34kWh |
| Pack5                   | 2.0 - 2.5t | 76.8V*460Ah, 35.32kWh |
| Pack6                   | 3.0 - 3.5t | 76.8V*304Ah, 23.34kWh |
| Pack7                   | 3.0 - 3.5t | 76.8V*460Ah, 35.32kWh |
| Pack8                   | 3.0 - 3.5t | 76.8V*560Ah, 43.00kWh |
| Pack9                   | 3.0 - 3.5t | 76.8V*608Ah, 46.69kWh |

6 YEARS  
WARRANTY

HANGCHA verwendet Li-Ionen Batterien mit 12.000 Betriebsstunden bzw. sechs Jahren Garantie.



## CATL-Akkupacks (optional)

| Batteriekapazität(kW-h) |            |                     |
|-------------------------|------------|---------------------|
| Pack1                   | 1.5 - 1.8t | 80V*228Ah, 18.24Kwh |
| Pack2                   | 1.5 - 1.8t | 80V*302Ah, 24.16Kwh |
| Pack3                   | 2.0 - 2.5t | 80V*302Ah, 24.16Kwh |
| Pack4                   | 2.0 - 2.5t | 80V*456Ah, 36.48Kwh |
| Pack5                   | 3.0 - 3.5t | 80V*456Ah, 36.48Kwh |
| Pack6                   | 3.0 - 3.5t | 80V*604Ah, 48.32Kwh |

## Ausgezeichnet Ergonomisches Design

- / Der Stapler hat einen großen Betriebsraum, der mehr als 50% größer ist als der herkömmliche Elektro-Stapler.
- / Das Display mit Einstellungsmöglichkeiten in der Fahrerkabine befindet sich über dem Kopf und ist sichtbar, wenn der Fahrer den Kopf hebt, und die Funktionstasten können leicht gedrückt werden.
- / Optional ist das Display mit Touch Screen erhältlich. Der Not-Aus-Schalter, Hupe und Finger-Tip-Steuerung (optional) ist in der Armauflage integriert und wird über Can-Bus sehr zuverlässig gesteuert.
- / Das vergrößerte Bremspedal und die entsprechende regenerative Bremsfunktion können die Ermüdung des Fahrers wirksam reduzieren.



## Vorteile



Die Hinterachse ist mit einem flexiblen Federungssystem ausgestattet (für die Standardkonfiguration und die automatische Verzögerung in Kurven verbessern Sie den Fahrerkomfort.

Die integrierte Hochfrequenz-MOSFET-Steuerung gewährleistet eine reibungslose und genaue Fahr- und Hubsteuerung und verfügt über eine hervorragende Drehzahlregelungsleistung, eine gute Leistung der auf den Motor abgestimmten elektronischen Steuerung, Funktionen für regeneratives Bremsen, Rückwärtsbremsen und Antirutschen auf Rampen usw. und hohe Sicherheit und Zuverlässigkeit.

Ein Wechselstrom-Pumpenmotor mit ultrahoher Leistung wird verwendet. Das System verfügt über einen hohen Wirkungsgrad, vollständige Schutzfunktionen, integrierte Geschwindigkeits- und Temperatursensoren sowie eine erheblich verbesserte Zuverlässigkeit und Lebensdauer.



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RELIABLE  
TRUCKS

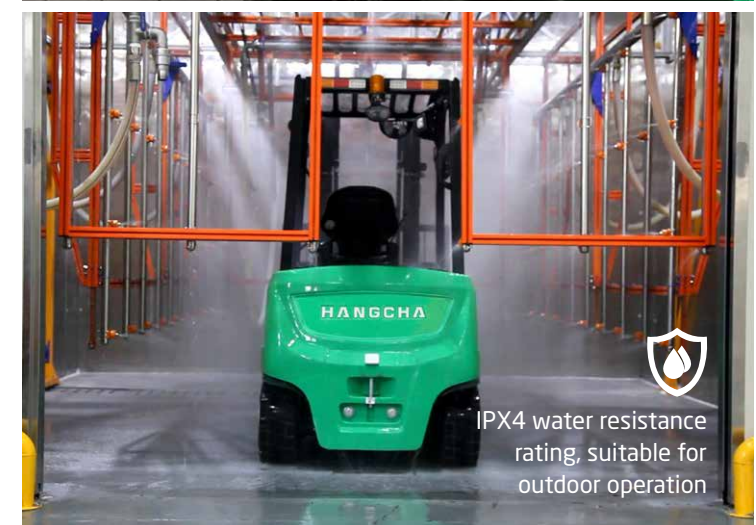


## Easy operations and maintenance

Internal Components Protected with Fully-sealed Hood, controllers, motors electrical components, etc. are sealed from dust and water.



The hood can be opened at a large angle facilitating the maintenance.



IPX4 water resistance rating, suitable for outdoor operation



**FIMS**  
FLEET INTELLIGENT  
MANAGEMENT SYSTEM

MOBILE SOLUTION  
PROVIDING A MOBILE  
APPLICATION



## KEEP AN EYE ON EVERYTHING

Hangcha FIMS is a system that provides you with real-time information about forklift truck and driver. Whether you have dozens or hundreds of forklift trucks across multiple sites, you can get access to collecting, monitoring and evaluating all the fleet data at anytime and anywhere.

### » Features

- Access Control
- GPS Tracking
- Remote Monitoring
- Maintenance Reminder
- Vehicle Management
- Vibration Monitoring
- Pre-shift Check (Optional)
- Shift Management (Optional)
- OpenAPI (Optional)



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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.

## Safety

The optional OPS system can disable the lowering when the driver leaves the seat and enable high safety.

The standard configuration provides soft landing system. In addition, an optional lift buffering system 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.



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.



IP67 Protection Rating



Quick charge < 2.0h

## Comfort

Owing to the low center of gravity and good stability, the driver feels comfortable during turning.

The ergonomically designed adjustable 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.

New designed mast increases the wide view by 15%.

With friendly human-computer interfaces, the 4.33" True Color Screen instruments have good visibility and clear readings.

Silence, no pollution, energy saving and other advantages meet the environmental protection requirements.



Grammer fingertip (Optional)

## Options

- / Lithium packs that can be replaced quickly
- / Pin code or card
- / Super elastic tyre
- / Marked solid tyre
- / Left and right rear view mirrors
- / Backup camera
- / Front/rear blue lights
- / Rear working lights
- / Charger
- / Reverse armrest
- / Hood with a key lock
- / OPS system
- / Lift buffering system
- / Multi way valves
- / Integrated fingertip control system
- / Widened / heightened load backrest
- / Widened fork carriage
- / Other length forks
- / Full free duplex mast
- / Full free triplex mast
- / Sideshifter
- / Other attachments
- / Grammer MSG531 suspension seat
- / Automatic deceleration at turns
- / FIMS(Fleet intelligent management system)

## Standard specification

- / Lithium packs with low temperature electric heating systems
- / High-power AC drive motor
- / High-power AC pump motor
- / Low noise gear pump
- / Multi-function color screen instrument cluster
- / Large integral rubber pedal pad
- / LED combination headlights, LED rear combination taillights
- / Stamped iron hood
- / Soft landing system
- / SPE power selection
- / Charging muzzle meeting national standards
- / Electronic cooling fan
- / Emergency cut-off switch
- / Reversing buzzer
- / Traction pin
- / Folder
- / Load sensing steering system
- / Duplex mast
- / Tilt cylinder jacket



## Main Accessories

The main electrical components such as the controller, contactor, power plug, emergency cut-off switch, dashboard, accelerator, are all products of well-known world brands.

The emergency cut-off switch equipped for the standard configuration complies with EU regulations.

The truck has passed the CE certification.



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2.0~2.5t XC series mast specification

| Type                   | Model     | Lifting height | Lowered overall height | Overall height   |               | Free lifting height |               | Tilting range |       | Capacity (Mast vertical to ground) |      |             |      |
|------------------------|-----------|----------------|------------------------|------------------|---------------|---------------------|---------------|---------------|-------|------------------------------------|------|-------------|------|
|                        |           |                |                        | Without backrest | With backrest | Without backrest    | With backrest | FWD           | BWD   | Load center@500mm                  |      |             |      |
|                        |           |                |                        |                  |               |                     |               |               |       | Single Tire                        |      | Double Tire |      |
|                        |           |                |                        |                  |               |                     |               |               |       | 2.0t                               | 2.5t | 2.0t        | 2.5t |
|                        |           | mm             | mm                     | mm               | mm            | mm                  | mm            | ( ° )         | ( ° ) | kg                                 | kg   | kg          | kg   |
| Duplex wide view mast  | XPD25M200 | 2000           | 1501                   | 2626             | 3046          | 140                 | 140           | 6             | 6     | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M250 | 2500           | 1751                   | 3126             | 3546          | 140                 | 140           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M270 | 2700           | 1851                   | 3326             | 3746          | 140                 | 140           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M300 | 3000           | 2001                   | 3626             | 4046          | 140                 | 140           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M330 | 3300           | 2151                   | 3926             | 4346          | 140                 | 140           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M350 | 3500           | 2251                   | 4126             | 4546          | 140                 | 140           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M360 | 3600           | 2351                   | 4226             | 4646          | 140                 | 140           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M370 | 3700           | 2401                   | 4326             | 4746          | 140                 | 140           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M400 | 4000           | 2601                   | 4626             | 5046          | 140                 | 140           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M430 | 4300           | 2751                   | 4926             | 5346          | 140                 | 140           | 6             | 6     | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25M450 | 4500           | 2851                   | 5126             | 5546          | 140                 | 140           | 6             | 6     | 2000                               | 2450 | 2000        | 2500 |
|                        | XPD25M470 | 4700           | 2951                   | 5326             | 5746          | 140                 | 140           | 6             | 6     | 1950                               | 2350 | 2000        | 2450 |
|                        | XPD25M480 | 4800           | 3001                   | 5426             | 5846          | 140                 | 140           | 6             | 6     | 1950                               | 2350 | 2000        | 2450 |
|                        | XPD25M500 | 5000           | 3101                   | 5626             | 6046          | 140                 | 140           | 6             | 6     | 1850                               | 2300 | 1950        | 2350 |
|                        | XPD25M550 | 5500           | 3351                   | 6126             | 6546          | 140                 | 140           | 3             | 6     | 1750                               | 2150 | 1900        | 2200 |
|                        | XPD25M600 | 6000           | 3601                   | 6626             | 7046          | 140                 | 140           | 3             | 6     | 1550                               | 1900 | 1800        | 2000 |
| Duplex full-free mast  | XPD25U200 | 2000           | 1516                   | 2749             | 3046          | 842                 | 470           | 6             | 6     | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25U250 | 2500           | 1766                   | 3173.5           | 3546          | 1092                | 720           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25U270 | 2700           | 1866                   | 3373.5           | 3746          | 1192                | 820           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25U300 | 3000           | 2016                   | 3673.5           | 4046          | 1342                | 970           | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25U330 | 3300           | 2166                   | 3973.5           | 4346          | 1492                | 1120          | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25U350 | 3500           | 2266                   | 4173.5           | 4546          | 1592                | 1220          | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25U360 | 3600           | 2316                   | 4273.5           | 4646          | 1642                | 1270          | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25U370 | 3700           | 2366                   | 4373.5           | 4746          | 1692                | 1320          | 6             | 12    | 2000                               | 2500 | 2000        | 2500 |
| Triplex full-free mast | XPD25N400 | 4000           | 1966                   | 4670.5           | 5046          | 1195                | 920           | 6             | 6     | 2000                               | 2500 | 2000        | 2500 |
|                        | XPD25N430 | 4300           | 2066                   | 4970.5           | 5346          | 1295                | 1020          | 6             | 6     | 2000                               | 2450 | 2000        | 2500 |
|                        | XPD25N450 | 4500           | 2116                   | 5170.5           | 5546          | 1345                | 1070          | 6             | 6     | 2000                               | 2350 | 2000        | 2450 |
|                        | XPD25N470 | 4700           | 2216                   | 5370.5           | 5746          | 1445                | 1170          | 6             | 6     | 1950                               | 2250 | 2000        | 2350 |
|                        | XPD25N480 | 4800           | 2266                   | 5470.5           | 5846          | 1495                | 1220          | 6             | 6     | 1950                               | 2250 | 2000        | 2350 |
|                        | XPD25N500 | 5000           | 2366                   | 5670.5           | 6046          | 1595                | 1320          | 6             | 6     | 1850                               | 2100 | 1950        | 2250 |
|                        | XPD25N550 | 5500           | 2566                   | 6170.5           | 6546          | 1795                | 1520          | 3             | 6     | 1750                               | 2050 | 1900        | 2100 |
|                        | XPD25N600 | 6000           | 2816                   | 6670.5           | 7046          | 2045                | 1770          | 3             | 6     | 1550                               | 1850 | 1800        | 1950 |
|                        | XPD25N650 | 6500           | 3016                   | 7170.5           | 7546          | 2245                | 1970          | 3             | 6     | /                                  | /    | 1550        | 1800 |
|                        | XPD25N700 | 7000           | 3266                   | 7766             | 8046          | 2695                | 2220          | 3             | 6     | /                                  | /    | 1150        | 1450 |

With sideshifter minus 200kg,with integral sideshifter minus 150kg.

3.0~3.5t XC series mast specification

| Type                   | Model     | Lifting height | Lowered overall height | Overall height   |               | Free lifting height |               | Tilting range |      | Capacity (Mast vertical to ground) |      |             |      |
|------------------------|-----------|----------------|------------------------|------------------|---------------|---------------------|---------------|---------------|------|------------------------------------|------|-------------|------|
|                        |           |                |                        | Without backrest | With backrest | Without backrest    | With backrest | FWD           | BWD  | Load center@500mm                  |      |             |      |
|                        |           |                |                        |                  |               |                     |               |               |      | Single Tire                        |      | Double Tire |      |
|                        |           |                |                        |                  |               |                     |               |               |      | 3.0t                               | 3.5t | 3.0t        | 3.5t |
|                        |           | mm             | mm                     | mm               | mm            | mm                  | mm            | (°)           | (°)  | kg                                 | kg   | kg          | kg   |
| Duplex wide view mast  | XPD35M200 | 2000           | 1651                   | 2784             | 3142          | 145/150             | 145/150       | 6             | 6    | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35M250 | 2500           | 1901                   | 3284             | 3642          | 145/150             | 145/150       | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35M270 | 2700           | 2001                   | 3484             | 3842          | 145/150             | 145/150       | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35M300 | 3000           | 2151                   | 3784             | 4142          | 145/150             | 145/150       | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35M330 | 3300           | 2301                   | 4084             | 4442          | 145/150             | 145/150       | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35M360 | 3600           | 2451                   | 4384             | 4742          | 145/150             | 145/150       | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35M400 | 4000           | 2751                   | 4784             | 5142          | 145/150             | 145/150       | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35M430 | 4300           | 2901                   | 5084             | 5442          | 145/150             | 145/150       | 6             | 6    | 3000                               | 3400 | 3000        | 3500 |
|                        | XPD35M450 | 4500           | 3001                   | 5284             | 5642          | 145/150             | 145/150       | 6             | 6    | 3000                               | 3300 | 3000        | 3400 |
|                        | XPD35M480 | 4800           | 3151                   | 5584             | 5942          | 145/150             | 145/150       | 6             | 6    | 2950                               | 3200 | 3000        | 3300 |
|                        | XPD35M500 | 5000           | 3251                   | 5784             | 6142          | 145/150             | 145/150       | 6             | 6    | 2850                               | 3100 | 2900        | 3200 |
|                        | XPD35M550 | 5500           | 3501                   | 6284             | 6642          | 145/150             | 145/150       | 3             | 6    | 2670                               | 3000 | 2750        | 3100 |
| XPD35M600              | 6000      | 3751           | 6784                   | 7142             | 145/150       | 145/150             | 3             | 6             | 2350 | 2650                               | 2500 | 2800        |      |
| Duplex full-free mast  | XPD35U250 | 2500           | 1916                   | 3313             | 3642          | 1088                | 759           | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35U270 | 2700           | 2016                   | 3513             | 3842          | 1188                | 859           | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35U300 | 3000           | 2166                   | 3813             | 4142          | 1338                | 1009          | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35U330 | 3300           | 2316                   | 4113             | 4442          | 1488                | 1159          | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35U360 | 3600           | 2466                   | 4413             | 4742          | 1638                | 1309          | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
|                        | XPD35U400 | 4000           | 2716                   | 4813             | 5142          | 1888                | 1559          | 6             | 12   | 3000                               | 3500 | 3000        | 3500 |
| Triplex full-free mast | XPD35N400 | 4000           | 2051                   | 4827             | 5142          | 1224                | 906           | 6             | 6    | 3000                               | 3400 | 3000        | 3500 |
|                        | XPD35N430 | 4300           | 2151                   | 5127             | 5442          | 1324                | 1006          | 6             | 6    | 3000                               | 3300 | 3000        | 3400 |
|                        | XPD35N450 | 4500           | 2201                   | 5327             | 5642          | 1374                | 1056          | 6             | 6    | 3000                               | 3200 | 3000        | 3300 |
|                        | XPD35N470 | 4700           | 2301                   | 5527             | 5842          | 1474                | 1156          | 6             | 6    | 2900                               | 3100 | 2950        | 3200 |
|                        | XPD35N480 | 4800           | 2351                   | 5627             | 5942          | 1524                | 1206          | 6             | 6    | 2900                               | 3100 | 2950        | 3200 |
|                        | XPD35N500 | 5000           | 2451                   | 5827             | 6142          | 1624                | 1306          | 6             | 6    | 2850                               | 3050 | 2900        | 3150 |
|                        | XPD35N550 | 5500           | 2651                   | 6327             | 6642          | 1824                | 1506          | 3             | 6    | 2670                               | 3000 | 2750        | 3100 |
|                        | XPD35N600 | 6000           | 2901                   | 6827             | 7142          | 2074                | 1756          | 3             | 6    | 2350                               | 2650 | 2500        | 2800 |
|                        | XPD35N650 | 6500           | 3151                   | 7327             | 7642          | 2324                | 2006          | 3             | 6    | /                                  | /    | 2200        | 2400 |
|                        | XPD35N700 | 7000           | 3401                   | 7901             | 8142          | 2500                | 2256          | 3             | 6    | /                                  | /    | 1850        | 2050 |

With sideshifter minus 200kg,with integral sideshifter minus 150kg.



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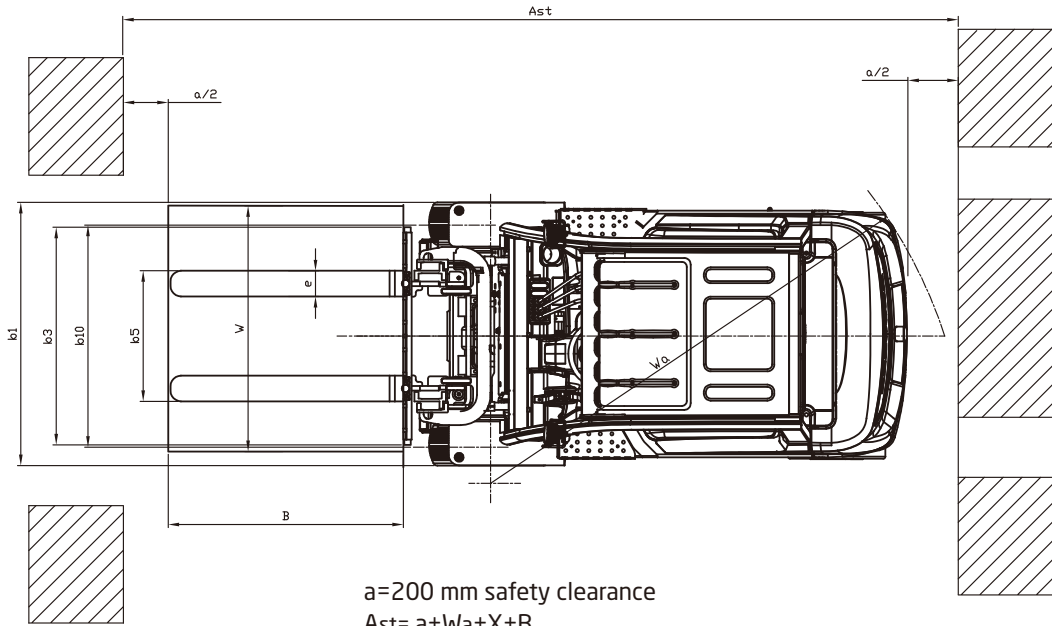
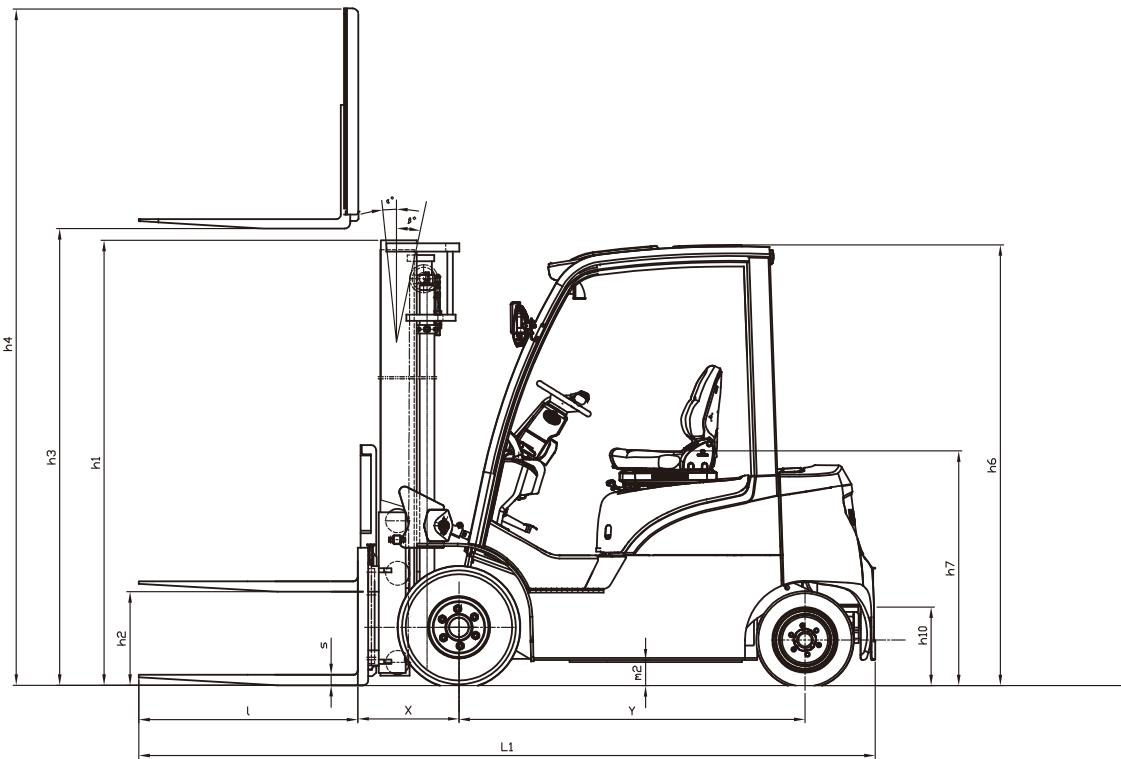
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Mail: kontakt@hedemann-stapler.de  
Web: www.hedemann-stapler.de



XC Series Electric Forklift

| Distinguishing mark | 1.1              | Manufacturer                                                    |                             | HANGCHA GROUP CO.,LTD.    |                                |                                |                 |
|---------------------|------------------|-----------------------------------------------------------------|-----------------------------|---------------------------|--------------------------------|--------------------------------|-----------------|
|                     | 1.2              | Manufacturers type designation                                  |                             | CPD20-XD6-SI21*           | CPD25-XD6-SI21*                | CPD30-XD6-SI21*                | CPD35-XD6-SI21* |
|                     | 1.3              | Drive: electric (battery or mains), diesel, petrol, fuel gas    |                             | Electric                  | Electric                       | Electric                       | Electric        |
|                     | 1.4              | Operator type: hand, pedestrian, standing, seated, order-picker |                             | Seated                    | Seated                         | Seated                         | Seated          |
|                     | 1.5              | Load capacity/rated load                                        | Q (kg)                      | 2000                      | 2500                           | 3000                           | 3500            |
|                     | 1.6              | Load centre distance                                            | c (mm)                      | 500                       | 500                            | 500                            | 500             |
|                     | 1.7              | Load distance, centre of drive axle to fork                     | x (mm)                      | 444                       | 444                            | 477                            | 482             |
|                     | 1.8              | Wheelbase                                                       | y (mm)                      | 1520                      | 1520                           | 1650                           | 1650            |
| Weight              | 2.1              | Service Weight                                                  | kg                          | 3620                      | 3920                           | 4740                           | 5080            |
|                     | 2.2              | Axle loading, laden front/rear                                  | kg                          | 5040/680                  | 5820/700                       | 6745/1095                      | 7800/880        |
|                     | 2.3              | Axle loading, unladen front/rear                                | kg                          | 1620/2000                 | 1670/2250                      | 2010/2730                      | 2100/2980       |
| Tyres, chassis      | 3.1              | Tyres: solid rubber, super elastic, pneumatic, polyurethane     |                             | Pneumatic                 | Pneumatic                      | Pneumatic                      | Super elastic   |
|                     | 3.2              | Tyre size, front                                                |                             | 23×9-10                   | 23×9-10                        | 23×9-10                        | 23×10-12        |
|                     | 3.3              | Tyre size, rear                                                 |                             | 18×7-8                    | 18×7-8                         | 18×7-8                         | 200/50-10       |
|                     | 3.4              | Wheels, number front rear (x = driven wheels)                   |                             | 2x/2                      | 2x/2                           | 2x/2                           | 2x/2            |
|                     | 3.5              | Tread, front                                                    | b10 (mm)                    | 1068                      | 1068                           | 1068                           | 1068            |
|                     | 3.6              | Tread, rear                                                     | b11 (mm)                    | 960                       | 960                            | 960                            | 960             |
| Dimensions          | 4.1              | Tilt of mast/fork carriage forward/backward                     | α/β(°)                      | 6/12                      | 6/12                           | 6/12                           | 6/12            |
|                     | 4.2              | Height, mast lowered                                            | h1 (mm)                     | 2001                      | 2001                           | 2151                           | 2151            |
|                     | 4.3              | Free lift                                                       | h2 (mm)                     | 140                       | 140                            | 140                            | 145             |
|                     | 4.4              | Lift                                                            | h3 (mm)                     | 3000                      | 3000                           | 3000                           | 3000            |
|                     | 4.5              | Height, mast extended                                           | h4 (mm)                     | 4040                      | 4040                           | 4135                           | 4135            |
|                     | 4.7              | Height of overhead guard STD. (Cabin)                           | h6 (mm)                     | 2100(2180)                | 2100(2180)                     | 2100(2180)                     | 2100(2180)      |
|                     | 4.8              | Seat height/stand height                                        | h7 (mm)                     | 1120                      | 1120                           | 1120                           | 1120            |
|                     | 4.9              | Coupling height                                                 | h10 (mm)                    | 430                       | 430                            | 430                            | 430             |
|                     | 4.10             | Overall length                                                  | l1 (mm)                     | 3370                      | 3370                           | 3550                           | 3550            |
|                     | 4.11             | Length to face of forks                                         | l2 (mm)                     | 2300                      | 2300                           | 2480                           | 2480            |
|                     | 4.12             | Overall width                                                   | b1 (mm)                     | 1252                      | 1252                           | 1252                           | 1298            |
|                     | 4.13             | Fork dimensions                                                 | s/e/l (mm)                  | 40/122/1070               | 40/122/1070                    | 45/122/1070                    | 50/122/1070     |
|                     | 4.14             | Fork carriage DIN 15 173 --- ISO 2328, class/type A,B           |                             | ISO2328 2A                | ISO2328 2A                     | ISO2328 3A                     | ISO2328 3A      |
|                     | 4.15             | Fork-carriage width                                             | b3 (mm)                     | 1038                      | 1038                           | 1100                           | 1100            |
|                     | 4.16             | Distance between fork-arms                                      | b5 (mm)                     | 290/1100                  | 290/1100                       | 290/1100                       | 290/1100        |
|                     | 4.17             | Ground clearance, laden, below mast                             | m1 (mm)                     | 120                       | 120                            | 120                            | 120             |
|                     | 4.18             | Ground clearance, centre of wheelbase                           | m2 (mm)                     | 115                       | 115                            | 115                            | 115             |
|                     | 4.19             | Aisle width for pallets 1000 x 1200 crossways                   | Ast (mm)                    | 3734                      | 3734                           | 3950                           | 3955            |
|                     | 4.20             | Aisle width for pallets 800 x 1200 Lengthways                   | Ast (mm)                    | 3934                      | 3934                           | 4150                           | 4155            |
|                     | 4.21             | Turning radius                                                  | Wa (mm)                     | 2090                      | 2090                           | 2270                           | 2270            |
|                     | 4.22             | Internal turning radius                                         | b13 (mm)                    | 655                       | 655                            | 730                            | 730             |
|                     | Performance Data | 5.1                                                             | Travel speed, laden/unladen | km/h                      | 14/15                          | 14/15                          | 14/15           |
| 5.2                 |                  | Lift speed, laden/unladen                                       | m/s                         | 0.350/0.450               | 0.3500/0.450                   | 0.330/0.430                    | 0.330/0.430     |
| 5.3                 |                  | Lowering speed, laden/unladen                                   | m/s                         | 0.450/0.420               | 0.470/0.420                    | 0.450/0.420                    | 0.470/0.420     |
| 5.4                 |                  | Drawbar pull, laden/unladen                                     | N                           | 13000/14000               | 17000/18000                    | 20000/21000                    | 20500/21000     |
| 5.5                 |                  | Max. Drawbar pull, laden/unladen                                | N                           | 15000                     | 19000                          | 20000                          | 20000           |
| 5.6                 |                  | Gradeability, laden/unladen                                     | %                           | 14/15                     | 14/15                          | 14/15                          | 14/15           |
| 5.7                 |                  | Service brake                                                   |                             | Hydraulic                 | Hydraulic                      | Hydraulic                      | Hydraulic       |
| 5.8                 |                  | Parking brake                                                   |                             | Mechanical                | Mechanical                     | Mechanical                     | Mechanical      |
| Electric- engine    | 6.1              | Drive motor rating S2 60 min                                    | kW                          | 11AC                      | 11AC                           | 11AC                           | 11AC            |
|                     | 6.2              | Lift motor rating at S3 15%                                     | kW                          | 21AC                      | 21AC                           | 21AC                           | 21AC            |
|                     | 6.3              | Battery voltage, Std.                                           | V/Ah                        | 80/230                    | 80/230                         | 80/304                         | 80/304          |
|                     | 6.4              | Standard Weight of lithium iron phosphate battery               | kg                          | 200                       | 200                            | 240                            | 240             |
|                     | 6.5              | Min. battery weight                                             | kg                          | 180                       | 180                            | 230                            | 230             |
|                     |                  | Max. battery weight                                             | kg                          | 280                       | 280                            | 380                            | 380             |
|                     | 6.6              | Type of drive control                                           |                             | MOSFET/AC                 | MOSFET/AC                      | MOSFET/AC                      | MOSFET/AC       |
|                     | 6.7              | Manufacturer                                                    |                             | INMOTION                  | INMOTION                       | INMOTION                       | INMOTION        |
| 6.8                 | Control Model    |                                                                 | ACS80M-35P+<br>ACS80M-23P   | ACS80M-35P+<br>ACS80M-23P | ACS80L-440C-35P+<br>ACS80M-23P | ACS80L-440C-35P+<br>ACS80M-23P |                 |
| Addition data       | 7.1              | Operating pressure for attachments                              | bar                         | 175                       | 175                            | 175                            | 175             |
|                     | 7.2              | Oil volume for attachments                                      | l/min                       | 65                        | 65                             | 65                             | 65              |
|                     | 7.3              | Hydraulic Tank - capacity (drain & refill)                      | liter                       | 28                        | 28                             | 28                             | 28              |
|                     | 7.4              | Sound level at the driver´s ear according to EN / DIN 12 053    | dB (A)                      | 75                        | 75                             | 75                             | 75              |
|                     | 7.5              | Towing coupling, type DIN                                       |                             | φ25 Pin                   | φ25 Pin                        | φ25 Pin                        | φ25 Pin         |



a=200 mm safety clearance  
Ast= a+Wa+X+B

3M duplex mast

