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ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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X Series 3-Wheel Electric Forklift

with capacities of 600 to 1,000kg

The World of Hangcha
SINCE 1956



X Series 3-Wheel Electric Forklift

Hangcha's X series 0.6-1.0t 3W electric forklifts are a new series of high-efficiency, energy-saving small-tonnage electric counterbalanced forklifts with a new structure that represents a breakthrough over the traditional design concept. With a compact structure, small turning radius and light weight and high maneuverability, the truck is widely used in narrow operation places, e.g., used for handling between floors, to and from elevators or in warehouses, supermarkets, workshops, etc.

Appearance

/ The whole truck is small and flexible, adopting a combination of straight lines and streamlined curved surfaces, with a simple appearance and strong strength.

Stability

/ Thanks to the low center of gravity layout and design of the battery and counterweight, the vehicle has a low center of gravity and good stability.
/ The steering wheel adopts two rubber wheels, with good turning stability.

Energy saving and high efficiency

/ The front-wheel drive provides, strong power, high driving speed, high lifting speed, strong climbing ability and high operating efficiency.
/ The front wheel is equipped with patterned rubber tires, so it is not easy to slip on the ground with water, sand, slope, and cold storage.
/ EPS (Electric Power Steering) system only works when turing, so that energy consumption can be reduced significantly.
/ Built-in charger improves efficient and convenient operation greatly.
/ The truck is equipped with energy-saving and durable LED lights.

Comfort

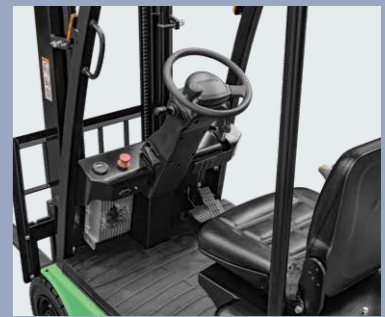
/ Excellent ergonomic design and large operation space provide the operator with more comfort, and satisfy the operator's needs for long-term and high-intensity operations.
/ EPS (Electric Power Steering) system, and a comfortable steering force can be adjusted with software, so that the steering is easier and the work intensity of the operator is reduced.
/ The angle of the steering wheel column is adjustable and the seat can be adjusted backwards and forwards, so that the operator can get a good ride experience.
/ The multi-way valve is easy to operate, reducing the work intensity of the operator.

Safety

/ The optimized design of the wide-view mast and the low dashboard enable a wide front view and higher safety, and minimizes the blind view to the greatest extent.
/ The emergency power-off switch complies with European safety standards.
/ The electronic and hydraulic overload protection comply with safety regulations.
/ OPS system(Opt.) can improve safety greatly.



Wide view mast



Large and comfortable operation space



LED meter



Built-in charger



Lithium battery pack





Standard Specification

- / Tread solid tire
- / Anti-skid patterned step
- / Dual multiway valve
- / Silent gear pump
- / 2.5m duplex wide-view mast
- / Fork length 770mm
- / Adjustable steering wheel column
- / Rearview mirror
- / Emergency power off switch
- / Color screen instrument
- / Front LED headlight
- / Rear combination LED light
- / Horn, reversing buzzer

Advancement

- / Full AC motors, precise speed control, maintenance-free , temperature monitoring.
- / Equipped with an AC controller, so that the driving, steering, lifting, tilting and other actions can be controlled by a computer.
- / The high-efficiency driving control system with a high-frequency integrated MOSFET controller ensures stable and accurate driving and lifting and superior speed regulation performance, and has the functions of regenerative braking, reverse braking and protection for preventing sliding down a ramp, etc. to enable safer and more effective and comfortable operations.
- / The LED meter can accurately display information in harsh environments.

Options

- / Non-marked solid tire
- / Triple multiway valve
- / 2-4.5m duplex wide-view mast
- / 2-4m full free duplex mast
- / 3.5-4.5m triplex mast
- / Widened fork carriage and load backrest
- / External sidershifter
- / Other attachments
- / Foldable forks of different lengths
- / Forks of other lengths
- / Cold storage
- / Left and right rear view mirrors
- / Rear LED working light
- / Warning light
- / Charger
- / OPS system



| Optional battery capacity | | | |
|---------------------------|------|------|----|
| Capacity (Ah/5h) | 0.6t | 0.8t | 1t |
| 125(Lithium) | ● | — | — |
| 250(Lithium) | — | ● | ● |
| 300(Lithium) | — | ○ | ○ |
| 168(Lead-acid) | ● | — | — |
| 200(Lead-acid) | ○ | — | — |
| 294(Lead-acid) | — | ● | — |
| 336(Lead-acid) | — | ○ | — |
| 400(Lead-acid) | — | ○ | ● |

Note: ● Battery; ○ Battery Opt; — Null



X Series 3-Wheel Electric Forklift Specification

| Distinguishing mark | HANGCHA GROUP CO.,LTD. | | | | | | | | |
|---------------------|---|--|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 1.1 | Manufacturer (abbreviation) | | | | | | | |
| 1.2 | Manufacturers type designation | CPDS06-XD4/C2 | CPDS08-XD4/C2 | CPDS10-XD4/C2 | CPDS06-XD4/C2-I | CPDS08-XD4/C2-I | CPDS10-XD4/C2-I | | |
| 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | electric | electric | electric | electric | electric | electric | | |
| 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | seated | seated | seated | seated | seated | seated | | |
| 1.5 | Load capacity/rated load | Q (kg) | 600 | 800 | 1000 | 600 | 800 | 1000 | |
| 1.6 | Load centre distance | c (mm) | 400 | 400 | 400 | 400 | 400 | 400 | |
| 1.8 | Load distance, centre of drive axle to fork | x (mm) | 275 | 290 | 290 | 275 | 290 | 290 | |
| 1.9 | Wheelbase | y (mm) | 895 | 1150 | 1150 | 895 | 1150 | 1150 | |
| Weight | 2.1 | Service Weight | kg | 1440 | 1550 | 1740 | 1380 | 1550 | 1710 |
| Tyres, chassis | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | solid rubber | solid rubber | solid rubber | solid rubber | solid rubber | solid rubber |
| | 3.2 | Tyre size, front | | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 |
| | 3.3 | Tyre size, rear | | 3.50-5 | 3.50-5 | 3.50-5 | 3.50-5 | 3.50-5 | 3.50-5 |
| | 3.5 | Wheels, number front rear (x = driven wheels) | | 2x/2 | 2x/2 | 2x/2 | 2x/2 | 2x/2 | 2x/2 |
| | 3.6 | Tread, front | b10 (mm) | 713 | 788 | 788 | 713 | 788 | 788 |
| | 3.7 | Tread, rear | b11 (mm) | 260 | 350 | 350 | 260 | 350 | 350 |
| | 3.8 | Tread, front | b10 (mm) | 713 | 788 | 788 | 713 | 788 | 788 |
| Dimensions | 4.1 | Tilt of mast/fork carriage forward/backward | Grad | 4/8 | 5/10 | 5/10 | 4/8 | 5/10 | 5/10 |
| | 4.2 | Height, mast lowered | h1 (mm) | 1755 | 1755 | 1755 | 1755 | 1755 | 1755 |
| | 4.3 | Free lift | h2 (mm) | 100 | 100 | 100 | 100 | 100 | 100 |
| | 4.4 | Lift | h3 (mm) | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| | 4.5 | Height, mast extended | h4 (mm) | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 |
| | 4.7 | Height of higher overhead guard(cabin) | h6 (mm) | 1930 | 1930 | 1930 | 1930 | 1930 | 1930 |
| | 4.8 | Seat height relating to SIP/stand height | h7 (mm) | 980 | 980 | 980 | 980 | 980 | 980 |
| | 4.19 | Overall length | l1 (mm) | 2148 | 2415 | 2415 | 2148 | 2415 | 2415 |
| | 4.20 | Length to face of forks | l2 (mm) | 1378 | 1645 | 1645 | 1378 | 1645 | 1663 |
| | 4.21 | Overall width | b1 (mm) | 830 | 900 | 900 | 830 | 900 | 900 |
| | 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 30/80/770 | 30/80/770 | 30/80/770 | 30/80/770 | 30/80/770 | 30/80/770 |
| | 4.23 | Fork carriage ISO 2328, class/type A,B | | ISO2328 1A | ISO2328 1A | ISO2328 1A | ISO2328 1A | ISO2328 1A | ISO2328 1A |
| | 4.24 | Fork-carriage width | b3 (mm) | 780 | 860 | 860 | 780 | 860 | 860 |
| | 4.25 | Distance between fork-arms | b5 (mm) | 160/780 | 160/780 | 160/780 | 160/780 | 160/780 | 160/780 |
| | 4.31 | Ground clearance, laden, below mast | m1 (mm) | 75 | 75 | 75 | 75 | 75 | 75 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 75 | 75 | 75 | 75 | 75 | 75 |
| | 4.33 | Aisle width for pallets 1000 x 1200 crossways | As1 (mm) | 2695 | 2955 | 2955 | 2695 | 2955 | 2965 |
| | 4.34 | Aisle width for pallets 800 x 1200 lengthways | As1 (mm) | 2895 | 3155 | 3155 | 2895 | 3155 | 3165 |
| | 4.35 | Turning radius | Wa (mm) | 1220 | 1465 | 1465 | 1220 | 1465 | 1475 |
| | Performance data | 5.1 | Travel speed, laden/unladen | km/h | 9/10 | 10/12 | 10/12 | 9/10 | 10/12 |
| 5.2 | | Lift speed, laden/unladen | mm/s | 210/320 | 250/370 | 240/370 | 210/320 | 250/370 | 240/370 |
| 5.3 | | Lowering speed, laden/unladen | mm/s | 410 | 410 | 410 | 410 | 410 | 410 |
| 5.6 | | Max. Drawbar pull, laden/unladen | N | / | 4400/4600 | 4400/4600 | / | 4400/4600 | 4400/4600 |
| 5.8 | | Max. gradeability, laden/unladen | % | 12/13 | 12/13 | 12/13 | 12/13 | 12/13 | 12/13 |
| 5.10 | | Service brake | | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| 5.11 | Parking brake | | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical | |
| Electric-engine | 6.1 | Drive motor rating S2 60 min | kW | 1.5 | 3 | 3 | 1.5 | 3 | 3 |
| | 6.2 | Lift motor rating at S3 15% | kW | 2.5 | 4 | 4 | 2.5 | 4 | 4 |
| | 6.3 | Battery acc. to DIN 43 531/35/36 A,B,C, no | | no | no | no | no | no | no |
| | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 24/168 | 24/294 | 24/400 | 24/125 | 24/250 | 24/250 |
| | 6.5 | Battery weight | kg | 150 | 270 | 340 | 45 | 95 | 95 |
| | 6.8 | Min. battery weight | kg | 150 | 270 | 340 | / | / | / |
| 6.9 | Max. battery weight | kg | 170 | 340 | 340 | / | / | / | |
| Addition data | 8.1 | Manufacturer of controller | | INMOTION/CURTIS | INMOTION/CURTIS | INMOTION/CURTIS | INMOTION/CURTIS | INMOTION/CURTIS | INMOTION/CURTIS |
| | 8.4 | Sound level at the driver's ear according to EN / DIN 12 053 | dB (A) | 67 | 67 | 67 | 67 | 67 | 67 |

0.6t Mast Specification

| Type | Model | Lift height | Lowered height | Extended height | | Free lift height | | Tilt range | | Capacity (Mast vertical to ground) | |
|--------------------------------|-------|-------------|----------------|-----------------|------------------|------------------|------------------|------------|----------|------------------------------------|--|
| | | | | With backrest | Without backrest | With backrest | Without backrest | Forward | Backward | Load center@400mm Single Tire | |
| 2-stage wide view mast | M200 | 2000 | 1505 | 2800 | 2475 | 100 | 100 | 4 | 8 | 600 | |
| | M250 | 2500 | 1755 | 3300 | 2975 | 100 | 100 | 4 | 8 | 600 | |
| | M270 | 2700 | 1855 | 3500 | 3175 | 100 | 100 | 4 | 8 | 600 | |
| | M300 | 3000 | 2005 | 3800 | 3475 | 100 | 100 | 4 | 8 | 600 | |
| | M330 | 3300 | 2155 | 4100 | 3775 | 100 | 100 | 4 | 8 | 600 | |
| | M350 | 3500 | 2255 | 4300 | 3975 | 100 | 100 | 4 | 8 | 600 | |
| | M370 | 3700 | 2355 | 4500 | 4175 | 100 | 100 | 4 | 4 | 550 | |
| | M400 | 4000 | 2605 | 4800 | 4570 | 100 | 100 | 4 | 4 | 500 | |
| | M430 | 4300 | 2785 | 5100 | 4900 | 100 | 100 | 4 | 4 | 450 | |
| | M450 | 4500 | 2905 | 5300 | 5120 | 100 | 100 | 4 | 4 | 400 | |
| 2-stage full-free lifting mast | U200 | 2000 | 1505 | 2800 | 2495 | 705 | 1010 | 4 | 8 | 600 | |
| | U250 | 2500 | 1755 | 3300 | 2995 | 955 | 1260 | 4 | 8 | 600 | |
| | U270 | 2700 | 1855 | 3500 | 3195 | 1055 | 1360 | 4 | 8 | 600 | |
| | U300 | 3000 | 2005 | 3800 | 3495 | 1255 | 1510 | 4 | 8 | 600 | |
| | U330 | 3300 | 2155 | 4100 | 3795 | 1355 | 1660 | 4 | 8 | 600 | |
| | U350 | 3500 | 2255 | 4300 | 3995 | 1455 | 1760 | 4 | 8 | 500 | |
| | U370 | 3700 | 2355 | 4500 | 4195 | 1555 | 1860 | 4 | 4 | 450 | |
| | U400 | 4000 | 2605 | 4800 | 4545 | 1755 | 2010 | 4 | 4 | 350 | |
| | U450 | 4500 | 2905 | 5300 | 5120 | 2005 | 2410 | 4 | 4 | 300 | |
| 3-stage full-free lifting mast | N350 | 3500 | 1675 | 4310 | 4015 | 875 | 1160 | 4 | 4 | 450 | |
| | N370 | 3700 | 1735 | 4500 | 4195 | 935 | 1240 | 4 | 4 | 400 | |
| | N400 | 4000 | 1835 | 4800 | 4495 | 1035 | 1340 | 4 | 4 | 350 | |
| | N430 | 4300 | 1935 | 5100 | 4795 | 1135 | 1440 | 4 | 4 | 300 | |
| | N450 | 4500 | 2005 | 5310 | 5005 | 1205 | 1500 | 4 | 4 | 250 | |

0.8/1.0t Mast Specification

| Type | Model | Lift height | Lowered height | Extended height | | Free lift height | | Tilt range | | Capacity (Mast vertical to ground) | |
|--------------------------------|-------|-------------|----------------|-----------------|------------------|------------------|------------------|------------|----------|------------------------------------|------|
| | | | | With backrest | Without backrest | With backrest | Without backrest | Forward | Backward | Load center@400mm Single Tire | |
| 2-stage wide view mast | M200 | 2000 | 1505 | 2800 | 2475 | 100 | 100 | 5 | 10 | 800 | 1000 |
| | M250 | 2500 | 1755 | 3300 | 2975 | 100 | 100 | 5 | 10 | 800 | 1000 |
| | M270 | 2700 | 1855 | 3500 | 3175 | 100 | 100 | 5 | 10 | 800 | 1000 |
| | M300 | 3000 | 2005 | 3800 | 3475 | 100 | 100 | 5 | 10 | 800 | 1000 |
| | M330 | 3300 | 2155 | 4100 | 3775 | 100 | 100 | 5 | 10 | 800 | 1000 |
| | M350 | 3500 | 2255 | 4300 | 3975 | 100 | 100 | 5 | 10 | 800 | 1000 |
| | M370 | 3700 | 2355 | 4500 | 4175 | 100 | 100 | 4 | 8 | 750 | 900 |
| | M400 | 4000 | 2605 | 4800 | 4570 | 100 | 100 | 4 | 8 | 700 | 850 |
| | M430 | 4300 | 2785 | 5100 | 4900 | 100 | 100 | 4 | 8 | 650 | 800 |
| | M450 | 4500 | 2905 | 5300 | 5120 | 100 | 100 | 4 | 8 | 600 | 700 |
| 2-stage full-free lifting mast | U200 | 2000 | 1505 | 2800 | 2495 | 705 | 1010 | 5 | 10 | 800 | 1000 |
| | U250 | 2500 | 1755 | 3300 | 2995 | 955 | 1260 | 5 | 10 | 800 | 1000 |
| | U270 | 2700 | 1855 | 3500 | 3195 | 1055 | 1360 | 5 | 10 | 800 | 1000 |
| | U300 | 3000 | 2005 | 3800 | 3495 | 1255 | 1510 | 5 | 10 | 800 | 1000 |
| | U330 | 3300 | 2155 | 4100 | 3795 | 1355 | 1660 | 5 | 10 | 800 | 1000 |
| | U350 | 3500 | 2255 | 4300 | 3995 | 1455 | 1760 | 5 | 10 | 750 | 900 |
| | U370 | 3700 | 2355 | 4500 | 4195 | 1555 | 1860 | 4 | 8 | 700 | 850 |
| | U400 | 4000 | 2605 | 4800 | 4545 | 1755 | 2010 | 4 | 8 | 600 | 700 |
| | U450 | 4500 | 2905 | 5300 | 5120 | 2005 | 2410 | 4 | 8 | 500 | 550 |
| 3-stage full-free lifting mast | N350 | 3500 | 1675 | 4310 | 4015 | 875 | 1160 | 4 | 8 | 700 | 800 |
| | N370 | 3700 | 1735 | 4500 | 4195 | 935 | 1240 | 4 | 8 | 650 | 750 |
| | N400 | 4000 | 1835 | 4800 | 4495 | 1035 | 1340 | 4 | 8 | 600 | 650 |
| | N430 | 4300 | 1935 | 5100 | 4795 | 1135 | 1440 | 4 | 8 | 500 | 550 |
| | N450 | 4500 | 2005 | 5310 | 5005 | 1205 | 1500 | 4 | 8 | 400 | 450 |

