



Hangcha Europe GmbH

Mariechen-Graulich-Straße 12a,
65439 Flörsheim am Main,
Germany

Tel: 0049-61453769188
E-mail: admin@hangchaeurope.com

Mob: 0049-16096548808 (Thomas Dittrich)
E-mail: thomas.dittrich@hangchaeurope.com
Zip Code Area (1,2,3,4,5,6,7)

Mob: 0049-1605272481 (Jens Abmuth)
E-mail: jens.assmuth@hangchaeurope.com
Zip Code Area (0,8,9)

www.hangchaeurope.com



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Forklift" App



ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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A Series Dual Drive Electric Forklift

with capacities of 2,000 to 3,500kg

The World of Hangcha



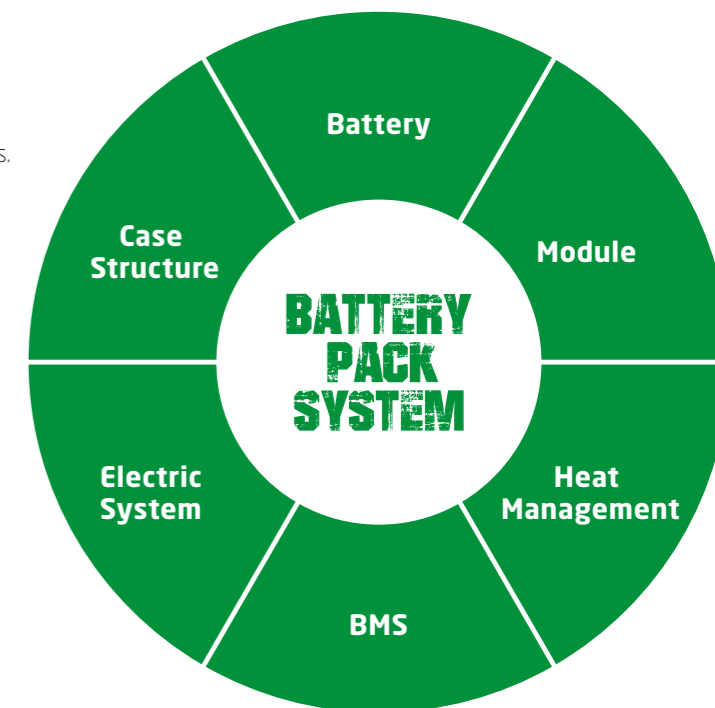
LET THE LITHIUM POWER BE REEL



INNOVATIVE SOLUTIONS NEW POWER NOW

Innovative, reliable lithium-ion technology (Lithium Iron-Phosphate), which are developed jointly by HANGCHA and CATL. Battery cells and modules are from CATL, with reliable quality, exclusively for HANGCHA.

- / We use square lithium iron phosphate batteries and modules used in large quantities by commercial vehicles in mature economies.
- / The module uses an aluminum alloy frame which is sturdy, lightweight and with excellent heat dissipation.
- / Safe and effective: Charging efficiency as high as 98%, thermal runaway temperature 600 °C or above.
- / Adapted to low temperatures: Comes standard with an electrical heating feature, ensuring normal operation in low temperatures.
- / Quick charging: 2 hours full charge, economic use of each break.
- / Long-working: 4000 charging cycles, capacity retention greater than 80%.
- / Maintenance-free: Battery does not require manual maintenance.
- / Green and clean: Pollution-free, zero emissions.



Li-Ion
2 hours
100%

Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles

Li-Ion powered forklifts are always available. They allow for fast full charging or boost charging (100 % charge in 2 hours). They are maintenance free and do not require a battery change when used for multi-shift operations.



TITANS CHARGER

Li-Ion Battery Pack specification

| Type | | CPD20-AC4-DMI | CPD25-AC4-DMI | CPD30-AC4-DMI | CPD35-AC4-DMI |
|---------------------------|------|---------------|---------------|---------------|---------------|
| Battery voltage, capacity | V/Ah | 80/271 | 80/271 | 80/404 | 80/404 |
| Titans charger | | SLC-80100 | SLC-80100 | SLC-80200 | SLC-80200 |



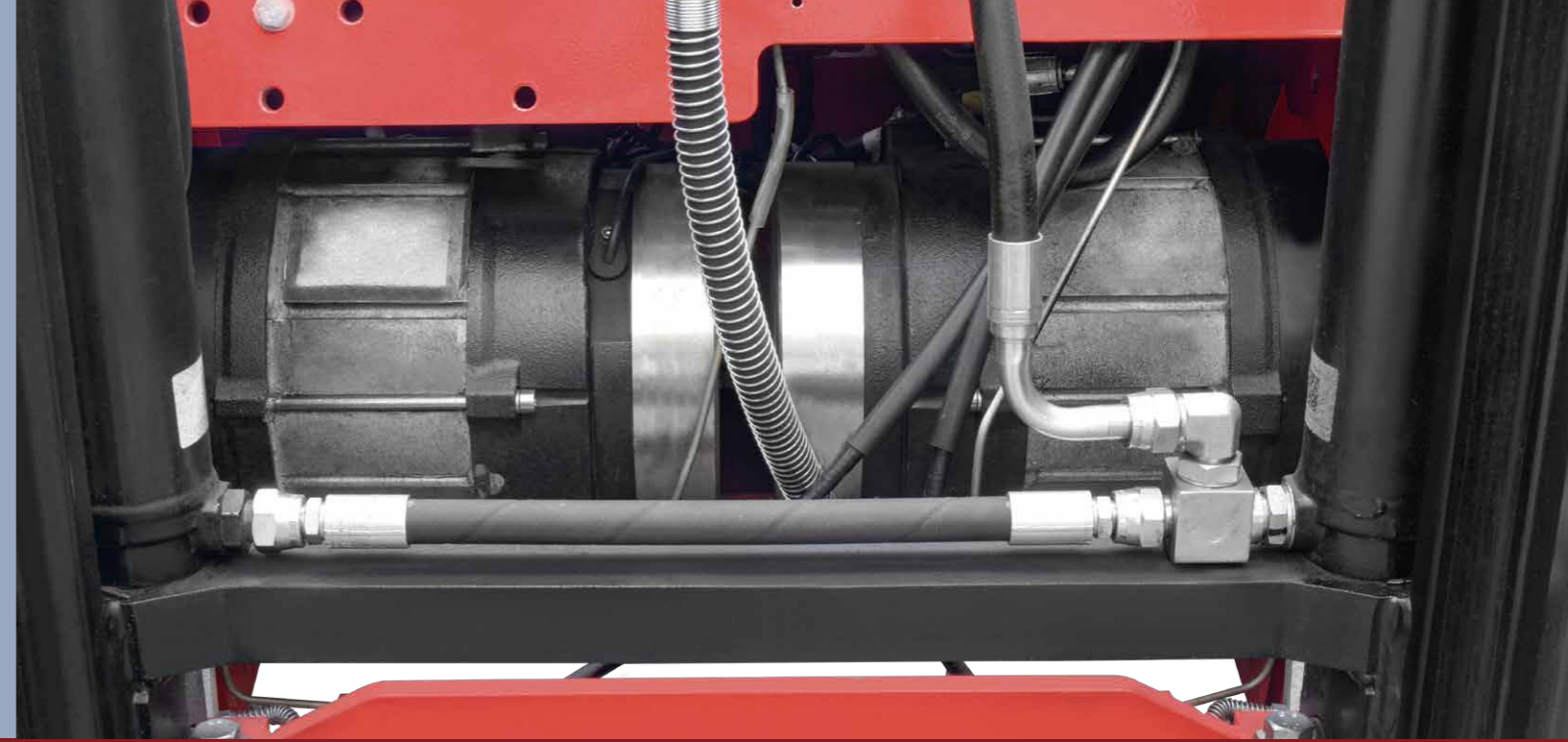
HANGCHA provides Li-Ion battery (LiFePO4) with 5 years or 10000 hours warranty.



**5 YEARS
WARRANTY**

Appearance

Applied advanced new designing method, world famous designing company designed, make the eye catchable stream outline of the truck chassis. Small dimension, simple appearance, and metal material applied for the exposed parts, all provide robust construction of the A series.



Maneuverability

Driven by two motors independently, the front wheels can rotate forwards and backwards with a small turning radius and have good maneuverability. An imported reduction gearbox is provided. The high-power drive motors provide strong and reliable driving force.

High Efficiency

A high-power oil pump motor is used. The large-displacement silent gear pumps improve the lifting speed and operation efficiency.



Intelligent

- / First-class R&D and testing facility.
- / First-class production quality management system.
- / First-class manufacturing facility.
- / First-class environment and control.

HANGCHA

Comfortable Operation

Ergonomic

The new designed steering wheel, new brake system and the easy-to-operate levers provide total handling operation.



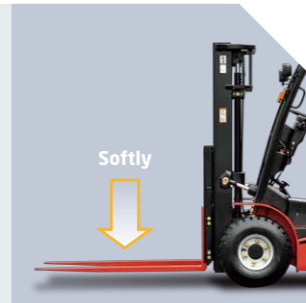
Seat

The extra foot space is provided to reduce operator fatigue significantly. The new wide-open, non-slip step makes getting in and out easy and safe.



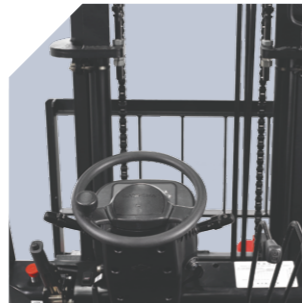
Soft landing

In addition to the soft landing system, the soft lifting system is adopted (front lifting cylinders of triplex mast and full free dup-lex mast), as a result, the noise and shock of the mast significantly decreases.



Wide view mast

New designed wide view mast provides better forward view ability.

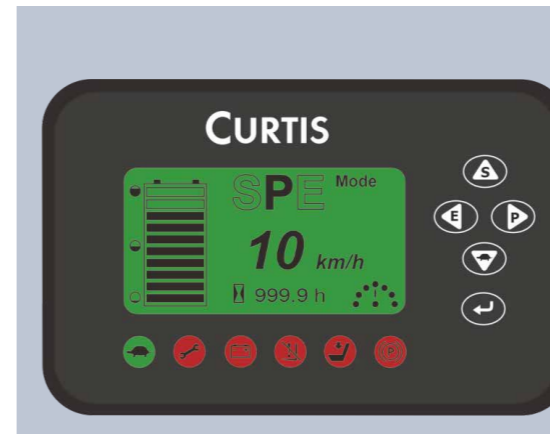


Advanced

High frequency MOSFET controller provides accurate control of travelling, lifting, and better adjustable performance, and better matches the motor. Regenerative braking, reverse current braking and anti-slide on slop function guarantee the operation safety.

Multi functions big LED dashboard provides running hours, battery power, and self diagnosis functions, and with high accuracy even in bad environment.

Regenerative braking is more energy saving and efficiency during truck's deceleration, direction changing, and driving on downwards slope.



CURTIS big LED dashboard. Non-handset Operation.



Imported high performance, and new generation AC controller.

1. Low center of gravity provides good turning stability, and better operator's driving comfort. 150mm adjustable distance of seat provides better operator's comfort of different operators.
2. Soft landing system is applied for A series. When the forks lower to 60-100mm to ground, the soft landing system is auto operated, and to avoid the forks dashing against the ground. New designed broad view mast provides better forward visibility.
3. Easy to see LED dashboard provides friendly interaction.
4. Low noise, no exhaust emission, and low energy consumption, all meet environment friendly requirement.



Service Ability

Full open battery cover, easy for battery service easy opened counter weight cover, to protect internal controller to avoid water and dust World famous brand electronics are applied in motor controller, contactor, power plug, emergency switch, dashboard, and accelerators.

Overloaded protection system is applied for electronics and hydraulics.

CE certificate is available.



Battery cover with auto lock spring for easy battery service and replacing, and clean the oil tank



Side battery changing solution is applied for heavy and long time application



Big dimension anti-slide rubber pad



Protective roof



Easy opened counterweight cover is to protect the internal controllers to avoid water and dust



A series 2.0/2.5t mast specification

| Type | Model | Lifting height mm | Lowered overall height | | Overall height | | Free lifting height | | | | Tilting range | | Capacity (Mast vertical to ground) | | | | | |
|--------------------------------|-------|----------------------|------------------------|------|----------------|------|---------------------|------|---------------|------|------------------|------|------------------------------------|-----------------|-------------------------------|----|------------------------------|-----|
| | | | mm | mm | With backrest | | Without backrest | | With backrest | | Without backrest | | Forward (°) | Backward (°) | Load center@500mm Single Tire | | Load center@24in Single Tire | |
| | | | | | 3.0t | 3.5t | 3.0t | 3.5t | 3.0t | 3.5t | 3.0t | 3.5t | | | kg | kg | lbs | lbs |
| 2-stage wide view mast | M250 | 2500 | 1756 | 3540 | 3142 | 140 | 140 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | M270 | 2700 | 1856 | 3740 | 3342 | 140 | 140 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | M300 | 3000 | 2006 | 4040 | 3642 | 140 | 140 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | M330 | 3300 | 2171 | 4340 | 3942 | 140 | 140 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | M350 | 3500 | 2256 | 4540 | 4142 | 140 | 140 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | M360 | 3600 | 2306 | 4640 | 4242 | 140 | 140 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | M400 | 4000 | 2556 | 5040 | 4642 | 140 | 140 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | M430 | 4300 | 2731 | 5340 | 4942 | 140 | 140 | 5 | 6 | 2000 | 2500 | 4000 | 5000 | | | | | |
| 2-stage full-free lifting mast | U250 | 2500 | 1781 | 3540 | 3165 | 805 | 1184 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | U270 | 2700 | 1881 | 3740 | 3365 | 905 | 1284 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | U300 | 3000 | 1981 | 4040 | 3665 | 1055 | 1434 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | U330 | 3300 | 2131 | 4340 | 3965 | 1205 | 1584 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | U360 | 3600 | 2281 | 4640 | 4265 | 1355 | 1734 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | U400 | 4000 | 2531 | 5040 | 4665 | 1555 | 1934 | 5 | 8 | 2000 | 2500 | 4000 | 5000 | | | | | |
| 3-stage full-free lifting mast | N400 | 4000 | 1926 | 5040 | 4495 | 850 | 1334 | 5 | 6 | 2000 | 2500 | 4000 | 5000 | | | | | |
| | N430 | 4300 | 2026 | 5340 | 4795 | 950 | 1434 | 5 | 6 | 2000 | 2450 | 4000 | 4900 | | | | | |
| | N450 | 4500 | 2096 | 5540 | 4490 | 1000 | 1484 | 5 | 6 | 2000 | 2350 | 4000 | 4700 | | | | | |
| | N480 | 4800 | 2196 | 5840 | 5395 | 1150 | 1634 | 5 | 6 | 1950 | 2250 | 3900 | 4500 | | | | | |
| | N500 | 5000 | 2261 | 6040 | 5545 | 1200 | 1684 | 5 | 6 | 1850 | 2150 | 3700 | 4300 | | | | | |
| | N550 | 5500 | 2426 | 6540 | 5995 | 1350 | 1834 | 3 | 6 | 1750 | 2050 | 3500 | 4100 | | | | | |
| | N600 | 6000 | 2646 | 7040 | 6495 | 1550 | 2034 | 3 | 6 | 1550 | 1850 | 3100 | 3700 | | | | | |
| | N650 | 6500 | 2821 | 7540 | 6995 | 1750 | 2234 | 3 | 6 | 1300 | 1600 | 2600 | 3200 | | | | | |

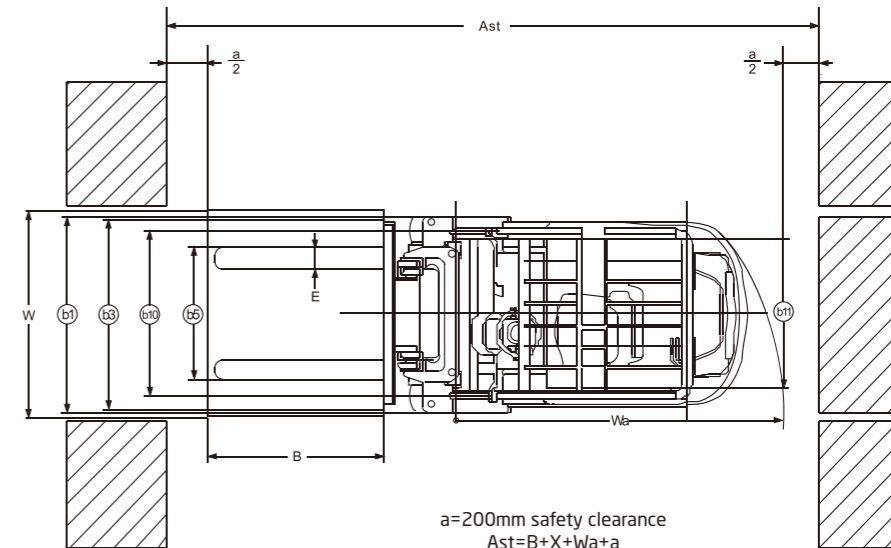
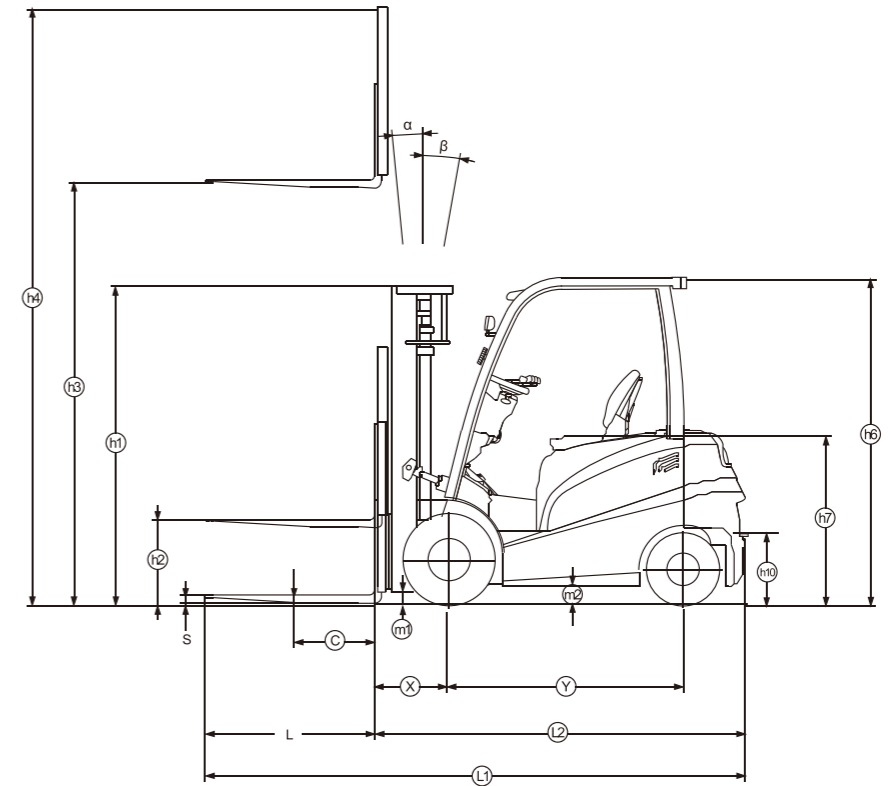
A series 3.0t/3.5t mast specification

| Type | Model | Lifting height mm | Lowered overall height | | Overall height | | | | Free lifting height | | | | Tilting range | | Capacity (Mast vertical to ground) | | | |
|--------------------------------|-------|----------------------|------------------------|------|----------------|------|------------------|------|---------------------|------|------------------|------|----------------|-----------------|------------------------------------|------|------------------------------|-----|
| | | | 3.0t | 3.5t | With backrest | | Without backrest | | With backrest | | Without backrest | | Forward (°) | Backward (°) | Load center@500mm Single Tire | | Load center@24in Single Tire | |
| | | | | | 3.0t | 3.5t | 3.0t | 3.5t | 3.0t | 3.5t | 3.0t | 3.5t | | | kg | kg | lbs | lbs |
| 2-stage wide view mast | M250 | 2500 | 1895 | 3645 | 3281 | 3281 | 150 | 150 | 150 | 150 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | M270 | 2700 | 1995 | 3845 | 3481 | 3481 | 150 | 150 | 150 | 150 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | M300 | 3000 | 2145 | 4145 | 3781 | 3781 | 150 | 150 | 150 | 150 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | M330 | 3300 | 2295 | 4445 | 4081 | 4081 | 150 | 150 | 150 | 150 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | M350 | 3500 | 2395 | 4645 | 4281 | 4281 | 150 | 150 | 150 | 150 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | M360 | 3600 | 2445 | 4745 | 4381 | 4381 | 150 | 150 | 150 | 150 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | M400 | 4000 | 2745 | 5145 | 4781 | 4781 | 150 | 150 | 150 | 150 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | M430 | 4300 | 2895 | 5445 | 5081 | 5081 | 150 | 150 | 150 | 150 | 5 | 6 | 3000 | 3400 | 6000 | 6800 | | |
| 2-stage full-free lifting mast | U250 | 2500 | 1895 | 3645 | 3320 | 3320 | 855 | 855 | 1075 | 1075 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | U270 | 2700 | 1995 | 3845 | 3520 | 3520 | 955 | 955 | 1175 | 1175 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | U300 | 3000 | 2145 | 4145 | 3820 | 3820 | 1105 | 1105 | 1325 | 1325 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | U330 | 3300 | 2295 | 4445 | 4120 | 4120 | 1255 | 1255 | 1475 | 1475 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | U360 | 3600 | 2445 | 4745 | 4420 | 4420 | 1405 | 1405 | 1625 | 1625 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| | U400 | 4000 | 2645 | 5145 | 4820 | 4820 | 1605 | 1605 | 1825 | 1825 | 5 | 8 | 3000 | 3500 | 6000 | 7000 | | |
| 3-stage full-free lifting mast | N400 | 4300 | 2045 | 5145 | 4645 | 4645 | 900 | 900 | 1225 | 1225 | 5 | 6 | 3000 | 3400 | 6000 | 6800 | | |
| | N430 | 4300 | 2145 | 5445 | 4945 | 4945 | 1000 | 1000 | 1325 | 1325 | 5 | 6 | 3000 | 3300 | 6000 | 6600 | | |
| | N450 | 4500 | 2195 | 5645 | 5095 | 5095 | 1050 | 1050 | 1375 | 1375 | 5 | 6 | 3000 | 3200 | 6000 | 6400 | | |
| | N480 | 4800 | 2345 | 5945 | 5545 | 5545 | 1200 | 1200 | 1525 | 1525 | 5 | 6 | 2900 | 3100 | 5800 | 6200 | | |
| | N500 | 5000 | 2395 | 6145 | 5695 | 5695 | 1250 | 1250 | 1575 | 1575 | 5 | 6 | 2850 | 3100 | 5700 | 6200 | | |
| | N550 | 5500 | 2545 | 6645 | 6145 | 6145 | 1400 | 1400 | 1725 | 1725 | 3 | 6 | 2670 | 3000 | 5340 | 6000 | | |
| | N600 | 6000 | 2745 | 7145 | 6645 | 6645 | 1600 | 1600 | 1925 | 1925 | 3 | 6 | 2350 | 2650 | 4700 | 5300 | | |
| | N650 | 6500 | 2945 | 7645 | 7145 | 7145 | 1800 | 1800 | 2125 | 2125 | 3 | 6 | 2000 | 2250 | 4000 | 4500 | | |

| Standard Features | Options |
|--|---|
| / High-power AC drive motor | / Side battery removal solution |
| / Lifting motor for customized forklift operating conditions | / Domestic large capacity battery |
| / Multi-function instrument cluster | / Cold storage electric fork |
| / Computerized driving, lifting and steering | / High performance imported brand battery |
| / LED headlights, steering indicators, LED rear combination tri-color lights | / Battery charger |
| / Large integral rubber and plastic pedal pad | / Rear work light |
| / Integrally-stamped front and rear bottom panels | / Super-elastic solid tire |
| / Integrally-stamped left and right side panels and hood | / Coloring solid environmentally friendly seamless tire |
| / Reverse buzzer | / Suspended seat |
| / Fully hydraulic power steering | / Left and right rear view mirrors |
| / Folder | / Reverse armrest (containing a horn button) |
| / Falling intelligent buffer | / Widened fork frame |
| / Standard red fork | / Widened or heightened load backrest |
| / 3 m duplex wide-field-of-view mast | / Forks of other lengths |
| / Traction pin | / Free duplex mast |
| / Central rear view mirror | / Free triplex mast |
| / Speed control at corner | / Built-in side shifter |
| | / Accessories for other specifications |
| | / Seat sensing system (OPS) |
| | / Blue light |
| | / Tool box |

A Series 2.0-3.5t Dual Drive Electric Forklift Specification

| | | HANGCHA GROUP CO.,LTD. | | | | | |
|---------------------|-------------------------|---|----------------|--------------|--------------|--------------|---------------|
| Distinguishing mark | 1.1 | Manufacturer (abbreviation) | | | | | |
| | 1.2 | Manufacturer's type designation | CPD20-AC4-DM | CPD25-AC4-DM | CPD30-AC4-DM | CPD35-AC4-DM | |
| | 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 |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 472 | 472 | 510 | 510 |
| | 1.9 | Wheelbase | y (mm) | 1485 | 1485 | 1625 | 1625 |
| | Weight | 2.1 | Service Weight | kg | 3880 | 4080 | 4750 |
| 2.2 | | Axle loading, laden front/rear | kg | 5196/684 | 5920/760 | 7060/790 | 7950/850 |
| 2.3 | | Axle loading, unladen front/rear | kg | 1728/2152 | 1780/2400 | 2324/2526 | 2380/2920 |
| Tyres, chassis | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | pneumatic | pneumatic | pneumatic | super elastic |
| | 3.2 | Tyre size, front | | 23x9 - 10 | 23x9 - 10 | 23x9 - 10 | 23x10 - 12 |
| | 3.3 | Tyre size, rear | | 18x7 - 8 | 18x7 - 8 | 18x7 - 8 | 200/50-10 |
| | 3.5 | Wheels, number front rear (x = driven wheels) | | 2x/2 | 2x/2 | 2x/2 | 2x/2 |
| | 3.6 | Tread, front | b10 (mm) | 1058 | 1058 | 1056 | 1056 |
| | 3.7 | Tread, rear | b11 (mm) | 960 | 960 | 960 | 960 |
| Dimensions | 4.1 | Tilt of mast/fork carriage forward/backward | Grad | 5/8 | 5/8 | 5/8 | 5/8 |
| | 4.2 | Height, mast lowered | h1 (mm) | 2095 | 2095 | 2145 | 2145 |
| | 4.3 | Free lift | h2 (mm) | 140 | 140 | 150 | 150 |
| | 4.4 | Lift | h3 (mm) | 3000 | 3000 | 3000 | 3000 |
| | 4.5 | Height, mast extended | h4 (mm) | 4040 | 4040 | 4145 | 4145 |
| | 4.7 | Height of overhead guard (cabin) | h6 (mm) | 2155 | 2155 | 2190 | 2190 |
| | 4.9 | Seat height/stand height | h7 (mm) | 1070 | 1070 | 1070 | 1070 |
| | 4.12 | Coupling height | h10 (mm) | 303 | 303 | 303 | 303 |
| | 4.19 | Overall length | l1 (mm) | 3420 | 3420 | 3605 | 3605 |
| | 4.20 | Length to face of forks | l2 (mm) | 2350 | 2350 | 2535 | 2535 |
| | 4.21 | Overall width | b1 (mm) | 1265 | 1265 | 1265 | 1289 |
| | 4.22 | Fork dimensions ISO2331 | s/e/l (mm) | 40/122/1070 | 40/122/1070 | 45/125/1070 | 50/125/1070 |
| | 4.23 | Fork carriage DIN 15 173 --- ISO 2328, class/type A,B | | ISO2328 2A | ISO2328 2A | ISO2328 3A | ISO2328 3A |
| | 4.24 | Fork-carriage width | b3 (mm) | 1038 | 1038 | 1100 | 1100 |
| | 4.31 | Ground clearance, laden, below mast | m1 (mm) | 112 | 112 | 115 | 115 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 120 | 120 | 125 | 125 |
| | 4.33 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 3626 | 3626 | 3800 | 3870 |
| | 4.34 | Aisle width for pallets 800 x 1200 crossways | Ast (mm) | 3826 | 3826 | 4000 | 4070 |
| 4.35 | Turning radius | Wa (mm) | 1960 | 1960 | 2090 | 2160 | |
| 4.36 | Internal turning radius | b13 (mm) | 350 | 350 | 350 | 350 | |
| Performance data | 5.1 | Travel speed, laden/unladen | km/h | 17/18 | 17/18 | 16/17 | 16/17 |
| | 5.2 | Lift speed, laden/unladen | mm/s | 400/450 | 380/450 | 380/450 | 330/430 |
| | 5.3 | Lowering speed, laden/unladen | mm/s | 440/420 | 460/420 | 420/390 | 420/390 |
| | 5.5 | Drawbar pull, laden/unladen | N | 14000/13000 | 15000/14000 | 17000/16000 | 19000/18000 |
| | 5.6 | Max. Drawbar pull, laden/unladen | N | 15000 | 16000 | 18000 | 20000 |
| | 5.7 | Gradeability, laden/unladen | % | 20/22 | 20/22 | 18/20 | 18/20 |
| | 5.8 | Max. gradeability, laden/unladen | % | 22/23 | 22/23 | 20/22 | 20/22 |
| | 5.9 | Acceleration time, laden/unladen (0-10m) | s | 5.2/4.2 | 5.3/4.3 | 5.5/4.5 | 5.7/4.7 |
| | 5.10 | Service brake | | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| | 5.11 | Parking brake | | Mechanical | Mechanical | Mechanical | Mechanical |
| Electric engine | 6.1 | Drive motor rating S2 60 min | kW | 8.0x2 | 8.0x2 | 8.0x2 | 8.0x2 |
| | 6.2 | Lift motor rating at S3 15% | kW | 15 | 15 | 21 | 21 |
| | 6.3 | Battery acc. to DIN 43 531/35/36 A,B,C, no | | no | no | no | no |
| | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 80/420 | 80/420 | 80/500 | 80/500 |
| | 6.5 | Battery weight | kg | 1050 | 1050 | 1530 | 1530 |
| | 6.6 | Battery dimensions | l/b/h(mm) | 1028x570x780 | 1028x570x780 | 1028x710x780 | 1028x710x780 |
| | 6.7 | Min. battery weight | kg | 930 | 930 | 1200 | 1200 |
| | 6.8 | Max. battery weight | kg | 1200 | 1200 | 1550 | 1550 |
| Addition data | 8.1 | Manufacturer of controller | | CURTIS | CURTIS | CURTIS | CURTIS |
| | 8.2 | Operating pressure for attachments | bar | 175 | 175 | 175 | 175 |
| | 8.3 | Oil volume for attachments | l/min | 45 | 45 | 45 | 45 |
| | 8.4 | Sound level at the driver's ear according to EN / DIN 12 053 | dB (A) | 73 | 74 | 74 | 74 |
| | 8.5 | Towing coupling, type DIN 15170 | | Φ24 Pin | Φ24 Pin | Φ24 Pin | Φ24 Pin |



a=200mm safety clearance
 $Ast=B+X+Wa+a$
 X: Load distance
 B: Length of load or forks which is longer

