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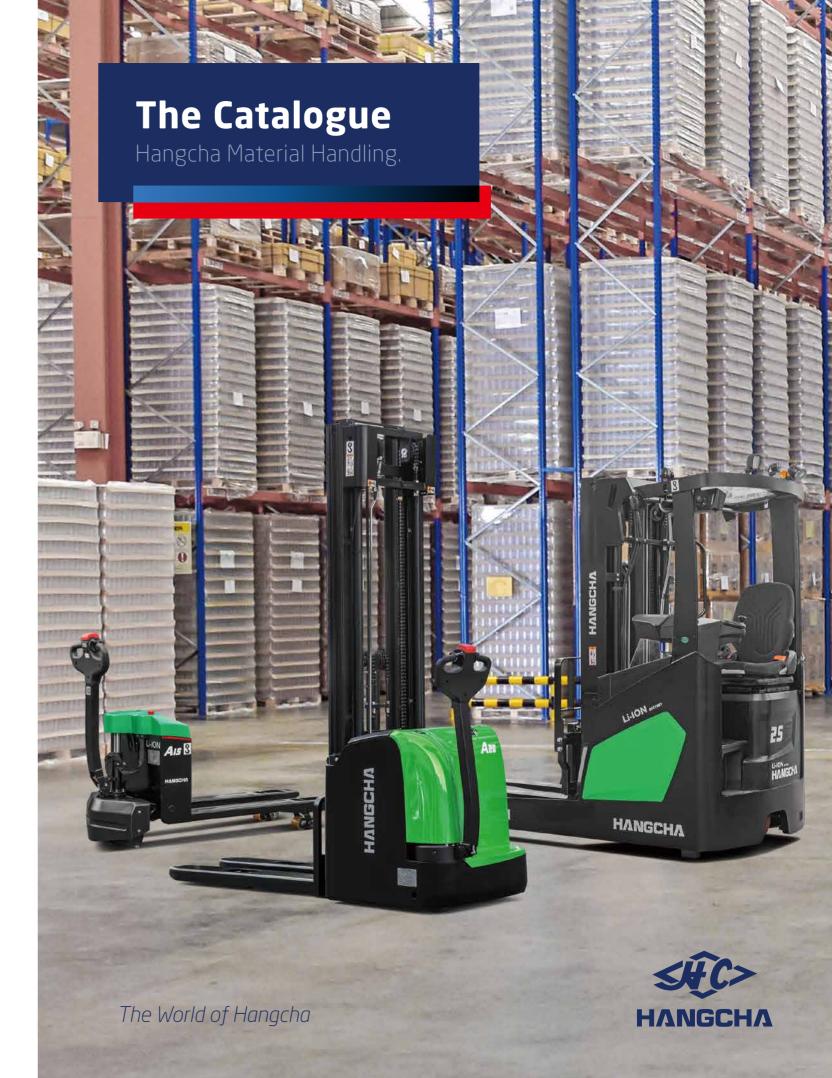
Forklift" App



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Welcome to HANGCHA!

Hangcha Group is the leader in full line forklift manufacturing in China and among the top 8 in Industrial Trucks and Services in the world, and employs over 5,400 people worldwide.

Hangcha Group was founded in 1956. 66 years later, we continue to manufacture reliable material handling equipment. In 2016, Hangcha Group went public on Shanghai Stock Exchange. In 2021, more than 247,000 new Hangcha units were sold worldwide. Quality and innovation are two of the reasons that Hangcha products are distributed to more than 180 countries & regions with about 11% in global market share.

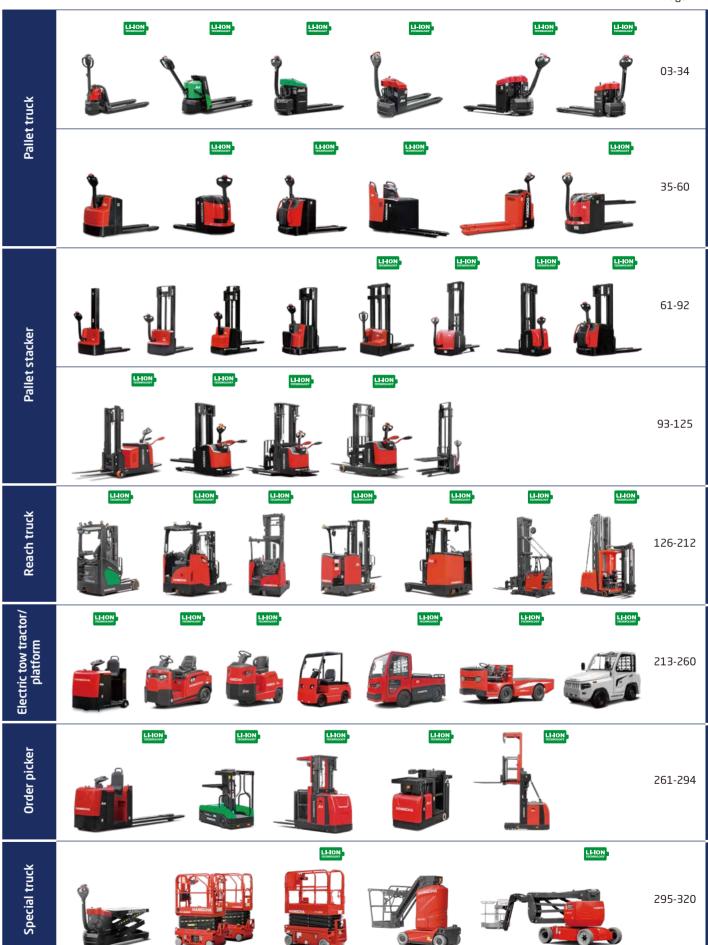
Now, we can offer a complete fleet of material handling equipment, from 1-48t internal combustion counterbalance forklift, 0.6-48t electric forklift trucks, warehouse equipment, 3-6t side loader, empty container handler, reach stacker, AGV and much more. Our annual production capacity is more than 400,000units thanks to the intelligent manufacturing factory.

In recent years, Hangcha Group has launched a series of new energy products varied from counterbalanced trucks, warehouse equipment and AGVs and we provide alternative solutions to diesel products, such li-ion, high-voltage li-ion and hydrogen fuel cell trucks, which can deliver the performance of an IC truck in terms of productivity and efficiency.











THE PALLET TRUCK **WITH Li-Ion TECHNOLOGY**

A series mini walkie pallet truck / Li-lon will replace the hand pallet truck perfectly. It can be used in such as retail environment, pharmaceutical factory... especially in narrow aisle.





Service weight (including battery): 130kg, easy control





A series Mini Walkie Pallet Truck / Li-Ion

with capacity of 1,200kg









High efficient:
Full electric control, travelling lifting lowering

QUICK CHARGING, LONG WORKING TIME;



Remaining capacity of lithium-ion battery is 70% after 1200 cycles, and warranty period of the battery is 3 years or 6000 hours.

Power loss of the battery is extremely low when the power is OFF, and the standby state can last for a year with no reduction of battery service life.



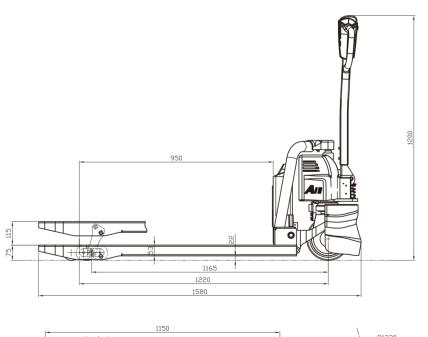


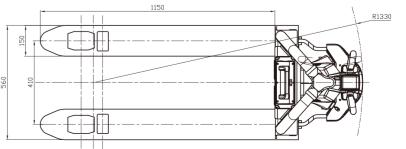


A series Mini Walkie Pallet Truck / Li-lon specification

| | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. |
|------------------------|------|---|------------|------------------------|
| 0.0 | 1.2 | Manufacturer's type designation | | CBD12-AMC1-I |
| 틒 | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian |
| guis Park | 1.5 | Rated capacity/rated load | Q (kg) | 1200 |
| -≣" | 1.6 | Load centre distance | c (mm) | 600 |
| Distinguishing mark | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 950 |
| | 1.9 | Wheelbase | y (mm) | 1165 ¹⁾ |
| Ħ | 2.1 | Service Weight(Including battery) | kg | 130 |
| Weight | | Battery weight | kg | 4.8 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU |
| .v | 3.2 | Tyre size, front | | Ф210х70 |
| ass | 3.3 | Tyre size, rear | | Ф75х65 |
| £ | 3.4 | Additional wheel (dimensions) | | I |
| Tyres, chassis | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x/4 |
| ≥ | 3.6 | Tread, front | b10 (mm) | I |
| | 3.7 | Tread, rear | b11 (mm) | 410 |
| | 4.4 | Lift | h₃ (mm) | 115 |
| | 4.15 | Fork height,lowered | h13 (mm) | 75 |
| | 4.19 | Overall length | lı (mm) | 1580 |
| Dimensions | 4.21 | Overall width | b1(mm) | 560 |
| is | 4.22 | Fork dimensions | s/e/l (mm) | 53/150/1150 |
| <u>.</u> | 4.25 | Distance between fork-arms | bs (mm) | 560 |
| ٥ | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 22 |
| | 4.35 | Turning radius | Wa (mm) | 1330 ¹⁾ |
| | 4.36 | Aisle width for pallets 1000 x 1200 crossways | Ast(mm) | 1785 ^{1) 2)} |
| | 4.37 | Aisle width for pallets 800 x 1200 lengthways | Ast(mm) | 1835 ^{1) 3)} |
| JCe | 5.1 | Travel speed,laden/unladen | km/h | 4/4.5 |
| Performance data | 5.2 | Lift speed,laden/unladen | m/s | 0.015/0.023 |
| ξģ | 5.3 | Lowering speed,laden/unladen | m/s | 0.064/0.021 |
| Per | 5.8 | Max Gradeability,laden/unladen | % | 4/10 |
| ie e | 6.1 | Drive motor rating S2 60 min | kW | 0.65 |
| Electric engine | 6.2 | Lift motor rating at S3 15% | | 0.36 |
| e E | 6.4 | Battery voltage,rated capacity | V/Ah | 24/20 |
| | 8.1 | Type of drive control | | DC |
| | 9.1 | Manufacturer | | Curtis |

Note: 1). When fork lowered,+55mm; 2). According to the VDI2198 standard,+350mm; 3). According to the VDI2198 standard,+195mm.







A series Mini Walkie Pallet Truck / Li-Ion

with capacities of 1,500 to 2,000kg

The A series lithium battery mini pallet truck is a new generation product recently developed by Hangcha for warehousing and logistics applications. Using permanent magnet drive technology and with advanced performance, comfortable, safe and reliable operations and low costs, it is an ideal tool for loading, unloading and handling palletized goods in warehouses, supermarkets, workshops and homes.

Everything Works Better. Because More Safety & Easy.

Safety:

- With the functions of release braking, reverse braking and emergency braking to ensure safe driving.
- Anti-roll back function to ensure safe operation.
- The emergency reverse button on the handle can effectively prevent the driver from being injured in an emergency occurring when the truck is driving forwards.
- With the dual protection by the electronic lifting limit and mechanical limit switches that are provided for the standard configuration, the impact caused by lifting to the top can be avoided, the motor can be effectively protected and the safety of the goods can be ensured.



Maintenance:

- The lithium battery can be charged quickly and replaced easily.
- The novelty-designed handle has key switches that can be replaced separately.
- Power display can prompt users to charge in time.
- With a hood that can be opened very easily to expose all components and facilitate the maintenance of pallet.
- With all spindles equipped with self-lubricated sleeves and oil cups to facilitate maintenance and a long service life.





Appearance and **Ergonomics**.





Appearance:

- The A series mini pallet truck adopts a professional industrial design in appearance. The truck has a smooth vivid profile, a compact shape and a fully ergonomic design.
- With a large number of steel plate stamping and injection molding processes to enable a robust and durable product that meets environmental protection requirements.



High performance:

- With high power and 1.5 2.0 tons load capacity to meet the handling needs of most customers.
- DC permanent magnet / permanent magnet synchronous traction motor provides excellent performance and low heat generation.
- The truck has a regenerative braking function and can prevent sliding down a ramp.







High Power

High-

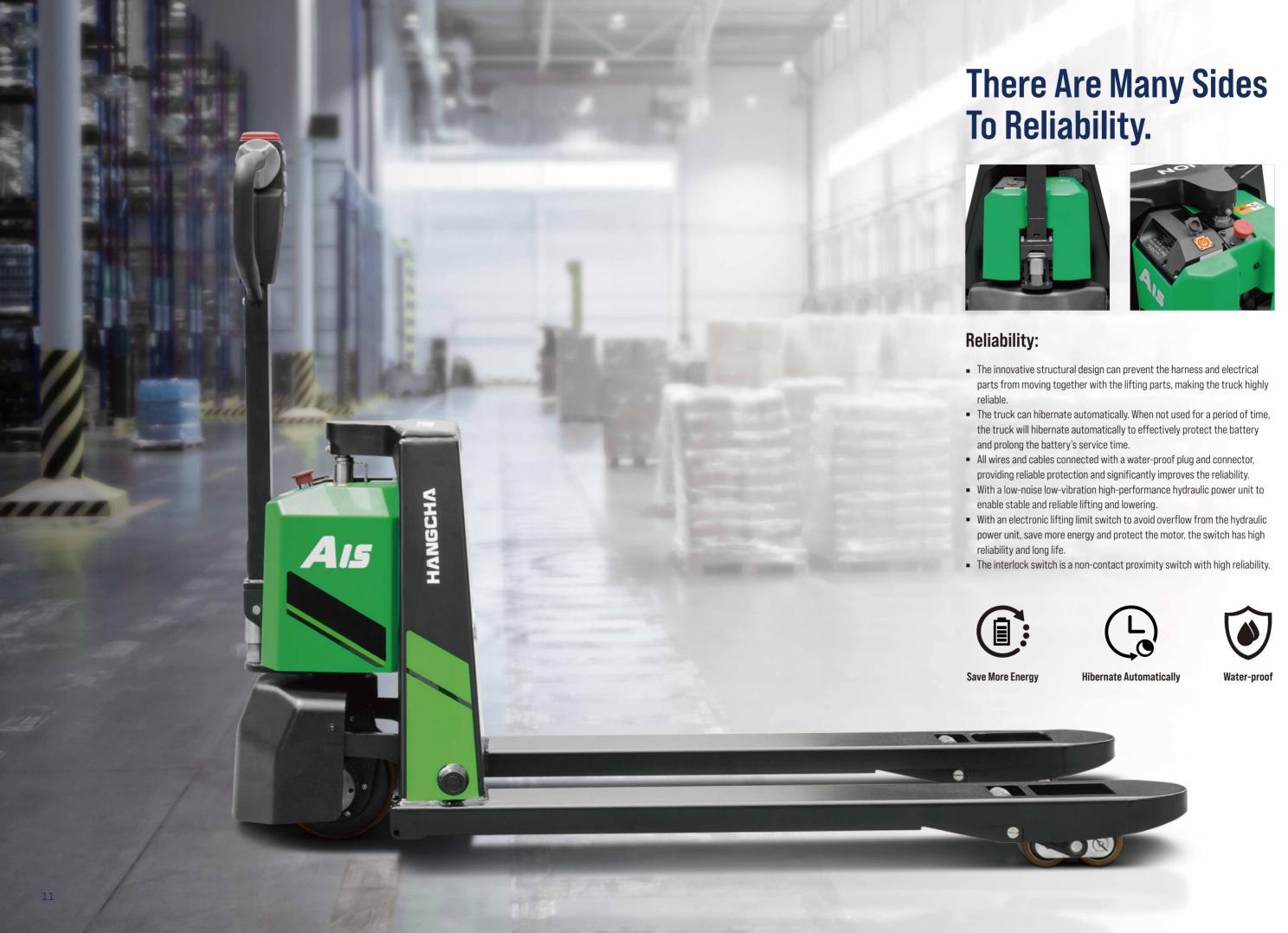
Code Lock

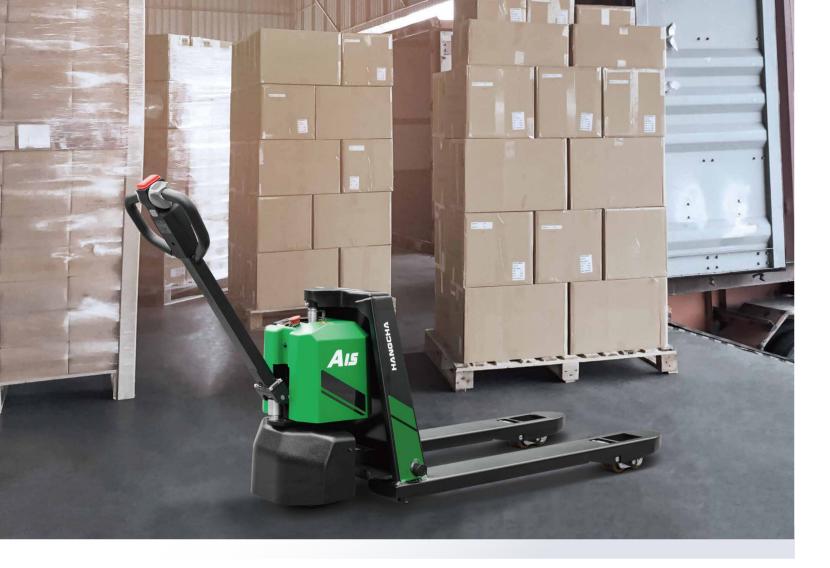
Comfort:

- The newly-developed control joystick is reliable, stylish and compact and all operations can be completed with one hand.
- The code lock can be used more conveniently.
- The low steering resistance design enables easy steering.
- With a high-end cell and multiple safety protection systems, the high-performance lithium battery has a long service life, maintenance-free, safe and reliable and can be charged quickly and replaced easily.
- Thanks to the compact, lightweight and flexible design, the truck with upright walking function can be operated very easily. It can be operated in narrow aisles, e.g., in a container.
- The clearance of forks are only 80mm, it can fit more pallets.









Standard Specification

- DC permanent magnet / permanent magnet synchronous traction motor
- Dual load wheels
- Fork interval: 560mm
- Fork length: 1150mm
- Code lock
- Emergency power off switch
- Multi-function meterHigh-performance lithium battery
- Non-contact interlock switch
- Electronic lifting limit switch
- Upright walking
- Horn

Options

- Fork interval: 680mm
- Fork length: 1220mm
- Single load wheel
- Key switch

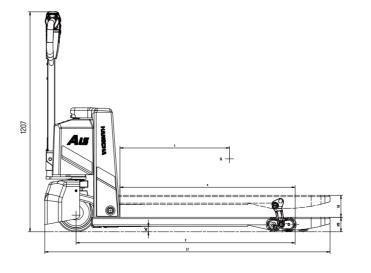


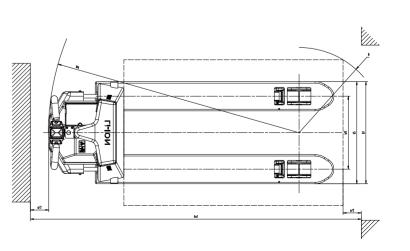
A series Mini Walkie Pallet Truck / Li-Ion Specification

| | 1.1 | Manufacturer | | | HANGCHA GROUP CO.,LTD. | |
|------------------------|--------|---|------------|----------------------|------------------------|----------------------|
| | 1.2 | Manufacturer's type designation | | CBD15-AMJ2-SI* | CBD15-AMA-SI | CBD20-AMA-SI |
| Distinguishing mark | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian | Pedestrian | Pedestrian |
| nguis | 1.5 | Rated capacity/rated load | Q (kg) | 1500 | 1500 | 2000 |
| Disti | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 960 | 960 | 960 |
| | 1.9 | Wheelbase | y (mm) | 1123 ³⁾ | 1123 ³⁾ | 1123 ³⁾ |
| Weight | 2.1 | Service Weight(Including battery) | kg | 140 | 140 | 150 |
| Wei | | Battery weight | kg | 6.25 | 6.25 | 7.7 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU |
| ISSI. | 3.2 | Tyre size, front | | Ф210х70 | Ф210х70 | Ф210х70 |
| Tyres, chassis | 3.3 | Tyre size, rear | | Ф80х64 | Ф80х64 | Ф80х64 |
| Tyre | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x/4 | 1x/4 | 1x/4 |
| | 3.7 | Tread, rear | b11 (mm) | 400 | 400 | 400 |
| | 4.4 | Lift | hs (mm) | 120 | 120 | 120 |
| | 4.15 | Fork height,lowered | h13 (mm) | 80 | 80 | 80 |
| | 4.19 | Overall length | l1 (mm) | 1562 | 1562 | 1562 |
| 60 | 4.21 | Overall width | b1 (mm) | 560 | 560 | 560 |
| Dimensions | 4.22 | Fork dimensions | s/e/l (mm) | 50/160/1150 | 50/160/1150 | 50/160/1150 |
| jii ei | 4.25 | Distance between fork-arms | b5 (mm) | 560/680 | 560/680 | 560/680 |
| - | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 30 | 30 | 30 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 1763 ¹⁾³⁾ | 1763 1)3) | 1763 ¹⁾³⁾ |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 1813 ²⁾³⁾ | 1813 ²⁾³⁾ | 1813 ²⁾³⁾ |
| | 4.35 | Turning radius | Wa (mm) | 1296 ³⁾ | 1296 ³⁾ | 1296 ³⁾ |
| φ. | 5.1 | Travel speed,laden/unladen | km/h | 4.5/4.8 | 4.5/4.8 | 4.5/4.8 |
| Performance data | 5.2 | Lift speed,laden/unladen | m/s | 0.025/0.035 | 0.025/0.035 | 0.025/0.035 |
| erfor | 5.3 | Lowering speed,laden/unladen | m/s | 0.05/0.040 | 0.05/0.040 | 0.05/0.040 |
| <u> </u> | 5.8 | Max Gradeability,laden/unladen | % | 6/15 | 8/15 | 6/15 |
| .º e | 6.1 | Drive motor rating S2 60 min | kW | 0.65 | 0.65 | 0.65 |
| Electric Engine | 6.2 | Lift motor rating at S3 15% | kW | 0.8 | 0.8 | 0.8 |
| | 6.4 | Battery voltage,rated capacity | V/Ah | 24/24 | 24/24 | 24/30 |
| | 8.1 | Type of drive control | | DC | PMSM | PMSM |

Note: 1). VDI 2198: +345mm 2). VDI 2198: +192mm 3). When fork lowered,+76mm

* CE model





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A series Pallet Truck Mini Range With Lithium

with capacities of 1,500/2,000kg

The A Series 1.5t & 2t Mini Lithium-ion Pallet Trucks are new generation of products developed by Hangcha for warehouse and logistics applications. They feature fast charging, advanced performance, comfortable operation, safety, reliability and low maintenance cost with the Li-lon technology.

The trucks are ideal tool for loading, unloading, and handling palletized goods in warehouses, supermarkets, workshops and homes.

Appearance

- / The A Series 1.5t & 2t Mini Lithium-ion Pallet Trucks are completed with specialized industrial design of appearance. The trucks feature smooth lines and affluent sense of movement, and compact profile, with full consideration being given to ergonomics, in accord with the latest appearance design trend.
- / They are manufactured with a large number of steel plate stamping and injection molding technologies, featuring solidness, durability, and high grade, in compliance with environmental requirements.

High Performance

- / With strong power, they can satisfy the handling demand of most customers, with 6h battery life.
- / With permanent magnet travel motor, they feature excellent performance and low heat emission.
- / Regenerative brake of the pallet truck prevents it from sliding on a slope.
- / Their controllers, hydraulic power packs, switches, plug connectors, and other important parts are all of renowned domestic and abroad brands.
- / The life of battery is up to 2000 cycles.
- / High-quality and high rate battery cells, with lattice tandem & parallel combination technology, offer excellent performance.

Comfort

- / Truck structure of optimized design guarantees terrific operating view of the truck.
- / With small sizes, the operation is easy, flexible and extremely convenient, and the upright-tiller running function allows it to work within confined space, such as container.
- / Standard height of fork is 80mm, and guiding device is added to facilitate access and exit of pallets (including closed-deck pallets).
- / The battery can be removed from truck side, and features small volume and light weight, and can be replaced easily and quickly;
- / Charging can be completed without removing the battery out from the truck.

Reliability

- / The three-point support design is applied, and side support system is provided to guarantee safety and stability.
- / With optimized design, and lifting rod is steady and reliable, bearing small force.
- / All plug connectors are all waterproof, and all wires and cables have reliable protection, which increases reliability of electrical system significantly.
- / The cutting-edge hydraulic power unit features low noise, small vibration, and stable and reliable rising and declining.
- / Stamping molded fork has higher strength and impact resistance, with even higher working efficiency by working together with the fork-tip guiding function.
- / The interlock switch is of non-contact proximity switch, with extremely high reliability.
- / One-piece iron wheel hood offers good protection to truck body against external impact.
- / The built-in safety protection system of the battery can monitor voltage, temperature, and current of the battery in real time, and guarantee that the battery works safely.
- / The battery is placed inside the chassis, which can prevent the battery from damage because of impact.



Easy for exchanging battery



The upright-tiller running function allows it to work within confined space, such as container



The modular tiller is simple but reliable and beautiful, all parts inside it can be replaced separately and all operations call be done easily with one band.



Body feature smooth lines and affluent sense of movement, and compact profile in accord with the latest appearance design trend



Built-in charger, charging is more convenient



Safety

- / Release braking, reverse braking, and emergency braking can ensure safety of traveling;
- / Anti-sliding function on slope can ensure safety of operation.
- / The emergency reversing button at top of the tiller can avoid the driver from injury effectively in case of emergency during backward driving of the truck;
- / Dual protection with electronic lifting limit and smart controller limit of standard configuration avoids impact when fork is lifted to top end of mast, offers effective protection to working motor, and guarantees safety of goods.
- / The truck goes into sleep mode automatically after 30-min standby, which is safe and energy efficient.

Maintenance

- / Battery indicator will prompt the user to charge the battery timely.
- / Engine cover can be opened fully, and all components and parts are clear at a glance, which is very convenient for maintenance of the entire machine.
- / All rotating shafts are equipped with lubricating sleeve and oil cup, which is convenient for maintenance and has a long service life.

Options

- / Alternative fork lengths and widths
- / Single load wheel
- / PIN lock

Standard Specification

- / Permanent magnet drive motor
- / Emergency power off switch
- / Battery meter
- / PU wheels
- / Fork length 1150mm
- / Outer distance of forks 560mm
- / Electronic lifting limit
- / Non-contact interlock switch
- / Modular tiller
- / Electric horn
- / High-performance lithium Iron-Phosphate battery
- / Upright-tiller creep speed running
- / Guide fork for closed-deck pallets
- / Double load wheels
- / Automatic sleep function
- / Built-in charger

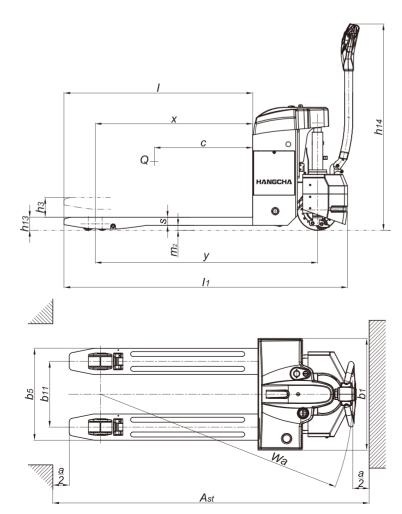


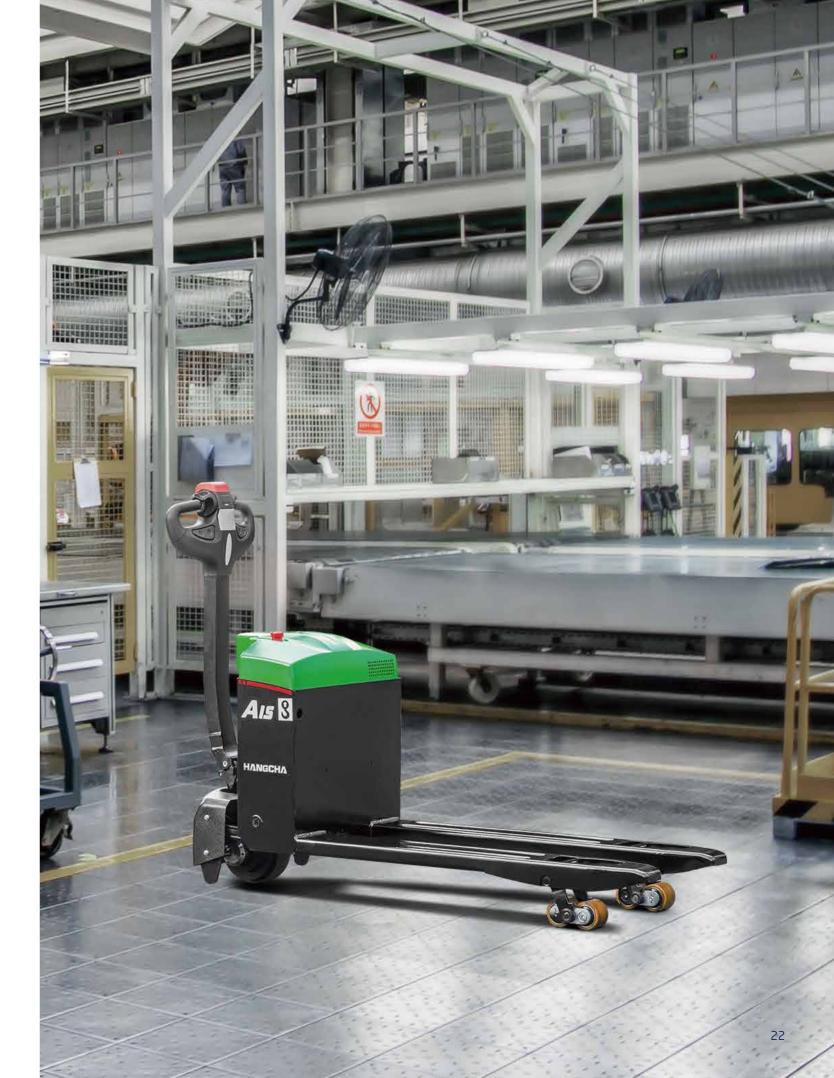
A series 1.5/2.0t Pallet Truck Mini Range III Specification:

| | | lu c | | | |
|------------------------|---|---|-----------|----------------|--------------------|
| | 1.1 | Manufacturer | | | GROUP CO.,LTD. |
| B | 1.2 | Manufacturer's type designation | | CBD15-A3MC2-I* | CBD20-A3MA-I* |
| ië × | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian | Pedestrian |
| ngu | 1.5 | Rated capacity/rated load | Q (kg) | 1500 | 2000 |
| Distinguishing mark | 1.6 | Load centre distance | c (mm) | 600 | 600 |
| ä | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 960 | 960 |
| | _ | | y (mm) | 1225 | 1225 |
| Ħ | 1.9 Wheelbase 2.1 Service Weight(Inc Battery weight 3.1 Tyres: solid rubber, 3.2 Tyre size, front 3.3 Tyre size, rear 3.4 Additional wheel (or | Service Weight(Including battery) | kg | 180 | 200 |
| Weig | | Battery weight | kg | 10.9 | 10.9 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU |
| <u>2</u> . | 3.2 | Tyre size, front | mm | φ 210×70 | φ 210×70 |
| assi | 3.3 | Tyre size, rear | mm | φ 80×64 | φ 80×64 |
| 5 | 3.4 | Additional wheel (dimensions) | mm | φ 70×40 | φ 70×40 |
| res, | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x/4 | 1x/4 |
| _≥ | 3.6 | Tread, front | b10(mm) | 404 | 404 |
| | 3.7 | Tread, rear | b11(mm) | 400 | 400 |
| | 4.4 | Lift | h₃ (mm) | 120 | 120 |
| | 4.15 | Fork height,lowered | h13(mm) | 80 | 80 |
| | 4.19 | Overall length | lı(mm) | 1669 | 1669 |
| S | 4.21 | Overall width | b1(mm) | 568 | 568 |
| Dimensions | 4.22 | Fork dimensions | s/e/l(mm) | 50/160/1150 | 50/160/1150 |
| Je . | 4.25 | Distance between fork-arms | bs(mm) | 560/680 | 560/680 |
| ⊟ | 4.32 | Ground clearance, centre of wheelbase | m2(mm) | 30 | 30 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast(mm) | 1850 | 1850 |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast(mm) | 1900 | 1900 |
| | 4.35 | Turning radius | Wa(mm) | 1400¹) | 1400 ¹⁾ |
| JCe | 5.1 | Travel speed,laden/unladen | km/h | 4.5/4.8 | 4.5/4.8 |
| ormar data | 5.2 | Lift speed,laden/unladen | mm/s | 0.050/0.060 | 0.050/0.060 |
| Performance data | 5.3 | Lowering speed,laden/unladen | mm/s | 0.040/0.045 | 0.040/0.045 |
| Per | 5.8 | Max Gradeability,laden/unladen | % | 6/15 | 6/15 |
| is e | 6.1 | Drive motor rating S2 60 min | kW | 0.65 | 0.65 |
| Electric | 6.2 | Lift motor rating at S3 15% | kW | 0.8 | 0.8 |
| ₩ 0 | 6.4 | Battery voltage,rated capacity | V/Ah | 24/40 | 24/40 |
| | 8.1 | Type of drive control | | DC | DC |

Note: 1). When fork lowered,+60mm

★ CE model







A Series Pallet Truck Mini Range II

with capacities of 1,500kg

The A series pallet truck mini range II has been engineered to be both powerful and flexible to meet the requirements of many demanding applications. Whether it's supermarket work, delivery service, stock replenishment or heavy manufacturing, the A series pallet truck mini range II has the strength and durability to minimise your total cost of ownership.

Appearance

- / A series pallet truck mini range II applied professional industrial design, stream lines, and compact, and fully ergonomic consideration, in line with the latest design trends.
- / Applied steel stamping and injection molding processes, which is robust, durable, and also environmental compliance.

Rema tiller head

High Performance

- / Rated capacity 1500kg, meet the needs of the majority of customers.
- / Powered by traction motor not only has good acceleration and perfect performance, but also low heat.
- / Latest CURTIS control system, precise and smooth.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as tiller, switches, connectors, battery indicator and hour meter all adopt the famous brand.



Auxillary wheels are equipped to have

Reliability

- / 5-pivot design provide longer working life.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch formed forks to provide more strength and tip guide to provide higher efficient operation.
- / Using non-contact proximity switch, improves safety and reliability.

HANGCHA

Modern outline design

Safety

- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Anti-slope on gradient can keep the safety.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / The standard equipped electronic lifting limitation protect the pump motor from damaging dramatically and more energy saving.



Tandem load whee



Comfort

- / Simple and beautiful tiller made by REMA designed to make the operator feel comfortable, all the operation can be completed by one hand.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / Built-in charger and maintenance free gel battery adopted to provide convenient usage.
- / The compact body and semicircular design provide an ideal operation in limited space, and the ability of walking upright greatly increases the convenience in the container.
- / Standard fork height 80mm, equipped the guide device easy to get in pallets (including sealing pallets).
- / Side battery change is standard feature.

Maintenance

- / Built-in charger and maintenance free gel battery, you don't need to worry about them.
- / Integrated battery indicator, hour meter and self-diagnostic instrument
- / Full opened hood, easy accessibility of all components, is easy for service.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

Standard Specification

- / Permanent magnet drive motor
- / CURTIS permanent magnet controller
- / Emergency switch
- / Multi-function battery indicator
- / PU wheel
- / 1150mm fork length
- / 560mm outside fork width
- / Electronic lifting limitation
- / Non-contact proximity switch
- / Till made by REMA
- / Horn
- / Maintenance free battery
- / Internal charger
- / Walking upright
- / Guide device
- / Additional wheel
- / Tandem load wheel

Options

- / Different length of fork
- / Different width of outside fork
- / Single load wheel

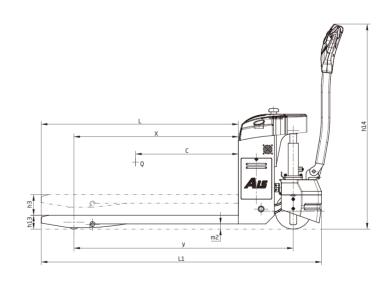


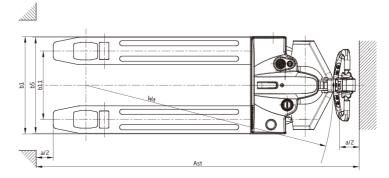
A series Mini Range pallet truck I specification

| | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. | | |
|------------------------|--------|---|---------------------|------------------------|--|--|
| 00 | 1.2 | Manufacturer's type designation | | CBD15-A2MC1 | | |
| Distinguishing mark | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian | | |
| ark | 1.5 | Rated capacity/rated load | Q (kg) | 1500 | | |
| E E | 1.6 | Load centre distance | c (mm) | 600 | | |
| Dis | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 960 | | |
| | 1.9 | Wheelbase | y (mm) | 1285 | | |
| = | 2.1 | Service Weight(Including battery) | kg | 220 | | |
| Weight | | Battery weight | kg | 50 | | |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | | |
| <u></u> | 3.2 | Tyre size, front | | Ф210х70 | | |
| Tyres, chassis | 3.3 | Tyre size, rear | | 2×Φ80x64 | | |
| - | 3.4 | Additional wheel (dimensions) | | Ф70х40 | | |
| res | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+2/4 | | |
| 2 | 3.6 | Tread, front | b10 (mm) | 404 | | |
| | 3.7 | Tread, rear | b11 (mm) | 400 | | |
| | 4.4 | Lift | h₃ (mm) | 120 | | |
| | 4.15 | Fork height,lowered | h13 (mm) | 80 | | |
| | 4.19 | Overall length | I ₁ (mm) | 1669 | | |
| SI . | 4.21 | Overall width | b1(mm) | 568 | | |
| Dimensions | 4.22 | Fork dimensions | s/e/l (mm) | 50/160/1150 | | |
| l e | 4.25 | Distance between fork-arms | bs (mm) | 560/680 | | |
| ∣≣ | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 30 | | |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 1850¹¹ | | |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 1900 ²⁾ | | |
| | 4.35 | Turning radius | Wa (mm) | 1400³) | | |
| Performance data | 5.1 | Travel speed,laden/unladen | km/h | 4.5/4.9 | | |
| ormai | 5.2 | Lift speed,laden/unladen | m/s | 0.050/0.060 | | |
| φţ | 5.3 | Lowering speed,laden/unladen | m/s | 0.040/0.045 | | |
| Pel | 5.8 | Max Gradeability,laden/unladen | % | 6/15 | | |
| .e e. | 6.1 | Drive motor rating S2 60 min | kW | 0.65 | | |
| Electric | 6.2 | Lift motor rating at S3 15% | kW | 0.8 | | |
| <u> </u> | 6.4 | Battery voltage,rated capacity | V/Ah | 2x12/70 | | |
| | 8.1 | Type of drive control | | DC | | |
| | 9.1 | Manufacturer | | Curtis | | |

26

Note: 1). VDI 2198: +358mm 2). VDI 2198: +200mm 3). When fork lowered,+60mm







A Series Mini Pallet Truck

with capacities of 2,000kg

The A Series 2.0t Mini Pallet Truck is a new product developed by Hangcha for warehouse and logistics applications. With the state-of-the-art permanent magnet brushless drive technology, and the 48V system, features advanced performance, comfortable operation, safety and reliability, and low maintenance cost, and is an ideal vehicle for loading, unloading, and handling palletized goods in warehouses, supermarkets, workshops and homes.

Appearance

- / The A Series Pallet Truck is completed with specialized industrial design of appearance. The entire truck features smooth lines and affluent sense of movement, and compact profile, with full consideration being given to ergonomics, in accord with the latest appearance design trend.
- / It is manufactured with a large number of steel plate stamping and injection molding technologies, featuring solidness, durability, and high grade, in compliance with environmental requirements.

Safety

- / Release braking, reverse braking, and three types of emergency braking can ensure safety of traveling;
- / Anti-sliding function on slope can ensure safety of operation.
- / The emergency reversing button at top of the tiller can avoid the driver from injury effectively in case of emergency during backward driving of the truck;
- / Dual protection with electronic lifting limit and smart controller limit of standard configuration avoids impact when fork is lifted to top end of mast, offers effective protection to working motor, and guarantees safety of goods.

Comfort

- / Truck structure of optimized design guarantees terrific operating view of the truck.
- / Built-in charger and rubber enclosed maintenance-free battery are very convenient for use.
- / With small sizes, the operation is easy, flexible and extremely convenient, and the upright-tiller running function allows it to work within confined space, such as container.
- / Standard height of fork is 80mm, and guiding device is added to facilitate access and exit of pallets (including closed-deck, American, European double-deck pallets).
- / With integrated battery assembly, and nylon guiding device is added at base plate for easy battery replaced by laterally moving the device.



Tille



Additional wheels are equipped to have better stability



Modern outline design



Battery side roll ou

Reliability

- / The three-point support design is applied, and side support system and elastic auxiliary wheels are provided to guarantee safety and reliability.
- / With optimized design, the lifting rod is steady and reliable, bearing small force.
- / All plug connectors are imported and waterproof, and all wires and cables have reliable protection, which increases reliability of electrical system significantly.
- / The cutting-edge hydraulic power unit features low noise, small vibration, and stable and reliable rising and
- / Stamping molded fork has higher strength and impact resistance, with even higher working efficiency by working together with the fork-tip guiding function.
- / The interlock switch is of non-contact proximity switch, with extremely high reliability.
- / One-piece iron wheel hood offers good protection to truck body against external impact.

High Performance

- / The load capacity is 2.0t, which can satisfy the handling demand of most customers, with 6h battery life.
- / With stronger power, full-load gradeability of the truck can reach 8%.
- / It is equipped with permanent magnet brushless drive motor, with excellent performance, and a new 48V power supply system, with extremely low heat generation.
- / The latest CURTIS permanent magnet brushless control system offers excellent, high-efficiency, and stable control performance.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Controllers, tiller, switches, plug connectors, battery condition meter, timer and other important parts are all of renowned domestic and abroad brands.

Maintenance

- / As standard configuration, built-in charger and maintenance-free battery require no maintenance work.
- / Battery indicator will prompt the user to charge the battery timely.
- / Engine cover can be opened fully, and all components and parts are clear at a glance, which is very convenient for maintenance of the entire machine.
- / All rotating shafts are equipped with lubricating sleeve and oil cup, which is convenient for maintenance and has a long service life.

Standard specification

- / 48V permanent magnet brushless drive motor
- / CURTIS permanent magnet brushless controller
- / VIBO hydraulic power unit
- / Emergency power off switch
- / Battery indicator
- / PU wheels
- / Fork length 1150mm
- / 560mm outer distance between forks
- / 80mm distance from fork surface to ground
- / Electronic lifting limit
- / Non-contact interlock switch
- / Horn
- / Maintenance-free gel battery
- / Built-in charger
- / Upright-tiller creep speed running
- / Elastic addtional wheels
- / Tandem load wheels

Options

- / Various fork lengths
- / Various outer distances between forks
- / Single load wheel
- / Coded lock

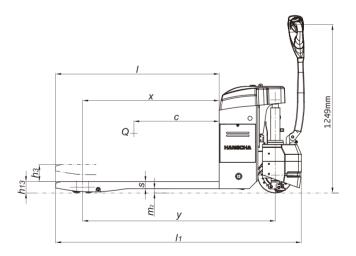
- / 75mm ground clearance

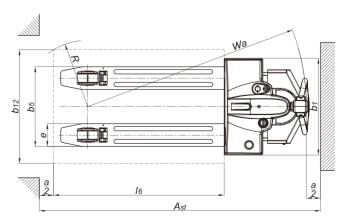


A Series Mini Pallet Truck specification

| | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. |
|------------------------|--------|---|---------------------|------------------------|
| po | 1.2 | Manufacturer's type designation | | CBD20-AMC1 |
| Distinguishing mark | 1.4 | Operator type | | Pedestrian |
| guis | 1.5 | Rated load | Q (kg) | 2000 |
| | 1.6 | Load centre distance | c (mm) | 600 |
| Dis . | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 960 |
| | 1.9 | Wheelbase | y (mm) | 1299 ¹⁾ |
| Ħ | 2.1 | Service Weight(Including battery) | kg | 340 |
| Weight | | Battery weight | kg | 80 |
| | 3.1 | Tyres | | PU |
| <u>.v</u> | 3.2 | Tyre size,front | mm | Ф250х80 |
| Tyres, chassis | 3.3 | Tyre size, rear | mm | Ф80х64 |
| = | 3.4 | Additional wheel (dimensions) | mm | Ф70х40 |
| /res | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+2/4 |
| 6 | 3.6 | Tread, front | b10 (mm) | 432 |
| | 3.7 | Tread, rear | b11 (mm) | 400 |
| | 4.4 | Lift | h₃ (mm) | 120 |
| | 4.15 | Height,lowered | h13 (mm) | 80 |
| | 4.19 | Overall length | lı (mm) | 1728 |
| 2 | 4.21 | Overall width | b1(mm) | 680 |
| Dimensions | 4.22 | Fork dimensions | s/e/I (mm) | 50/160/1150 |
| Je J | 4.25 | Distance between fork-arms | bs (mm) | 560 |
| ∣≣ | 4.32 | Ground clearance, centre of wheelbase | m ₂ (mm) | 30 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 1955 ^{1) 2)} |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2005 ^{1) 3)} |
| | 4.35 | Turning radius | Wa (mm) | 1482¹¹ |
| Performance data | 5.1 | Travel speed,laden/unladen | km/h | 4/5.5 |
| ormai | 5.2 | Lift speed,laden/unladen | m/s | 27/40 |
| μę | 5.3 | Lowering speed,laden/unladen | m/s | 42/38 |
| Pe | 5.8 | Max Gradeability,laden/unladen | % | 8/16 |
| 눈 | 6.1 | Drive motor rating | kW | 0.8 |
| Electric | 6.2 | Lift motor rating | kW | 0.8 |
| ш • | 6.4 | Battery voltage,nominal capacity | V/Ah | 4x12/50 |
| | 8.1 | Type of drive control | | Curtis DC |

Note: 1). Load section lowered+56mm; 2). VDI 2198:+361mm; 3). VDI 2198:+201mm.







A series pallet truck mini range III

with capacities of 1,500 to 2,000kg

The A series pallet truck mini range III has been engineered to be both powerful and flexible to meet the requirements of many demanding applications.

Whether it's supermarket work, delivery service, stock replenishment or heavy manufacturing, the A series pallet truck mini range III has the strength and durability to minimise your total cost of ownership.

Appearance

- / A series pallet truck mini range III applied professional industrial design, stream lines, and compact, and fully ergonomic consideration, in line with the latest design trends.
- / Applied steel stamping and injection molding processes, which is robust, durable, and also environmental compliance.

High Performance

- / Rated capacity 1500-2000kg, meet the needs of the majority of customers.
- / Powered by traction motor not only has good acceleration and perfect performance, but also low heat.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as tiller, switches, connectors, battery indicator and hour meter all adopt the famous brand.

Maintenance

- / Built-in charger and maintenance free gel battery, you don't need to worry about them.
- / Integrated battery indicator, hour meter and self-diagnostic instrument.
- / Full opened hood, easy accessibility of all components, is easy for service.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

Reliability

- / 5-pivot design provide longer working life.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch formed forks to provide more strength and tip guide to provide higher efficient operation.
- / Using non-contact proximity switch, improves safety and reliability.



The ergonomic tiller head allows for easy opperation with one hand



Auxiliary wheels are equipped to have better stability



Modern outline design



Tandem load whee

Safety

- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation
- / Anti-slope on gradient can keep the safety.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / The standard equipped electronic lifting limitation protect the pump motor from damaging dramatically and more energy saving.

Comfort

- / Make the operator feel comfortable, all the operation can be completed by one hand.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / Built-in charger and maintenance free gel battery adopted to provide convenient usage.
- / The compact body and semicircular design provide an ideal operation in limited space, and the ability of walking upright greatly increases the convenience in the container.
- / Standard fork height 80mm, equipped the guide device easy to get in pallets (including sealing pallets).
- / Side battery change is standard feature.

Options

- / Different length of fork
- / Different width of outside fork
- / Single load wheel

Standard specification

- / Permanent magnet drive motor
- / Emergency switch
- / Multi-function battery indicator
- / PU wheel
- / 1150mm fork length
- / 560mm outside fork width
- / Electronic lifting limitation
- / Non-contact proximity switch
- / Horr
- / Maintenance free battery
- / Internal charger
- / Walking upright
- / Guide device
- / Additional wheel / Tandem load wheel

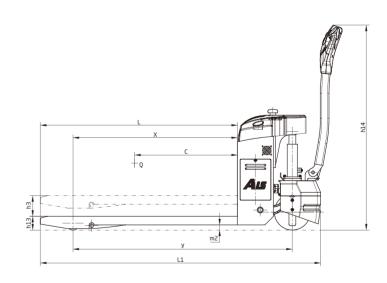


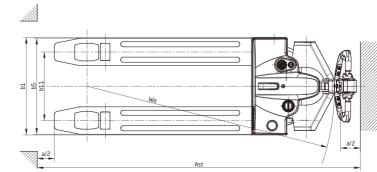
A series Mini Range pallet truck III specification

| | 1.1 | Manufacturer | | | HANGCHA GROUP CO.,LTD. | |
|------------------------|--------|---|------------|-----------------------|------------------------|-----------------------|
| 0.0 | 1.2 | Manufacturer's type designation | | CBD15-A3MJ2* | CBD15-A3MC2* | CBD20-A3MA* |
| Distinguishing mark | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian | Pedestrian | Pedestrian |
| guis | 1.5 | Rated capacity/rated load | Q (kg) | 1500 | 1500 | 2000 |
| ļ Ē Ē | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 |
| Dis | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 960 | 960 | 960 |
| | 1.9 | Wheelbase | y (mm) | 1225³) | 1225³) | 1225 3) |
| ¥ | 2.1 | Service Weight(Including battery) | kg | 220 | 220 | 240 |
| Weight | | Battery weight | kg | 52 | 52 | 52 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU |
| <u>.s</u> | 3.2 | Tyre size, front | mm | φ210x70 | φ210x70 | φ210×70 |
| Tyres, chassis | 3.3 | Tyre size, rear | mm | φ80x64 | φ80x64 | φ80×64 |
| € | 3.4 | Additional wheel (dimensions) | mm | φ70x40 | φ70x40 | φ70×40 |
| res | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+2/4 | 1x+2/4 | 1x+2/4 |
| 2 | 3.6 | Tread, front | b10 (mm) | 404 | 404 | 404 |
| | 3.7 | Tread, rear | b11 (mm) | 400 | 400 | 400 |
| | 4.4 | Lift | h₃ (mm) | 120 | 120 | 120 |
| | 4.15 | Fork height,lowered | h13 (mm) | 80 | 80 | 80 |
| | 4.19 | Overall length | lı (mm) | 1669 | 1669 | 1669 |
| su | 4.21 | Overall width | b1(mm) | 568 | 568 | 568 |
| Dimensions | 4.22 | Fork dimensions | s/e/l (mm) | 50/160/1150 | 50/160/1150 | 50/160/1150 |
| Jae | 4.25 | Distance between fork-arms | bs (mm) | 560/680 | 560/680 | 560/680 |
| = | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 30 | 30 | 30 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 1850 ^{1) 3)} | 1850 ^{1) 3)} | 1850 ^{1) 3)} |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 1900 ^{2) 3)} | 1900 ^{2) 3)} | 1900 ^{2) 3)} |
| | 4.35 | Turning radius | Wa (mm) | 1400³) | 1400³) | 1400³) |
| Jce | 5.1 | Travel speed,laden/unladen | km/h | 4.5/4.8 | 4.5/4.8 | 4.5/4.8 |
| ormai | 5.2 | Lift speed,laden/unladen | m/s | 0.05/0.06 | 0.05/0.06 | 0.035/0.048 |
| Performance data | 5.3 | Lowering speed,laden/unladen | m/s | 0.045/0.04 | 0.045/0.04 | 0.04/0.035 |
| Pel | 5.8 | Max Gradeability,laden/unladen | % | 6/15 | 6/15 | 6/15 |
| is e | 6.1 | Drive motor rating S2 60 min | kW | 0.65 | 0.65 | 0.65 |
| Electric | 6.2 | Lift motor rating at S3 15% | kW | 0.8 | 0.8 | 0.8 |
| - H | 6.4 | Battery voltage,rated capacity | V/Ah | 24/85 | 24/85 | 24/100 |
| | 8.1 | Type of drive control | | DC | DC | DC |

Note: 1). VDI 2198: +358mm 2). VDI 2198: +200mm 3). When fork lowered,+60mm

★ CE model







A Series Pallet Truck Basic Range

with capacities of 2,000kg

High Performance

- / AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free
- / The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- / The applied CANBUS structure to offer more reliable and faster command access.
- / Regenerative brake and slope anti-slide function are offered by this truck.

Comfort

- / The shock absorption design of foldable platform improves comfort greatly to the operator.
- / Simple and beautiful tiller designed to operate all functions easily even by one hand.
- / Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.

Reliability

- / Five-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capability and longer working life.
- / Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- / The adopted unique floating suspension system ensures good driving wheels' grip and excellent stability.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.
- / The power plug is fixed on the truck body to avoid damage from battery installment.

Safety

- / With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- / The applied slope anti-slip function ensures the safety of the operation.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / The standard equipped electronic lifting limitation and intellectual control limitation to offer double protection to working motor and loads from damaging.



Standard Specification

/ Horn / Hydraulic power unit
/ Pedal (only CBD20-AEC1S) / 540mm outside fork width
/ AC drive wheel / Electronic lifting limitation
/ Tandem load wheels / Emergency disconnect swtich
/ 1150mm fork length / Multi-function battery indicator
/ CURTIS AC controller / CAN-bus system multi-function tiller

Options

/ Load backrest

/ Guide roller of pallet

/ Handrail

/ 210Ah, 240Ah, battery

/ Different outside fork width (560mm, 600mm, 650mm, 680mm, 700mm)

/ Cold store protection (-30°C)

/ Different length of forks (1220mm,1400mm, 1600mm, 2000mm,2150mm,2400mm)

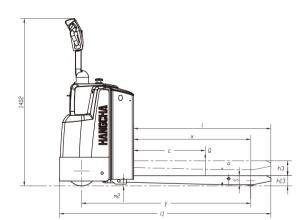


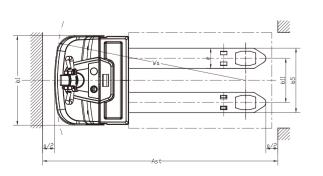
Stand-on

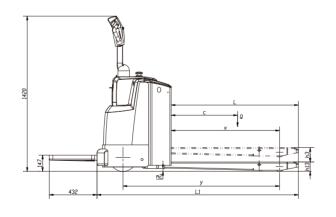
A Series Pallet Truck Basic Range

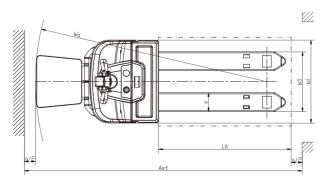
| | | [| | | |
|------------------------|--------|---|-------------------------|----------------------------|---------------------------|
| | 1.1 | Manufacturer | | HANGCHA GR | |
| Distinguishing mark | 1.2 | Manufacturer's type designation | | CBD20-AEC2S CBD20-AEZ3S | CBD20-AEC2 CBD20-AEZ3 |
| lsi 岩 | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Standing | Pedestrian |
| , <u>E</u> | 1.5 | Rated capacity/rated load | Q (kg/lb) | 2000/4409 | 2000/4409 |
| js | 1.6 | Load centre distance | c (mm/in) | 600/23.6 | 600/23.6 |
| - | 1.9 | Wheelbase | y (mm/in) | 1415/55.7 | 1415/55.7 |
| Weight | 2.1 | Service Weight | kg/lb | 540/1190 | 490/1080 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU |
| .⊻ | 3.2 | Tyre size, front | mm/in | Ф250x80/9.8x3.1 | Ф250x80/9.8x3.1 |
| ass | 3.3 | Tyre size, rear | mm/in | Φ85x70/3.3x2.8 | Φ85x70/3.3x2.8 |
| E | 3.4 | Additional wheel (dimensions) | mm/in | Φ100x40/3.9x1.6 | Ф100x40/3.9x1.6 |
| Tyres, chassis | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+2/4 | 1x+2/4 |
| - | 3.6 | Tread, front | b10 (mm/in) | 534/21 | 534/21 |
| | 3.7 | Tread, rear | b ₁₁ (mm/in) | 370/14.6 | 370/14.6 |
| | 4.4 | Lift | h₃ (mm/in) | 125/4.9 | 125/4.9 |
| | 4.15 | Fork height,lowered | h13 (mm/in) | 85/3.3 | 85/3.3 |
| | 4.19 | Overall length | lı (mm/in) | 1820(2252)/71.7(88.7) | 1770/69.7 |
| S. | 4.21 | Overall width | b1(mm/in) | 750/29.5 | 75029.5 |
| Dimensions | 4.22 | Fork dimensions ISO 2331 | s/e/I (mm/in) | 64x170x1150(2.5x6.7x45.3) | 64x170x1150(2.5x6.7x45.3) |
| mer | 4.25 | Distance between fork-arms | bs (mm/in) | 540/680(21.3/26.8) | 540/680(21.3/26.8) |
| ਾਂ | 4.32 | Ground clerance,center of wheelbase | m2 (mm/in) | 25/1 | 25/1 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm/in) | 1967/77.4 | 1902/74.9 |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm/in) | 2017/79.4 | 1952/76.9 |
| | 4.35 | Turning radius | Wa (mm/in) | 1597/62.9 | 153260.3 |
| l ø | 5.1 | Travel speed,laden/unladen | km/h(mph) | 5.0/5.0(3.1/3.1) | 5.0/5.0(3.1/3.1) |
| a air | 5.2 | Lift speed,laden/unladen | m/s(ft/min) | 0.030/0.045(5.9/8.9) | 0.030/0.045(5.9/8.9) |
| Performance data | 5.3 | Lowering speed,laden/unladen | m/s(ft/min) | 0.050/0.035(9.8/6.9) | 0.050/0.035(9.8/6.9) |
| erf. | 5.8 | Max.Gradeability,laden/unladen | % | 6/15 | 6/15 |
| <u> </u> | 5.10 | Service brake | | Eletromagnetic | Eletromagnetic |
| .5 e | 6.1 | Drive motor rating S2 60 min | kW/hp | 1.1/1.5 | 1.1/1.5 |
| Electric | 6.2 | Lift motor rating at S3 15% | kW/hp | 0.8/1.1 | 0.8/1.1 |
| <u></u> = = | 6.4 | Battery voltage,rated capacity | V/Ah | 24/165 | 24/165 |
| | 8.1 | Type of drive control | | AC | AC |
| | 9.1 | Manufacturer | | CURTIS ZAPI | CURTIS ZAPI |

Note: 1). When fork lowered,+68mm/+2.68in 2). When fork lowered,+40mm/+1.57in











A Series Pallet Truck Hi Range

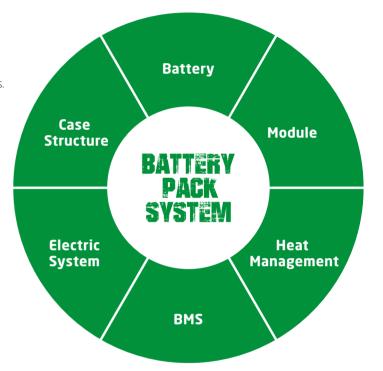
with capacities of 2,000 to 3,000kg





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 $\,^\circ\!\text{C}$ 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.





8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-lon Battery Pack specification

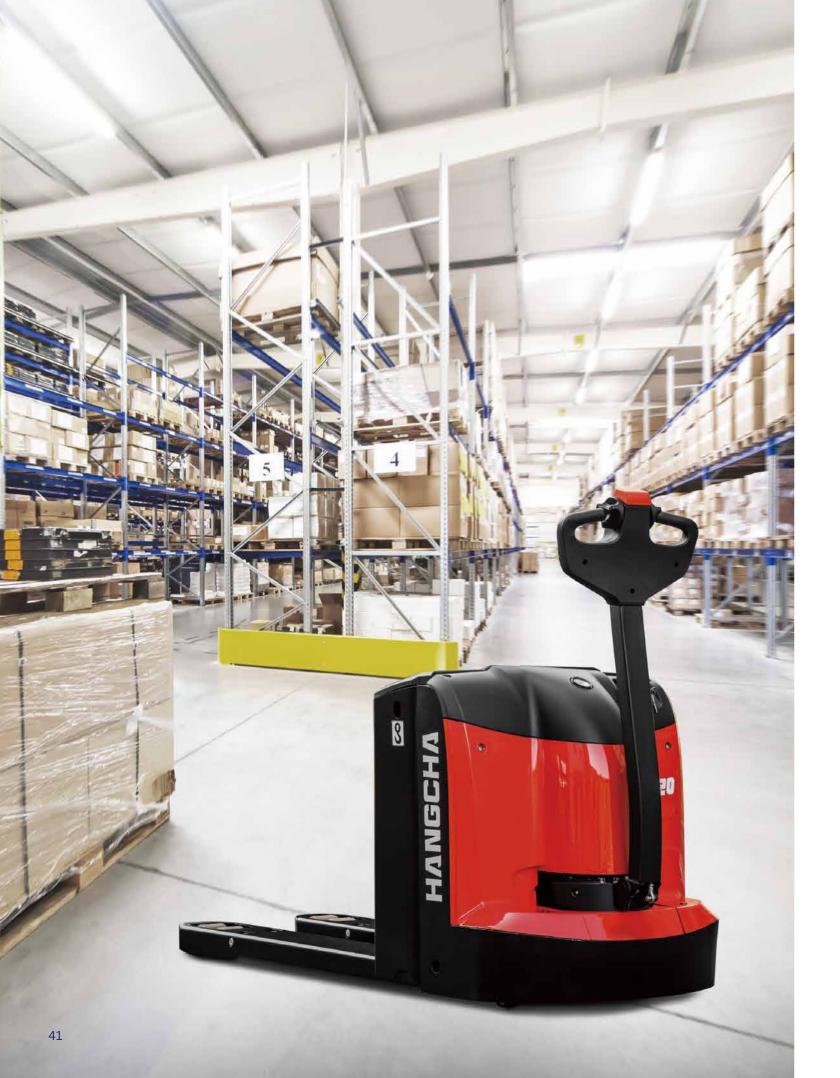
| Туре | | CBD20-AC2S-I | CBD30-AC2S-I | CBD20-AC2-I | CBD30-AC2-I |
|-------------------------|------|--------------|--------------|-------------|-------------|
| Li-lon battery | V/Ah | 24/125 | 24/125 | 24/125 | 24/125 |
| Li-Ion battery,Optional | V/Ah | 24/202 | 24/202 | - | |
| Titans charger | | SPC-24100 | SPC-24100 | SPC-24100 | SPC-24100 |



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







High Performance

- / AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free.
- / The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- / The applied CAN-BUS structure to offer more reliable and faster command access.
- / Regenerative brake and slope anti-slide function are offered by this truck.
- / Stand-on type with high power drive motor, provides fast travel speed and good gradeability.

Reliability

- / Five-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capacity and longer working life.
- / Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- / The adopted unique floating suspension system ensures good driving wheels grip and excellent.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.
- / H-type mast profile section to provide more stable and rigid performance.
- / The power plug is fixed on the truck body to avoid damage from battery installment.
- / Pedestrian type use the new design drive system, the drive motor will not accompany the tiller rotation, it can keep all the cable connect to the drive motor avoid being bent.
- / Using non-contact proximity switch, it can provides long life and reliable operation.

Comfort

- / The shock absorption design of foldable platform improves comfort greatly to the operator.
- / The new designed floating suspension driving system, adjustable automatically with loads, offers the driving wheels sufficient power.
- / Simple and beautiful tiller designed to operate all functions easily even by one hand.
- / Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.
- / Customer can choose different width of outside fork and length of forks to fit variable pallet.

Standard Specification

- ' Horn
- / AC drive motor
- / PU drive wheel
- / Pedal and handrail
- / Tandem load wheels
- / 1150mm fork length
- / CURTIS AC controller
- / Hydraulic power unit
- / 540mm outside fork width
- / Electronic lifting limitation
- / Emergency disconnect switch/ Multi-function battery indicator
- / CAN-bus system multi-function tiller
- / Electric steering (stand on pallet)

Safety

- / With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- / The applied slope anti-slip function ensures the safety of the operation.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / Lifting limitation switch to offer protection to the loads from damaging.
- / Turning speed is automatically reduced when steering only for stand-on.

Options

- / Different length of forks
- / Different width of outside fork
- / Cold store protection (-30°C)
- / Pedestrian:210Ah~240Ah
- / Stand-on:240Ah~340Ah
- / Guide roller of pallet
- / Load backrest
- / Automatic charger

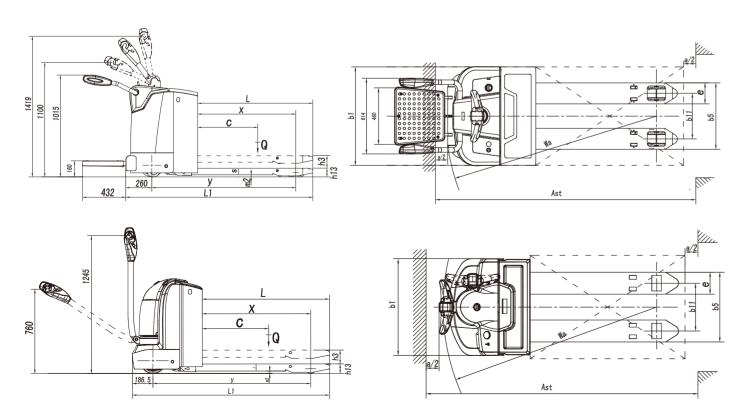
Maintenance

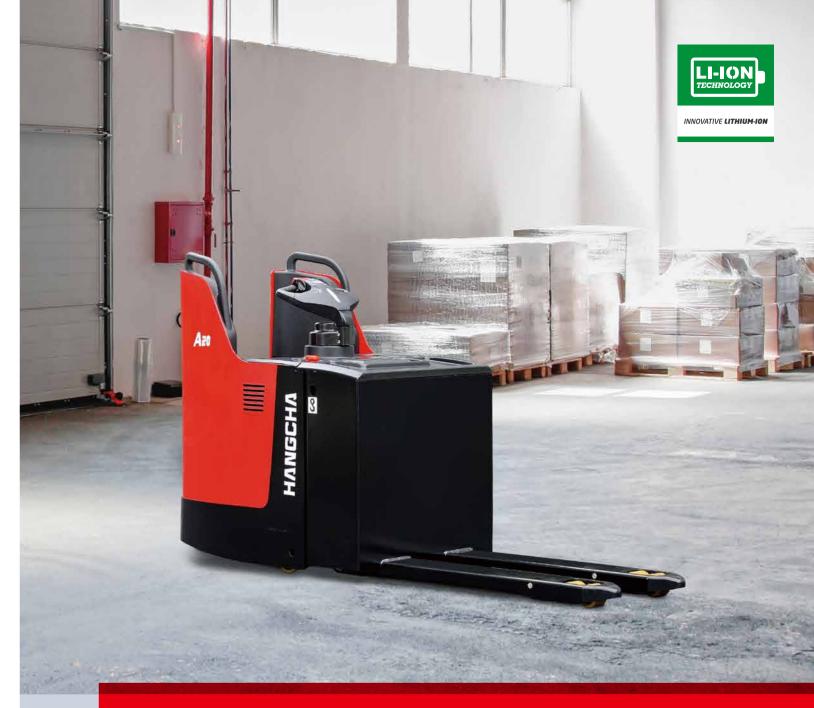
- / AC motor with no cabin brush, don't need maintenance, lower cost.
- / Rear cover can be completely open, operator can see all the components, so the maintenance is very convenient.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

A Series Pallet Truck Hi Range

| | 1.1 | Manufacturer | | | HANGCHA GR | OUP CO.,LTD. | |
|------------------------|--------|---|----------------------|--------------------------|------------------------|--------------------------|------------------------|
| , E | 1.2 | Manufacturer's type designation | | CBD20-AC2S CBD20-AZ3S | CBD20-AC2 CBD20-AZ3 | CBD30-AC2S CBD30-A73S | CBD30-AC2 CBD30-AZ3 |
| is 두 | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Standing | Pedestrian | Standing | Pedestrian |
| nguist | 1.5 | Rated capacity/rated load | Q (kg) | 2000 | 2000 | 3000 | 3000 |
| Distinguishing mark | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 |
| - | 1.9 | Wheelbase | y (mm) | 1369 ¹⁾ | 13571) | 1369 ¹⁾ | 13571) |
| Weight | 2.1 | Service Weight | kg | 726 | 544 | 750 | 564 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU |
| <u>.s</u> | 3.2 | Tyre size, front | | Ф230x75 | Ф230х75 | Φ230x75 | Ф230х75 |
| Tyres, chassis | 3.3 | Tyre size, rear | | Ф85х70 | Φ85x70 | Ф85х70 | Φ85x70 |
| l £ | 3.4 | Additional wheel (dimensions) | | Φ125x50 | Ф100x40 | Φ125x50 | Ф100x40 |
| res | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 |
| ≥ | 3.6 | Tread, front | b ₁₀ (mm) | 575 | 480 | 575 | 480 |
| | 3.7 | Tread, rear | b11 (mm) | 370 | 370 | 370 | 370 |
| | 4.4 | Lift | h₃ (mm) | 125 | 125 | 125 | 125 |
| | 4.15 | Fork height,lowered | h13 (mm) | 85 | 85 | 85 | 85 |
| | 4.19 | Overall length | lı (mm) | 1867 | 1781 | 1867 | 1781 |
| | | Overall length(unfold the pedal) | lı (mm) | 2299 | | 2299 | |
| i ii | 4.21 | Overall width | b1(mm) | 800 | 750 | 800 | 750 |
| sua | 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 64/170/1150 | 64/170/1150 | 64/170/1150 | 64/170/1150 |
| Dimensions | 4.25 | Distance between fork-arms | bs (mm) | 540/680 | 540/680 | 540/680 | 540/680 |
| " | 4.32 | Ground clerance,center of wheelbase | m2 (mm) | 25 | 25 | 25 | 25 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 1997 ²⁾ | 1955 ²⁾ | 1997 ²⁾ | 1955 ²⁾ |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2047 ²⁾ | 2005 ²⁾ | 2047 ²⁾ | 2005 ²⁾ |
| | 4.35 | Turning radius | Wa (mm) | 1627/2040 ¹⁾ | 1585 ¹⁾ | 1627/2040 ¹⁾ | 1585 ¹⁾ |
| Performance data | 5.1 | Travel speed,laden/unladen | km/h | 9.0/9.5 | 6.0/6.0 | 7.5/9.5 | 5.0/6.0 |
| ra ar | 5.2 | Lift speed,laden/unladen | m/s | 0.047/0.065 | 0.047/0.065 | 0.036/0.051 | 0.036/0.051 |
| ۾ ۾ | 5.3 | Lowering speed,laden/unladen | m/s | 0.075/0.070 | 0.073/0.070 | 0.060/0.055 | 0.060/0.055 |
| Per | 5.8 | Max.Gradeability,laden/unladen | % | 10/16 | 8/20 | 8/16 | 6/20 |
| | 6.1 | Drive motor rating S2 60 min | kW | 2.2 | 1.5 | 2.2 | 1.5 |
| Electric | 6.2 | Lift motor rating at S3 15% | kW | 2.2 | 2.2 | 2.2 | 2.2 |
| Elec eng | 6.4 | Battery voltage,rated capacity (Lead-acid) | V/Ah | 24/240 | 24/210 | 24/280 | 24/240 |
| | | Battery voltage,rated capacity,Optional | V/Ah | ~24/340 | ~24/240 | ~24/340 | ~24/240 |
| | 8.1 | Type of drive control | | AC | AC | AC | AC |
| | 9.1 | Manufacturer | | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI |

Note: 1). When fork lowered,+68mm, 2). When fork lowered,+40mm





A Series Rider Pallet Truck

with capacities of 2,000 to 3,000kg

The rider pallet truck is one of the A series pallet truck models.

Using the latest AC drive technology, advanced performance, comfort, safe, reliable, low maintenance cost, is the ideal tool for heavy duty and long distance transport operations.







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

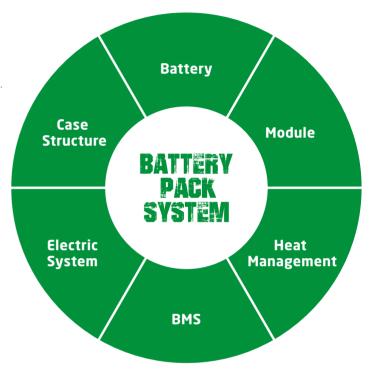




INNOVATIVE SOLUTIONS NEW POWER NOW

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.





Lead-acid batteries **8-10 hours 100%**

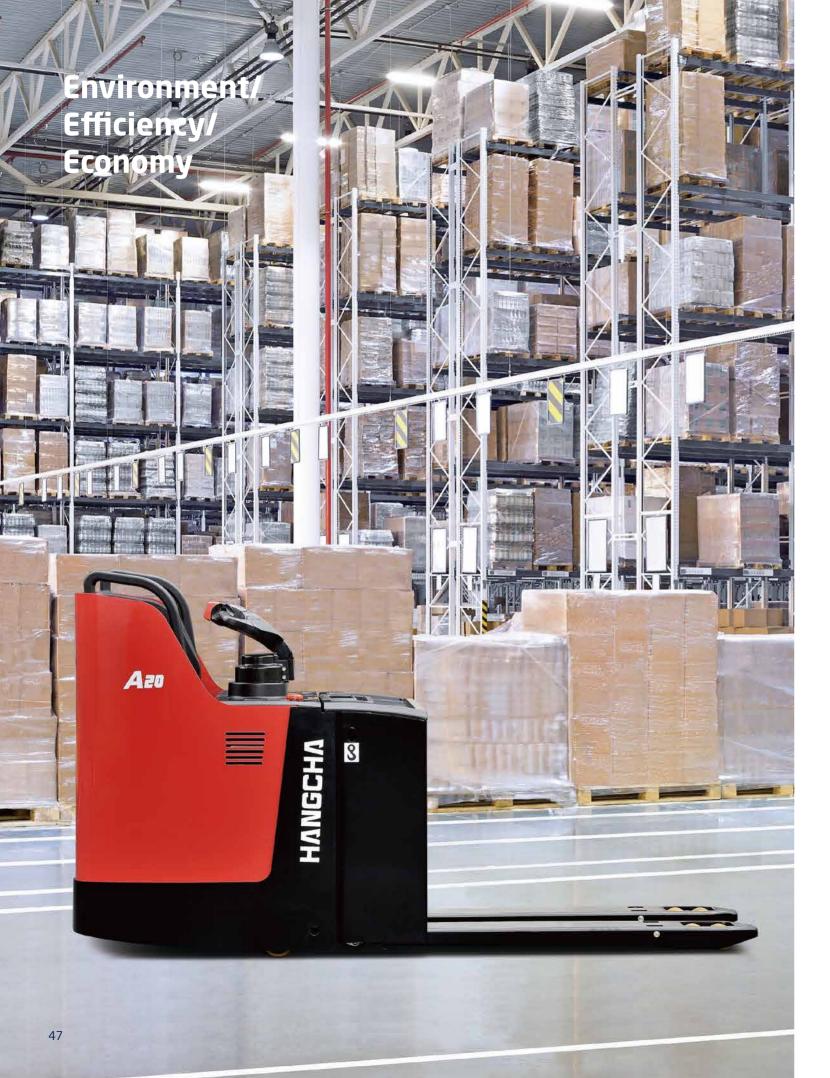
Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CBD20-AC2S-ISU* | CBD30-AC2S-ISU* |
|-------------------------|------|-----------------|-----------------|
| Li-lon battery | V/Ah | 24/125 | 24/125 |
| Li-lon battery,Optional | V/Ah | 24/228 | 24/228 |
| Titans charger | | SPC-24100 | SPC-24100 |

Note: * CE model



Appearance

- / A series electric rider pallet truck applied professional industrial design, stream lines, and compact, and fully ergonomic consideration, in line with the latest design trends.
- / Applied steel stamping and injection molding processes for front and back guard, which is robust, durable, and also environmental compliance.

Reliability

- / Adopted unique floating suspension system ensures good driving wheels' grip and excellent stability.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Using non-contact proximity switch, improves safety and reliability.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch formed forks to provide more strength and tip guide to provide higher efficient operation.
- / The power plug is fixed on the truck body to avoid damage from battery installment.

Safety

- / Automatic deceleration during turning.
- / Punch-formed frame provide more safety to the operator.
- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Anti-slope on gradient can keep the safety.
- / The braking button on the tiller head can effectively avoid the harm to the driver.
- / The standard equipped electronic lifting limitation protect the pump motor from damaging dramatically and more energy saving.
- / Displayed turtle speed function applied to move slowly and helps to stack goods in narrow space.

Comfort

- / Smooth driving and more comfortable operating experience thanks to a new design of the floating drive suspension system.
- / The compact body and semicircular design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.

Maintenance

- / AC motor without carbon brushes, maintenance-free, cost saving.
- / Integrated battery indicator, hour meter and self-diagnostic instrument.
- / Full opened hood, easy accessibility of all components, is easy for service.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.



The pedal applies shock absorption design, greatly improve the operator's comfort, reduce the fatigue.



Optimized designing structure to offer a good visibility and easy entrance of the nallet

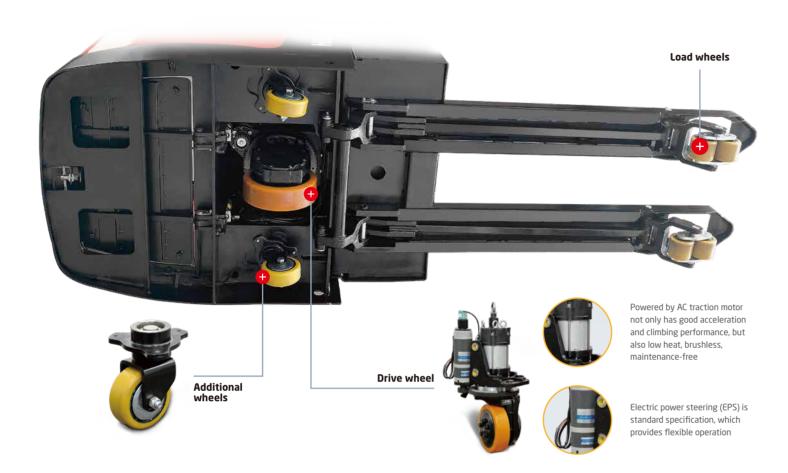


Side battery change is standard feature



Simple and beautiful tiller designed to make the operator feel comfortable, all the operation can be completed by one band

5-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capability and longer working life.



High Performance

- / Electric power steering (EPS) is standard specification, which provides flexible operation.
- / Powered by AC traction motor not only has good acceleration and climbing performance, but also low heat, brushless, maintenance-free.
- / Latest AC control system, precise and smooth.
- / CAN-BUS connection enables all truck data can be read out for inspection, and also improves the data transition more quick and reliable.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as switches, connectors, battery indicator and hour meter all adopt the famous brand.

Standard specification

- / AC drive motor
- / AC controller
- / Electric Power Steering (EPS)
- / Emergency switch
- / 1150mm fork length
- / Side battery change
- / Multi-function battery indicator
- / CAN-bus technology
- / 540mm outside fork width
- / Automatic speed reduction when cornering
- / Imported hydraulic unit
- / Brake switch

Options

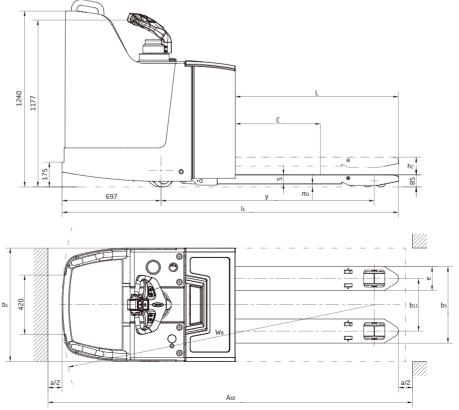
- / Different length of fork
- / Different capacity of battery

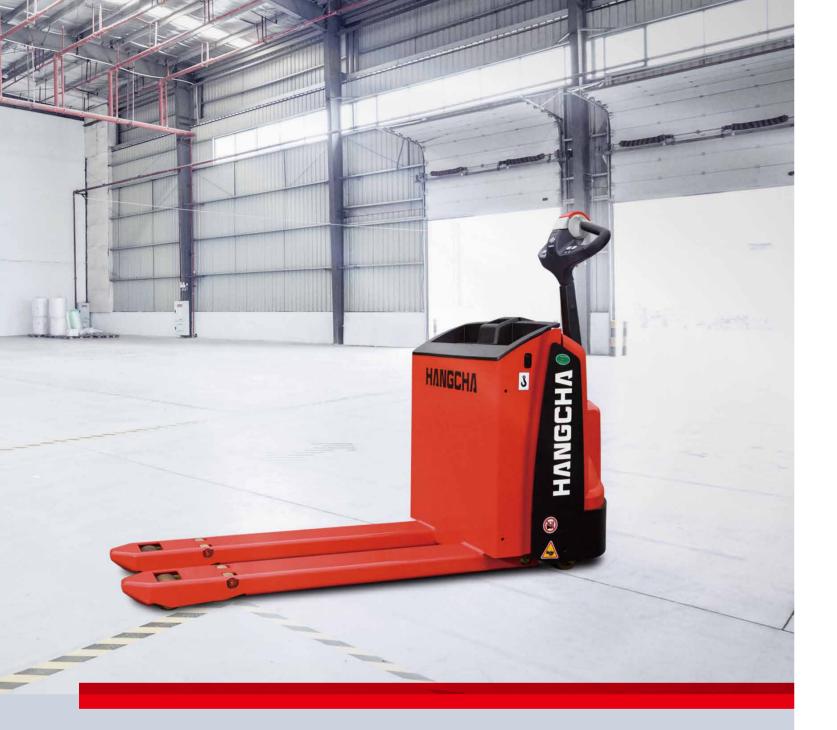
A Series Rider Pallet Truck

| | 1.1 | Manufacturer | | | HANGCHA GR | OUP CO.,LTD. | |
|------------------------|--------|---|------------|--------------------|-----------------|--------------------|--------------------|
| | 1.2 | Manufactured to a design still | | CBD20-ABC2S-SU* | CBD20-AC2S-SU* | CBD30-ABC2S-SU* | CBD30-AC2S-SU* |
| ا اق | 1.2 | Manufacturer's type designation | | CBD20-ABZ3S-SU | CBD20-AZ3S-SU | CBD30-ABZ3S-SU | CBD30-AZ3S-SU |
| Distinguishing mark | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric | Electric | Electric | Electric |
| , E E | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Standing | Standing | Standing | Standing |
| Dist | 1.5 | Rated capacity/rated load | Q (kg) | 2000 | 2000 | 3000 | 3000 |
| - | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 |
| | 1.9 | Wheelbase | y (mm) | 1505 | 1505 | 1505 | 1505 |
| Weight | 2.1 | Service Weight | kg | 825 | 880 | 880 | 920 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU |
| .≌ | 3.2 | Tyre size, front | | Ф85×80 | Φ85×80 | Φ85×80 | Φ85×80 |
| ass | 3.3 | Tyre size, rear | | Ф230×75 | Φ230×75 | Ф230×75 | Φ230×75 |
| Tyres, chassis | 3.4 | Additional wheels (dimensions) | | Φ125×50 | Φ125×50 | Φ125×50 | Φ125×50 |
| /res | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1×+2/4 | 1×+2/4 | 1×+2/4 | 1×+2/4 |
| - | 3.6 | Tread, front | b10 (mm) | 575 | 575 | 575 | 575 |
| | 3.7 | Tread, rear | b11 (mm) | 370 | 370 | 370 | 370 |
| | 4.3 | Free lift | h2 (mm) | 125 | 125 | 125 | 125 |
| | 4.19 | Overall length | lı (mm) | 2372 | 2372 | 2372 | 2372 |
| | 4.21 | Overall width | b1(mm) | 800 | 800 | 800 | 800 |
| Dimensions | 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 64/170/1150 | 64/170/1150 | 64/170/1150 | 64/170/1150 |
| ens | 4.25 | Distance between fork-arms | bs (mm) | 540/680 | 540/680 | 540/680 | 540/680 |
| Ĭ, | 4.31 | Ground clearance, laden, below mast | m1 (mm) | 21 | 21 | 21 | 21 |
| " | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2504 ¹⁾ | 2504¹) | 2504¹) | 25041) |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2554 ²⁾ | 2554²) | 2554 ²⁾ | 2554 ²⁾ |
| | 4.35 | Turning radius | Wa (mm) | 2134³) | 2134³) | 2134³) | 2134³) |
| به | 5.1 | Travel speed, laden/unladen | km/h | 6.5/7.0 | 9.0/9.5 | 5.5/7.0 | 7.5/9.5 |
| a and | 5.2 | Lift speed, laden/unladen | m/s | 0.047/0.064 | 0.047/0.064 | 0.036/0.053 | 0.036/0.053 |
| orma | 5.3 | Lowering speed, laden/unladen | m/s | 0.075/0.071 | 0.075/0.071 | 0.060/0.058 | 0.060/0.058 |
| Performance data | 5.8 | Max. gradeability, laden/unladen | % | 5/16 | 8/16 | 5/16 | 8/16 |
| | 5.10 | Service brake | | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic |
| | 6.1 | Drive motor rating S2 60 min | kW | 1.5 | 2.2 | 1.5 | 2.2 |
| ۵ | 6.2 | Lift motor rating at S3 15% | kW | DC 2.2 | DC 2.2 | DC 2.2 | DC 2.2 |
| Ë | | Steering motor | kW | DC 0.2 | DC 0.2 | DC 0.2 | DC 0.2 |
| l e | 6.4 | Battery voltage, nominal capacity K5 (Lead-acid) | V/Ah | 24/240 | 24/280 | 24/280 | 24/340 |
| Electric engine | | Battery voltage,rated capacity,Optional | V/Ah | 24/~340 | 24/~340 | 24/~340 | - |
| Elec | 8.1 | Type of drive unit | | AC traction | AC traction | AC traction | AC traction |
| | 9.1 | Manufacturer/Type | | CURTIS/ZAPI | CURTIS/ZAPI | CURTIS/ZAPI | CURTIS/ZAPI |
| | 10.7 | Sound pressure level at the driver's seat | dB (A) | <u>≤</u> 75 | ≤75 | <u>≤</u> 75 | <u>≤</u> 75 |

Note: 1). VDI 2198: +430mm 2). VDI 2198: +236mm 3). When fork lowered,+68mm

★ CE mode





T Series Premium Range Pallet Truck

with capacities of 2,000kg

Durability

- / Durable frame construction, with integrated welded forks brings the truck high rigidity, and long working life.
- / New butterfly drive controller is more easy for operator.
- / Integrated ZF transmission system, more reliable.

Productivity

- / Compacted chassis design, makes the truck operated in limited
- / Powerful AC traction motor with Curtis control system.
- / Applied MOSEFET high frequency control.
- / Germany WICKE wheel.
- / Unique steering pivot design, which makes the drive motor suspends during steering.
- / Shock absorber are standard specification for the caster wheel, prolong the truck's working life time.



Ergonomics

- / Tiller is ergonomically designed for Max. driver's comfort.
- / Dual lift/lower button controls allow operation by either hand.
- / Creep speed control button is available.
- / Conductor belt is standard specification.

Options

- 900mm, 923mm, 973mm, 1000mm, 1019mm, 1023mm, 1125mm, fork length
- / 520mm, 560mm, 670mm fork distances / Tandem load wheel
- / High frequency auto charger

Serviceability

- / Battery discharge indicator with lifting interrupt as standard specification when 20% battery capacity available and inform the operator of recharge requirement.
- / IP54 environment sealing, which protect the inside componets.
- / Open the back cover, every components are easy to reach.

Standard Specification

- / Poly. Drive wheel and load wheels
- / AC drive motor and control system
- / Emergency cut off switch
- / Combined hydraulic unit
- / LED panel
- / 220Ah battery



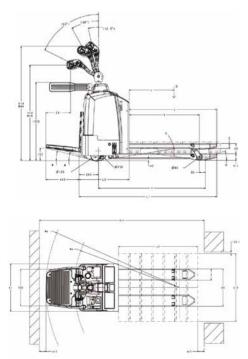
Stand-on

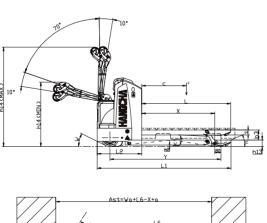
T Series Premium Range Pallet Truck

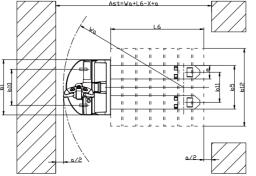
| | 1.1 | Manufacturer | | | HANGCHA GR | ROUP CO.,LTD. | |
|---------------------|--------|--|-------------------------|--|--|--|--|
| بد | 1.2 | Manufacturer's type designation | | CBD20-TC1 | CBD20-TC1 | CBD20-TSC1 | CBD20-TSC1 |
| Distinguishing mark | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | ELECTRIC | ELECTRIC | ELECTRIC | ELECTRIC |
| 8 | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian | Pedestrian | Standing | Standing |
| i l | 1.5 | Rated capacity/rated load | Q (kg/lb) | 2000/4409 | 2000/4409 | 2000/4409 | 2000/4409 |
| ngu | 1.6 | Load centre distance | c(mm/in) | 587/23.1 | 586/23.0 | 587/23.1 | 586/23.0 |
| 뷻 | 1.8 | Load distance, centre of drive axle to fork | x(mm/in) | 942/37.0 | 893/35.2 | 942/37.0 | 893/35.2 |
| <u> </u> | 1.9 | Wheelbase | y(mm/in) | 1352/53.2 | 1304/51.3 | 1352/53.2 | 1304/51.3 |
| | | Wheelbase type | | Single load wheels (Long wheelbase) | *Tandem load wheels (short wheelbase) | *Single load wheels (Long wheelbase) | Tandem load wheels (short wheelbase) |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | poly | poly | poly | poly |
| <u>.s</u> | 3.2 | Tyre size, front | mm/in | Ф250х100 / Ф9.8х3.9 | Ф250х100 / Ф9.8х3.9 | Ф250х100 / Ф9.8х3.9 | Ф250х100 / Ф9.8х3.9 |
| ass | 3.3 | Tyre size, rear | mm/in | Ф85х110/Ф3.3х4.3 | Ф85х95/Ф3.3х3.7 | Ф85х110/Ф3.3х4.3 | Ф85х95/Ф3.3х3.7 |
| £ | 3.4 | Additional wheel (dimensions) | mm/in | Ф100х40/Ф3.9х1.6 | Ф100х40/Ф3.9х1.6 | Ф125x50/Ф4.9x2.0 | Ф125x50/Ф4.9x2.0 |
| Tyres, chassis | 3.5 | Wheel number front/rear(x=Drive wheels) | | 1x+2/2 | 1x+2/4 | 1x+2/2 | 1x+2/4 |
| ₽ | 3.6 | Tread, Front | b10 (mm/in) | 461/18.1 | 461/18.1 | 461/18.1 | 461/18.1 |
| | 3.7 | Tread, Rear | b11 (mm/in) | 390/15.4 | 390/15.4 | 390/15.4 | 390/15.4 |
| | 4.4 | Lift | h₃ (mm/in) | 130/5.1 | 130/5.1 | 130/5.1 | 130/5.1 |
| | 4.9 | Height drawbar in driving position min./max. | h ₁₄ mm/(in) | 829/1288 (32.6/50.7) | 829/1288 (32.6/50.7) | 1219/1459 (48.0/57.4) | 1219/1459 (48.0/57.4) |
| | 4.15 | Height, lowered | h ₁₃ (mm/in) | 83/3.3 | 83/3.3 | 83/3.3 | 83/3.3 |
| | 4.19 | Overall length (pedal folden/unfolden) | lı mm/(in) | 1751/68.9 | 1749/68.9 | 1844/2289 (72.6/90.1) | 1842/2287 (72.5/90.0) |
| SU | 4.20 | Length to face of forks | I ₂ (mm/in) | 578/22.8 | 578/22.8 | 671/26.4 | 671/26.4 |
| isio | 4.21 | Overall width | b1(mm/in) | 712/28.0 | 712/28.0 | 712/28.0 | 712/28.0 |
| Dimensions | 4.22 | Fork dimensions ISO 2331 | s/e/l mm/(in) | 64/170/1173 (2.5/6.7/46.2) | 64/170/1171 (2.5/6.7/46.1) | 64/170/1173 (2.5/6.7/46.2) | 64/170/1171 (2.5/6.7/46.1) |
| ä | 4.25 | Distance between fork-arms | bs (mm/in) | 560/22.0 | 560/22.0 | 560/22.0 | 560/22.0 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm/in) | 21/0.8 | 21/0.8 | 21/0.8 | 21/0.8 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways (pedal folden/unfolden) | Ast mm/(in) | 1980/78.0 | 1979/77.9 | 2050/2488 (80.7/98.0) | 2050/2488 (80.7/98.0) |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways (pedal folden/unfolden) | Ast mm/(in) | 2007/79.0 | 2008/79.1 | 2077/2515 (81.8/99.0) | 2079/2517 (81.9/99.1) |
| | 4.35 | Turning radius (pedal folden/unfolden) | Wa mm/(in) | 1549/61.0 | 1501/59.1 | 1619/2057 (63.7/81.0) | 1572/2010 (61.9/79.1) |
| | 5.1 | Travel speed, laden/unladen | km/h mph | 6.0/6.0 3.7/3.7 | 6.0/6.0 3.7/3.7 | (6.0/6.0)/(8.0/8.0) (3.7/3.7)/(5.0/5.0) | (6.0/6.0)/(8.0/8.0) (3.7/3.7)/(5.0/5.0) |
| ţ | 5.2 | Lift speed, laden/unladen | m/s (ft/min) | 0.04/0.05 (7.9/9.8) | 0.04/0.05 (7.9/9.8) | 0.04/0.05 (7.9/9.8) | 0.04/0.05 (7.9/9.8) |
| Performance data | 5.3 | Lowering speed, laden/unladen | m/s (ft/min) | 0.09/0.04 (17.7/7.9) | 0.09/0.04 (17.7/7.9) | 0.09/0.04 (17.7/7.9) | 0.09/0.04 (17.7/7.9) |
| ance | 5.7 | Gradeability,laden/unladen | % | 10.0/15 | 10.0/15 | 10.0/15 | 10.0/15 |
| Ĕ | | Gradeability(pedestrian) | U/V/W(%) | 34/15/38 | 34/16/38 | 34/15/29 | 34/16/29 |
| irfo | | Gradeability(Standing) | U/V/W(%) | 1 | 1 | 34/15/24 | 34/16/24 |
| 4 | 5.8 | Max. Gradeability, laden/unladen | % | 14.5/20 | 14.5/20 | 14.5/20 | 14.5/20 |
| | 5.10 | Service brake | | Electric | Electric | Electric | Electric |
| | 6.1 | Drive motor rating S2 60 min | kW/hp | 1.25/1.7 | 1.25/1.7 | 1.7/2.3 | 1.7/2.3 |
| a | 6.2 | Lift motor rating at S3 15% | kW/hp | 1.2/1.6 | 1.2/1.6 | 1.2/1.6 | 1.2/1.6 |
| Electric engine | 6.3 | Battery acc. to DIN 43531/35/36 A,B,C, no | | В | В | В | В |
| le : | | Battery dimensions | I/b/h(mm/in) | 212x624x627 | / 8.3x24.6x24.7 | 283x624x627 / | 11.1x24.6x24.7 |
| ij | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 24/220 | 24/220 | 24/330 | 24/330 |
| Elec | 6.5 | Battery weight | kg/lb | 212/467 | 212/467 | 312/688 | 312/688 |
| _ | 6.6 | Energy consumption acc. to VDI cycle | kWh/h | 0.384 | 0.384 | 0.43 | 0.43 |
| | 10.7 | Sound pressure level at the driver's seat | dB(A) | <70 | <70 | <70 | <70 |

Note:Specifications are subject to change without notice.

^{+ 0-+:---}









A Series Pallet Truck With High Lift

with capacities of 2,000kg

The A series pallet with high lift is a pedestrian pallet truck which can also be used for order picking and light stacking operations.

In addition to the support arm lift the load can be raised to an overall height of 675 mm via a simplex mast contained in the battery compartment.

This height adjustment is really appreciated when order picking, restocking shelves in retail stores or assembly line activities in manufacturing industries.





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

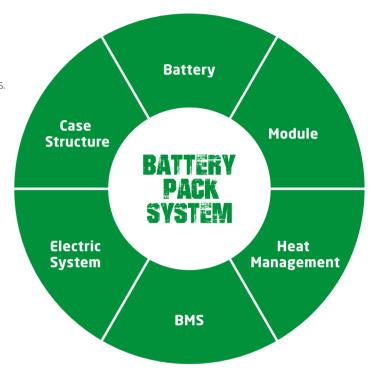




INNOVATIVE SOLUTIONS NEW POWER NOW

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 $\,^\circ\!\text{C}$ 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.





8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CBD20-AC2-LI* |
|----------------|------|---------------|
| Li-lon battery | V/Ah | 24/125 |

Note: * CE model

Stability

- / Integrated mast matched to chassis width.
- / High resistance fork carriage and load arms made of robust pressed steel.

Performance

- / The arms have high lifting function, and there is better trafficability.
- / With the design of handling by the double pallets (upper and lower pallets), it cannot only meet the light stacking work demand, but also can improve the material handling efficiency.
- / The powerful lift & AC traction motors supply the performance needed to achieve a high level of productivity.
- / With the latest CURTIS control system, control is precise and stable, efficiency is higher.
- / With CANBUS bus structure, the communication of the truck is faster and reliable.
- / The truck has the regenerative braking, and has anti-sliding protection at the ramp.

Comfort

- / All commands integrated to the tiller, the function buttons can be operated in comfortable way.
- / For safe use in confined areas, tiller operates in vertical position via crawl speed button.
- / Additional buttons located on the truck side allows the operator for example to pick goods at a comfortable height
- / Long tiller arm reduces steering effort to maximise manoeuvrability.

Maintenance

- / No carbon brushes maintenance-free traction motor.
- / Extensive instrument display allow the operator to monitor the situation at a glance.
- / Easy access to all parts with one-piece back panel, maintenance is very convenient.

Reliability

- / With five-supporting-point and low gravity center design, a rugged construction makes the pallet truck that can be relied on.
- / With the non-contact proximity switch, such switch has long service life and can operate reliably.
- / The lifting electric limit switch is provided, the hydraulic power unit will not have overflow. It is more energy-saving, and the power unit motor can also be protected.
- / The sturdy mast and the durable carriage are made of high-grade rolled steel contributing to a long truck life as well as fast, easy and safe load handling.
- / The stamped and formed forks have higher strength and shock resistance.

Safety

- / The release braking, reverse braking and emergency braking to ensure the truck running safety.
- / No roll-back when starting on a slope.
- / The truck has the lowering intelligent protection function. When the forks are less than 150mm away from the ground, the side lowering button is ineffective.
- / With the emergency reverse button at the head of the handle, when the truck runs back and there is emergency, it can effectively prevent the driver from injury.

Standard specification

- / AC traction motor
- / CURTIS controller
- / Additional buttons for lifting/lowering the forks on chassis side
- / Multi-functional instrument
- / Polyurethane dual load wheels
- / Fork length: 1150mm
- / Distance between fork-arms: 560mm
- / Initial lifting: 125mm
- / CAN bus multi-functional handle
- / Lifting electric limit
- / Horn
- / Key switch
- / Crawl speed function
- / Upright-tiller creep speed running
- / Auto reverse safety switch

Options

- / Load backrest
- / Automatic picking function
- / Password lock
- / Cold storage



The truck benefits from a long tiller with a low mounting point ensuring a large safety clearance between operator & chassis



Automatic picking functions (OPT.) enable all kind of loads to be lifted or lower quickly and without fatigue

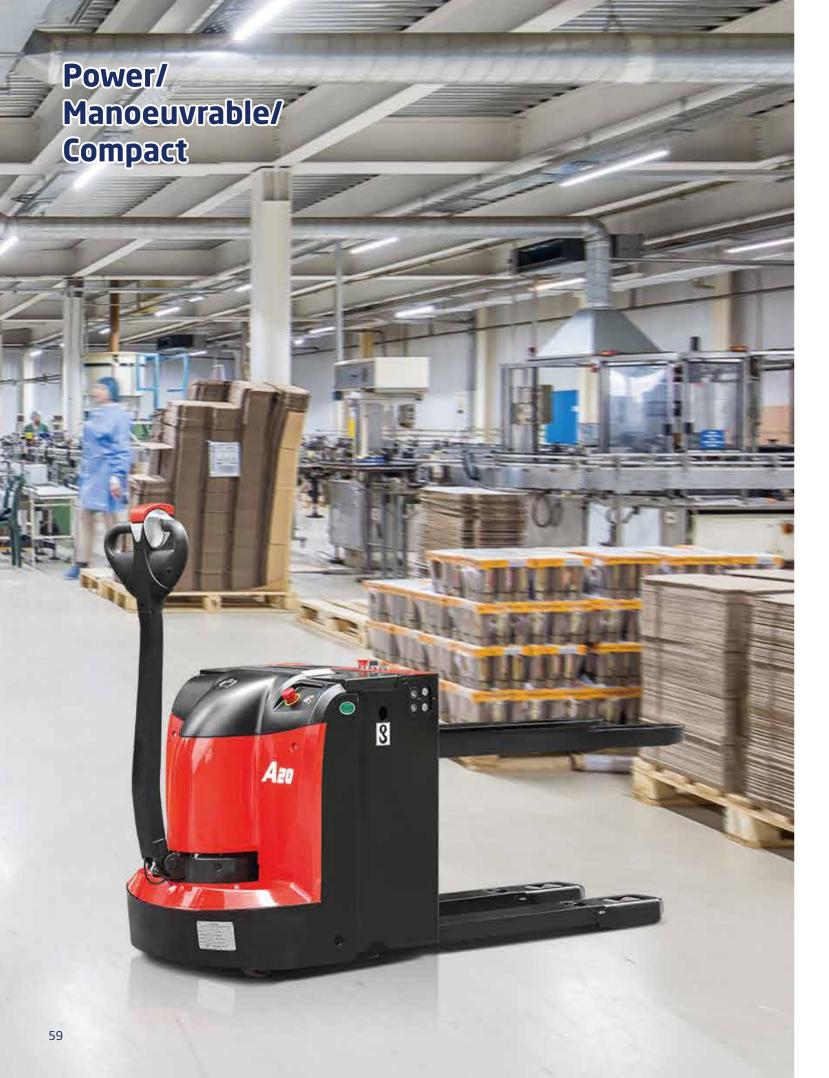


Easy battery charging - suitable for any convenient electric outlet



ne support arm lift capacity is 2000 k; nile the mast lift capacity is 800 kg





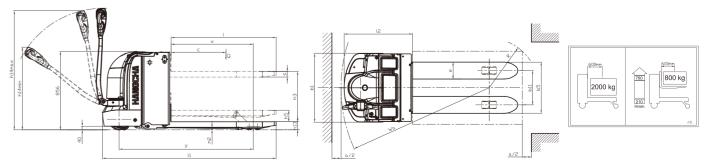
A Series Pallet Truck With High Lift Specification

| | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. | | | | |
|-------------------------|------|--|-------------------------|--|--|--|--|--|
| | 1.2 | Manufacturer's type designation | | CBD20-AC2-L* | | | | |
| | 1.3 | Drive:electric(battery or mains),diesel,petrol,fuel gas | | electric | | | | |
| <u>6</u> | 1.4 | Operator type:hand,pedestrian,standing,seated,order-picker | | pedestrian | | | | |
| ishir | 1.5 | Load capacity/rated load | Q (kg/lb) | 2000/4000 | | | | |
| ingu | | Load capacity mast lift | Q (kg/lb) | 800/1800 | | | | |
| Distinguishing marks | | Load capacity support arm lift | Q (kg/lb) | 2000/4000 | | | | |
| | 1.6 | Load centre distance | c(mm/in) | 600/24 | | | | |
| | 1.8 | Load distance, centre of drive axle to fork | x(mm/in) | 840 ¹⁾ /33 ¹⁾ | | | | |
| | 1.9 | Wheelbase | y(mm/in) | 1409 ¹⁾ /55.5 ¹⁾ | | | | |
| Weights | 2.1 | Service Weight without battery | kg/lb | 536/1200 | | | | |
| | 3.1 | Tyres:solid rubber,superelastic,pneumatic,polyurethane | | PU | | | | |
| l v | 3.2 | Tyre size, front | mm/in | Φ230×75 | | | | |
| assi | 3.3 | Tyre size, rear | mm/in | Ф80×70 | | | | |
| Wheels, Chassis | 3.4 | Additional wheels (dimensions) | mm/in | Ф100×40 | | | | |
| heel | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1×+2/4 | | | | |
| 3 | 3.6 | Tread, front | b10 (mm/in) | 480/18.9 | | | | |
| | 3.7 | Tread, rear | b ₁₁ (mm/in) | 375/14.8 | | | | |
| | 4.4 | Lift | h₃ (mm/in) | 550/21.7 | | | | |
| | 4.5 | Initial lift | hs (mm/in) | 125/4.9 | | | | |
| | 4.9 | Height of tiller in drive position min./max. | h14(mm/in) | 960/1320 (37.8/52) | | | | |
| | 4.15 | Height, lowered | h ₁₃ (mm/in) | 90/3.5 | | | | |
| | 4.19 | Overall length | lı (mm/in) | 1899/74.8 | | | | |
| Sc. | 4.20 | Length to face of forks | I2 (mm/in) | 749/29.5 | | | | |
| Dimensions | 4.21 | Overall width | b1(mm/in) | 750/29.5 | | | | |
| i e | 4.22 | Fork dimensions | s/e/l (mm/in) | 60/185/1150 (2.4/7.3/45.3) | | | | |
| | 4.25 | Distance between fork-arms | bs (mm/in) | 560/22 | | | | |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm/in) | 25/0.98 | | | | |
| | 4.33 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm/in) | 2442 ¹⁾ /96.1 ¹⁾ | | | | |
| | 4.34 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm/in) | 2360 ¹⁾ /92.9 ¹⁾ | | | | |
| | 4.35 | Turning radius | Wa (mm/in) | 1620 ¹⁾ /63.8 ¹⁾ | | | | |
| ata | 5.1 | Travel speed, laden/unladen | kph (mph) | 6.0/6.0 (3.7/3.7) | | | | |
| 9 9 | 5.2 | Lift speed, laden/unladen | m/s (ft/min) | 0.120/0.170 (23.62/33.46) | | | | |
| nan | 5.3 | Lowering speed, laden/unladen | m/s (ft/min) | 0.150/0.130 (29.53/25.6) | | | | |
| erformance data | 5.8 | Max.gradeability, laden/unladen | % | 8/20 | | | | |
| Pe | 5.10 | service brake | | Electromagnetic braking | | | | |
| | 6.1 | Drive motor rating S2 60 min. | kW/hp | 1.5/2.0 | | | | |
| 후호 | 6.2 | Lift motor rating at S3 5% | kW/hp | 2.2/2.95 | | | | |
| Electric- motor | 6.3 | Battery acc. to DIN 43531/35/36 A, B, C, no | | 3PZB210 | | | | |
| <u> </u> | 6.4 | Battery voltage/nominal capacity K5 | V/Ah | 24/210 | | | | |
| | 6.5 | Battery weight | kg/lb | 194/428 | | | | |
| ers | 8.1 | Type of drive control | | AC SpeedControl | | | | |
| Oth | 8.4 | sound pressure level at the driver's seat | dB(A) | 70 | | | | |
| Others | 8.1 | Type of drive control | | AC SpeedControl | | | | |

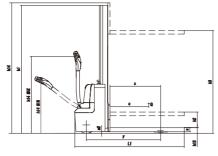
Note:1).Load section raised / lowered: + 64mm(2.5in)

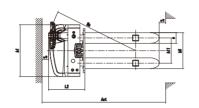
Specifications are subject to change without notice.

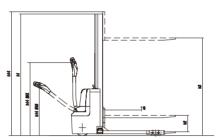
★ CE model

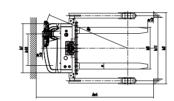












A Series Pallet Stacker Mini Range (Single column)

with capacities of 1,000 to 1,200kg

1.0/1.2t Mini Range Pallet Stacker Single Column Specification:

| Mast Type | Max Lifting Height | Height (h3+h13) | | Extended Height h4 | Free Lift | Load Capacity at 600mm/23.6in | | |
|---|-----------------------|-----------------|-----------|-----------------------|-----------|-------------------------------|-------------|--|
| | Пз | | | | | 1.0t/2205lb | 1.2t/2646lb | |
| | mm/in | mm/in | mm/in | mm/in | mm/in | Kg/lb | Kg/lb | |
| t le le | 1500/59.1 | 1585/62.4 | 1979/77.9 | 1986/78.2 | 1493/58.8 | 1000/2205 | 1200/2646 | |
| Single cylinder Single mast | 1750/68.9 | 1835/72.2 | 2229/87.7 | 2236/87.8 | 1743/68.6 | 1000/2205 | 1200/2646 | |
| \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \ | 2000/78.7 | 2085/82.1 | 2479/97.6 | 2486/97.9 | 1993/78.5 | 1000/2205 | 1200/2646 | |

High Performance

- / Strong power to satisfy most applications of material handling.
- / Latest permanent magnetic system including motor and controller applied to provide excellent, efficient performance.
- / Regenerative brake and slope anti-slide function are offered by this truck.

Reliability

- / CDD: The adopted four-pivot design to provide reasonable driving wheel balance and good visibility and reliability.
- / The applied lifting system with optimized design is more stable and reliable.
- / Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing.
- / Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.

Standard Specification

- / Maintenance free battery
- / 560mm outside fork width
- / PU drive wheel / Internal charger
- / Permanent magnetic motor / Emergency disconnect switch
- / Multi-function tiller / Tandem load wheels

/ Hydraulic power unit

- / CURTIS permanent magnetic
- / 1150mm fork length
 - / 1.5m standard mast

Comfort

- / Simple and beautiful tiller designed to operate all functions easily even by one hand.
- / Optimized design to offer a good visibility and easy entrance of the nallet.
- / Built-in charger and maintenance free gel battery adopted to provide convenient usage.
- / Compact size to offer smart operations and pass of narrow aisle.

Safety

- / With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- / The applied slope anti-slip function ensures the safety of the operation.
- / The emergency button on the tiller head can effectively avoid the harm to the driver in emergent situations when driving in reverse.
- / The standard equipped electronic lifting limitation and soft landing system protect working motor and loads from damaging.

Options

- / Load backrest
- / 1220mm fork length
- / 680mm outside fork width
- / Cold store protection(-30°C)
- / 2m mast

A Series Pallet Stacker Mini Range-Single Column

| | 1.1 | Manufacturer | | | HANGCHA GR | OUP CO.,LTD. | |
|------------------------|--------|---|-------------------------|----------------------------|----------------------------|------------------------------------|------------------------------------|
| Distinguishing mark | 1.2 | Manufacturer's type designation | | CDD10-AMC2* | CDD12-AMC2* | CTD10-AMC2* | CTD12-AMC2* |
| ris 4 | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian | Pedestrian | Pedestrian | Pedestrian |
| iii B | 1.5 | Rated capacity/rated load | Q (kg/lb) | 1000/2205 | 1200/2646 | 1000/2205 | 1200/2646 |
| Dist | 1.6 | Load centre distance | c (mm/in) | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 |
| | 1.9 | Wheelbase | y (mm/in) | 1197.5/47.1 | 1197.5/47.1 | 1197.5/47.1 | 1197.5/47.1 |
| Weight | 2.1 | Service Weight | kg/lb | 500/1102 | 500/1102 | 500/1102 | 500/1102 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU |
| | 3.2 | Tyre size, front | mm/in | Φ250/9.8x80/3.1 | Φ250/9.8x80/3.1 | Φ250/9.8x80/3.1 | Φ250/9.8x80/3.1 |
| assi | 3.3 | Tyre size, rear | mm/in | Φ85/3.3x70/2.8 | Φ85/3.3x70/2.8 | Φ85/3.3x70/2.8 | Φ85/3.3x70/2.8 |
| £ (| 3.4 | Additional wheel (dimensions) | mm/in | Φ125/4.9x50/2 | Φ125/4.9x50/2 | Φ125/4.9x50/2 | Φ125/4.9x50/2 |
| Tyres, chassis | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 |
| | 3.6 | Tread, front | b10 (mm/in) | 520/20.5 | 520/20.5 | 520/20.5 | 520/20.5 |
| | 3.7 | Tread, rear | b11 (mm/in) | 390/15.4 | 390/15.4 | 1060/1170/1370 (39.4/46.1/53.9) | 1060/1170/1370 (39.4/46.1/53.9) |
| | 4.4 | Lift | h₃ (mm/in) | 1500/59.1 | 1500/59.1 | 1500/59.1 | 1500/59.1 |
| | 4.15 | Fork height,lowered | h ₁₃ (mm/in) | 90/3.5 | 90/3.5 | 50/2.0 | 50/2.0 |
| | 4.19 | Overall length | lı (mm/in) | 1695/66.7 | 1695/66.7 | 1695/66.7 | 1695/66.7 |
| [| 4.21 | Overall width | b1(mm/in) | 800/31.5 | 800/31.5 | 1160/1270/1470 (45.7/50/57.9) | 1160/1270/1470 (45.7/50/57.9) |
| Si o | 4.22 | Fork dimensions ISO 2331 | s/e/I mm/(in) | 60/170/1150 (2.4/6.7/45.3) | 60/170/1150 (2.4/6.7/45.3) | 35/100/1070 (1.4/6.742.1) | 35/100/1070 (1.4/6.7/42.1) |
| Dimensions | 4.25 | Distance between fork-arms | b₅ (mm/in) | 560/22.0 | 560/22.0 | 210-790/8.3-31.1 | 210-790/8.3-31.1 |
| Ë | 4.32 | Ground clearance, centre of wheelbase | m ₂ (mm/in) | 35/1.4 | 35/1.4 | 35/1.4 | 35/1.4 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm/in) | 2002/78.8 | 2002/78.8 | 2002/78.8 | 2002/78.8 |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm/in) | 2052/80.8 | 2052/80.8 | 2052/80.8 | 2052/80.8 |
| | 4.35 | Turning radius | Wa (mm/in) | 1422/56.0 | 1422/56.0 | 1422/56.0 | 1422/56.0 |
| | 5.1 | Travel speed,laden/unladen | km/h mph | 4.2/4.5 2.6/2.8 | 4.2/4.5 2.6/2.8 | 4.2/4.5 2.6/2.8 | 4.2/4.5 2.6/2.8 |
| 9 | 5.2 | Lift speed,laden/unladen | m/s (ft/min) | 0.140/0.230 (27.6/45.3) | 0.120/0.230 (23.6/45.3) | 0.140/0.230 (27.6/45.3) | 0.120/0.230 (23.6/45.3) |
| orman data | 5.3 | Lowering speed,laden/unladen | m/s (ft/min) | 0.180/0.170 (35.4/33.5) | 0.180/0.170 (35.4/33.5) | 0.180/0.170 (35.4/33.5) | 0.180/0.170 (35.4/33.5) |
| Performance data | 5.8 | Max Gradeability,laden/unladen | % | 6/10 | 6/10 | 6/10 | 6/10 |
| و ن | 6.1 | Drive motor rating S2 60 min | kW/hp | 0.7/0.94 | 0.7/0.94 | 0.7/0.94 | 0.7/0.94 |
| Electric engine | 6.2 | Lift motor rating at S3 15% | kW/hp | 2.2/2.95 | 2.2/2.95 | 2.2/2.95 | 2.2/2.95 |
| ₩ = | 6.4 | Battery voltage,rated capacity | V/Ah | 2x12/70 | 2x12/70 | 2x12/70 | 2x12/70 |
| | 8.1 | Type of drive control | | DC | DC | DC | DC |
| | 9.1 | Manufacturer | | Curtis | Curtis | Curtis | Curtis |

Note: * CE model



A Series Pallet Stacker Mini Range (Double column)

with capacities of 1,000 to 1,200kg

The A series mini range pallet stacker (double column) has been engineered to be both powerful and flexible to meet the requirements of many demanding applications. Whether it's supermarket work, delivery service, stock replenishment or heavy manufacturing, it has the strength and durability to minimise your total cost of ownership.

Appearance

- / A series mini range pallet stacker (double column) applied professional industrial design, stream lines, and compact, and fully ergonomic consideration, in line with the latest design trends.
- / Applied steel stamping and injection molding processes, which is robust, durable, and also environmental compliance.

High Performance

- / Rated capacity 1000/1200kg, meet the needs of the majority of customers.
- / Powered by traction motor not only has good acceleration and perfect performance, but also low heat.
- / Latest CURTIS permanent magnet control system, precise and smooth.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as tiller, switches, connectors, battery indicator and hour meter all adopt the famous brand.

Comfort

- / Built-in charger and maintenance free gel battery adopted to provide convenient usage.
- / The compact body and semicircular design provide an ideal operation in limited space.

Reliability

- / High strength steel frame structure chassis provide larger residual load capability and longer working life.
- / 4-pivot design provide reasonable load distribution, and the good wheel grip ensuring excellent stability.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation
- / The hydraulic unit and the chassis adopt flexible connection, can absorb vibration from the uneven road.
- / Punch formed forks to provide more strength and tip guide to provide higher efficient operation.



Fully opened hood, easy accessibility of a



Optimized designing structure to offer a good visibility and easy entrance to the



Built-in charger and maintenance free gel battery, you don't need to worry about them



Simple and beautiful tiller designed to improve the operator's driving comfort

 ϵ



Safety

- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe opera-
- / Anti-slope on gradient can keep the safety.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / Soft landing system applied to protect loads from damaging effectively.

Maintenance

- / Integrated battery indicator, hour meter and self-diagnostic instrument.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.
- / Dismantle the additional wheel don't need to lift the truck.



- / Permanent magnet drive motor / 1150mm fork length
- / CURTIS permanent magnet controller / 560mm outside fork width
- / Horn / Emergency switch
- / PU wheel

/ Hydraulic unit / Tiller

/ Multi-function battery indicator / Maintenance free battery

/ Internal charger

Options

- / Mast lift height:2000-3600mm
- / Cold store protection(-30°C)
- / 1220/1400mm fork length
- / Load backrest
- / 680mm outside fork width

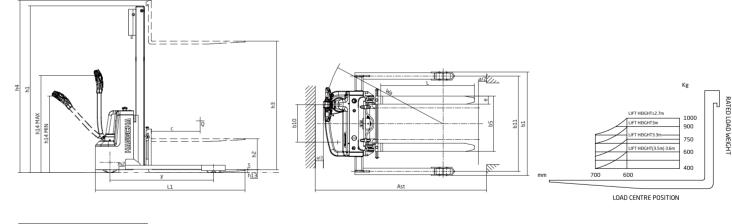
1.0/1.2t Mini Range Pallet Stacker Double Column Specification:

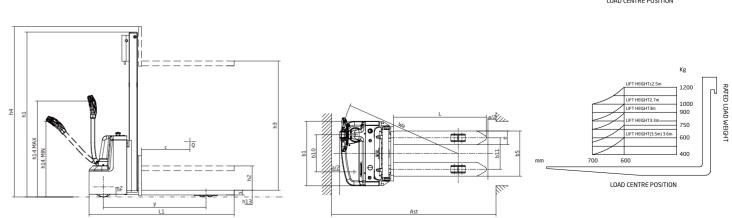
| Mast Type | Max Lifting Height | Max. fork height (h3+h13) | Lowered Height | Extended Height | Free lift | Load Capacity at 600mm | | |
|----------------------------------|-----------------------|------------------------------|----------------|-----------------|-----------|------------------------|------|--|
| | h₃ | (113 - 1113) | "" | 114 | | 1.0t | 1.2t | |
| | mm | mm | mm | mm | mm | Kg | Kg | |
| | 2000 | 2085/2050 | 1545 | 2545 | 0 | 1000 | 1200 | |
| ts . | 2500 | 2585/2550 | 1795 | 3045 | 0 | 1000 | 1200 | |
| a e e | 2700 | 2785/2750 | 1895 | 3245 | 0 | 1000 | 1000 | |
| Pari X | 3000 | 3085/3050 | 2045 | 3545 | 0 | 900 | 900 | |
| Single cylinder duplex ma: | 3300 | 3385/3350 | 2195 | 3845 | 0 | 750 | 750 | |
| | 3500 | 3585/3550 | 2383 | 4133 | 0 | 600 | 600 | |
| | 3600 | 3685/3650 | 2431 | 4231 | n | 600 | 600 | |

A Series Pallet Stacker Mini Range-Double Column

| | 1.1 | Manufacturer | | | HANGCHA GR | ROUP CO.,LTD. | |
|--|--------|---|------------|--------------------|--------------------|--------------------|--------------------|
| Distinguishing mark | 1.2 | Manufacturer's type designation | | CDD10-AMC1-SZ | CTD10-AMC1-SZ | CDD12-AMC1-SZ | CTD12-AMC1-SZ |
| 뺡 | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian | Pedestrian | Pedestrian | Pedestrian |
| in i | 1.5 | Rated capacity/rated load | Q (kg) | 1000 | 1000 | 1200 | 1200 |
| Jist | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 |
| - | 1.9 | Wheelbase | y (mm) | 1273 | 1273 | 1273 | 1273 |
| Ħ | 2.1 | Service Weight(Including battery) | kg | 744 | 744 | 744 | 744 |
| Weight | | Battery weight | kg | 66 | 66 | 66 | 66 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU |
| <u>.s</u> | 3.2 | Tyre size, front | | Ф250х80 | Ф250x80 | Ф250х80 | Ф250х80 |
| Tyres, chassis | 3.3 | Tyre size, rear | | Ф85x70 | Ф85х70 | Φ85x70 | Ф85х70 |
| € | 3.4 | Additional wheel (dimensions) | | Φ125x50 | Φ125x50 | Φ125x50 | Φ125x50 |
| res | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 |
| 6 | 3.6 | Tread, front | b10 (mm) | 520 | 520 | 520 | 520 |
| | 3.7 | Tread, rear | b11 (mm) | 390 | 1170 | 390 | 1170 |
| | 4.4 | Lift | h₃ (mm) | 3000 | 3000 | 3000 | 3000 |
| | 4.9 | Height drawbar in driving position min./max. | h14(mm) | 720/1220 | 720/1220 | 720/1220 | 720/1220 |
| | 4.15 | Fork height,lowered | h13 (mm) | 90 | 50 | 90 | 50 |
| <u>د</u> | 4.19 | Overall length(folded pedal) | lı (mm) | 1800 | 1836 | 1800 | 1836 |
| io. | 4.21 | Overall width | b1(mm) | 800 | 1270 | 800 | 1270 |
| Dimensions | 4.22 | Fork dimensions | s/e/l (mm) | 60/170/1150 | 35/100/1070 | 60/170/1150 | 35/100/1070 |
| į. | 4.25 | Distance between fork-arms | bs (mm) | 560 | 210-790 | 560 | 210-790 |
| - | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 35 | 35 | 35 | 35 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 20161) | 1901 ³⁾ | 20161) | 1901 ³⁾ |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2066 ²⁾ | 21014) | 2066 ²⁾ | 21014) |
| | 4.35 | Turning radius | Wa (mm) | 1466 | 1466 | 1466 | 1466 |
|) ce | 5.1 | Travel speed,laden/unladen | km/h | 4.0/4.5 | 4.0/4.5 | 4.0/4.5 | 4.0/4.5 |
| Performance data | 5.2 | Lift speed,laden/unladen | m/s | 0.120/0.190 | 0.120/0.190 | 0.120/0.190 | 0.120/0.190 |
| ۾ ٿِ | 5.3 | Lowering speed,laden/unladen | m/s | 0.140/0.150 | 0.140/0.150 | 0.140/0.150 | 0.140/0.150 |
| Per | 5.8 | Max Gradeability,laden/unladen | % | 6/10 | 6/10 | 5/10 | 5/10 |
| is e | 6.1 | Drive motor rating S2 60 min | kW | 0.7 | 0.7 | 0.7 | 0.7 |
| Electric | 6.2 | Lift motor rating at S3 15% | kW | 2.2 | 2.2 | 2.2 | 2.2 |
| ∰ a | 6.4 | Battery voltage,rated capacity | V/Ah | 2x12/106 | 2x12/106 | 2x12/106 | 2x12/106 |
| | 8.1 | Type of drive control | | DC | DC | DC | DC |
| | 9.1 | Manufacturer | | Curtis | Curtis | Curtis | Curtis |

Note: 1). VDI 2198: +282mm 2). VDI 2198: +166mm 3). VDI 2198: +409mm 4). VDI 2198: +156mm







A Series Pallet Stacker Truck Basic Range

with capacities of 1,200 to 1,600kg

High Performance

- / AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free.
- / The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- / The applied CANBUS structure to offer more reliable and faster command access.
- / Regenerative brake and slope anti-slide function are offered by this truck.

Comfort

- / The shock absorption design of foldable platform improves comfort greatly to the operator.
- / The new designed floating suspension system made steering operation more flexible and convenient.
- / Simple and beautiful tiller designed to operate all functions easily even by one hand.
- / Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.

Reliability

- / Five-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capability and longer working life.
- / Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- / The adopted unique floating suspension system ensures good driving wheels' grip and excellent stability.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.
- / H-type mast profile section to provide more stable and rigid performance.
- / The power plug is fixed on the truck body to avoid damage from battery installment.

Safety

- / With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- / The applied slope anti-slip function ensures the safety of the
- / The emergency button on the tiller head can effectively avoid
- / Soft landing system applied to protect loads from damaging effectively.

Standard Specification

- / Pedal (only for Stand-on)
- / AC drive motor
- / PU drive wheel
- / Tandem wheels
- / 2.7m duplex mast
- / Soft landing system
- / CURTIS AC controller
- / 1150mm fork length
- / Hydraulic power unit
- / 570mm outside fork width
- / Emergency disconnect switch
- / Multi-function battery indicator
- / CAN-bus system multi-function tiller
- / Sensitive lowering

Options

- / 240Ah battery
- / Load backrest
- / Side access battery
- / Mast protection
- / 680mm outside fork width
- / Different mast lifting heights (2m-4.5m)
- / Cold store protection (-30 °C)
- / Different length of forks (1220mm,1400mm,1600mm)
- / Handrail
- / Overhead guard
- / Straddle leg



Straddle leg



Stand-on

the harm to the driver.

A Series Pallet Stacker Truck Basic Range

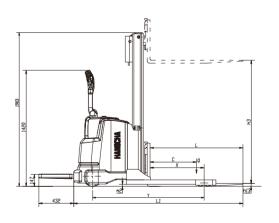
| | 1.1 | Manufacturer | | | | | | | | HANGCHA GROUP CO.,LTD. | | | | | |
|-----------------|--------|---|---------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------------|---|--------------------------------|---|--------------------------------|
| 8 | | Manufacturer's type designation | | CDD12-AEC2S | CDD12-AEC2 | CDD14-AEC2S | CDD14-AEC2 | CDD16-AEC2S | CDD16-AEC2 | CTD12-AEC2S | CTD12-AEC2 | CTD14-AEC2S | CTD14-AEC2 | CTD16-AEC2S | CTD16-AEC2 |
| guishii nark | | | | CDD12-AEZ3S | CDD12-AEZ3 | CDD14-AEZ3S | CDD14-AEZ3 | CDD16-AEZ3S | CDD16-AEZ3 | CTD12-AEZ3S | CTD12-AEZ3 | CTD14-AEZ3S | CTD14-AEZ3 | CTD16-AEZ3S | CTD16-AEZ3 |
| ngu ma | | Operator type: hand, pedestrian, standing, seated, order-picker | | Standing | Pedestrian | Standing | Pedestrian | Standing | Pedestrian | Standing | Pedestrian | Standing | Pedestrian | Standing | Pedestrian |
| Stj. | 1.5 | Rated capacity/rated load | Q (kg/lb) | 1200/2646 | 1200/2646 | 1400/3086 | 1400/3086 | 1600/3527 | 1600/3527 | 1200/2646 | 1200/2646 | 1400/3086 | 1400/3086 | 1600/3527 | 1600/3527 |
| | 1.6 | Load centre distance | c (mm/in) | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 | 600/23.6 |
| | 1.9 | Wheelbase | y (mm/in) | 1378 ¹⁾ /54.3 | 1378 ¹⁾ /54.3 | 1378 ¹⁾ /54.3 | 1378 ¹⁾ /54.3 | 1378 ¹⁾ /54.3 | 1378 ¹⁾ /54.3 |
| Weight | 2.1 | Service Weight | kg/lb | 1030/2271 | 990/2183 | 1040/2293 | 1000/2205 | 1060/2337 | 1020/2249 | 1120/2469 | 1080/2381 | 1020/2249 | 1080/2381 | 1140/2513 | 1100/2425 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU | PU | PU | PU | PU | PU | PU | PU | PU |
| <u>:</u> | 3.2 | Tyre size, front | mm/in | Ф250×80/9.8×3.1 | Φ250×80/9.8×3.1 | Φ250×80/9.8×3.1 | Φ250×80/9.8×3.1 | Φ250×80/9.8×3.1 | Φ250×80/9.8×3.1 | Φ250×80/9.8×3.1 | Ф250×80/9.8×3.1 | Φ250×80/9.8×3.1 | Ф250×80/9.8×3.1 | Ф250×80/9.8×3.1 | Φ250×80/9.8×3.1 |
| lass | 3.3 | Tyre size, rear | mm/in | Φ85×70/3.3x2.8 | Φ85×70/3.3x2.8 | Ф85×70/3.3x2.8 | Ф85×70/3.3x2.8 | Φ85×70/3.3x2.8 | Φ85×70/3.3x2.8 | Φ85×70/3.3x2.8 | Φ85×70/3.3x2.8 | Φ85×70/3.3x2.8 | Φ85×70/3.3x2.8 | Φ85×70/3.3x2.8 | Φ85×70/3.3x2.8 |
| - E | 3.4 | Additional wheel (dimensions) | mm/in | Φ125×50/4.9×2 | Φ125×50/4.9×2 | Φ125×50/4.9×2 | Φ125×50/4.9×2 | Φ125×50/4.9×2 | φ125×50/4.9×2 | Φ125×50/4.9×2 | Φ125×50/4.9×2 | Φ125×50/4.9×2 | Φ125×50/4.9×2 | Φ125×50/4.9×2 | Φ125×50/4.9×2 |
| /res | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 | 1x+2/4 |
| | 3.6 | Tread, front | b10 (mm/in) | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 | 620/24.4 |
| | 3.7 | Tread, rear | b11 (mm/in) | 385/15.2 | 385/15.2 | 385/15.2 | 385/15.2 | 385/15.2 | 385/15.2 | 1000/1170/1370(39.4/46.1/53.9) | 1000/1170/1370(39.4/46.1/53.9) | 1000/1170/1370(39.4/46.1/53.9) | 1000/1170/1370(39.4/46.1/53.9) | 1000/1170/1370(39.4/46.1/53.9) | 1000/1170/1370(39.4/46.1/53.9) |
| | 4.4 | Lift | h₃ (mm/in) | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 | 2700/106.3 |
| | 4.15 | Fork height,lowered | h13 (mm/in) | 90/3.5 | 90/3.5 | 90/3.5 | 90/3.5 | 90/3.5 | 90/3.5 | 50/2 | 50/2 | 50/2 | 50/2 | 50/2 | 50 |
| | 4.19 | Overall length | lı (mm/in) | 2063 ²⁾ (2495 ²⁾)/81.2(98.2) | 2013 ²⁾ /79.3 | 2063 ²⁾ (2495 ²⁾)/81.2(98.2) | 2013 ²⁾ /79.3 | 2063 ²⁾ (2495 ²⁾)/81.2(98.2) | 2013 ²⁾ /79.3 | 2013 ²⁾ (2445 ²⁾)/79.3(96.3) | 1963 ²⁾ /77.3 | 2013 ²⁾ (2445 ²⁾)/79.3(96.3) | 1963 ²⁾ /77.3 | 2013 ²⁾ (2445 ²⁾)/79.3(96.3) | 1963 ²⁾ /77.3 |
| | 4.21 | Overall width | b1(mm/in) | 860/33.9 | 860/33.9 | 860/33.9 | 860/33.9 | 860/33.9 | 860/33.9 | 1100/1270/1470(43.3/50/57.9) | 1100/1270/1470(43.3/50/57.9) | 1100/1270/1470(43.3/50/57.9) | 1100/1270/1470(43.3/50/57.9) | 1100/1270/1470(43.3/50/57.9) | 1100/1270/1470(43.3/50/57.9) |
| io io | 4.22 | Fork dimensions ISO 2331 | s/e/I (mm/in) | 60x185x1150/2.4x7.3x45.3 | 60x185x1150/2.4x7.3x45.3 | 60x185x1150/2.4x7.3x45.3 | 60x185x1150/2.4x7.3x45.3 | 60x185x1150/2.4x7.3x45.3 | 60x185x1150/2.4x7.3x45.3 | 35x100x1070/1.4x3.9x42.1 | 35x100x1070/1.4x3.9x42.1 | 35x100x1070/1.4x3.9x42.1 | 35x100x1070/1.4x3.9x42.1 | 35x100x1070/1.4x3.9x42.1 | 35x100x1070/1.4x3.9x42.1 |
| ens | 4.25 | Distance between fork-arms | bs (mm/in) | 570/680(22.4/26.8) | 570/680(22.4/26.8) | 570/680(22.4/26.8) | 570/680(22.4/26.8) | 570/680(22.4/26.8) | 570/680(22.4/26.8) | 210-790/8.3-31.1 | 210-790/8.3-31.1 | 210-790/8.3-31.1 | 210-790/8.3-31.1 | 210-790/8.3-31.1 | 210-790/8.3-31.1 |
| Ë | 4.32 | Ground clearance, centre of wheelbase | m2 (mm/in) | 30/1.2 | 30/1.2 | 30/1.2 | 30/1.2 | 30/1.2 | 30/1.2 | 40/1.6 | 40/1.6 | 40/1.6 | 40/1.6 | 40/1.6 | 40/1.6 |
| - | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm/in) | 2280 ²⁾ /89.8 | 2220 ²⁾ /87.4 | 2280 ²⁾ /89.8 | 2220 ²⁾ /87.4 | 2280 ²⁾ /89.8 | 2220 ²⁾ /87.4 | 2310 ²⁾ /90.9 | 2250 ²⁾ /88.6 | 2310 ²⁾ /90.9 | 2250 ²⁾ /88.6 | 2310 ²⁾ /90.9 | 2250 ²⁾ /88.6 |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm/in) | 2330 ²⁾ /91.7 | 2270 ²⁾ /89.4 | 2330 ²⁾ /91.7 | 2270 ²⁾ /89.4 | 2330 ²⁾ /91.7 | 2270 ²⁾ /89.4 | 2360 ²⁾ /92.9 | 2300 ²⁾ /90.6 | 2360 ²⁾ /92.9 | 2300 ²⁾ /90.6 | 2360 ²⁾ /92.9 | 2300 ²⁾ /90.6 |
| | 4.35 | Turning radius | Wa (mm) | 1630 ¹⁾ /64.2 | 1570 ¹⁾ /61.8 | 1630 ¹⁾ /64.2 | 1570 ¹⁾ /61.8 | 1630 ¹⁾ /64.2 | 1570 ¹⁾ /61.8 |
| | 5.1 | Travel speed,laden/unladen | km/h(mph) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) | 5/5(3.1/3.1) |
| nce | 5.2 | Lift speed,laden/unladen | m/s(ft/min) | 0.100/0.160(19.7/31.5) | 0.100/0.160(19.7/31.5) | 0.100/0.160(19.7/31.5) | 0.100/0.160(19.7/31.5) | 0.120/0.180(23.6/35.4) | 0.120/0.180(23.6/35.4) | 0.100/0.160(19.7/31.5) | 0.100/0.160(19.7/31.5) | 0.100/0.160(19.7/31.5) | 0.100/0.160(19.7/31.5) | 0.120/0.180(23.6/35.4) | 0.120/0.180(23.6/35.4) |
| m arta | 5.3 | Lowering speed,laden/unladen | m/s(ft/min) | 0.130/0.140(25.6/27.5) | 0.130/0.140(25.6/27.5) | 0.130/0.140(25.6/27.5) | 0.130/0.140(25.6/27.5) | 0.140/0.150(27.5/29.5) | 0.140/0.150(27.5/29.5) | 0.130/0.140(25.6/27.5) | 0.130/0.140(25.6/27.5) | 0.130/0.140(25.6/27.5) | 0.130/0.140(25.6/27.5) | 0.140/0.150(27.5/29.5) | 0.140/0.150(27.5/29.5) |
| φģ | 5.8 | Max Gradeability,laden/unladen | % | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 | 6/10 |
| Pe | 5.10 | Service brake | | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic | Eletromagnetic |
| i, e | 6.1 | Drive motor rating S2 60 min | kW/hp | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 | 1.1/1.5 |
| ectr | 6.2 | Lift motor rating at S3 15% | kW/hp | 2.2/3.0 | 2.2/3.0 | 2.2(31)/3(4) | 2.2(31)/3(4) | 3/4 | 3/4 | 2.2/3.0 | 2.2/3.0 | 2.2(31)/3(4) | 2.2(3 ¹⁾)/3(4) | 3/4 | 3/4 |
| <u> </u> | 6.4 | Battery voltage,rated capacity | V/Ah | 24/210 | 24/210 | 24/210 | 24/210 | 24/240 | 24/240 | 24/210 | 24/210 | 24/210 | 24/210 | 24/240 | 24/240 |
| | 8.1 | Type of drive control | | AC | AC | AC | AC | AC | AC | AC | AC | AC | AC | AC | AC |
| | 9.1 | Manufacturer | | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI |

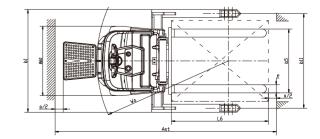
Note: 1)Mast with double lifting cylinders(including Triplex mast)+47mm(+1.9in) 2)Duplex mast with double lifting cylinders+47mm and Triplex mast+68mm(+2.7in)

1.2-1.6t Basic Range Pallet Stacker Truck Specification:

| Mast Type | Max Lifting Height | Max. fork height (h3+h13) | Lowered Height | Extended Height | Free lift | Load Capacity at 600mm/23.6in | | | |
|---|-----------------------|------------------------------|----------------|-----------------|-----------|-------------------------------|-----------|-----------|--|
| | h₃ | (113 1123) | | | | 1.2t | 1.4t | 1.6t | |
| | mm/in | mm/in | mm/in | mm/in | mm/in | kg/lb | kg/lb | kg/lb | |
| | 2000/78.7 | 2090/82.3 | 1553/61.1 | 2553/100.5 | 90/3.5 | 1200/2646 | 1400/3086 | 1600/3527 | |
| Single cylinder duplex mast | 2500/98.4 | 2590/102.0 | 1803/71.0 | 3053/120.2 | 90/3.5 | 1200/2646 | 1400/3086 | 1600/3527 | |
| a e e | 2700/106.3 | 2790/109.8 | 1902/74.5 | 3253/128.1 | 90/3.5 | 1200/2646 | 1400/3086 | 1450/3197 | |
| Single :ylinde plex m | 3000/118.1 | 3090/121.7 | 2053/80.8 | 3553/140.0 | 90/3.5 | 1200/2646 | 1250/2756 | 1300/2866 | |
| ᅜᇎ | 3300/129.9 | 3390/133.5 | 2203/86.7 | 3853151.2 | 90/3.5 | 1100/2425 | 1100/2425 | 1150/2535 | |
| Ğ | 3500/137.8 | 3590/141.3 | 2388/94.0 | 4138/162.9 | 90/3.5 | 950/2094 | 950/2094 | 1000/2205 | |
| | 3600/141.7 | 3690/145.3 | 2438/96.0 | 4238/166.9 | 90/3.5 | 950/2094 | 950/2094 | 1000/2205 | |
| | 2000/78.7 | 2090/82.3 | 1542/60.7 | 2542/100.1 | 90/3.5 | 1200/2646 | 1400/3086 | 1600/3527 | |
| | 2500/98.4 | 2590/102.0 | 1792/70.6 | 3042/119.8 | 90/3.5 | 1200/2646 | 1400/3086 | 1600/3527 | |
| 3 | 2700/106.3 | 2790/109.8 | 1892/74.5 | 3242/127.6 | 90/3.5 | 1200/2646 | 1400/3086 | 1450/3197 | |
| <u>ë</u> . | 3000/118.1 | 3090/121.7 | 2042/80.4 | 3542/139.4 | 90/3.5 | 1200/2646 | 1250/2756 | 1300/2866 | |
| e is e | 3300/129.9 | 3390/133.5 | 2192/86.3 | 3842/151.3 | 90/3.5 | 1100/2425 | 1100/2425 | 1150/2535 | |
| Double cylinders Duplex wide view | 3500/137.8 | 3590/141.3 | 2292/90.2 | 4042/159.1 | 90/3.5 | 950/2094 | 950/2094 | 1000/2205 | |
| 음툿xí | 3600/141.7 | 3690/145.3 | 2342/92.2 | 4142/163.1 | 90/3.5 | 950/2094 | 950/2094 | 1000/2205 | |
| ა <u>გ</u> | 3800/149.6 | 3890/153.1 | 2442/96.1 | 4342/170.9 | 90/3.5 | 820/1808 | 820/1808 | 900/1984 | |
| 3 | 4000/157.5 | 4090/161.0 | 2642/104.0 | 4642/182.8 | 90/3.5 | 750/1653 | 750/1653 | 800/1764 | |
| | 4300/169.3 | 4390/172.8 | 2792/109.9 | 4942/194.6 | 90/3.5 | 600/1323 | 600/1323 | 650/1433 | |
| | 4500/177.2 | 4590/180.7 | 2892/113.9 | 5142/202.4 | 90/3.5 | 500/1102 | 500/1102 | 600/1323 | |
| | 2000/78.7 | 2090/82.3 | 1595/62.8 | 2595/102.2 | 1090/42.9 | 1200/2646 | 1400/3086 | 1600/3527 | |
| > | 2500/98.4 | 2590/102.0 | 1845/72.6 | 3095/121.9 | 1340/52.8 | 1200/2646 | 1400/3086 | 1600/3527 | |
| e e e | 2700/106.3 | 2790/109.8 | 1945/76.6 | 3295/129.7 | 1440/56.7 | 1200/2646 | 1400/3086 | 1450/3197 | |
| Duplex full-free wide view | 3000/118.1 | 3090/121.7 | 2095/82.5 | 3595/141.5 | 1590/62.6 | 1200/2646 | 1400/3086 | 1300/2866 | |
| 걸들호 | 3300/129.9 | 3390/133.5 | 2245/88.4 | 3895/153.3 | 1740/68.5 | 1100/2425 | 1100/2425 | 1150/2535 | |
| - 3 | 3500/137.8 | 3590/141.3 | 2345/92.3 | 4095/161.2 | 1840/72.4 | 950/2094 | 950/2094 | 1000/2205 | |
| | 3600/141.7 | 3690/145.3 | 2395/94.3 | 4195/165.2 | 1890/74.4 | 950/2094 | 950/2094 | 1000/2205 | |
| | 3500/137.8 | 3590/141.3 | 1844/72.6 | 4214/165.9 | 1220/48 | 950/2094 | 950/2094 | 1000/2205 | |
| × e è | 3700/145.7 | 3790/149.2 | 1909/75.2 | 4409/173.6 | 1290/50.8 | 850/1874 | 850/1874 | 950/2094 | |
| Yie Sle | 4000/157.5 | 4090/161.0 | 2009/79.1 | 4709/185.4 | 1390/54.7 | 750/1653 | 750/1653 | 800/1764 | |
| Triplex full-free wide view | 4300/169.3 | 4390/172.8 | 2109/83 | 5009/197.2 | 1490/58.7 | 600/1323 | 600/1323 | 650/1433 | |
| . ≒.≱ | 4500/177.2 | 4590/180.7 | 2159/85 | 5159/203.1 | 1590/62.6 | 500/1102 | 500/1102 | 550/1212 | |

Ast L6





Note: The mast which h3>4500mm(177.2in)(include 4500mm)only suitable for the pallet stacker (outside fork width b5≥680mm(26.8in)).



A Series Double-column Pallet Stackers Mini Range II

with capacities of 1,200 to 1,500kg

The A series 1.2t/1.5t mini stackers is a new generation of products designed by Hangcha for warehousing and logistics applications. Using the latest permanent magnet drive technology and with advanced performance, comfortable, safe and reliable operations and low costs, the products are ideal tools for loading, unloading and handling palletized goods in warehouses, supermarkets, workshops and homes.

Appearance

- / The new generation of A series double-column pallet stackers mini range II adopts a professional industrial exterior design. The vehicle has a smooth vivid profile, a compact shape and a fully ergonomic design, and follows the latest exterior design trend.
- / With a large number of steel plate stamping and injection molding processes to enable a robust and durable high-grade product that meets environmental protection requirements.

Safety

- / With the functions of release braking, reverse braking and emergency braking to ensure safe driving.
- / With protection for preventing sliding down a ramp to ensure safe operation.
- / The emergency reverse button on the top of the tiller can effectively prevent the driver from being injured in an emergency occurring.
- / Soft landing system can automatically slow down the lowering speed and effectively protect the goods.

Comfort

- / With the compact and stylish tiller, all operations can be easily completed with one hand.
- / The optimized design of the body structure provides an excellent operating view and to get in/out the pallet more easily.
- / Thanks to the compact, lightweight and flexible, it can be operated very easily and can pass through narrow aisles.
- / The truck can be operated in narrow space with the upright walking.
- / Gel battery: a maintenance-free battery.
- / The built-in charger is very convenient.

High performance

- / With high power and a rated load capacity to meet the handling needs of most customers.
- / With a permanen t magnet brush/synchronous motor with excellent performance and low heat generation.
- / The truck with regenerative braking provides protection for preventing sliding down a ramp.
- / The A2MJ model uses a permanent magnet brush controller with mature technology, and a motor with good universality and a low cost.
- / The A2MA model uses a permanent magnet synchronous controller with advanced technology, and a maintenance-free brushless motor with excellent performance.
- / The mast is made of special steel, and the outer mast is a welded structure, which reduces the weight of the vehicle and increases the rigidity.



Reliability

- / The bearing wheel adopts a clamping plate structure, which can adapt to uneven roads and improve the service life of the bearing wheel.
- / With a high-strength steel frame structure, the truck has a large residual load capacity and a long service life.
- / The truck with four-point design provides good road holding ensure high stability and a good view.
- / The whole system uses waterproof connectors, and all wires and cables have reliable protection, which greatly improves the reliability of the electrical system.
- / With a superior low noise and low vibration hydraulic power unit to enable stable and reliable lifting and lowering.
- / The hydraulic unit and the frame are flexibly connected so that the vibration transmitted from the road surface to the hydraulic unit can be absorbed and the reliability of the hydraulic unit is improved greatly.
- / The stamped fork with higher strength and impact resistance, and guided fork prongs, further improve operation efficiency.



Maintenance

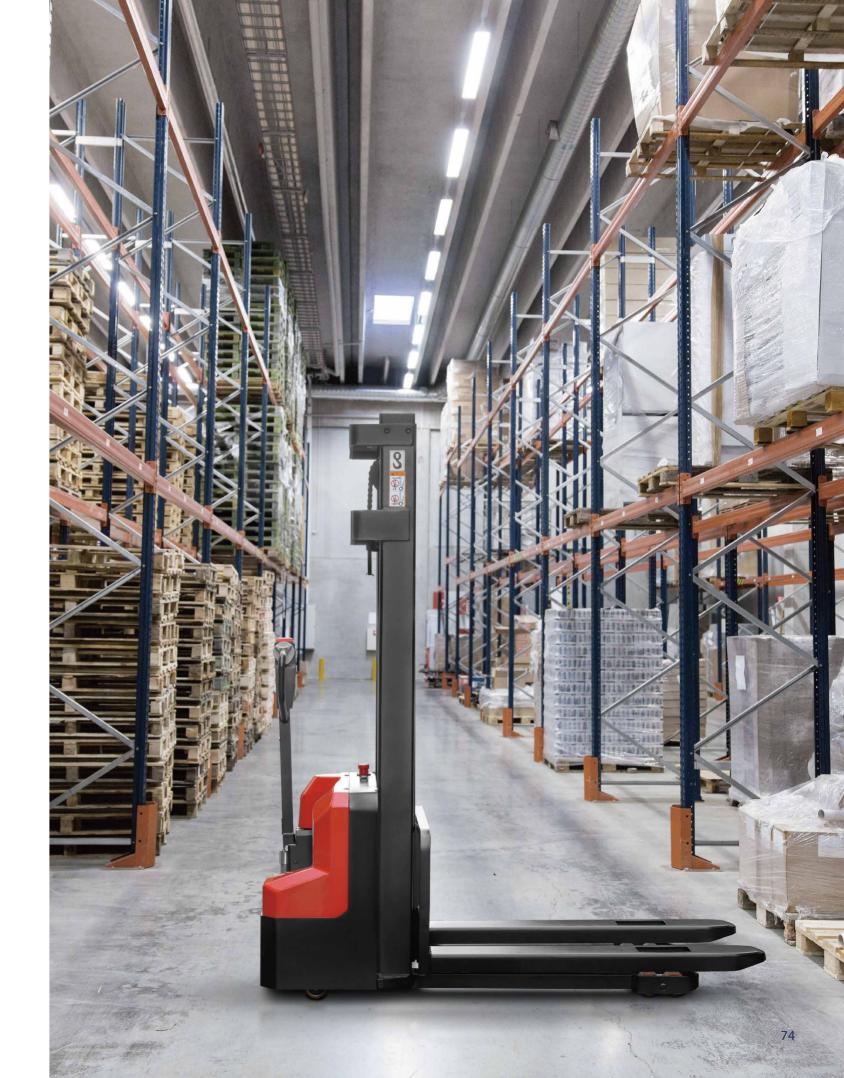
- / The battery indicator can duly prompt the user to charge.
- / With a rear hood that can be completely opened to expose all components and facilitate the maintenance of the truck.

Standard Specification

- / Permanent magnet brush (A2MJ) / permanent magnet synchronous (A2MA) motor
- / Permanent magnet brush (A2MJ) / permanent magnet synchronous (A2MA) controller
- / Hydraulic power unit
- / Emergency power off switch
- / PU wheel
- / Fork length: 1150mm
- / Fork interval: 560mm
- / Multi-function tiller with a code lock and display instruments
- / Horn
- / Built-in charger

Options

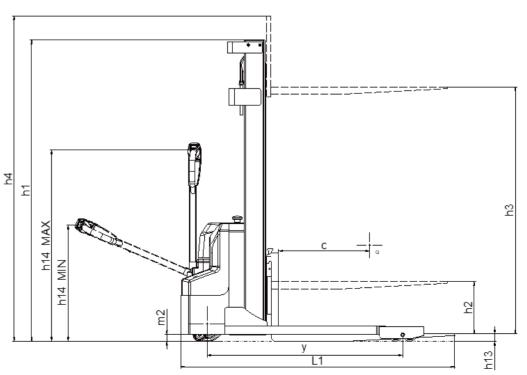
- / Lift height: 2.0-3.6m
- / A full range of optional fork length
- / Distance between fork-arms: 680mm
- / Reflective mirror
- / Key switch
- / Universal key switch
- / Working timing function
- / Charge interlocking
- / Gel battery: 24V/100/125Ah for 1.2t
- / Gel battery: 24V/125Ah for 1.5t



A Series Double-column Pallet Stackers Mini Range II Specification

| | 1.1 | Manufacturer | | | | | | | | HANGCHA GROUP CO | O.,LTD. | | | | | | |
|-----------------|--------|--|------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|
| 0.0 | 1.2 | Manufacturer's type designation | | CDD12-A2MJ2-SZ* | CDD15-A2MJ2-SZ* | CDD12-A2MA-SZ | CDD15-A2MA-SZ | CDD12-A2MJ2-ISZ* | CDD15-A2MJ2-ISZ* | CDD12-A2MA-ISZ | CDD15-A2MA-ISZ | CTD12-A2MC2-SZ | CTD15-A2MC2-SZ | CTD12-A2MJ2-SZ* | CTD15-A2MJ2-SZ* | CTD12-A2MA-SZ | CTD15-A2MA-SZ |
| ishin 4 | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picke | er | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian |
| stingu | 1.5 | Rated capacity/rated load | Q (kg) | 1200 | 1500 | 1200 | 1500 | 1200 | 1500 | 1200 | 1500 | 1200 | 1500 | 1200 | 1500 | 1200 | 1500 |
| Š | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| | 1.9 | Wheelbase | y (mm) | 1188 | 1198 | 1188 | 1198 | 1188 | 1198 | 1188 | 1198 | 1188 | 1188 | 1188 | 1188 | 1188 | 1188 |
| ght | 2.1 | Service Weight(Including battery) | kg | 560 | 630 | 560 | 630 | 1 | 1 | 1 | 1 | 1 | 1 | / | 1 | 1 | 1 |
| Wei | | Battery Weight | kg | 52 | 52 | 52 | 52 | 1 | 1 | / | 1 | 1 | 1 | / | 1 | / | / |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU | PU | PU | PU | PU | PU | PU | PU | PU | PU | PU |
| | 3.2 | Tyre size, front | | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210x70 | φ210x70 | φ210x70 | φ210x70 | φ210x70 | φ210x70 |
| ssis | 3.3 | Tyre size, rear | | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80x64 | φ80x64 | φ80x64 | φ80x64 | φ80x64 | φ80x64 |
| s, cha | 3.4 | Additional wheel (dimensions) | | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80x64 | φ80x64 | φ80x64 | φ80x64 | φ80x64 | φ80x64 |
| Tyre | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 |
| | 3.6 | Tread, front | b10 (mm) | 566 | 566 | 566 | 566 | 566 | 566 | 566 | 566 | 566 | 566 | 566 | 566 | 566 | 566 |
| | 3.7 | Tread, rear | b11 (mm) | 396 | 396 | 396 | 396 | 396 | 396 | 396 | 396 | 990/1190/1390 | 990/1190/1390 | 990/1190/1390 | 990/1190/1390 | 990/1190/1390 | 990/1190/1390 |
| | 4.4 | Lift | h3 (mm) | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| | 4.9 | Height drawbar in driving position min./max. | h14 (mm) | 720/1160 | 720/1160 | 720/1160 | 720/1160 | 720/1160 | 720/1160 | 720/1160 | 720/1160 | 1160 | 1160 | 1160 | 1160 | 1160 | 1160 |
| | 4.15 | Fork height,lowered | h13 (mm) | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 50 | 50 | 50 | 50 | 50 | 50 |
| | 4.19 | Overall length | lı (mm) | 1698 | 1708 | 1698 | 1708 | 1698 | 1708 | 1698 | 1708 | 1665 | 1665 | 1665 | 1665 | 1665 | 1665 |
| suo | 4.21 | Overall width | b1 (mm) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 1110/1310/1510 | 1100/1270/1470 | 1110/1310/1510 | 1100/1270/1470 | 1110/1310/1510 | 1100/1270/1470 |
| nensi | 4.22 | Fork dimensions | s/e/l (mm) | 60/170/1150 | 60/170/1150 | 60/170/1150 | 60/170/1150 | 60/170/1150 | 60/170/1150 | 60/170/1150 | 60/170/1150 | 35/100/1070 | 35/100/1070 | 35/100/1070 | 35/100/1070 | 35/100/1070 | 35/100/1070 |
| 븁 | 4.25 | Distance between fork-arms | bs (mm) | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 210-790 | 210-790 | 210-790 | 210-790 | 210-790 | 210-790 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 35 | 35 | 35 | 35 | 35 | 35 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 19421) | 19521) | 19421) | 19521) | 19421) | 19521) | 19421) | 19521) | 1908³) | 1908³) | 19083) | 1908³) | 1908³) | 1908³) |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 1994 ^{z)} | 2004 ²⁾ | 1994 ²⁾ | 2004²) | 1994 ²⁾ | 2004 ²⁾ | 1994 ^{z)} | 2004²) | 20024) | 20024) | 20024) | 20024) | 20024) | 20024) |
| | 4.35 | Turning radius | Wa (mm) | 1392 | 1402 | 1392 | 1402 | 1392 | 1402 | 1392 | 1402 | 1392 | 1392 | 1392 | 1392 | 1392 | 1392 |
| 8 | 5.1 | Travel speed,laden/unladen | km/h | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 |
| formanc data | 5.2 | Lift speed,laden/unladen | m/s | 0.110/0.150 | 0.085/0.110 | 0.110/0.150 | 0.085/0.110 | 0.110/0.150 | 0.085/0.110 | 0.110/0.150 | 0.085/0.110 | 0.11/0.15 | 0.085/0.11 | 0.11/0.15 | 0.085/0.11 | 0.11/0.15 | 0.085/0.11 |
| Perfo | 5.3 | Lowering speed,laden/unladen | m/s | 0.120/0.120 | 0.110/0.100 | 0.120/0.120 | 0.110/0.100 | 0.120/0.120 | 0.110/0.100 | 0.120/0.120 | 0.110/0.100 | 0.12/0.12 | 0.11/0.11 | 0.12/0.12 | 0.11/0.11 | 0.12/0.12 | 0.11/0.11 |
| | 5.8 | Max Gradeability,laden/unladen | % | 6/10 | 4/10 | 6/10 | 6/10 | 6/10 | 4/10 | 6/10 | 6/10 | 6/10 | 4/10 | 6/10 | 4/10 | 6/10 | 6/10 |
| . <u>u</u> | 6.1 | Drive motor rating S2 60 min | kW | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 |
| Electric | 6.2 | Lift motor rating at S3 15% | kW | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | 6.4 | Battery voltage,rated capacity | V/Ah | 24/85 | 24/100 | 24/85 | 24/100 | 24/60 | 24/60 | 24/60 | 24/60 | 2x12/85 | 2x12/100 | 2x12/85 | 2x12/100 | 2x12/85 | 2x12/100 |
| | 8.1 | Type of drive control | | DC | DC | PMSM | PMSM | DC | DC | PMSM | PMSM | DC | DC | DC | DC | PMSM | PMSM |

Note: 1). VDI 2198: +284mm 2). VDI 2198: +166mm 3). VDI 2198: +343mm 4). VDI 2198: +249mm * CE model



A Series Double-column Pallet Stackers Mini Range II Specification

| | 1.1 | Manufacturer | | | | | HANGCHA G | ROUP CO.,LTD. | | | |
|----------|--------|--|------------|--------------------|----------------|----------------|----------------|--------------------|-----------------|-----------------|-----------------|
| | 1.2 | Manufacturer's type designation | | CDD12-A2MC2-SZ | CDD15-A2MC2-SZ | CTD12-A2MC2-SZ | CTD15-A2MC2-SZ | CDD12-A2MC2-ISZ | CDD15-A2MC2-ISZ | CTD12-A2MC2-ISZ | CTD15-A2MC2-ISZ |
| k ishing | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picke | er e | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian | Pedestrian |
| tingu | 1.5 | Rated capacity/rated load | Q (kg) | 1200 | 1500 | 1200 | 1500 | 1200 | 1500 | 1200 | 1500 |
| Dis | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| | 1.9 | Wheelbase | y (mm) | 1188 | 1188 | 1188 | 1188 | 1188 | 1188 | 1188 | 1188 |
| ŧ, | 2.1 | Service Weight(Including battery) | kg | I | 1 | 1 | 1 | 1 | I | I | 1 |
| Weig | | Battery Weight | kg | I | / | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU | PU | PU | PU | PU |
| | 3.2 | Tyre size, front | | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210×70 | φ210×70 |
| ssis | 3.3 | Tyre size, rear | | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 |
| s, cha | 3.4 | Additional wheel (dimensions) | | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 | φ80×64 |
| Tyre | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 |
| | 3.6 | Tread, front | b10 (mm) | 566 | 566 | 566 | 566 | 566 | 566 | 566 | 566 |
| | 3.7 | Tread, rear | b11 (mm) | 396 | 396 | 1190 | 1190 | 396 | 396 | 1190 | 1190 |
| | 4.4 | Lift | h₃ (mm) | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| | 4.9 | Height drawbar in driving position min./max. | h14 (mm) | 1160 | 1160 | 1160 | 1160 | 1160 | 1160 | 1160 | 1160 |
| | 4.15 | Fork height,lowered | h13 (mm) | 85 | 85 | 35 | 35 | 85 | 85 | 35 | 35 |
| | 4.19 | Overall length | l1 (mm) | 1698 | 1708 | 1665 | 1665 | 1698 | 1708 | 1665 | 1665 |
| suo | 4.21 | Overall width | b1 (mm) | 800 | 800 | 1310 | 1310 | 800 | 800 | 1310 | 1310 |
| nensi | 4.22 | Fork dimensions | s/e/l (mm) | 60/170/1150 | 60/170/1150 | 35/100/1070 | 35/100/1070 | 60/170/1150 | 60/170/1150 | 35/100/1070 | 35/100/1070 |
| 늅 | 4.25 | Distance between fork-arms | bs (mm) | 560 | 560 | 210-790 | 210-790 | 560 | 560 | 210-790 | 210-790 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 26 | 26 | 40 | 40 | 26 | 26 | 40 | 40 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 19421) | 19521) | 1908³) | 1908³) | 19421) | 19521) | 1908³) | 1908³) |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 1994 ²⁾ | 2004²) | 20024) | 20024) | 1994 ²⁾ | 2004²) | 20024) | 20024) |
| | 4.35 | Turning radius | Wa (mm) | 1392 | 1402 | 1392 | 1392 | 1392 | 1402 | 1392 | 1392 |
| بو ا | 5.1 | Travel speed,laden/unladen | km/h | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 | 4.2/4.5 |
| ormanc | 5.2 | Lift speed,laden/unladen | m/s | 110/150 | 85/110 | 110/150 | 85/110 | 110/150 | 85/110 | 110/150 | 110/150 |
| Perfor | 5.3 | Lowering speed,laden/unladen | m/s | 120/120 | 110/100 | 120/120 | 110/100 | 120/120 | 110/100 | 120/120 | 120/120 |
| | 5.8 | Max Gradeability,laden/unladen | % | 6/10 | 4/10 | 6/10 | 4/10 | 6/10 | 4/10 | 6/10 | 4/10 |
| ە ك. | 6.1 | Drive motor rating S2 60 min | kW | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 |
| :lectri | 6.2 | Lift motor rating at S3 15% | kW | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 3.0 | 6.4 | Battery voltage,rated capacity | V/Ah | 24/85 | 24/100 | 24/85 | 24/100 | 24/60 | 24/60 | 24/60 | 24/60 |
| | 8.1 | Type of drive control | | DC | DC | DC | DC | DC | DC | DC | DC |

Note: 1). VDI 2198: +284mm 2). VDI 2198: +166mm 3). VDI 2198: +343mm 4). VDI 2198: +249mm * CE model

Mast Specification

| Mast Type | Max Lifting Height | Max.fork height | Lowered Height | Extended Height | Free lift | Load Capacit | ty at 600mm |
|-------------|--------------------|-----------------|----------------|-----------------|-----------|--------------|-------------|
| riast Type | h3 | (h3 +h13) | h1 | h4 | | 1.2t | 1.5t |
| | mm | mm | mm | mm | mm | kg | kg |
| ast | 2000 | 2085 | 1574 | 2574 | 0 | 1200 | 1500 |
| duplex mast | 2500 | 2585 | 1824 | 3074 | 0 | 1200 | 1200 |
| r dup | 2700 | 2785 | 1924 | 3274 | 0 | 1000 | 1000 |
| cylinder | 3000 | 3085 | 2074 | 3574 | 0 | 900 | 900 |
| Single cy | 3300 | 3385 | 2224 | 3874 | 0 | 750 | 750 |
| Sin | 3600 | 3685 | 2458 | 4258 | 0 | 600 | 600 |

Straddle Leg Mast Specification

| Mast Type | Max Lifting Height | Max.fork height | Lowered Height | Extended Height | Free lift | Load Capaci | ty at 600mm |
|-----------------------------|--------------------|-----------------|----------------|-----------------|-----------|-------------|-------------|
| riast Type | h3 | (h3 +h13) | h1 | h4 | | 1.2t | 1.5t |
| | mm | mm | mm | mm | mm | kg | kg |
| ts ts | 2000 | 2085 | 1593 | 2593 | 0 | 1200 | 1500 |
| E E | 2500 | 2585 | 1843 | 3093 | 0 | 1200 | 1200 |
| ldub r | 2700 | 2785 | 1943 | 3293 | 0 | 1000 | 1000 |
| linde | 3000 | 3085 | 2093 | 3593 | 0 | 900 | 900 |
| Single cylinder duplex mast | 3300 | 3385 | 2243 | 3893 | 0 | 750 | 750 |
| Sin | 3600 | 3685 | 2471 | 4277 | 0 | 600 | 600 |



A Series High Range Pedestrian Pallet Stacker With Initial Lift

with capacities of 1,200 to 1,600kg

The A series pedestrian stacker is a new product developed for warehouse and logistics applications. With the latest AC control technology, it features excellent performance, easy operation, safety and reliability, and low maintenance cost, and is an ideal vehicle for loading, unloading, and handling palletized goods in warehouse, supermarket, and workshop. The lithium battery forklift is equipped with the c-series forklift special lithium battery cell and module jointly developed by HANGCHA and CATL, standard power distribution heating function.

Appearance

- / The A series pedestrian stacker adopts a professional industrial design of exterior. The vehicle has a smooth vivid profile and a fully ergonomic design, following the latest exterior design trend.
- / With a large number of steel plate stamping and injection molding processes to enable a robust and durable product that meets environmental protection requirements.

High performance

- / With AC walking motor, it has excellent acceleration performance, good climbing performance, low heat generation, no carbon brush and is maintenance-free.
- / With the new AC control system to perform accurate, stable, and more efficient control.
- / The CANBUS structure makes the whole vehicle communication faster and more reliable.
- / Regenerative brake of the truck prevents it from sliding on a
- / Hydraulic power unit, switches, plug connectors, battery condition meter, timer and other important parts are all of renowned domestic and abroad brands.
- / Stepless lifting and descending speed regulation is provided for the standard configuration, to enable more precise fork control and more stable goods lifting and descending.
- / With the shanks to be initially lifted to enable a better passing ability.

Reliability

- / With the four-point low center of gravity design and a high-strength steel frame structure, the vehicle frame has a large residual load capacity and a long service life.
- / All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
- / With an electric lifting limit switch to avoid overflow from the hydraulic power unit, save more energy and protect the motor of the power unit.
- / The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.
- / Stamping molded fork has higher strength and impact resistance.
- / Power plug is fastened to truck body, which can avoid damage of plug when battery is replaced.
- / The battery is fixed securely, and battery cover is supported with flexible material, which reduces vibration and noise during operation.



Maintenance

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
- / Rear cover can be completely opened, maintenance is very
- / All rotating shafts are equipped with lubricating sleeve and oil cup, which is convenient for maintenance and has a long service life.

Comfort

- / With the unique function of driving at a turtle speed with an indicator light, the vehicle can be more easily driven at a slow speed while carrying out operations in a very narrow space.
- / The optimized body structure enables the vehicle to have an excellent operating view and to access the pallet easily.
- / Different optional prong intervals and prong lengths are applicable to handling of various pallets.

Safety

- / A function of automatic deceleration of the vehicle after the fork is lifted 500mm is provided for the standard configuration.
- / A function of prohibiting the shanks to be lifted after the fork is lifted 1800mm is provided for the standard configuration.
- / With the functions of release braking, reverse braking and emergency braking to ensure safe driving.
- / With protection for preventing sliding down a ramp to ensure safe operation.
- / The reverse brake button on the head of the joystick can effectively prevent the driver from being injured in an emergency occurring when the vehicle is reversed.
- / The truck reduces declining speed automatically when height from ground to fork is less than 100mm, which provides efective protection for goods.

Standard Specification

- / AC driving motor
- / CRUTIS/ZAPI AC controller
- / Fork lift & lower adopts stepless speed regulating
- / Imported hydraulic power unit
- / Emergency power off switch
- / Multi-function battery condition meter
- / Tandem load wheel
- / Initial lift 125mm
- / Fork length 1150mm
- / Outer distance between fork-arms 570mm
- / Electronic lifting limitation
- / Soft landing system
- / Multi-function handle of CAN bus
- / Horn
- / Battery

Options

- / Different mast height (see parameter list for details)
- / Fork length 1220/1600mm
- / Outer distance of forks 600/680mm
- / Charger
- / Load backrest
- / Mast shield
- / Lithium Battery 202Ah
- / Lead-acid battery 240/280/340Ah





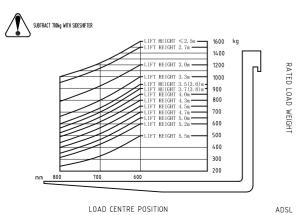
A Series High Range Pedestrian Pallet Stacker With Initial Lift Specification

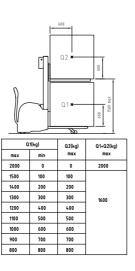
| | | | | | | | | <u> </u> | |
|---------------------|------|--|-----------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|
| | 1.1 | Manufacturer | | | | HANGCHA GF | OUP CO.,LTD. | | |
| Ŋ | 1.2 | Manufacturer's type designition | | CDD12-AC2-L* CDD12-AZ3-L | CDD14-AC2-L* CDD14-AZ3-L | CDD16-AC2-L* CDD16-AZ3-L | CDD12-AC2-LI* CDD12-AZ3-LI | CDD14-AC2-LI* CDD14-AZ3-LI | CDD16-AC2-LI* CDD16-AZ3-LI |
| Characteristics | 1.4 | Operator type | | Pedestrian | Pedestrian | Pedestrian | pedestrian | pedestrian | pedestrian |
| acte | 1.5 | Load capacity | Q(kg) | 1200 | 1400 | 1600 | 1200 | 1400 | 1600 |
| Char | 1.6 | Load centre distance | C(mm) | 600 | 600 | 600 | 600 | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x(mm) | 6833)4) | 6833)4) | 6833)4) | 6833)4) | 6833)4) | 6833)4) |
| | 1.9 | Wheelbase | y(mm) | 14673) | 1467³) | 1467³) | 1467³) | 1467³) | 1467³) |
| Weight | 2.1 | Service weight | kg | 1210 | 1215 | 1245 | 1225 | 1230 | 1245 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane | Polyurethane | Polyurethane | polyurethane | polyurethane | polyurethane |
| | 3.2 | Tyre size, front | mm | Ф230×75 | Ф230×75 | Ф230×75 | Ф230×75 | Ф230×75 | Ф230×75 |
| ssis | 3.3 | Tyre size, rear | mm | Ф85×70 | Ф85×70 | Ф85×70 | Ф85×70 | Ф85×70 | Ф85×70 |
| Wheels,chassis | 3.4 | Additional wheels(dimensions) | mm | Φ140×55 | Φ140×55 | Φ140×55 | Φ140×55 | Φ140×55 | Φ140×55 |
| heels | 3.5 | Wheels, number front rear (x = driven wheels) | | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 | 1x+1/4 |
| 3 | 3.6 | Tread, front | b10(mm) | 525 | 525 | 525 | 525 | 525 | 525 |
| | 3.7 | Tread, rear | b11(mm) | 385 | 385 | 385 | 385 | 385 | 385 |
| | 4.2 | Height, mast lowered | h1(mm) | 1932 | 1932 | 1932 | 1932 | 1932 | 1932 |
| | 4.4 | Lift | h3(mm) | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| | 4.6 | Initial lift | hs(mm) | 125 | 125 | 125 | 125 | 125 | 125 |
| | 4.15 | Height, lowered | h13(mm) | 90 | 90 | 90 | 90 | 90 | 90 |
| v | 4.19 | Overall length | lı(mm) | 20834) | 20834) | 20834) | 20834) | 20834) | 20834) |
| Dimensions | 4.20 | Length to face of forks | Iz(mm) | 9344) | 9344) | 9344) | 9344) | 9344) | 9344) |
| ii. | 4.21 | Overall width | b1(mm) | 800 | 800 | 800 | 800 | 800 | 800 |
| | 4.22 | Fork dimensions | s/e/I(mm) | 60/185/1150 | 60/185/1150 | 60/185/1150 | 60/185/1150 | 60/185/1150 | 60/185/1150 |
| | 4.25 | Distance between fork-arms | mm | 570 | 570 | 570 | 570 | 570 | 570 |
| | 4.32 | Ground clearance, centre of wheelbase | m2(mm) | 21 | 21 | 21 | 21 | 21 | 21 |
| | 4.33 | Aisle width for pallets 1000 x 1200 crossways | Ast(mm) | 22831) | 22831) | 22831) | 22831) | 22831) | 22831) |
| | 4.34 | Aisle width for pallets 800 x 1200 lengthways | Ast(mm) | 2334 ²⁾ | 2334 ²⁾ | 2334 ²⁾ | 2334 ²⁾ | 2334 ²⁾ | 2334 ²⁾ |
| | 4.35 | Turning radius | Wa(mm) | 1635³) | 1635³) | 1635³) | 1635³) | 1635³) | 1635³) |
| | 5.1 | Travel speed, unladen | km/h | 6/6 | 6/6 | 6/6 | 6/6 | 6/6 | 6/6 |
| ance | 5.2 | Lift speed, laden/unladen | m/s | 0.12/0.21 | 0.16/0.25 | 0.13/0.22 | 0.12/0.21 | 0.16/0.25 | 0.13/0.22 |
| Performance data | 5.3 | Lowering speed, lade/unladen | m/s | 0.34/0.32 | 0.32/0.32 | 0.26/0.30 | 0.34/0.32 | 0.32/0.32 | 0.26/0.30 |
| Perf | 5.7 | Gradeability, laden/unladen | % | 8/16 | 8/16 | 7/16 | 8/16 | 8/16 | 7/16 |
| | 5.10 | Service brake | | electric | electric | electric | electric | electric | electric |
| . e | 6.1 | Drive motor rating S2 60 min | kW | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Electric Engine | 6.2 | Lift motor rating at S3 15 % | kW | 2.2 | 3.2 | 3.2 | 2.2 | 3.2 | 3.2 |
| <u> </u> | 6.4 | Battery voltage/nominal capacity K5 | V/Ah | 24/240 | 24/240 | 24/280 | 24/125 | 24/125 | 24/125 |
| Other | 8.1 | Type of drive control | | | | AC CUR | ΓIS/ZAPI | | |

Note: 1) VDI2198:+233mm; 2) VDI2198:+157mm; 3) Load section lowered:+68mm; 4) Triplex Mast:x-21mm; l1+21mm; l2+21mm;

★ CE model

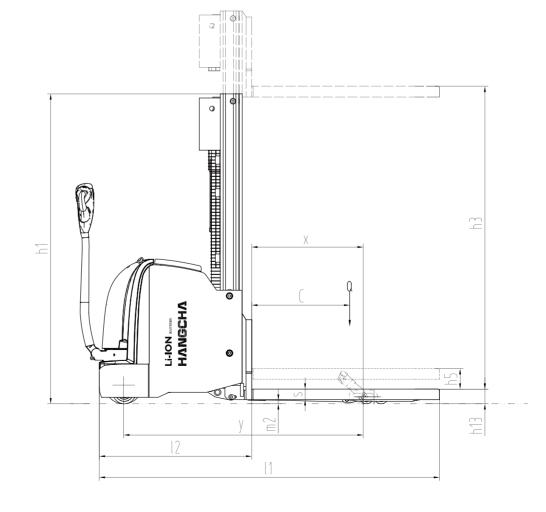
RATED CAPACITIES AND LOAD CENTRES GRAPH

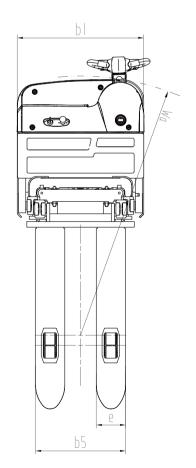




Mast Specification

| Type | Fork lift height | Max.fork height (h3 +h13) | Mast lowered | Mast extended h4 | Free lift height | Lo | ad Capacity at 600n | nm |
|--|------------------|------------------------------|--------------|---------------------|------------------|------|---------------------|------|
| | | (4.5 1.25) | | | | 1.2t | 1.4t | 1.6t |
| | mm | mm | mm | mm | mm | kg | kg | kg |
| | 2000 | 2090 | 1582 | 2582 | 90 | 1200 | 1400 | 1600 |
| | 2500 | 2590 | 1832 | 3082 | 90 | 1200 | 1400 | 1600 |
| | 2700 | 2790 | 1932 | 3282 | 90 | 1200 | 1300 | 1500 |
| ts ts | 3000 | 3090 | 2082 | 3582 | 90 | 1130 | 1130 | 1200 |
| l e | 3300 | 3390 | 2232 | 3882 | 90 | 950 | 950 | 1000 |
| 3 | 3500 | 3590 | 2332 | 4082 | 90 | 900 | 900 | 940 |
| × | 3600 | 3690 | 2382 | 4182 | 90 | 890 | 890 | 930 |
| Wide view mast | 3700 | 3790 | 2432 | 4282 | 90 | 850 | 850 | 900 |
| 3 | 3800 | 3890 | 2482 | 4382 | 90 | 840 | 840 | 890 |
| | 4000 | 4090 | 2682 | 4682 | 90 | 800 | 800 | 850 |
| | 4300 | 4390 | 2832 | 4982 | 90 | 750 | 750 | 800 |
| | 4500 | 4590 | 2932 | 5182 | 90 | 700 | 700 | 750 |
| | 2000 | 2090 | 1635 | 2635 | 1090 | 1200 | 1400 | 1600 |
| Wide view full free duplex mast | 2500 | 2590 | 1885 | 3135 | 1340 | 1200 | 1400 | 1600 |
| iev ma | 2700 | 2790 | 1985 | 3335 | 1440 | 1200 | 1300 | 1500 |
| e = e | 3000 | 3090 | 2135 | 3635 | 1590 | 1130 | 1130 | 1200 |
| 울루호 | 3300 | 3390 | 2285 | 3935 | 1740 | 950 | 950 | 1000 |
| > 5 | 3500 | 3590 | 2385 | 4135 | 1840 | 900 | 900 | 940 |
| | 3600 | 3690 | 2435 | 4235 | 1890 | 890 | 890 | 930 |
| | 3500 | 3590 | 1884 | 4254 | 1220 | 890 | 890 | 930 |
| | 3700 | 3790 | 1949 | 4449 | 1290 | 850 | 850 | 900 |
| 3 . 5 | 4000 | 4090 | 2049 | 4749 | 1390 | 800 | 800 | 850 |
| je je | 4300 | 4390 | 2149 | 5049 | 1490 | 750 | 750 | 800 |
| Wide view full free triplex mast | 4500 | 4590 | 2199 | 5199 | 1590 | 700 | 700 | 750 |
| 꽃무痘 | 4700 | 4790 | 2299 | 5499 | 1590 | 650 | 650 | 700 |
| - = | 5000 | 5090 | 2394 | 5784 | 1700 | 600 | 600 | 650 |
| | 5200 | 5290 | 2449 | 5949 | 1790 | 550 | 550 | 600 |
| | 5500 | 5590 | 2549 | 6249 | 1890 | 450 | 450 | 500 |





83 LOAD CENTRE POSITION



A Series Pallet Stacker Truck Hi Range

with capacities of 1,200 to 2,000kg

High Performance

- / AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free.
- / The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- / The applied CANBUS structure to offer more reliable and faster command access.
- / Regenerative brake and slope anti-slide function are offered by
- / Stand-on type with high power drive motor, provides fast travel speed and good gradeability.

Reliability

- / Four-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capacity and longer working life.
- / Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- / The adopted unique floating suspension system ensures good driving wheels grip and excellent.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.
- / H-type mast profile section to provide more stable and rigid performance.
- / The power plug is fixed on the truck body to avoid damage from battery installment.
- / Pedestrian type use the new design drive system, the drive motor will not accompany the tiller rotation, it can keep all the cable connect to the drive motor avoid being bent.
- / Using non-contact proximity switch, it can provides long life and reliable operation.

Comfort

- / The shock absorption design of foldable platform improves comfort greatly to the operator.
- / The new designed floating suspension driving system, adjustable automatically with loads, offers the driving wheels sufficient power.
- / Simple and beautiful tiller designed to operate all functions easily even by one hand.
- / Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.
- / Customer can choose different width of outside fork and length of forks to fit variable pallet.

Safety

- / With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- / The applied slope anti-slip function ensures the safety of the
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / Soft landing system applied to offer protection to the loads from
- / Turning speed is automatically reduced when steering only for
- / Turtle speed function can keep the slow move when the tiller is vertical direction, the truck can stack goods even in narrow space.
- / Travel speed will be automatically reduced after fork lifting 500mm.

Maintenance

- / AC motor with no cabin brush, don't need maintenance, lower cost.
- / Rear cover can be completely open, operator can see all the components, so the maintenance is very convenient.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

Standard Specification

- / Horn
- / AC drive motor
- / Battery
- / PU drive wheel
- / Tandem wheels
- / Fork lift & lower adopts stepless speed regulating
- / Pedal and handrail
- / Soft landing system
- / 1150mm fork length
- / CURTIS AC controller
- / Hydraulic power unit
- / 570mm outside fork width
- / Emergency disconnect switch
- / Multi-function battery indicator
- / CAN-bus system multi-function tiller
- / Electric steering (stand on pallet stacker)

Options

- / Load backrest
- / Mast protection
- / 240Ah, 340Ah battery
- / Different width of outside fork
- / Different mast lifting heights
- / Cold store protection (-30°C)
- / Side way battery change
- / Different length of forks
- / Overhead guard





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

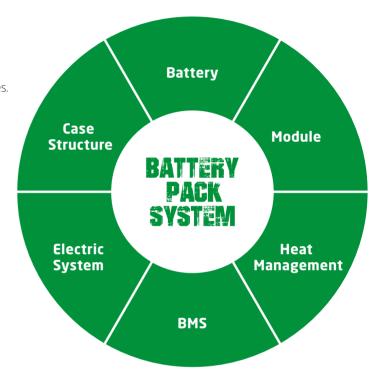




INNOVATIVE SOLUTIONS NEW POWER NOW

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.





Lead-acid batteries **8-10 hours 100%**

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CDD12-AC2S-I* | CDD14-AC2S-I* | CDD16-AC2S-I* | CDD20-AC2S-I* | CTD12-AC2S-I* | CTD14-AC2S-I* | CTD16-AC2S-I* | CTD20-AC2S-I* | CDD12-AC2-I* | CDD14-AC2-I* | CDD16-AC2-I* | CDD20-AC2-I* |
|-------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|
| Li-lon battery | V/Ah | 24/125 | 24/125 | 24/125 | 24/125 | 24/125 | 24/125 | 24/125 | 24/125 | 24/125 | 24/125 | 24/125 | 24/125 |
| Li-lon battery,Optional | V/Ah | 24/228 | 24/228 | 24/228 | 24/228 | 24/228 | 24/228 | 24/228 | 24/228 | 24/228 | 24/228 | 24/228 | 24/228 |
| Titans charger | | SPC-24100 | SPC-24100 | SPC-24100 | SPC-24100 | SPC-24100 |

Note: * CE model



1.2-1.6t Hi Range Pallet Stacker Truck Specification:

| Mast Type | Max Lifting Height | Max. fork height (h3+h13) | Lowered Height | Extended Height | Free lift | Load | Capacity at 60 | 0mm |
|--|-----------------------|------------------------------|----------------|-----------------|-----------|------|----------------|------|
| | hз | (113 - 1113) | "" | 114 | | 1.2t | 1.4t | 1.6t |
| | mm | mm | mm | mm | mm | Kg | Kg | Kg |
| | 2000 | 2090 | 1542 | 2542 | 90 | 1200 | 1400 | 1600 |
| | 2500 | 2590 | 1792 | 3042 | 90 | 1200 | 1400 | 1600 |
| 5 | 2700 | 2790 | 1892 | 3242 | 90 | 1200 | 1400 | 1600 |
| Double cylinder duplex wide view | 3000 | 3090 | 2042 | 3542 | 90 | 1200 | 1400 | 1600 |
| e le de v | 3300 | 3390 | 2192 | 3842 | 90 | 1200 | 1200 | 1300 |
| d lin | 3500 | 3590 | 2292 | 4042 | 90 | 1070 | 1070 | 1130 |
| Q 9 8 | 3600 | 3690 | 2342 | 4142 | 90 | 1000 | 1000 | 1050 |
| ξ | 3800 | 3890 | 2442 | 4342 | 90 | 920 | 920 | 970 |
| | 4000 | 4090 | 2642 | 4642 | 90 | 850 | 850 | 900 |
| | 4300 | 4390 | 2792 | 4942 | 90 | 770 | 770 | 810 |
| | 4500 | 4590 | 2892 | 5142 | 90 | 680 | 680 | 710 |
| | 2000 | 2090 | 1595 | 2595 | 1090 | 1200 | 1400 | 1600 |
| _ | 2500 | 2590 | 1845 | 3095 | 1340 | 1200 | 1400 | 1600 |
| Duplex full-free wide view | 2700 | 2790 | 1945 | 3295 | 1440 | 1200 | 1400 | 1600 |
| 를 들 스 | 3000 | 3090 | 2095 | 3595 | 1590 | 1200 | 1400 | 1600 |
| o무漢 | 3300 | 3390 | 2245 | 3895 | 1740 | 1200 | 1200 | 1300 |
| | 3500 | 3590 | 2345 | 4095 | 1840 | 1070 | 1070 | 1130 |
| | 3600 | 3690 | 2395 | 4195 | 1890 | 1000 | 1000 | 1050 |
| | 3500 | 3590 | 1844 | 4214 | 1220 | 1070 | 1070 | 1130 |
| | 3700 | 3790 | 1909 | 4409 | 1290 | 960 | 960 | 1010 |
| _ | 4000 | 4090 | 2009 | 4709 | 1390 | 850 | 850 | 900 |
| ex iev | 4300 | 4390 | 2109 | 5009 | 1490 | 770 | 770 | 810 |
| Triplex full-free wide view | 4500 | 4590 | 2159 | 5159 | 1590 | 680 | 680 | 710 |
| ⊢4 <u>%</u> | 4700 | 4790 | 2259 | 5459 | 1590 | 600 | 600 | 630 |
| | 5000 | 5090 | 2354 | 5744 | 1700 | 500 | 500 | 530 |
| | 5200 | 5290 | 2409 | 5909 | 1790 | 440 | 440 | 470 |
| | 5500 | 5590 | 2509 | 6209 | 1890 | 320 | 320 | 350 |

2.0t Hi Range Pallet Stacker Truck Specification:

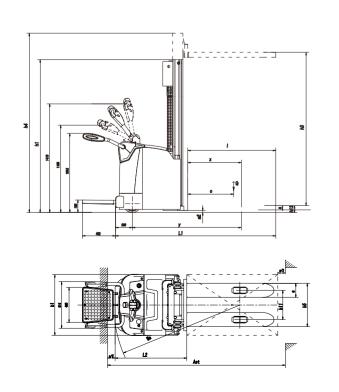
| Mast Type | Max Lifting Height | Max. fork height (h3+h13) | Lowered Height h1 | Extended Height h4 | Free lift | Load Capacity at 600mm |
|--|-----------------------|------------------------------|----------------------|-----------------------|-----------|------------------------|
| | hз | , , | | | | 2.0t |
| | mm | mm | mm | mm | mm | Kg |
| | 2000 | 2090 | 1647 | 2647 | 90 | 2000 |
| | 2500 | 2590 | 1897 | 3147 | 90 | 2000 |
| 5 | 2700 | 2790 | 1997 | 3347 | 90 | 1800 |
| Double cylinder duplex wide view | 3000 | 3090 | 2147 | 3647 | 90 | 1600 |
| e le de v | 3300 | 3390 | 2297 | 3947 | 90 | 1350 |
| Double cylinder ex wide | 3500 | 3590 | 2397 | 4147 | 90 | 1180 |
| <u> </u> | 3600 | 3690 | 2447 | 4247 | 90 | 1100 |
| ήp | 3800 | 3890 | 2547 | 4447 | 90 | 980 |
| | 4000 | 4090 | 2747 | 4747 | 90 | 950 |
| | 4300 | 4390 | 2897 | 5047 | 90 | 860 |
| | 4500 | 4590 | 2997 | 5247 | 90 | 760 |
| | 2000 | 2090 | 1700 | 2700 | 1090 | 2000 |
| _ | 2500 | 2590 | 1950 | 3200 | 1340 | 2000 |
| Duplex full-free wide view | 2700 | 2790 | 2050 | 3400 | 1440 | 1800 |
| 를 들 수 | 3000 | 3090 | 2200 | 3700 | 1590 | 1600 |
| 호호 | 3300 | 3390 | 2350 | 4000 | 1740 | 1350 |
| | 3500 | 3590 | 2450 | 4200 | 1840 | 1180 |
| | 3600 | 3690 | 2500 | 4300 | 1890 | 1100 |
| | 3500 | 3590 | 1944 | 4314 | 1130 | 1180 |
| | 3700 | 3790 | 2009 | 4509 | 1200 | 1020 |
| 3 | 4000 | 4090 | 2109 | 4809 | 1300 | 950 |
| free vie | 4300 | 4390 | 2209 | 5109 | 1400 | 860 |
| Triplex full-free wide view | 4500 | 4590 | 2259 | 5259 | 1500 | 760 |
| . ← ≥ | 4700 | 4790 | 2359 | 5559 | 1500 | 680 |
| | 5000 | 5090 | 2454 | 5844 | 1610 | 570 |
| | 5200 | 5290 | 2509 | 6009 | 1700 | 510 |
| | 5500 | 5590 | 2609 | 6309 | 1800 | 400 |

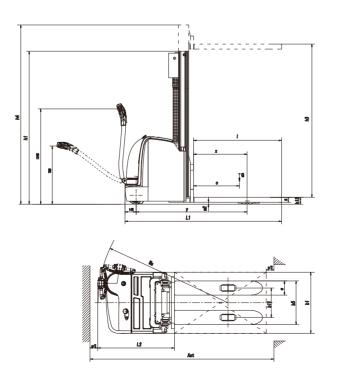
A Series Pallet Stacker Truck Hi Range

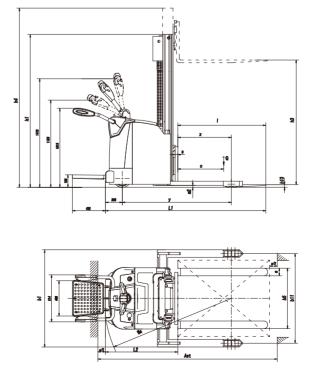
| | 1.1 | Manufacturer | | | | | | | | | HANGCHA GROUP | ירט ודט | | | | | | | |
|------------|--------|---|------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|
| 8 | | | | CDD12-AC2S* CDD12-AZ3S | CDD12-AC2* CDD12-AZ3 | CDD14-AC2S* CDD14-AZ3S | CDD14-AC2* CDD14-AZ3 | CDD16-AC25* CDD16-AZ3S | CDD16-AC2* CDD16-AZ3 | CDD20-AC25* CDD20-AZ3S | CDD20-AC2* CDD20-AZ3 | CTD12-AC2S* CTD12-AZ3S | CTD12-AC2* CTD12-AZ3 | CTD14-AC2S* CTD14-AZ3S | CTD14-AC2* CTD14-AZ3 | CTD16-AC2S* CTD16-AZ3S | CTD16-AC2* CTD16-AZ3 | CTD20-AC2S* CTD20-AZ3S | CTD20-AC2* CTD20-AZ3 |
| lishi F | | Operator type: hand, pedestrian, standing, seated, order-picker | | Standing | Pedestrian | Standing | Pedestrian | Standing | Pedestrian | CDD20-A2-3S Standing | Pedestrian | Standing | Pedestrian | Standing | Pedestrian | Stand-on | Pedestrian | Stand-on | Pedestrian |
| ngu mar | | Rated capacity/rated load | Q (kg) | 1200 | 1200 | 1400 | 1400 | 1600 | 1600 | 2000 | 2000 | 1200 | 1200 | 1400 | 1400 | 1600 | 1600 | 2000 | 2000 |
| ist | | Load centre distance | c (mm) | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| ä | 1.9 | Wheelbase | y (mm) | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 | 1425 |
| Weight | | Service Weight | kg | 1310 | 1177 | 1315 | 1182 | 1362 | 1215 | 1405 | 1258 | 1380 | 1247 | 1385 | 1252 | 1432 | 1285 | 1475 | 1328 |
| | | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU |
| is. | 3.2 | Tyre size, front | | Ф230х75 | Ф230х75 | Ф230x75 | Ф230x75 | Ф230х75 | Ф230х75 | Ф230х75 | Ф230х75 | Φ230x75 | Ф230х75 | Ф230х75 | Ф230х75 | Ф230х75 | Ф230х75 | Ф230х75 | Ф230х75 |
| asi | | Tyre size, rear | | Ф85х70 | Ф85х70 |
| s, ch | | Additional wheel (dimensions) | | Ф140х55 | Φ140x55 | Ф140x55 | Φ140x55 | Ф140x55 | Φ140x55 | Φ140x55 | Φ140x55 | Φ140x55 | Φ140x55 | Φ140x55 | Ф140x55 | Ф140x55 | Ф140x55 | Ф140х55 | Ф140x55 |
| V. es | | Wheels, number front / rear (x = driven wheels) | | 1x+1/4 | 1x+1/4 |
| F. | | Tread, front | b10 (mm) | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 |
| | 3.7 | Tread, rear | b11 (mm) | 385 | 385 | 385 | 385 | 385 | 385 | 385 | 385 | 1000/1170/1370 | 1000/1170/1370 | 1000/1170/1370 | 1000/1170/1370 | 1000/1170/1370 | 1000/1170/1370 | 1000/1170/1370 | 1000/1170/1370 |
| | | Lift | h₃ (mm) | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| | | Fork height,lowered | h13 (mm) | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| | 4.19 | Overall length | lı (mm) | 2095 ¹⁾ | 2050 ¹⁾ | 2050 ¹⁾ | 2005 ¹⁾ | 2050 ¹⁾ | 20051) | 2050 ¹⁾ | 2005 ¹⁾ | 2050 ¹⁾ | 2005 1) |
| S. | | Overall length(unfold the pedal) | lı (mm) | 2527 ¹⁾ | | 2527 ¹⁾ | | 2527 ¹⁾ | | 2527 ¹⁾ | | 2482 ¹⁾ | | 2482 ¹⁾ | | 2482 ¹⁾ | | 2482 ¹⁾ | |
| ië ië | 4.21 | Overall width | b1(mm) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 1100/1270/1470 | 1100/1270/1470 | 1100/1270/1470 | 1100/1270/1470 | 1100/1270/1470 | 1100/1270/1470 | 1100/1270/1470 | 1100/1270/1470 |
| ens | 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 65/185/1150 | 65/185/1150 | 65/185/1150 | 65/185/1150 | 65/185/1150 | 65/185/1150 | 65/185/1150 | 65/185/1150 | 35/100/1070 | 35/100/1070 | 35/100/1070 | 35/100/1070 | 35/100/1070 | 35/100/1070 | 40/122/1070 | 40/122/1070 |
| l i | 4.25 | Distance between fork-arms | bs (mm) | 570/680 | 570/680 | 570/680 | 570/680 | 570/680 | 570/680 | 570/680 | 570/680 | 210-790 | 210-790 | 210-790 | 210-790 | 210-790 | 210-790 | 210-790 | 210-790 |
| | | Ground clearance, centre of wheelbase | m2 (mm) | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| | 4.34.1 | 1 Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2312 ¹⁾ | 2318 ¹⁾ | 2342 ¹⁾ | 2348 ¹⁾ |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2362 ¹⁾ | 2368 ¹⁾ | 2392 ¹⁾ | 2398 ¹⁾ |
| | 4.35 | Turning radius | Wa (mm) | 1662 | 1668 | 1662 | 1668 | 1662 | 1668 | 1662 | 1668 | 1662 | 1668 | 1662 | 1668 | 1662 | 1668 | 1662 | 1668 |
| nce | 5.1 | Travel speed,laden/unladen | km/h | 7.0/7.0 | 6.0/6.0 | 7.0/7.0 | 6.0/6.0 | 7.0/7.0 | 5.0/6.0 | 7.0/7.0 | 5.0/6.0 | 7.0/7.0 | 6.0/6.0 | 7.0/7.0 | 6.0/6.0 | 7.0/7.0 | 5.0/6.0 | 7.0/7.0 | 5.0/6.0 |
| ata | | Lift speed,laden/unladen | m/s | 0.087/0.133 | 0.087/0.133 | 0.129/0.198 | 0.129/0.198 | 0.108/0.160 | 0.108/0.160 | 0.098/0.160 | 0.098/0.160 | 0.087/0.133 | 0.087/0.133 | 0.129/0.198 | 0.129/0.198 | 0.108/0.160 | 0.108/0.160 | 0.098/0.160 | 0.098/0.160 |
| ļ ģ ģ | 5.3 | Lowering speed,laden/unladen | m/s | 0.155/0.158 | 0.155/0.158 | 0.213/0.200 | 0.213/0.200 | 0.185/0.155 | 0.185/0.155 | 0.195/0.155 | 0.195/0.155 | 0.155/0.158 | 0.155/0.158 | 0.213/0.200 | 0.213/0.200 | 0.185/0.155 | 0.185/0.155 | 0.195/0.155 | 0.195/0.155 |
| Pe | | Max Gradeability,laden/unladen | % | 10/16 | 8/16 | 10/16 | 8/16 | 8/16 | 5/16 | 8/16 | 5/16 | 10/16 | 8/16 | 10/16 | 8/16 | 8/16 | 5/16 | 8/16 | 5/16 |
| U 4. | | Drive motor rating S2 60 min | kW | 2.2 | 1.5 | 2.2 | 1.5 | 2.2 | 1.5 | 2.2 | 15 | 2.2 | 1.5 | 2.2 | 1.5 | 2.2 | 1.5 | 2.2 | 1.5 |
| Electric | 6.2 | Lift motor rating at S3 15% | kW | 2.2 | 2.2 | 3 | 3 | 3 | 3 | 3 | 3 | 2.2 | 22 | 3 | 3 | 3 | 3 | 3 | 3 |
| Elec | | Steering motor power | kW | 0.2 | | 0.2 | | 0.2 | | 0.2 | | 0.2 | | 0.2 | | 0.2 | | 0.2 | |
| | 6.4 | Battery voltage,rated capacity (Lead-acid) | V/Ah | 24/280 | 24/240 | 24/280 | 24/240 | 24/340 | 24/280 | 24/340 | 24/280 | 24/280 | 24/240 | 24/280 | 24/240 | 24/340 | 24/280 | 24/340 | 24/280 |
| | | Battery voltage,rated capacity,Optional | V/Ah | ~24/340 | ~24/340 | ~24/340 | ~24/340 | | ~24/340 | | ~24/340 | ~24/340 | ~24/340 | ~24/340 | ~24/340 | | ~24/340 | | ~24/340 |
| | 8.1 | Type of drive control | | AC | AC |
| | 9.1 | Manufacturer | | CURTIS/ZAPI | CURTIS/ZAPI |

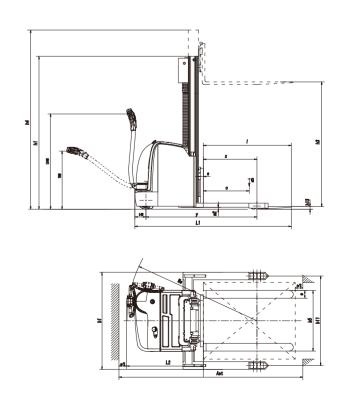
Note: 1).Triplex Mast+21mm

★ CE model











A Series Electric Counterbalanced Stacker

with capacities of 800 to 2,000kg

Is widely used in pallet stacking, wherever support arm stacker truck cannot operate close pallet and lower pallet. Applied the latest AC drive technology, advanced performance, comfort, safe, reliable, low maintenance cost, easy to operate, and economical to buy is the ideal solution for warehouses, supermarkets, workshop loading/unloading and handling pallets of cargos.

Appearance

- / A series electric counterbalanced stacker applied professional industrial design, stream lines, and compact, and fully ergonomic consideration, in line with the latest design trends.
- / Applied steel stamping and injection molding processes for front and back guard, which is robust, durable, and also environmental compliance.

High Performance

- / Electric power steering is standard specification, which provides flexible operation.
- / Pump motor controller offers proportional lifting/lowering, low noise, energy consumption reduced by 15%.
- / Powered by AC traction motor not only has good acceleration and climbing performance, but also low heat, brushless, maintenance-free.
- / Latest AC control system, precise and smooth.
- / CAN-BUS connection enables all truck data can be read out for inspection, and also improves the data transition more quick and reliable.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as switches, connectors, battery indicator and hour meter all adopt the famous brand.





Simple and beautiful tiller designed to improve the operator's driving comfort. Optimized designing structure to offer a good visibility and easy entrance to the pallet



Side battery change is standard specification



Fully opened hood, easy accessibility of all components, is easy for service



Mast tilting is the optional feature, offers proportional forward/backward speed





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

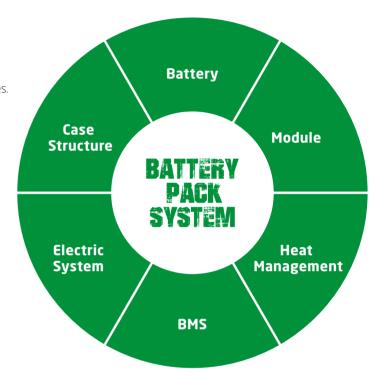




INNOVATIVE SOLUTIONS NEW POWER NOW

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.





Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CPDB08-AC2S-I* CPDB08-AZ3S-I | CPDB12-AC2S-I* CPDB12-AZ3S-I | CPDB16-AC2S-I* CPDB16-AZ3S-I | CPDB20-AC2S-I* CPDB20-AZ3S-I |
|-------------------------|------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Li-lon battery | V/Ah | 24/125 | 24/125 | 24/125 | 24/125 |
| Li-lon battery,Optional | V/Ah | 24/228 | 24/228 | 24/228 | 24/228 |
| Titans charger | | SPC-24100 | SPC-24100 | SPC-24100 | SPC-24100 |

Note: * CE model



Reliability

- / 3-pivot with low centre of gravity design and high strength steel frame structure chassis provide high residual load capability and longer working life.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Using non-contact proximity switch, improves safety and reliability.
- / Hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / The REMA tiller made in Germany of latest development is simple but beautiful, and all operations can be done easily with one hand.
- / H-type mast profile section is applied to provide stable lifting and high strength.
- / The power plug is fixed on the chassis to avoid damage during battery replacement.

Comfort

- / The pedal applies shock absorption design, greatly improves the operator's comfort, reduce the fatigue.
- / The compact body and semicircular design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.

Safety

- / Travel speed will be automatically reduced after fork lifting height over 500mm.
- / Automatic deceleration during turning.
- / Punch-formed handrails provide more safety to the operator.
- / Three braking system of regenerative braking, reverse current braking, and emergency braking, insures the safe operation.
- / Anti-slope on gradient can keep the safety.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / Soft landing system applied to protect loads from damaging when forks lowering to 100mm to ground.

Maintenance

- / AC motor without carbon brushes, maintenance-free, cost saving.
- / Integrated battery indicator, hour meter and self-diagnostic instrument.

Standard Specification

- / AC drive motor
- / Electric power steering
- / 2.7m double cylinder duplex mast
- / Emergency switch
- / The proportional lift & lower control
- / 1070mm fork length
- / Side battery change
- / Multi-function battery indicator
- / PU load wheel
- / CAN bus technology
- / Soft landing system

Options

- / Mast lift height: Duplex mast 2000-4500mm, full free duplex mast: 2000-3600mm, triplex mast 0.8t: 3500-5000mm, 1.2/1.6/2.0t: 3500-5500mm.
- / Mast tilting: Forward 2°/ Backword 6°
- / Different length of fork
- / Load backrest

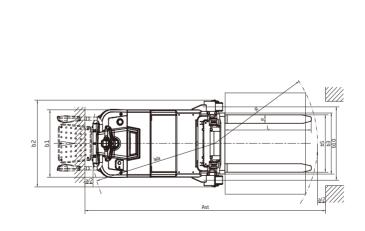
A Series Electric counterbalanced stacker

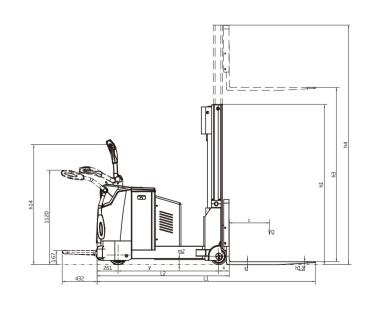
| | 1.1 | Manufacturer | | | HANGCHA GF | OUP CO.,LTD. | |
|-------------------------|--------|--|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Distinguishing marks | 1.2 | Manufacturer's type designation | | CPDB08-AC2S* CPDB08-AZ3S | CPDB12-AC2S* CPDB12-AZ3S | CPDB16-AC2S* CPDB16-AZ3S | CPDB20-AC2S* CPDB20-AZ3S |
| is shi | 1.3 | Drive:electric(battery or mains),diesel,petrol,fuel gas | | electric | electric | electric | electric |
| ngu | 1.4 | Operator type:hand,pedestrian,standing,seated,order-picker | | standing | standing | standing | standing |
| i ii - | 1.5 | Rated capacity/rated load | Q (t) | 0.8 | 1.2 | 1.6 | 2.0 |
| | 1.6 | Load centre distance | c(mm) | 500 | 500 | 500 | 500 |
| | 1.8 | Load distance, centre of drive axle to fork | x(mm) | 131 | 131 | 141 | 151 |
| | 1.9 | Wheelbase | y(mm) | 1023 | 1150 | 1371 | 1571 |
| ts | 2.1 | Service Weight incl.battery(see line6.5) | kg | 1800 | 2030 | 2240 | 2316 |
| WeightS | 2.2 | Axle loading,laden front/rear | kg | 420/2180 | 310/2840 | 450/3200 | 531/3595 |
| × | 2.3 | Axle loading,unladen front/rear | kg | 935/865 | 1090/860 | 1150/900 | 1189/937 |
| | 3.1 | Tyres:solid rubber,superelastic,pneumatic,polyurethane | | PU | PU | PU | PU |
| s.s | 3.2 | Tyre size, front | mm | Φ230×75 | Φ230×75 | Ф250×100 | Ф250×100 |
| Wheels, Chassis | 3.3 | Tyre size, rear | mm | Ф200×100 | Ф200×100 | Ф200×100 | Ф200×100 |
| ∣≱ีย | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1×/2 | 1×/2 | 1×/2 | 1×/2 |
| | 3.6 | Tread, front | b10 (mm) | 870 | 870 | 870 | 870 |
| | 4.2 | Height,mast lowered | h1 (mm) | 1892 | 1892 | 1892 | 1997 |
| | 4.4 | Lift | h₃ (mm) | 2700 | 2700 | 2700 | 2700 |
| | 4.9 | Height of tiller in drive position min./max. | h14(mm) | 1115/1420 | 1115/1420 | 1115/1420 | 1115/1420 |
| | 4.15 | Height, lowered | h13 (mm) | 35 | 35 | 35 | 45 |
| 2 | 4.19 | Overall length | lı (mm) | 24851) | 26121) | 28221) | 30321) |
| j. | 4.20 | Length to face of forks | I ₂ (mm) | 14151) | 1542¹) | 1752¹) | 1962¹) |
| Basic Dimensions | 4.21 | Overall width | b1/b2(mm) | 800/1030 | 800/1030 | 800/1030 | 800/1030 |
| Ë | 4.22 | Fork dimensions | s/e/l (mm) | 35/100/1070 | 35/100/1070 | 35/100/1070 | 45/100/1070 |
| Sic | 4.24 | Fork-carriage width | b₃(mm) | 700 | 700 | 700 | 700 |
| å | 4.25 | Distance between fork-arms | bs (mm) | 210-680 | 210-680 | 210-680 | 210-680 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 60 | 60 | 60 | 60 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2760 ¹⁾ | 2810¹) | 3019 ¹⁾ | 3228 ¹⁾ |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 28701) | 2920¹) | 31291) | 3339¹) |
| | 4.35 | Turning radius | Wa (mm) | 1380 | 1430 | 1630 | 1830 |
| Performance Data | 5.1 | Travel speed, laden/unladen | km/h | 5.5/6.0 | 5.5/6.0 | 5.5/6.0 | 5.5/6.0 |
| mar | 5.2 | Lift speed, laden/unladen | m/s | 0.160/0.235 | 0.145/0.220 | 0.135/0.230 | 0.110/0.180 |
| l fe | 5.3 | Lowering speed, laden/unladen | m/s | 0.200/0.200 | 0.200/0.200 | 0.200/0.200 | 0.200/0.200 |
| Per | 5.7 | Gradeability, laden/unladen | % | 6/10 | 6/10 | 6/10 | 6/10 |
| | 6.1 | Drive motor rating S2 60 min. | kW | 1.5 | 1.5 | 3 | 3 |
| Electric- motor | 6.2 | Lift motor rating at S3 15% | kW | 2.2 | 3.2 | 3.2 | 3.2 |
| le c | 6.4 | Battery voltage/nominal capacity K5 | (V)/(Ah) | 24/240 | 24/280 | 24/350 | 24/350 |
| | 6.5 | Battery weight | kg | 215 | 250 | 300 | 300 |
| Others | 8.1 | Type of drive control | | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI |

Note:1).Triplex mast +21mm

Specifications are subject to change without notice.

★ CE mod





0.8t/1.2t/1.6t Mast specification

| Туре | Fork lift height | Max. fork height (h3 +h13) | Mast lowered | Mast extended | Free lift | Capacity load capacity at 500mm | | |
|--|---------------------|-------------------------------|--------------|---------------|-----------|------------------------------------|------|------|
| | h₃ | (113 - 1113) | "" | 114 | | 0.8t | 1.2t | 1.6t |
| | mm | mm | mm | mm | mm | kg | kg | kg |
| | 2000 | 2035 | 1542 | 2542 | 0 | 800 | 1200 | 1600 |
| | 2500 | 2535 | 1792 | 3042 | 0 | 800 | 1200 | 1600 |
| | 2700 | 2735 | 1892 | 3242 | 0 | 800 | 1200 | 1600 |
| ž | 3000 | 3035 | 2042 | 3542 | 0 | 800 | 1200 | 1600 |
| Ĕ | 3300 | 3335 | 2192 | 3842 | 0 | 800 | 1200 | 1600 |
| Wide view mast | 3500 | 3535 | 2292 | 4042 | 0 | 800 | 1200 | 1600 |
| ĕ | 3600 | 3635 | 2342 | 4142 | 0 | 700 | 1200 | 1600 |
| de | 3700 | 3735 | 2392 | 4242 | 0 | 680 | 1180 | 1540 |
| ₹ | 3800 | 3835 | 2442 | 4342 | 0 | 660 | 1150 | 1480 |
| | 4000 | 4035 | 2642 | 4642 | 0 | 620 | 1100 | 1400 |
| | 4300 | 4335 | 2792 | 4942 | 0 | 530 | 1050 | 1340 |
| | 4500 | 4535 | 2892 | 5142 | 0 | 440 | 1000 | 1300 |
| | 2000 | 2035 | 1595 | 2595 | 1035 | 800 | 1200 | 1600 |
| > ti | 2500 | 2535 | 1845 | 3095 | 1285 | 800 | 1200 | 1600 |
| ë e e | 2700 | 2735 | 1945 | 3295 | 1385 | 800 | 1200 | 1600 |
| a _ × | 3000 | 3035 | 2095 | 3595 | 1535 | 800 | 1200 | 1600 |
| Wide view full free duplex mast | 3300 | 3335 | 2245 | 3895 | 1685 | 800 | 1200 | 1600 |
| ≥ . ₽ | 3500 | 3535 | 2345 | 4095 | 1785 | 800 | 1200 | 1600 |
| | 3600 | 3635 | 2395 | 4195 | 1835 | 700 | 1200 | 1600 |
| | 3500 | 3535 | 1844 | 4214 | 1165 | 800 | 1200 | 1600 |
| | 3700 | 3735 | 1909 | 4409 | 1235 | 680 | 1180 | 1540 |
| > ts | 4000 | 4035 | 2009 | 4709 | 1335 | 620 | 1100 | 1400 |
| ë e ma | 4300 | 4335 | 2109 | 5009 | 1435 | 530 | 1050 | 1340 |
| Wide view full free triplex mast | 4500 | 4535 | 2159 | 5159 | 1535 | 440 | 1000 | 1300 |
| 흥글호 | 4700 | 4735 | 2259 | 5459 | 1535 | 380 | 950 | 1220 |
| ≥ ‡ | 5000 | 5035 | 2354 | 5744 | 1645 | 300 | 800 | 1000 |
| | 5200 | 5235 | 2409 | 5909 | 1735 | _ | 680 | 850 |
| | 5500 | 5535 | 2509 | 6209 | 1835 | _ | 550 | 700 |

2.0t Mast specification

| Туре | Fork lift height | Max. fork height (h3 +h13) | Mast lowered h1 | Mast extended h4 | Free lift | Capacity load capacity at 500mm |
|--|---------------------|-------------------------------|--------------------|---------------------|-----------|------------------------------------|
| | h₃ | (113 - 1113) | | | | 2.0t |
| | mm | mm | mm | mm | mm | kg |
| | 2000 | 2045 | 1647 | 2647 | 0 | 2000 |
| | 2500 | 2545 | 1897 | 3147 | 0 | 2000 |
| | 2700 | 2745 | 1997 | 3347 | 0 | 2000 |
| Wide view mast | 3000 | 3045 | 2147 | 3647 | 0 | 2000 |
| Ĕ | 3300 | 3345 | 2297 | 3947 | 0 | 2000 |
| <u> </u> | 3500 | 3545 | 2397 | 4147 | 0 | 2000 |
| .₹ | 3600 | 3645 | 2447 | 4247 | 0 | 1950 |
| de | 3700 | 3745 | 2497 | 4347 | 0 | 1900 |
| ₹ | 3800 | 3845 | 2547 | 4447 | 0 | 1840 |
| | 4000 | 4045 | 2747 | 4747 | 0 | 1800 |
| | 4300 | 4345 | 2897 | 5047 | 0 | 1680 |
| | 4500 | 4545 | 2997 | 5247 | 0 | 1600 |
| | 2000 | 2045 | 1700 | 2700 | 1045 | 2000 |
| Wide view full free duplex mast | 2500 | 2545 | 1950 | 3200 | 1295 | 2000 |
| e e ma | 2700 | 2745 | 2050 | 3400 | 1395 | 2000 |
| a±a | 3000 | 3045 | 2200 | 3700 | 1545 | 2000 |
| 호크호 | 3300 | 3345 | 2350 | 4000 | 1695 | 2000 |
| ≥ . ₽ | 3500 | 3545 | 2450 | 4200 | 1795 | 2000 |
| | 3600 | 3645 | 2500 | 4300 | 1845 | 1950 |
| | 3500 | 3545 | 1944 | 4314 | 1175 | 2000 |
| | 3700 | 3745 | 2009 | 4509 | 1245 | 1900 |
| > ti | 4000 | 4045 | 2109 | 4809 | 1345 | 1800 |
| rje ma | 4300 | 4345 | 2209 | 5109 | 1445 | 1680 |
| Wide view full free triplex mast | 4500 | 4545 | 2259 | 5259 | 1545 | 1600 |
| 흥물호 | 4700 | 4745 | 2359 | 5559 | 1545 | 1480 |
| <i>≤</i> | 5000 | 5045 | 2454 | 5844 | 1655 | 1200 |
| | 5200 | 5245 | 2509 | 6009 | 1745 | 1000 |
| | 5500 | 5545 | 2609 | 6309 | 1845 | 800 |



A Series High Range Stand-on Pallet Stacker With Initial Lift

with capacities of 1,200 to 1,600kg

The A Series Pallet Stacker Truck is a new product developed for warehouse and logistics applications. With the latest AC control technology, it features excellent performance, easy operation, safety and reliability, and low maintenance cost, and is an ideal vehicle for loading, unloading, and handling palletized goods in warehouse, supermarket, and workshop. The A series pallet stacker with initial lift offers better reachability with its lifting arms.



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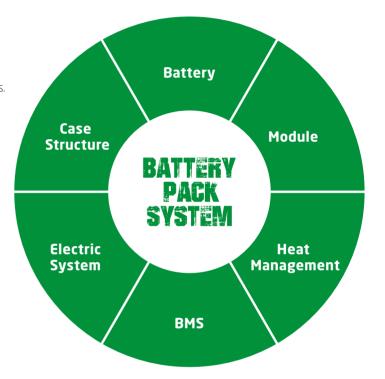
HANGCHA provides Li-lon battery (LiFePO4) with 5 years or 10000 hours warranty.



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.





Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CDD12-AC2S-LI* | CDD14-AC2S-LI* | CDD16-AC2S-LI* |
|-------------------------|------|----------------|----------------|----------------|
| Li-Ion battery | V/Ah | 24/125 | 24/125 | 24/125 |
| Li-Ion battery,Optional | V/Ah | 24/228 | 24/228 | 24/228 |
| Titans charger | | SPC-24100 | SPC-24100 | SPC-24100 |

Note: * CE model

Reliability

- / Four-pivots and low-gravity-center design and the high-strength steel plate framed structure feature large residual load capacity, and long service life.
- / All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
- / Non-contact proximity switch features long service life and reliable operation.
- / Electronic lifting limitation eliminates overflow of the hydraulic power unit, which is more energy efficient, and can protect the motor of power unit.
- / The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.
- / Stamping molded fork has higher strength and impact resistance.
- / Power plug is fastened to truck body, which can avoid damage of plug when battery is replaced.
- / The battery is fixed securely, and battery cover is supported with flexible material, which reduces vibration and noise during operation.



Safety

- / Traveling speed will be automatically reduced after fork lifting 500mm.
- / Turning speed is automatically reduced when steering.
- / Release braking, reverse braking, and three types of emergency braking can ensure safety of traveling.
- / Anti-sliding function on slope can ensure safety of operation.
- / The belly button on top of operating handle can avoid the driver from injury effectively in case of emergency during backward driving of the pallet truck.
- / The soft landing system reduces declining speed automatically when height from ground to fork is less than 100mm, which provides effective protection for goods.

Maintenance

103

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The brushless, maintenance-free AC steering motor reduces operation cost significantly (optional).
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
- / All rotating shafts are equipped with lubricating sleeve and oil cup, which is convenient for maintenance and has a long service life.



Appearance

- / The A series pallet stacker with initial lift is completed with specialized industrial design of appearance. The entire truck features smooth lines and affluent sense of movement, with full consideration being given to ergonomics, in accord with the latest appearance design trend.
- / It is manufactured with steel plate stamping and injection molding technologies, solid and durable, in compliance with environmental requirements.

High Performance

- / Center stand-on driving mode and ESP(Electric Steering Power)system offer easier and more flexible operation.
- / The arm initial lifting function offers better reachability. The upper and lower double pallet handling design not only can meet requirements of stacking operation, but also brings higher material handling efficiency.
- / Lifting and lowering stepless speed regulation of the fork is a standard configuration.
- / The high efficiency traction motor realizes high driving speed and strong climbing performance.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and maintenance-free.
- / The latest ZAPI AC control system realizes accurate and stable control, and higher efficiency.
- / The CANBUS structure makes communication of the entire machine faster and more reliable.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Hydraulic power unit, switches, plug connectors, battery condition meter, timer and other important parts are all of renowned domestic and abroad brands.

Comfort

- / The lower vibrational pedal offers much higher driving comfort, and reduces fatigue of long-duration operation.
- / The REMA tiller made in Germany is simple but beautiful, and all operations can be done easily with one hand.
- / The tortoise speed switch with light allows the truck to move at slow speed more conveniently, and can stack goods even in confined space.
- / The optimized truck structure guarantees excellent visibility, and easy access and exit of pallet.
- / The design of narrow body with large round corners makes the truck more suitable for operation in concentrated goods shelves, and the wedge-shaped design of truck base offers much higher passing ability.
- / Different distance between fork-arms and fork length are optional, being suitable for handling of various pallets.
- / Side roll out battery can realize easy and fast replacement (optional).



Pama tillar



The integrated stamping molded guardra



Back cover can be opened fully, and a components and parts are clear at a glance, which is very convenient for maintenance of the entire machine



landem load wheel 104

Standard Specification

/ AC driving motor / Fork length 1150mm / ZAPI AC controller / Outer distance between fork-arms 570mm / REMA tiller / Electronic lifting limitation / Imported hydraulic power unit / Soft landing system / Multi-function handle of CAN bus / Pedal / Emergency power off switch / Horn / Multi-function battery condition meter / Battery / Tandem load wheel / EPS system / Initial lift 125mm **Options** / Various imported and home-made batteries / AC steering motor / Different mast height (see parameter list for details) / Fork length 1220/1600 / Outer distance of forks 600/680mm / Side roll out battery / Automatic battery charger / Load backrest / Mast shield / Lithium battery

1.2t/1.4t/1.6t Mast specification

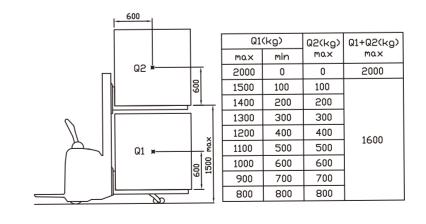
| Туре | Fork lift height | Max.fork height | Mast lowered | Mast extended | Free lift height | Load | d capacity at 600 | 0mm |
|------------------------|------------------|-----------------|--------------|---------------|------------------|------|-------------------|------|
| .37- | 113 | (h3+h13) | h1 | 114 | | 1.2t | 1.4t | 1.6t |
| | mm | mm | mm | mm | mm | kg | kg | kg |
| | 2000 | 2090 | 1582 | 2582 | 90 | 1200 | 1400 | 1600 |
| | 2500 | 2590 | 1832 | 3082 | 90 | 1200 | 1400 | 1600 |
| # | 2700 | 2790 | 1932 | 3282 | 90 | 1200 | 1300 | 1500 |
| mas | 3000 | 3090 | 2082 | 3582 | 90 | 1130 | 1130 | 1200 |
| Wide view duplex mast | 3300 | 3390 | 2232 | 3882 | 90 | 950 | 950 | 1000 |
| <u> </u> | 3500 | 3590 | 2332 | 4082 | 90 | 900 | 900 | 940 |
| 3 | 3600 | 3690 | 2382 | 4182 | 90 | 890 | 890 | 930 |
| ×ie | 3700 | 3790 | 2432 | 4282 | 90 | 850 | 850 | 900 |
| ide | 3800 | 3890 | 2482 | 4382 | 90 | 840 | 840 | 890 |
| | 4000 | 4090 | 2682 | 4682 | 90 | 800 | 800 | 850 |
| | 4300 | 4390 | 2832 | 4982 | 90 | 750 | 750 | 800 |
| | 4500 | 4590 | 2932 | 5182 | 90 | 700 | 700 | 750 |
| st | 2000 | 2090 | 1635 | 2635 | 1090 | 1200 | 1400 | 1600 |
| Full free duplex mast | 2500 | 2590 | 1885 | 3135 | 1340 | 1200 | 1400 | 1600 |
| l se | 2700 | 2790 | 1985 | 3335 | 1440 | 1200 | 1300 | 1500 |
| ļ ģ | 3000 | 3090 | 2135 | 3635 | 1590 | 1130 | 1130 | 1200 |
| ee e | 3300 | 3390 | 2285 | 3935 | 1740 | 950 | 950 | 1000 |
| <u> </u> | 3500 | 3590 | 2385 | 4135 | 1840 | 900 | 900 | 940 |
| 3 | 3600 | 3690 | 2435 | 4235 | 1890 | 890 | 890 | 930 |
| | 3500 | 3590 | 1884 | 4254 | 1220 | 890 | 890 | 930 |
| ts | 3700 | 3790 | 1949 | 4449 | 1290 | 850 | 850 | 900 |
| E E | 4000 | 4090 | 2049 | 4749 | 1390 | 800 | 800 | 850 |
| Full free triplex mast | 4300 | 4390 | 2149 | 5049 | 1490 | 750 | 750 | 800 |
| ļ ij | 4500 | 4590 | 2199 | 5199 | 1590 | 700 | 700 | 750 |
| e e | 4700 | 4790 | 2299 | 5499 | 1590 | 650 | 650 | 700 |
| = | 5000 | 5090 | 2394 | 5784 | 1700 | 600 | 600 | 650 |
| ٣ ـ | 5200 | 5290 | 2449 | 5949 | 1790 | 550 | 550 | 600 |
| | 5500 | 5590 | 2549 | 6249 | 1890 | 450 | 450 | 500 |

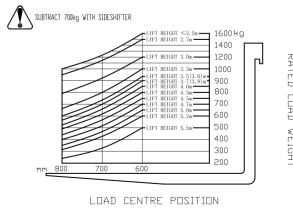
A Series High Range Stand-on Pallet Stacker With Initial Lift

| | | Manufacturer | 1 | | HANGCHA GROUP CO.,LTD. | |
|---------------------|------|--|----------------------|---------------|------------------------|---------------|
| | | | | CDD12-AZ3S-L | CDD14-AZ3S-L | CDD16-AZ3S-L |
| i.S | 1.2 | Manufacturer's type designition | | CDD12-AC2S-L* | CDD14-AC2S-L* | CDD16-AC2S-L* |
| Characteristics | 1.3 | Drive (Drive: electric (battery or mains), diesel, petrol, fuel gas) | | electric | electric | electric |
| l g | 1.4 | Operator type (hand, pedestrian, standing, seated, order-picker) | | standing | standing | standing |
| arg | 1.5 | Load capacity | Q (kg) | 1200 | 1400 | 1600 |
| 0 | 1.6 | Load centre distance | C(mm) | 600 | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x(mm) | 748 | 748 | 748 |
| | 1.9 | Wheelbase | y(mm) | 1507 | 1507 | 1507 |
| Weights | 2.1 | Service weight | kg | 1295 | 1300 | 1350 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | polyurethane | polyurethane | polyurethane |
| ν ₀ | 3.2 | Tyre size, front | | Φ230×75 | Ф230×75 | Ф230×75 |
| , yre | 3.3 | Tyre size, rear | | Φ85×70 | Φ85×70 | Φ85×70 |
| l sg1 | 3.4 | Additional wheels (dimensions) | | Φ140×55 | Φ140×55 | Φ140×55 |
| Wheels&Tyres | 3.5 | Wheels, number front rear (x=driven wheels) | | 1x+1/4 | 1x+1/4 | 1x+1/4 |
| ₹ . | 3.6 | Tread, front | b ₁₀ (mm) | 520 | 520 | 520 |
| | 3.7 | Tread, rear | b11(mm) | 385 | 385 | 385 |
| | 4.2 | Height, mast lowered | h1(mm) | 1932 | 1932 | 1932 |
| | 4.3 | Free lift | h2(mm) | 0 | 0 | 0 |
| | 4.4 | Lift | h₃(mm) | 2700 | 2700 | 2700 |
| | 4.5 | Height, mast extended | h4(mm) | 3282 | 3282 | 3282 |
| | 4.6 | Initial lift | hs(mm) | 125 | 125 | 125 |
| <u>~</u> | 4.15 | Height, lowered | h13(mm) | 90 | 90 | 90 |
| Dimensions | 4.19 | Overall length (pedal folded) | l ₁ (mm) | 2135 | 2135 | 2135 |
| l en | 4.20 | Length to face of forks | I ₂ (mm) | 985 | 985 | 985 |
| l ii | 4.21 | Overall width | b1(mm) | 800 | 800 | 800 |
| | 4.22 | Fork dimensions DIN ISO 2331Fork dimensions | s/e/l(mm) | 65/185/1150 | 65/185/1150 | 65/185/1150 |
| | 4.25 | Distance between fork-arms | | 570 | 570 | 570 |
| | 4.32 | Ground clearance, centre of wheelbase | m2(mm) | 25 | 25 | 25 |
| | 4.33 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2600 | 2600 | 2600 |
| | 4.34 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2550 | 2550 | 2550 |
| | 4.35 | Turning radius | Wa(mm) | 1745 | 1745 | 1745 |
| a | 5.1 | Travel speed, unladen | km/h | 7 | 7 | 7 |
| Performance | 5.2 | Lift speed, laden/unladen | m/s | 0.135/0.210 | 0.165/0.325 | 0.135/0.250 |
| Ĕ | 5.3 | Lowering speed, lade/unladen | m/s | 0.260/0.165 | 0.260/0.165 | 0.260/0.165 |
| Fi | 5.7 | Gradeability, laden/unladen | % | 10/16 | 10/16 | 8/16 |
| ۵ | 5.10 | Service brake | | electric | electric | electric |
| . | 6.1 | Drive motor rating S2 60 min | kW | 2.2 | 2.2 | 2.2 |
| in tri | 6.2 | Lift motor rating at S3 15 % | kW | 2.2 | 3.2 | 3.2 |
| Electric- engine | 6.3 | Battery according to DIN 43531/35/36 A, B, C, no | | 4DB280 | 4DB280 | 4DB340 |
| | 6.4 | Battery voltage/nominal capacity K5 | | 24/280 | 24/280 | 24/340 |
| Other | 8.1 | Type of drive unit | | AC Control | AC Control | AC Control |

Note: * CE model

CAPACITY 1.6T







A Series High Range Stand-on Pallet Stacker With Reach Fork

with capacities of 1,200 to 1,600kg

The A series pallet stacker with reach fork moves goods forward and backward with a scissor fork extension system. It acts as a counterbalanced stacker when its fork is extended, which can handle non-standard pallets, enclosed pallets, and enclosed shelves easily; and acts as a straddle stacker when its fork is retracted, which can operate flexibly in narrow passage.

High Performance

- / EPS (Electric Power Steering)system offer easier and more flexible operation.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The latest CURTIS AC / ZAPI AC control system realizes accurate and stable control, and higher efficiency.
- / The CANBUS structure makes communication of the entire machine faster and more reliable.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Switches, plug connectors, meters, and other important parts are all imported from abroad, with excellent performance and reliable quality.
- / Fork tilting function, and load backrest realize safer loading and unloading of goods.
- / The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.

Safety

- / Traveling speed will be automatically reduced after fork lifting 500mm.
- / Turning speed is automatically reduced when steering.
- / The integrated stamping molded guardrail offers better protection for the operator.
- / Release braking, reverse braking and emergency braking can ensure safety of traveling.
- / Anti-sliding function on slope can ensure safety of operation.
- / The belly button on top of operating tiller can avoid the driver from injury effectively.
- / The soft landing system reduces lowering speed automatically when height from ground to fork is less than 100mm, which provides effective protection for goods.





Multi-function tiller



Forks move forward by the scissor structure



Back cover can be opened fully



Proportional controlled forks can be operated more accurately





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

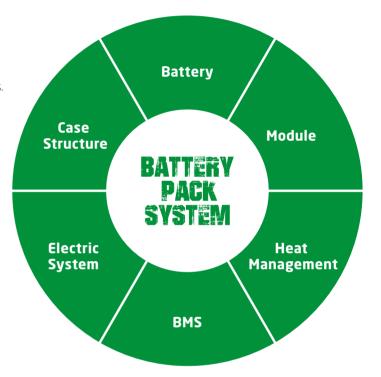




INNOVATIVE SOLUTIONS NEW POWER NOW

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.





Lead-acid batteries
8-10 hours 100%

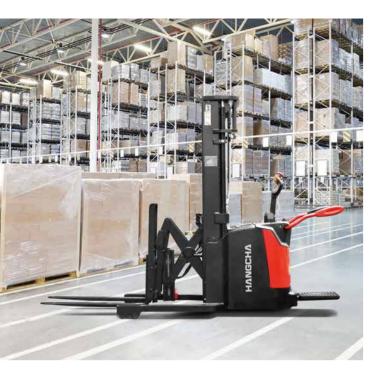
Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CQDB12-AC2S-IJ* | CQDB16-AC2S-IJ* |
|-------------------------|------|-----------------|-----------------|
| Li-lon battery | V/Ah | 24/125 | 24/125 |
| Li-lon battery,Optional | V/Ah | 24/228 | 24/228 |
| Titans charger | | SPC-24100 | SPC-24100 |

Note: * CE model



Comfort

- / The vibration-reduction design of the pedal reduces fatigue of long-duration operation.
- / New designed tiller has beautiful appearance, and function buttons for comfortable operation.
- / The standard configuration of tortoise speed driving function allows the truck to move at slow speed more easily.

Reliability

- / All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
- / Non-contact proximity switch features long service life and reliable operation.
- / Power plug is fastened to truck body, which can avoid damage of plug due to impact when battery is lifted for installation.
- / Flexible connections of the battery can avoid disconnection fault of battery because of lasting vibration.

Maintenance

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
- / Back cover can be opened fully, and all components and parts are clear at a glance, which is very convenient for maintenance of the entire machine.

Standard specification

- / AC driving motor
- / CURTIS / ZAPI controller for traction motor
- / Controller for pump motor
- / EPS(Electric Power Steering) system
- / Automatic deceleration at turns
- / Proportional speed regulation for all fork operations
- / Pedal and guardrail
- / Emergency power off switch
- / Multi-function battery condition meter
- / High-performance loading wheels
- / Fork length 1070mm
- / Traveling speed will be atuomatically reduced after fork lifting 500mm
- / Adjustable outer distance of forks within the range of 200-896mm
- / Battery capacity: 280Ah for 1.2t model, 340Ah for 1.6t model
- / Fork tilt forward / backward 3°/5°
- / Load backrest
- / 2.7m duplex mast with double lifting cylinders
- / Soft landing system
- / Multi-function tiller
- / Reach distance of fork:590mm

Options

- / Mast height: 2500-4500mm for duplex mast, 3500-5500mm for triplex mast
- / Various fork lengths
- / Sideshift move LH/RH:60mm



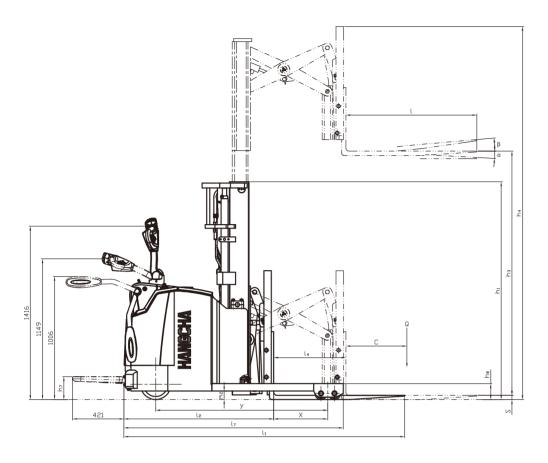
A Series High Range Stand-on Pallet Stacker With Reach Fork

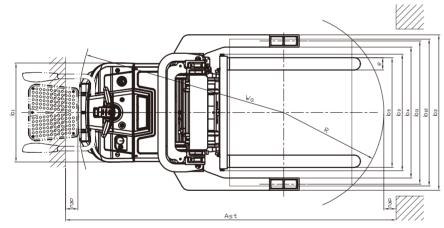
| | 1.1 | Manufacturer | | HANGCHA GRO | OUP CO.,LTD. |
|-------------------------|--------|---|----------------------|-------------------------|-------------------------|
| | | | | CQDB12-AC2S-J* | CQDB16-AC2S-J* |
| ΔO | 1.2 | Manufacturer's type designition | | CQDB12-AZ3S-J | CQDB16-AZ3S-J |
| 늁。 | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric | Electric |
| Distinguishing marks | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Standing | Standing |
| ijΕ | 1.5 | Rated capacity/rated load | Q (kg) | 1200 | 1600 |
| ö | 1.6 | Load centre distance | c(mm) | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 442 | 442 |
| | 1.9 | Wheelbase | y (mm) | 1384 | 1406 |
| Weight | 2.1 | Service Weight | kg | 1870 | 2000 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane | Polyurethane |
| Sis | 3.2 | Tyre size, front | mm | Ф230×75 | Φ250×100 |
| has | 3.3 | Tyre size, rear | mm | Φ100×70 | Φ100×70 |
| S, C | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1×/4 | 1×/4 |
| Tyres,chassis | 3.6 | Tread, front | b ₁₀ (mm) | 0 | 0 |
| • | 3.7 | Tread, rear | b11 (mm) | 1170 | 1170 |
| | 4.1 | Tilt of fork carriage forward/backward | α/β(°) | 3/5 | 3/5 |
| | 4.2 | Height ,mast lowered | h1 (mm) | 2040 | 2040 |
| | 4.4 | Lift | h₃ (mm) | 2700 | 2700 |
| | 4.5 | Height, mast extended | h4 (mm) | 3752 | 3752 |
| | 4.8 | stand height | h ₇ (mm) | 185 | 185 |
| | 4.10 | Height of wheel arms | hs (mm) | 130 | 130 |
| | 4.19 | Overall length | lı (mm) | 2295 | 2295 |
| | 4.20 | Length to face of forks | Iz (mm) | 1225 | 1225 |
| Suc | 4.21 | Overall width | b1/b2(mm) | 800/1270 | 800/1270 |
| Dimensions | 4.22 | Fork dimensions | s/e/I (mm) | 35/100/1070 | 35/100/1070 |
| me | 4.24 | Fork-carriage width | b₃(mm) | 920 | 920 |
| ā | 4.25 | Distance between fork-arms | bs (mm) | 200-896 | 200-896 |
| | 4.26 | Distance between wheel arms | b4(mm) | 1070 | 1070 |
| | 4.28 | Reach distance | I4(mm) | 590 | 590 |
| | 4.32 | Ground clearance, centre of wheelbase | m ₂ (mm) | 70 | 70 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2701 | 2701 |
| | 4.34.2 | Aisle width for pallets 1000 x 1200 lengthways | Ast (mm) | 2739 | 2739 |
| | 4.35 | Turning radius | Wa (mm) | 1682 | 1682 |
| | 4.33 | | I ₇ (mm) | 1794 | 1794 |
| | 5.1 | Length across wheel arms Travel speed, laden/unladen | km/h | 5.5/6.0 | 5.5/6.0 |
| a | 5.2 | Lift speed, laden/unladen | m/s | 0.100/0.130 | 0.090/0.120 |
| anc. | 5.3 | - | | 0.100/0.130 | 0.090/0.120 |
| Performance data | 5.3 | Lowering speed, laden/unladen Reaching speed, laden/unladen | m/s m/s | | |
| erfc | 5.4 | | m/s % | 0.115/0.165 | 0.115/0.165 |
| ۵. | 5.10 | Max.gradeability, laden/unladen Service brake | 70 | 6/10 | 6/10 |
| | | | 10.1 | Electromagnetic braking | Electromagnetic braking |
| <u>ت</u> ن | 6.1 | Drive motor rating S2 60 min | kW | 1.5 | 3 |
| Electric- engine | 6.2 | Lift motor rating at S3 15% | kW | 3 | 3 |
| e E | 6.4 | Battery voltage/nominal capacity K5 | V/Ah | 24/280 | 24/340 |
| | 6.5 | Battery weight | kg | 250 | 280 |
| E E | 8.1 | Type of drive control | | AC CURTIS | AC CURTIS |
| Addition data | 10- | 6 | | AC ZAPI | AC ZAPI |
| Ā | 10.5 | Steering design | | EPS | EPS |

Note: * CE mod

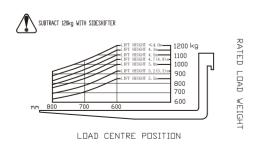
1.2t/1.6t Mast specification

| Turon | Fork lift height | Mast lowered | Mast extended | Free lift height | | acity ty at 600mm |
|-------------------------------------|------------------|----------------|----------------|------------------|------|----------------------|
| Туре | h ₃ | h ₁ | h ₄ | | 1.2t | 1.6t |
| | mm | mm | mm | mm | kg | kg |
| | 2500 | 1940 | 3552 | 0 | 1200 | 1600 |
| | 2700 | 2040 | 3752 | 0 | 1200 | 1600 |
| | 3000 | 2190 | 4052 | 0 | 1200 | 1600 |
| st | 3300 | 2340 | 4352 | 0 | 1200 | 1600 |
| Wide view mast | 3500 | 2440 | 4552 | 0 | 1200 | 1600 |
| <u>ië</u> | 3600 | 2490 | 4652 | 0 | 1200 | 1550 |
| e V | 3700 | 2540 | 4752 | 0 | 1200 | 1500 |
| ĕ | 3800 | 2590 | 4852 | 0 | 1200 | 1500 |
| | 4000 | 2790 | 5052 | 0 | 1200 | 1430 |
| | 4300 | 2940 | 5352 | 0 | 1150 | 1360 |
| | 4500 | 3040 | 5552 | 0 | 1100 | 1300 |
| | 3500 | 1975 | 4552 | 923 | 1200 | 1600 |
| | 3700 | 2040 | 4752 | 988 | 1200 | 1500 |
| = ast | 4000 | 2140 | 5052 | 1088 | 1200 | 1430 |
| 5 × 5 E | 4300 | 2240 | 5352 | 1188 | 1150 | 1360 |
| zie. Ple | 4500 | 2290 | 5552 | 1238 | 1100 | 1300 |
| de Ti | 4700 | 2390 | 5752 | 1338 | 1050 | 1220 |
| Wide view full free triplex mast | 5000 | 2490 | 6062 | 1438 | 1000 | 1130 |
| - | 5200 | 2540 | 6252 | 1488 | 930 | 1050 |
| | 5500 | 2640 | 6552 | 1588 | 850 | 950 |

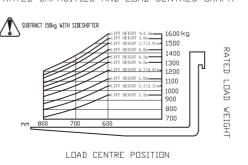




RATED CAPACITIES AND LOAD CENTRES GRAPH



RATED CAPACITIES AND LOAD CENTRES GRAPH





A Series High Range Stand-on Pallet Stacker With Mast Move

with capacities of 1,200 to 2,000kg

The truck combines benefits of regular stacker and counterbalanced stacker. It can be used for non-standard pallets, enclosed pallets, andenclose shelves. The mast can be retracted into truck body, which reduces passage width required for operation significantly, and the stacker is an ideal vehicle for operation in narrow passage. Cutting-edge AC control technology applied for the truck offers excellent performance, comfortable operation, safety and reliability, and low maintenance cost.





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

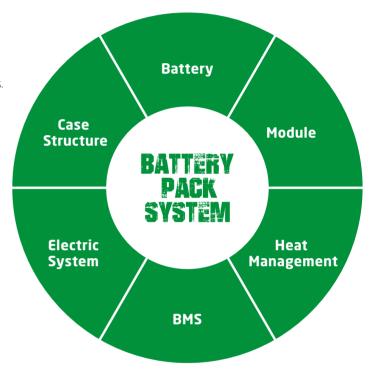




INNOVATIVE SOLUTIONS NEW POWER NOW

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.





Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CQDB12-AC2S-I* | CQDB16-AC2S-I* | CQDB20-AC2S-I* |
|-------------------------|------|----------------|----------------|----------------|
| Li-lon battery | V/Ah | 24/125 | 24/125 | 24/125 |
| Li-lon battery,Optional | V/Ah | 24/228 | 24/228 | 24/228 |
| Titans charger | | SPC-24100 | SPC-24100 | SPC-24100 |

Note: * CE model

 $115 \hspace{3.1em} 116$



Safety

- / Traveling speed will be automatically reduced after fork lifting 500mm
- / Turning speed is automatically reduced when steering.
- / The integrated stamping molded guardrail offers better protection for the operator.
- / Release braking, reverse braking and emergency braking can ensure safety of traveling.
- / Anti-sliding function on slope can ensure safety of operation.
- / The belly button on top of operating handle can avoid the driver from injury effectively.
- / The soft landing system reduces lowering speed automatically when height from ground to fork is less than 100mm, which provides effective protection for goods.

Comfort

- / The vibration-reduction design of the pedal reduces fatigue of long-duration operation.
- / Operating tiller has beautiful appearance, and function buttons for comfortable operation.
- / The standard configuration of tortoise speed driving function allows the truck to move at slow speed more easily.
- / Optimized mast structure design offers excellent field of view for operations, which is easy for access and exit pallet.
- / The electronic limit system can reduce vibration and noise when mast move forward.

Options

- / Mast height: 2000-4500mm for duplex mast, 3500-5500mm for triplex mast
- / Various fork lengths
- / Sideshift move LH/RH ±100mm

Standard Specification

- / AC driving motor
- / CURTIS AC / ZAPI AC controller
- / Controller for pump motor
- / EPS (Electric Power Steering) system
- / Automatic deceleration at turns
- / Proportional speed regulation for all fork operations
- / Pedal and guardrail
- / Emergency power off switch
- / Multi-function battery condition meter
- / High-performance loading wheels, addtional wheels
- / Fork length 1070mm
- / Adjustable outer distance of forks within the range of 200-750mm
- / Fork tilt forward / backward: 3° / 5°
- / Load backrest
- / 2.7m duplex mast with double lifting cylinders
- / Soft landing system
- / Multi-function tiller
- / Traveling speed will be automatically reduced after fork lifting 500mm
- / Reach distance of fork: 590mm
- / Battery capacity: 280Ah for 1.2t model, 340Ah for 1.6t model
- / The electronic limitation to be acted when mast move forward



High Performance

- / EPS(Electric Power Steering) is standard specification, which provides flexible operation.
- / Pump motor realize proportional control all operation of fork by the controller, thus more accurate fork operation.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The latest CURTIS AC / ZAPI AC control system realizes accurate, stable, and efficient control.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Switches, plug connectors, meters, and other important parts are all imported from abroad, with excellent performance and reliable quality.
- / Standard featured fork tilting and load backrest realize safer loading and unloading of goods.
- / The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.

Reliability

- / Three-pivots and low-gravity-center design and the high-strength steel plate framed structure feature large residual load capacity, and long service life.
- / All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
- / Non-contact proximity switch features long service life and reliable operation.
- / The mast is made of H-shaped steel channels, which offer better rigidity and stability in comparison with C-shaped channels.
- / Reach track of mast is made of high-strength steel channels, with longer service life.
- / Power plug is fastened to truck body, which can avoid damage of plug due to impact when battery is lifted for installation.
- / Flexible connections of the battery can avoid disconnection fault of battery because of lasting vibration.

Maintenance

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
- / Back cover can be opened fully, and all components and parts are clear at a glance, which is very convenient for maintenance of the entire machine.



Fork tilt F/R: 3° / 5°



EPS (Electric Power Steering) is standard specification



BUCHER hydraulic uni



ulti-function tiller

A Series High Range Stand-on Pallet Stacker With Mast Move

| | 1.1 | Manufacturer | | | HANGCHA GROUP CO.,LTD. | |
|-------------------------|--------|---|---------------------|-------------------------|-------------------------|-------------------------|
| | | | | CQDB12-AC2S* | CQDB16-AC2S* | CQDB20-AC2S* |
| 20 | 1.2 | Manufacturer's type designition | | CQDB12-AZ3S | CQDB16-AZ3S | CQDB20-AZ3S |
| l if S | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric | Electric | Electric |
| Distinguishing marks | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Standing | Standing | Standing |
| i i i i | 1.5 | Rated capacity/rated load | Q(kg) | 1200 | 1600 | 2000 |
| ă | 1.6 | Load centre distance | c(mm) | 500 | 500 | 500 |
| | 1.8 | Load distance, centre of load axle to fork | x (mm) | 450 | 450 | 440 |
| | 1.9 | Wheelbase | y (mm) | 1311 | 1311 | 1511 |
| Weight | 2.1 | Service weight | kg | 1800 | 2000 | 2200 |
| N | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane | Polyurethane | Polyurethane |
| issi | 3.2 | Tyre size, front | mm | φ250×80 | φ250×80 | φ250×80 |
| Ę | 3.3 | Tyre size, rear | mm | φ210×85 | φ210×85 | φ210×85 |
| Tyres,chassis | 3.5 | Wheels, number front/rear (×=driven wheels) | | 1×/2 | 1×/2 | 1×/2 |
| 2 | 3.7 | Tread, rear | b11 (mm) | 981 | 981 | 981 |
| | 4.1 | Tilt of fork carriage forward/backward | α/β(°) | 3/5 | 3/5 | 3/5 |
| | 4.2 | Height, mast lowered | h1 (mm) | 1930 | 1930 | 2035 |
| | 4.4 | Lift | h₃ (mm) | 2700 | 2700 | 2700 |
| | 4.5 | Height, mast extended | h ₄ (mm) | 3655 | 3655 | 3655 |
| | 4.8 | Stand height | h7(mm) | 170 | 170 | 170 |
| | 4.10 | Height of wheel arms | hs (mm) | 226 | 226 | 226 |
| | 4.19 | Overall length | lı (mm) | 2202 | 2202 | 2412 |
| Suc | 4.20 | Length to face of forks | Iz (mm) | 1132 | 1132 | 1342 |
| Dimensions | 4.21 | Overall width | b1/b2(mm) | 1040/1074 | 1040/1074 | 1040/1074 |
| me . | 4.22 | Fork dimensions | s/e/l (mm) | 35/100/1070 | 35/100/1070 | 45/100/1070 |
| □ | 4.24 | Fork-carriage width | b₃(mm) | 902 | 902 | 902 |
| | 4.25 | Distance between fork-arms | bs (mm) | 200-750 | 200-750 | 200-750 |
| | 4.26 | Distance between wheel arms | b4(mm) | 772 | 772 | 772 |
| | 4.28 | Reach distance | I4(mm) | 590 | 590 | 590 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 55 | 55 | 55 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2617 | 2617 | 2817 |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2654 | 2654 | 2854 |
| | 4.35 | Turning radius | Wa (mm) | 1600 | 1600 | 1800 |
| | 4.37 | Length across wheel arms | lz(mm) | 1704 | 1704 | 1904 |
| | 5.1 | Travel speed, laden/unladen | km/h | 5.5/6.0 | 5.5/6.0 | 5.5/6.0 |
| 9 | 5.2 | Lift speed, laden/unladen | m/s | 0.140/0.200 | 0.110/0.170 | 0.100/0.155 |
| Performance data | 5.3 | Lowering speed, laden/unladen | m/s | 0.190/0.155 | 0.175/0.130 | 0.175/0.130 |
| - ja B | 5.4 | Reaching speed, laden/unladen | m/s | 0.100/0.100 | 0.100/0.100 | 0.100/0.100 |
| Per | 5.8 | Max.gradeability, laden/unladen | % | 10/16 | 8/15 | 6/14 |
| | 5.10 | Service brake | | Electromagnetic braking | Electromagnetic braking | Electromagnetic braking |
| ن م | 6.1 | Drive motor rating S2 60 min | kW | 1.5 | 1.5 | 1.5 |
| Electric- engine | 6.2 | Lift motor rating at S3 15% | kW | 3 | 3 | 3 |
| Elec en | 6.4 | Battery voltage/nominal capacity K5 | V/Ah | 24/280 | 24/340 | 24/340 |
| | 6.5 | Battery weight | kg | 250 | 280 | 280 |
| Addition data | 8.1 | Type of drive control | | AC CURTIS AC ZAPI | AC CURTIS AC ZAPI | AC CURTIS AC ZAPI |
| Åg ∣ | 10.5 | Steering design | | EPS | EPS | EPS |
| | | 1 0 | 1 | | | |

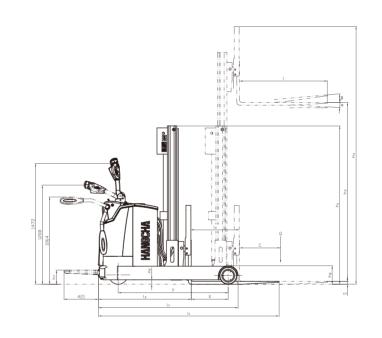
Note: * CE model

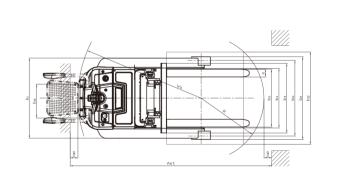
1.2t/1.6t Mast specification

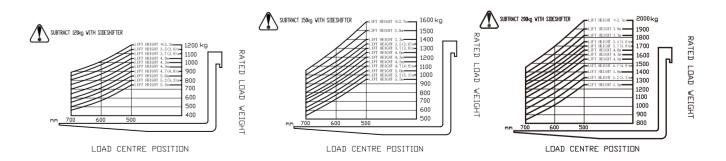
| | | | | | Сара | acity |
|-------------------------------------|------------------------|--------------------|---------------------|------------------|------------------------|-------|
| Туре | Fork lift height h3 | Mast lowered h1 | Mast extended h4 | Free lift height | Load capacity at 500mm | |
| -34- | 115 | "" | 114 | | 1.2t | 1.6t |
| | mm | mm | mm | mm | kg | kg |
| | 2000 | 1580 | 2955 | 105 | 1200 | 1600 |
| | 2500 | 1830 | 3455 | 105 | 1200 | 1600 |
| # | 2700 | 1930 | 3655 | 105 | 1200 | 1600 |
| set | 3000 | 2080 | 3955 | 105 | 1200 | 1500 |
| > | 3300 | 2230 | 4255 | 105 | 1200 | 1400 |
| Wide view mast | 3500 | 2330 | 4455 | 105 | 1150 | 1350 |
| ه > | 3600 | 2380 | 4555 | 105 | 1150 | 1350 |
| Ē | 3700 | 2430 | 4655 | 105 | 1100 | 1300 |
| \$ | 3800 | 2480 | 4755 | 105 | 1100 | 1300 |
| | 4000 | 2680 | 4955 | 105 | 1050 | 1250 |
| | 4300 | 2830 | 5255 | 105 | 1000 | 1200 |
| | 4500 | 2930 | 5455 | 105 | 950 | 1150 |
| | 3500 | 1875 | 4455 | 920 | 1150 | 1350 |
| # | 3700 | 1940 | 4655 | 985 | 1100 | 1300 |
| 를 ä | 4000 | 2040 | 4955 | 1085 | 1050 | 1250 |
| ₹ <u> </u> | 4300 | 2140 | 5255 | 1185 | 1000 | 1200 |
| je je | 4500 | 2190 | 5455 | 1235 | 950 | 1150 |
| Wide view full free triplex mast | 4700 | 2290 | 5655 | 1335 | 900 | 1100 |
| e did | 5000 | 2390 | 5965 | 1435 | 850 | 1050 |
| > ₹ | 5200 | 2440 | 6155 | 1485 | 800 | 1000 |
| | 5500 | 2540 | 6455 | 1585 | 750 | 950 |

2.0t Mast specification

| | | | | | Capacity |
|-------------------------------------|------------------------|--------------------|---------------------|------------------|------------------------|
| Туре | Fork lift height h3 | Mast lowered h1 | Mast extended h4 | Free lift height | Load capacity at 500mm |
| -34-2 | III | 111 | 114 | | 2.0t |
| | mm | mm | mm | mm | kg |
| | 2000 | 1685 | 2955 | 115 | 2000 |
| | 2500 | 1935 | 3455 | 115 | 2000 |
| H ## | 2700 | 2035 | 3655 | 115 | 2000 |
| mast | 3000 | 2185 | 3955 | 115 | 1900 |
| > = | 3300 | 2335 | 4255 | 115 | 1820 |
| view | 3500 | 2435 | 4455 | 115 | 1750 |
| 2 | 3600 | 2485 | 4555 | 115 | 1750 |
| Wide | 3700 | 2535 | 4655 | 115 | 1700 |
| | 3800 | 2585 | 4755 | 115 | 1700 |
| | 4000 | 2785 | 4955 | 115 | 1650 |
| | 4300 | 2935 | 5255 | 115 | 1600 |
| | 4500 | 3035 | 5455 | 115 | 1550 |
| | 3500 | 1975 | 4455 | 1020 | 1750 |
| H # | 3700 | 2040 | 4655 | 1085 | 1700 |
| ≡ ĕ | 4000 | 2140 | 4955 | 1185 | 1650 |
| > × | 4300 | 2240 | 5255 | 1285 | 1600 |
| je je | 4500 | 2290 | 5455 | 1335 | 1550 |
| Wide view full free triplex mast | 4700 | 2390 | 5655 | 1435 | 1480 |
| P e | 5000 | 2485 | 5965 | 1530 | 1400 |
| > <u>=</u> | 5200 | 2540 | 6155 | 1585 | 1330 |
| | 5500 | 2640 | 6455 | 1685 | 1250 |









A Series Mini Range Pallet Stacker With Initial Lift

with capacities of 1,000 to 1,200kg

The A series mini range pallet stacker with initial lift is a new product developed by Hangcha for warehousing and logistics applications. It has a compact body, and can be operated easily and is suitable for operation in narrow aisles. It can carry out double pallet handling through leg lifting and is ideal for loading in warehouses, supermarkets, and workshops.

Appearance

- / The A series mini range pallet stacker with initial lift adopts a professional industrial design of appearance.
- / Applied steel stamping and injection molding processes, which is robust, durable, and also environmental compliance.

Performance

- / The stacker can meet most needs of customers with it's high power.
- / Powered by traction motor not only has good acceleration and perfect performance, but also low heat.
- / Latest CURTIS control system, precise and smooth.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.

Maintenance

- / Built-in charger and maintenance free gel battery, you don't need to worry about them.
- / Maintenance-free AC motor can reduce the cost significantly.
- / Integrated battery indicator, hour meter and self-diagnostic instrument.
- / Full opened rear hood, easy accessibility of all components, is easy for service.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

Reliability

- / With a high-strength steel frame structure, the vehicle frame has a large residual load capacity and a long service life.
- / 4-pivot design provide longer working life.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / The hydraulic unit and the vehicle frame are flexibly connected so that the vibration transmitted from the road surface to the hydraulic unit can be absorbed and the reliability of the hydraulic unit is improved.
- / Punch formed forks to provide more strength and tip guide to provide higher efficient operation.



The pallet stacker with initial lift provide: higher efficiency and better passing ability



Optimized designing structure to offer good visibility and easy entrance to the pallet



Built-in charger and maintenance free ge battery adopted to provide convenient usage



Tille

Safety

- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Anti-slope on gradient can keep the safety.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / The standard equipped electronic lifting limitation protect the pump motor from damaging dramatically and more energy saving.

Comfort

- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / The compact body and semicircular design provide an ideal operation in limited space, and the ability of walking upright greatly increases the convenience in the container.

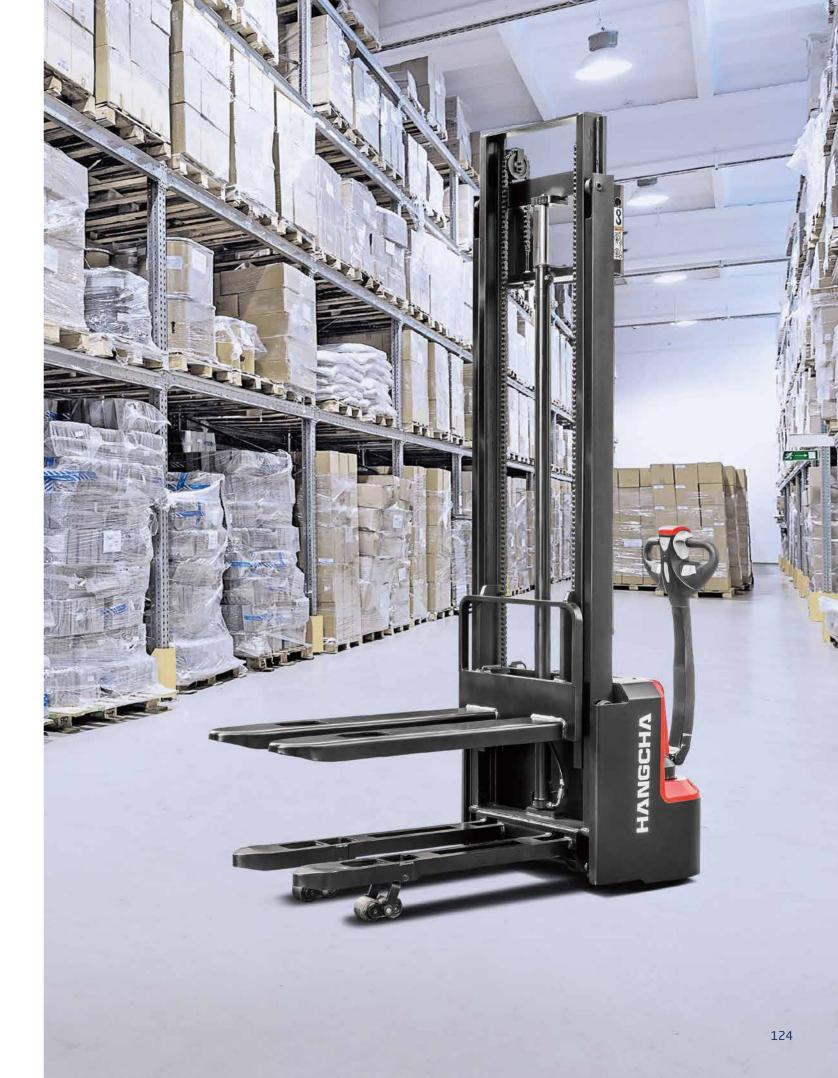
Standard specification

- / AC traction motor
- / CURTIS controller
- / Hydraulic power unit
- / Multi-function battery indicator
- / Polyurethane tyre
- / 1150mm fork length
- / 560mm outside fork width
- / Horn
- / Maintenance-free battery
- / Built-in charger
- / Multi-function tiller
- / Emergency switch

Options

- / Lift height: 2.0~3.6m
- / 680mm outside fork width
- / Cold storage
- / PC board





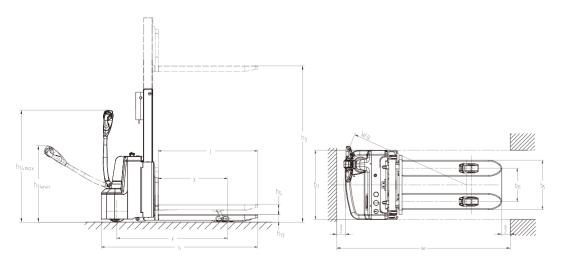
A Series Mini Range Pallet Stacker With Initial Lift Specification

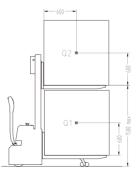
| | 1.1 | Manufacturer | | HANGCHA GE | OUP CO.,LTD. |
|------------------------|--------|---|------------|--------------------|--------------------|
| 20 | 1.2 | Manufacturer's type designation | | CDD10-AMC2-L | CDD12-AMC2-L |
| shi x | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Pedestrian | Pedestrian |
| ngn | 1.5 | Rated capacity/rated load | Q (kg) | 1000 | 1200 |
| Distinguishing mark | 1.6 | Load centre distance | c (mm) | 600 | 600 |
| ā | 1.9 | Wheelbase | y (mm) | 1281 | 1281 |
| | 2.1 | Service Weight(Including battery) | kg | 760 | 760 |
| Weight | | Battery Weight | kg | 66 | 66 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU |
| Ŋ | 3.2 | Tyre size, front | | Ф250x80 | Ф250х80 |
| Tyres, chassis | 3.3 | Tyre size, rear | | Ф75х64 | Ф75х64 |
| 5 | 3.4 | Additional wheel (dimensions) | | Φ125x50 | Ф125х50 |
| res, | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+1/4 | 1x+1/4 |
| _≥ | 3.6 | Tread, front | b10 (mm) | 520 | 520 |
| | 3.7 | Tread, rear | b11 (mm) | 385 | 385 |
| | 4.4 | Lift | h₃ (mm) | 3000 | 3000 |
| | 4.6 | initial lift | hs (mm) | 120 | 120 |
| | 4.9 | Height drawbar in driving position min./max. | h14 (mm) | 720/1220 | 720/1220 |
| | 4.15 | Fork height,lowered | h13 (mm) | 86 | 86 |
| Dimensions | 4.19 | Overall length(folded pedal) | lı (mm) | 1807 | 1807 |
| sus | 4.21 | Overall width | b1 (mm) | 800 | 800 |
| ĿĔ | 4.22 | Fork dimensions | s/e/l (mm) | 60/185/1150 | 60/185/1150 |
| | 4.25 | Distance between fork-arms | bs (mm) | 570 | 570 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 21 | 21 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2010 1) 3) | 2010 1) 3) |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2060 2) 3) | 2060 2) 3) |
| | 4.35 | Turning radius | Wa (mm) | 1415 ³⁾ | 1415 ³⁾ |
| JCe | 5.1 | Travel speed,laden/unladen | km/h | 6/6 | 6/6 |
| Performance data | 5.2 | Lift speed,laden/unladen | m/s | 0.115/0.150 | 0.110/0.150 |
| φģ | 5.3 | Lowering speed,laden/unladen | m/s | 0.140/0.135 | 0.140/0.135 |
| Per | 5.8 | Max Gradeability,laden/unladen | % | 8/16 | 8/16 |
| Electric | 6.1 | Drive motor rating S2 60 min | kW | 1.1 | 1.1 |
| | 6.2 | Lift motor rating at S3 15% | kW | 2.2 | 2.2 |
| e E | 6.4 | Battery voltage,rated capacity | V/Ah | 2x12/106 | 2x12/106 |
| | 8.1 | Type of drive control | | AC | AC |
| | 9.1 | Manufacturer | | Curtis | Curtis |

Note: 1). VDI 2198: +260mm 2). VDI 2198: +165mm 3). Load section lowered: +60mm

A Series Mini Range Pallet Stacker With Initial Lift Mast Specification:

| Mast Type | Max Lifting Height | Max. fork height (h3+h13) | Lowered Height | Extended Height h4 | Free lift | Load Capacity at 600mm | |
|-------------------------|-----------------------|------------------------------|----------------|-----------------------|-----------|------------------------|------|
| | h₃ | (113 - 1113) | "" | 114 | | 1.0t | 1.2t |
| | mm | mm | mm | mm | mm | Kg | Kg |
| | 2000 | 2086 | 1576 | 2576 | 0 | 1000 | 1200 |
| | 2500 | 2586 | 1826 | 3076 | 0 | 1000 | 1000 |
| Single | 2700 | 2786 | 1926 | 3276 | 0 | 900 | 900 |
| cylinder duplex mast | 3000 | 3086 | 2076 | 3576 | 0 | 800 | 800 |
| | 3300 | 3386 | 2226 | 3876 | 0 | 700 | 700 |
| | 3500 | 3586 | 2411 | 4161 | 0 | 550 | 550 |
| | 3600 | 3686 | 2461 | 4261 | 0 | 550 | 550 |





| Q1(kg) | | 0.2(kg) | Q1+Q2(kg) | |
|--------|-----|---------|-----------|--|
| max | min | max | max | |
| 1200 | 0 | 0 | 1200 | |
| 1100 | 100 | 100 | | |
| 1000 | 200 | 200 | | |
| 900 | 300 | 300 | 1200 | |
| 800 | 400 | 400 | | |
| 700 | 500 | 500 | | |
| 600 | 600 | 600 | | |



XC Series Reach Truck With Lithium Power

with capacities of 1,400 to 2,500kg

 $\frac{700}{600} = \frac{500}{600} = \frac{500}{600}$

ANEW DIMENSION OF PERFORMANCE

XC SERIES REACH TRUCK WITH LITHIUM POWER

- / The XC series reach truck with lithium power fully utilize the advantages of lithium battery and achieve disruptive innovations in vehicle structure, functional configuration, performance parameters, ergonomics, and operating vision.
- / We cater for a wide range of applications whilst ensuring optimum energy efficiency. Regardless of your special requirements whether confined spaces or lifting height reaches 13m, load capacity of up to 2,500 kg or individual customisation with various options we have the truck you need.
- / Compact size of the lithium battery pack and breaking through the traditional structure design, makes the truck style more novel and more efficient.

MAXIMUM TRAVELLING SPEED

14km/h

2,500kg

MAXIMUM LIFTING SPEED

0.81m/s

MAXIMUM LIFT HEIGHT

13,000mm

HIGH RESIDUAL CAPACITY

6,500mm





BEING ENVIRONMENTALLY FRIENDLY, EFFICIENT AND DURABLE

- / CATL lithium battery is standard for all series, adopting 80V voltage system which can provides fast charging and long service life and less energy loss.
- / The special-shaped lithium battery pack design provides a large operating space in the cab and a broad view.





Charging port



Working time

> 10h



Fast charging time $\leq 2h$

| Lithium battery capacity | | | | |
|--------------------------|------|-------------|--|--|
| | Std. | 80V/250Ah | | |
| | 0.1 | 001//40 441 | | |

Note: Std. 80V/250Ah, Work time > 6h; Opt. 80V/404Ah, Work time > 10h

1.6 t 1.8 t 2.0 t 2.5 t



A NOVEL PROFILE STYLE AND COMPACT INTERIOR DESIGN

With fewer exposed fasteners of the inside covers, the interior is compact and stylish.







Thanks to the special-shaped design of the battery pack and the breakthrough in the body structure, which can provide a wider view.





The improved mast structure and piping arrangement enables a broader vision for stacking operations

HANGCHA

/ The hydraulic tubing and the wires are on both sides of the mast, overlapping with the chain, making full use of the space and reducing the line of sight.





The compact mast design enables operator have a wider view around the outside of the mast.

The middle cylinder is arranged eccentrically to enable the driver to have a wider view around the inside of the mast.

EXCELLENT ERGONOMIC DESIGN



Steering wheel position can also be adjusted



The pedal height can be adjusted electrically

Integral suspended seat



MULTIFUNCTIONAL INTERACTIVE **COLOR-SCREEN INSTRUMENTS**



More status indication





3. Load weight

- 1. Lifting height 2. Local time
- 2
- 1. Driving mode 2. Fork action

lifting height

- 3. Operating time 4. Maximum allowable
- 1. Steering mode 2. Battery power

3

- 3. Travelling speed
- 4

Various status signs and warning signs are displayed in a queue according to actual

More convenient shortcut button

Thanks to the integrated design of the instrument function buttons, the truck console saves a lot of physical buttons, making it more concise and efficient.



6 Height selection 6

Height limit

Lighting control

8 Battery removal

9

Optional function switching screen 1

↑ Button Driving mode switching 1

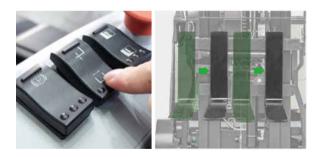
↓ Button Turtle speed mode

COMPREHENSIVELY IMPROVED FUNCTION CONFIGURATION



Height selection

Multiple heights can be pre-set on the instrument. After the function is enabled, when the fork is about to be lifted to the preset height, the lifting speed will gradually slow down and the fork will finally stops at the set height steadily.



Central sideshift

Simple, reliable and fast: The central positioning of the sideshift occurs automatically, eliminating the time-consuming, cautious approach of the required position. (Only for fingertip system)



Horizontal fork

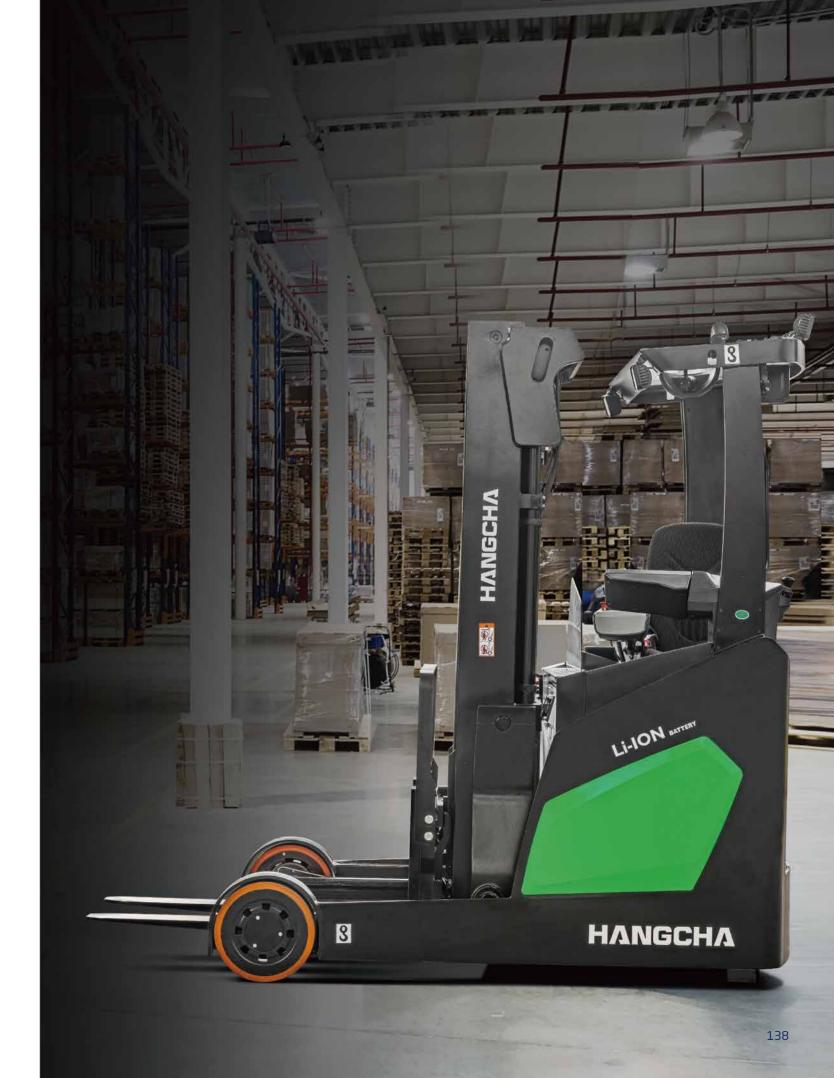
Particularly at high lift heights, the forks' tilt position is often very hard to detect. The automatic horizontal positioning significantly simplifies and accelerates pallet entry. (Only for fingertip system)



Height limit

After this function is enabled, when the fork is lifted to a certain height, this height will be set as the maximum allowable lifting height. Afterwards, whenever the fork is about to be lifted to this height, the lifting speed will gradually slow down and the fork will steadily finally stop at this height.





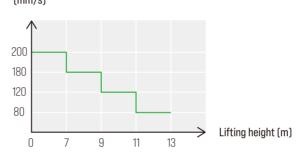


SAFETY FROM EVERY ANGLE

Drive control limit

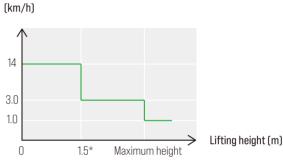
Drive control limits the travelling speed and traverse speed as soon as the forks are raised. This increases the safety when manoeuvring with a raised pallet in front of the storage rack, while still ensuring more sensitive manoeuvring during the work cycle.

Traverse speeds (mm/s)



Note: The above table is only for 2.0/2.5t, the parameters of other models are not the same.

Travelling speed



*: 1.5m is only for the fingertip system. The parameter of mechanical control system is the height of free lift.





The battery is in an inappropriate

Battery lock with creep speed interlock

Installed on the battery latch in the motor compartment. Monitors the locking of the battery pack. If the battery pack is not retracted or not locked, travel is restricted to creep speed.



EASY MAINTENANCE

The battery pack can be replaced quickly. The driver can unlock and remove the battery while sitting on his seat.

Remove battery pack step







The hood can be easily dismounted and mounted to facilitate routine maintenance operations.



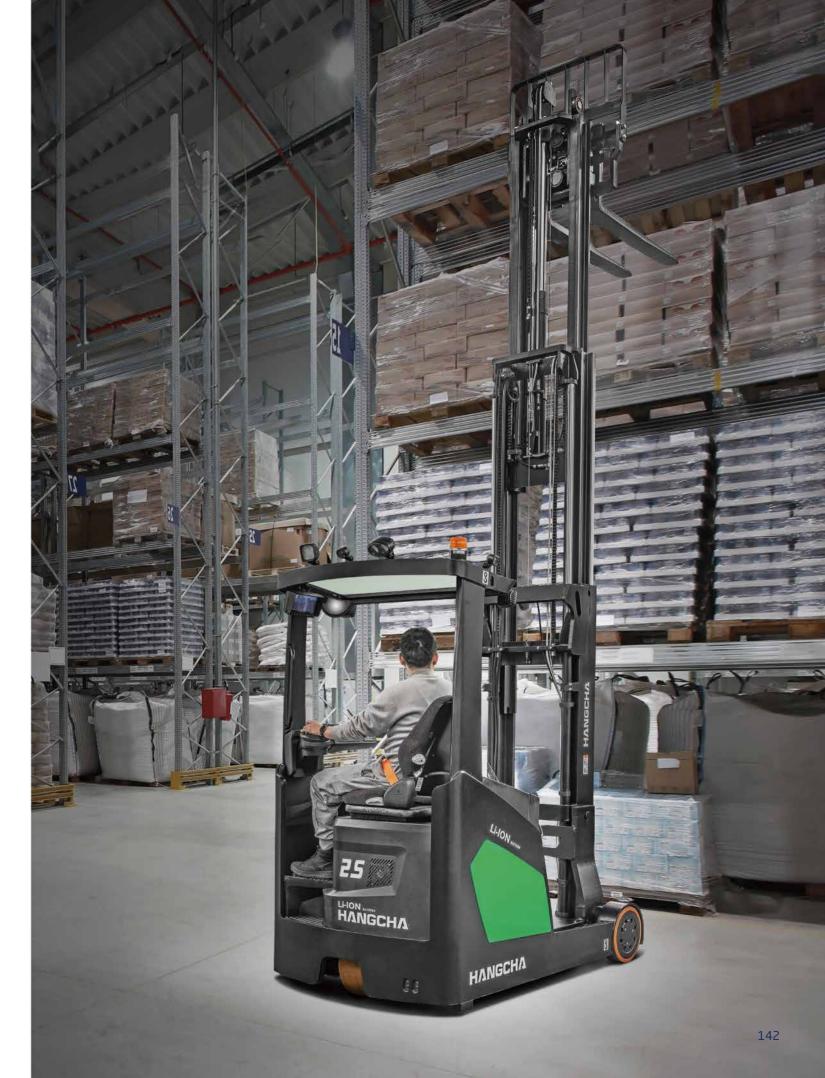




The seat can be turned open at a large angle, which is convenient for maintenance work.







WE GIVE YOU ALL THE OPTIONS



Stacking and retrieval via video monitoring

Our video camera allows for the precise and quick access of extremely high locations. The position of the camera on the forks enables operators to efficiently and reliably control stacking and retrieval operations from their seating position/viewpoint. They no longer have to look up, which noticeably reduces the strain on their shoulders and neck. Also, information on the pallets is easily visible, even at great heights.



Easier stacking and retrieval with positioning laser

Our positioning lasers significantly simplify the stacking and retrieval process and increase the safety for load and rack. The laser sources are integrated into the fork tips, projecting a red line on the area ahead. This allows the operator to adjust the fork more accurately to be able to drive effortlessly into the pallet.



Easy access

Easy access protects the reach truck against unauthorised use. Authorisation management is directly controlled via the truck's display. Customised to your requirements and company size – you can choose between the key[Std.], PIN code and transponder.



Safety at any blind spots with Floor Spot

Floor Spot projects a blue dot on the floor around the truck. Especially at blind intersections or at the end of rack aisles, the Floor Spot alerts an approaching truck in time to respond.



100% clear view thanks to panorama roof panel

Maximum visibility: The panorama roof panel without cross beams provides maximum visibility of the goods and forks.



Optimum traction via traction control system

Optimum traction is ensured with braking of the drive wheel, which would otherwise spin on wet or dusty floors.



XC Series Reach Truck With Lithium Power Specification

| | 1.1 | Manufacturer | | | | HANGCHA GROUP CO.,LTD. | | |
|------------------------|-------|--|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | 1.2 | Model | | CQD14-XC5-SI* CQD14-XC5D-SI* | CQD16-XC5-SI* CQD16-XC5D-SI* | CQD18-XC5-SI* CQD18-XC5D-SI* | CQD2O-XC5-SI* CQD2O-XC5D-SI* | CQD25-XC5-SI* CQD25-XC5D-SI* |
| <u> </u> | 1.3 | Power unit | | Li-ION battery |
| Distinguishing mark | 1.4 | Manual | | Seated | Seated | Seated | Seated | Seated |
| isting | 1.5 | Rated capacity/rated load | Q(t) | 1.4 | 1.6 | 1.8 | 2 | 2.5 |
| | 1.6 | Load centre distance | c(mm) | 600 | 600 | 600 | 600 | 600 |
| | 1.8 | Load distance | x(mm) | 360 1]7]11] | 410 1)7)11) | 385 ¹⁶⁾ | 362 ²⁰⁾ | 484 20) |
| | 1.8.1 | Load distance, mast reached forward | x1(mm) | 211 2) | 211 2) | 203 | 232 | 232 |
| | 1.9 | Wheelbase | y(mm) | 1355 | 1405 | 1405 | 1471 | 1601 |
| Weight | 2.1 | Net weight incl. battery (see row 6.5) | (kg) | 3330 | 3370 | 3370 | 3470 | 3620 |
| | 3.1 | Tyres | | PU | PU | PU | PU | PU |
| ssis | 3.2 | Tyre size, front | | φ343×140 | φ343×140 | φ343×140 | φ343×140 | φ400×160 |
| Tyres, chassis | 3.3 | Tyre size, rear | | φ285×100 | φ285×100 | φ285×100 | φ343×108 | φ343×108 |
| Tyre | 3.5 | Wheels, number front/rear (x = driven wheels) | | 1x/2 | 1x/2 | 1x/2 | 1x/2 | 1x/2 |
| | 3.7 | Tread width, rear | b11(mm) | 1174 | 1174 | 1174 | 1162 | 1162 |
| | 4.1 | Tilt of fork carriage forward/backward | α/β(°) | 2.0/5.0 | 2.0/5.0 | 2.0/5.0 | 2.0/5.0 | 2.0/5.0 |
| | 4.2 | Height, mast lowered | hı(mm) | 2100 | 2100 | 2100 | 2100 | 2100 |
| | 4.3 | Free lift | h2(mm) | 105 | 105 | 110 | 110 | 110 |
| | 4.4 | Lift | h3(mm) | 3000 | 3000 | 3000 | 3000 | 3000 |
| | 4.5 | Height, mast extended | h4(mm) | 3965 | 3965 | 3965 | 3965 | 3965 |
| | 4.7 | Height of overhead guard | he(mm) | 2263 | 2263 | 2263 | 2263 | 2263 |
| | 4.8 | Seat height | h7(mm) | 1159 | 1159 | 1159 | 1159 | 1159 |
| | 4.10 | Height of support arms | h8(mm) | 308 | 308 | 308 | 365.5 | 365.5 |
| | 4.19 | Overall length | lı(mm) | 2400 3383123 | 2400 3)8)12) | 2425 173 | 2514 ^{21]} | 2542 ²⁰ |
| | 4.20 | Length to face of forks | l2(mm) | 1250 3)8)12) | 1250 3)8)12) | 1275 ¹⁷⁾ | 1364 ²¹⁾ | 1392 ²¹⁾ |
| Dimensions | 4.21 | Overall width | b1/b2(mm) | 1270/1270 | 1270/1270 | 1270/1270 | 1270/1270 | 1270/1270 |
| Dimer | 4.22 | Fork dimensions | s/e/l(mm) | 35×120×1150 | 35×120×1150 | 40×122×1150 | 40×122×1150 | 40×122×1150 |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | | II A |
| | 4.24 | Fork-carriage width | p3(mm) | 830 | 830 | 830 | 830 | 830 |
| | 4.25 | Distance between fork-arms | b5(mm) | 750 | 750 | 750 | 750 | 750 |
| | 4.26 | Distance between wheel arms | b4(mm) | 940 | 940 | 940 | 940 | 940 |
| | 4.28 | Reach distance | l4(mm) | 571 ^{4]7]13]} | 621 4]7]13] | 588 ¹⁶⁾ | 594 ²⁰⁾ | 716 ²⁰⁾ |
| | 4.32 | Ground clearance, centre of wheelbase | m2(mm) | 80 | 80 | 80 | 80 | 80 |
| | 4.33 | Aisle width for pallets 1000 × 1200 sideways | Ast(mm) | 2687 5]9]14] | 2701 5)9)14) | 2719 ¹⁸⁾ | 2802 223 | 2867 24] |
| | 4.34 | Aisle width for pallets 800 × 1200 lengthways | Ast(mm) | 2740 6)10)15) | 2745 6)10)15) | 2768 ¹⁹⁾ | 2855 ²³⁾ | 2896 ²⁵⁾ |
| | 4.35 | Turning radius | Wa(mm) | 1610 | 1660 | 1660 | 1726 | 1876 |
| | 4.37 | Length over the support arms | l7(mm) | 1775 | 1825 | 1825 | 1920 | 2070 |
| | 5.1 | Travel speed, laden/unladen | (km/h) | 14/14 | 14/14 | 14/14 | 14/14 | 14/14 |
| .50 | 5.2 | Lift speed, laden/unladen | (m/s) | 0.61/0.81 | 0.59/0.81 | 0.5/0.7 | 0.48/0.7 | 0.45/0.7 |
| Performance data | 5.3 | Lowering speed, laden/unladen | (m/s) | XC4:0.52/0.52 | XC4:0.52/0.52 | XC4:0.52/0.52 | XC4:0.52/0.52 | XC4:0.52/0.52 |
| ı.man | | | | XC4D:0.56/0.56 | XC4D:0.56/0.56 | XC4D:0.56/0.56 | XC4D:0.56/0.56 | XC4D:0.56/0.56 |
| Perfo | 5.4 | Traverse speed w. / w.o. load | (m/s) | 0.24/0.24 | 0.24/0.24 | 0.2/0.2 | 0.2/0.2 | 0.2/0.2 |
| | 5.8 | Max.gradeability, laden/unladen 5min | (%) | 10.0/15.0 | 10.0/15.0 | 10.0/15.0 | 10.0/15.0 | 10.0/15.0 |
| | 5.10 | Service brake | | Electromagnetic | Electromagnetic+Mech. | Electromagnetic+Mech. | Electromagnetic+Mech. | Electromagnetic+Mech. |
| | 6.1 | Drive motor rating S2 60 min. | (kW) | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| in e | 6.2 | Lift motor rating at S3 15% | (kW) | 20 | 20 | 20 | 20 | 20 |
| ic-eng | 6.3 | Battery as per DIN 43531 /35/36 A, B, C, no | | no | no | no | no | no |
| Electric-engine | 6.4 | Battery voltage, nominal capacity | (V/Ah) | 80/250 | 80/250 | 80/250 | 80/250 | 80/250 |
| " | 6.4.1 | Battery voltage, rated capacity, Optional | (V/Ah) | 80/404 | 80/404 | 80/404 | 80/404 | 80/404 |
| | 6.5 | Battery weight (±5%) | (kg) | 275 | 275 | 275 | 360 | 360 |
| ë " | 10.1 | Operating pressure for attachments | (bar) | 150 | 150 | 150 | 150 | 150 |
| Addition data | 10.2 | Oil flow for attachments | (I/min) | 18 | 18 | 18 | 18 | 18 |
| | 10.7 | Sound pressure level LpAZ (at the driver's seat) | (db(A)) | 68 | 68 | 68 | 68 | 68 |

Note: 1) h3 > 7000 mm: -25 mm. 2) h3 > 7000 mm: -8 mm. 3) h3 > 7000 mm: +25 mm. 4) h3 > 7000 mm: -33 mm. 5) h3 > 7000 mm: +19 mm. 6) h3 > 7000 mm: +23 mm. 7) With optional battery 80V/404Ah, h3 < 7000 mm: -90 mm. 100 mm.

8) With optional battery 80V/404Ah, h3</br>
8) With optional battery 80V/404Ah, h3
7000mm: +90mm. 9) With optional battery 80V/404Ah, h3
7000mm: +90mm. 1] With optional battery 80V/404Ah, h3
7000mm: +90mm. 1] With optional battery 80V/404Ah, h3
7000mm: +90mm. 1] With optional battery 80V/404Ah, h3
7000mm: +10mm. 1] With optional battery 80V/404Ah, h3
7000mm: +10mm. 1] With optional battery 80V/404Ah: +80mm. 1] With optional battery 80V/404Ah: +80mm. 1] With optional battery 80V/404Ah: +80mm. 2] h3
12000mm: +10mm. 2]

★ CF model

Features

| NO. | System | Features | CQD14/16/18/20/25-XC5-SI* | CQD14/16/18/20/25-XC5D-SI* |
|-----|------------------------|--|--|-----------------------------------|
| 1 | | Control with a mechanical control lever | • | / |
| 2 | | Control with a fingertip switch | / | • |
| 3 |] | Height display | (Only for triplex mast, excluding the free lift range) | • (Including the free lift range) |
| 4 | 1 | Height selection | O (Only for triplex mast, excluding the free lift range) | • (Including the free lift range) |
| 5 | | Height limit | O (Only for triplex mast, excluding the free lift range) | • (Including the free lift range) |
| 6 | | Central sideshift | / | 0 |
| 7 | 1 | Horizontal fork alignment | / | 0 |
| 8 | 0 | Mast reach damping system | • | • |
| 9 | Control | Electric lowering limit - Stop forks above outriggers if mast is retracted | 0 | 0 |
| 10 |] | Soft landing system | / | 0 |
| 11 |] | Lifting damping system | • | • |
| 12 |] | Drive control limit | • | • |
| 13 |] | Drive wheel skid control system | 0 | 0 |
| 14 | | Battery lock with creep speed interlock | • | • |
| 15 | | Travelling speed control at corner | • | • |
| 16 | | 180° steering mode | • | • |
| 17 | | 360° steering mode | 0 | 0 |
| 18 | Transmission system | ZF transmission | • | • |
| 19 | | USB power socket | • | • |
| 20 | | Fork positioning laser | 0 | 0 |
| 21 | | Video monitoring | 0 | 0 |
| 22 |] | Keyed start | • | • |
| 23 | Electronic accessories | Start with a PIN code or by a card | 0 | 0 |
| 24 | | Веер | 0 | 0 |
| 25 | | Operating light (in the direction of the fork) | • | • |
| 26 | | Operating light (in the reverse direction of the fork) | 0 | 0 |
| 27 | | Alarm light | • | • |
| 28 | | Blue light | 0 | 0 |
| 29 | | Three-sided one line laser projection light | 0 | 0 |
| 30 | | Electrical adjustment of pedal height | 0 | 0 |
| 31 | Ergonomic design | Adjustable steering wheel | • | • |
| 32 | | Instrument angle adjustment | • | • |
| 33 | Fault Diagnosis | Suctioned oil filter clogging alarm | 0 | 0 |
| 34 | Fault Diagnosis | Backflow oil filter clogging alarm | 0 | • |
| 35 | | Sequential Seat Belt Interlock System | • | • |
| 36 | Seat | BF6-3 suspension seat | • | 1 |
| 37 | | MSG65/522 suspension seat | 0 | • |
| 38 | | Panorama roof | 0 | 0 |
| 39 | | PVC ceiling | 0 | 0 |
| 40 | | Curved rearview mirror | 0 | 0 |
| 41 | | Left and right rear view mirrors | 0 | 0 |
| 42 | Other | Cold storage | 0 | 0 |
| 43 | | Load backrest | • | • |
| 44 |] | Fire extinguisher | 0 | 0 |
| 45 | | Electric fan | 0 | 0 |
| 46 | | OPS system | • | • |

Note: ● Standard; ○ Optional

★ CE model

1.4/1.6t Mast Specification

| Туре | Lifting height ha | Mast lowered hı | Mast extended h4 | Free lifting height h2 | Tilting range α/β |
|-----------------------|-------------------------|-----------------------|------------------------|------------------------------|----------------------|
| | mm | mm | mm | mm | (°) |
| | 2700 | 1950 | 3665 | 105 | 2/5 |
| # | 3000 | 2100 | 3965 | 105 | 2/5 |
| шая | 3300 | 2250 | 4265 | 105 | 2/5 |
| × | 3500 | 2350 | 4465 | 105 | 2/5 |
| 흌 | 3600 | 2400 | 4565 | 105 | 2/5 |
| ≥ 2 | 4000 | 2650 | 4965 | 105 | 2/5 |
| <u>ķ</u> | 4300 | 2790 | 5265 | 105 | 2/5 |
| Wide view duplex mast | 4500 | 2900 | 5465 | 105 | 2/5 |
| 3 | 4800 | 3095 | 5765 | 105 | 2/5 |
| | 5000 | 3195 | 5965 | 105 | 2/5 |
| | 4000 | 2030 | 4965 | 1065 | 2/5 |
| | 4500 | 2160 | 5465 | 1185 | 2/5 |
| | 5000 | 2300 | 5965 | 1335 | 2/5 |
| | 5500 | 2450 | 6465 | 1485 | 2/5 |
| st | 6000 | 2625 | 6965 | 1660 | 2/5 |
| ä | 6500 | 2800 | 7465 | 1835 | 2/5 |
| 음 | 7000 | 3000 | 7965 | 2035 | 2/5 |
| Ē | 7500 | 3060 | 8465 | 2095 | 2/5 |
| 8 | 8000 | 3250 | 8965 | 2285 | 2/5 |
| Full free triple mast | 8500 | 3420 | 9465 | 2455 | 2/5 |
| 교 | 9000 | 3580 | 9965 | 2615 | 2/5 |
| | 9500 | 3760 | 10465 | 2795 | 2/5 |
| | 10000 | 3920 | 10965 | 2955 | 2/5 |
| | 10500 | 4100 | 11465 | 3135 | 2/5 |
| | 11000 | 4300 | 11065 | 3335 | 2/5 |

2.0t Mast Specification

| Туре | Lifting height h3 | Mast lowered h1 | Mast extended h4 | Free lifting height h2 | Tilting range α/β |
|-----------------------|-------------------------|-----------------------|------------------------|------------------------------|----------------------|
| | mm | mm | mm | mm | (°) |
| | 2700 | 1950 | 3665 | 110 | 2/5 |
| # | 3000 | 2100 | 3965 | 110 | 2/5 |
| ä | 3300 | 2250 | 4265 | 110 | 2/5 |
| Vide view duplex mast | 3500 | 2350 | 4465 | 110 | 2/5 |
| 굨 | 3600 | 2400 | 4565 | 110 | 2/5 |
| 8 | 4000 | 2650 | 4965 | 110 | 2/5 |
| - Ri- | 4300 | 2790 | 5265 | 110 | 2/5 |
| 용 | 4500 | 2900 | 5465 | 110 | 2/5 |
| > | 4800 | 3095 | 5765 | 110 | 2/5 |
| | 5000 | 3195 | 5965 | 110 | 2/5 |
| | 4000 | 2085 | 4965 | 1120 | 2/5 |
| | 4500 | 2165 | 5465 | 1200 | 2/5 |
| | 5000 | 2315 | 5965 | 1350 | 2/5 |
| | 5500 | 2490 | 6465 | 1525 | 2/5 |
| | 6000 | 2665 | 6965 | 1700 | 2/5 |
| | 6500 | 2835 | 7465 | 1870 | 2/5 |
| # | 7000 | 3020 | 7965 | 2055 | 2/5 |
| шä | 7500 | 3180 | 8465 | 2215 | 2/5 |
| <u>=</u> | 8000 | 3350 | 8965 | 2385 | 2/5 |
| Full free triple mast | 8500 | 3580 | 9465 | 2615 | 2/5 |
| 8 | 9000 | 3800 | 9965 | 2835 | 2/5 |
| ≝ | 9500 | 3970 | 10465 | 3005 | 2/5 |
| 굔 | 10000 | 4100 | 10965 | 3135 | 2/5 |
| | 10500 | 4250 | 11465 | 3285 | 2/5 |
| | 11000 | 4450 | 11965 | 3485 | 2/5 |
| | 11500 | 4700 | 12465 | 3735 | 2/5 |
| | 12000* | 4900 | 12965 | 3935 | 2/5 |
| | 12500* | 5150 | 13465 | 4185 | 2/5 |
| | 13000* | 5400 | 13965 | 4435 | 2/5 |

^{*} When you choose the mast, the dimensions of the truck will be affected. Please refer to the performance parameter table for details.

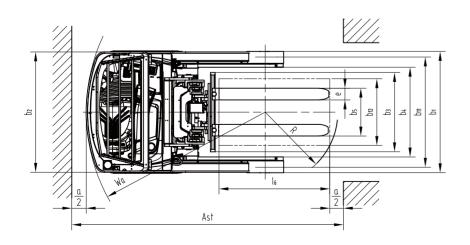
1.8t Mast Specification

| Туре | Lifting height ha | Mast lowered h1 | Mast extended h4 | Free lifting height h2 | Tilting range α/β |
|-----------------------|-------------------------|-----------------------|------------------------|------------------------|----------------------|
| | 2700 | 1950 | 3665 | 110 | 2/5 |
| | 3000 | 2100 | 3965 | 110 | 2/5 |
| ast | 3300 | 2250 | 4265 | 110 | 2/5 |
| Wide view duplex mast | 3500 | 2350 | 4265 | 110 | 2/5 |
| <u> </u> | 3600 | 2400 | 4565 | 110 | 2/5 |
| ਵੌ | 4000 | 2650 | 4965 | 110 | 2/5 |
| ew. | 4300 | 2790 | 5265 | 110 | 2/5 |
| <u>~</u> | 4500 | 2900 | 5465 | 110 | 2/5 |
| ≅ | 4500 | 3095 | 5765 | 110 | 2/5 |
| _ | 5000 | 3195 | 5965 | 110 | 2/5 |
| | 4000 | 2085 | 4965 | 1120 | 2/5 |
| | 4500 | 2165 | 5465 | 1200 | |
| | 5000 | 2315 | 5465 5965 | 1350 | 2/5 2/5 |
| | | 2310 | 6465 | 1525 | |
| | 5500 | | | | 2/5 |
| l # | 6000 6500 | 2665 | 6965 7465 | 1700 1870 | 2/5 2/5 |
| Full free triple mast | | 2835 3020 | 7465 | 2055 | |
| <u> </u> | 7000 7500 | | | 2000 | 2/5 |
| Į į | | 3180 | 8465 | | 2/5 2/5 |
| 99. | 8000 | 3350 3580 | 8965 9465 | 2385 2615 | |
| ≝ | 8500 | | | | 2/5 |
| | 9000 | 3800 | 9965 | 2835 | 2/5 2/5 |
| | 9500 | 3970 4100 | 10465 10965 | 3005 3135 | 2/5 |
| | 10500 | 4250 | 11465 | 3285 | |
| | | | | | 2/5 2/5 |
| | 11000 | 4450 4700 | 11965 12465 | 3485 3735 | 2/5 |
| | l lipUU | 4/00 | 12400 | 3/30 | 2/0 |

2.5t Mast Specification

| Туре | Lifting height ha | Mast lowered h1 | Mast extended h4 | Free lifting height h2 | Tilting range α/β |
|-----------------------|-------------------------|-----------------------|------------------------|------------------------------|----------------------|
| | mm | mm | mm | mm | (°) |
| | 2700 | 1950 | 3665 | 110 | 2/5 |
| # | 3000 | 2100 | 3965 | 110 | 2/5 |
| ä | 3300 | 2250 | 4265 | 110 | 2/5 |
| × | 3500 | 2350 | 4465 | 110 | 2/5 |
| 폌 | 3600 | 2400 | 4565 | 110 | 2/5 |
| Vide view duplex mast | 4000 | 2650 | 4965 | 110 | 2/5 |
| Ä. | 4300 | 2790 | 5265 | 110 | 2/5 |
| 용 | 4500 | 2900 | 5465 | 110 | 2/5 |
| ₹ | 4800 | 3095 | 5765 | 110 | 2/5 |
| | 5000 | 3195 | 5965 | 110 | 2/5 |
| | 4000 | 2085 | 4965 | 1120 | 2/5 |
| | 4500 | 2165 | 5465 | 1200 | 2/5 |
| | 5000 | 2315 | 5965 | 1350 | 2/5 |
| | 5500 | 2490 | 6465 | 1525 | 2/5 |
| | 6000 | 2665 | 6965 | 1700 | 2/5 |
| | 6500 | 2835 | 7465 | 1870 | 2/5 |
| #: | 7000 | 3020 | 7965 | 2055 | 2/5 |
| Full free triple mast | 7500 | 3180 | 8465 | 2215 | 2/5 |
| <u> </u> | 8000 | 3350 | 8965 | 2385 | 2/5 |
| 훒 | 8500 | 3580 | 9465 | 2615 | 2/5 |
| 99 | 9000 | 3800 | 9965 | 2835 | 2/5 |
| ≟ | 9500 | 3970 | 10465 | 3005 | 2/5 |
| 교 | 10000 | 4100 | 10965 | 3135 | 2/5 |
| | 10500 | 4300 | 11465 | 3335 | 2/5 |
| | 11000 | 4500 | 11965 | 3535 | 2/5 |
| | 11500 | 4800 | 12465 | 3835 | 2/5 |
| | 12000* | 5000 | 12965 | 4035 | 2/5 |
| | 12500* | 5300 | 13465 | 4335 | 2/5 |
| | 13000* | 5600 | 13965 | 4635 | 2/5 |

^{*} When you choose the mast, the dimensions of the truck will be affected. Please refer to the performance parameter table for details.



$$A_{\text{st}} = W_{\text{a}} + R + a = W_{\text{a}} + \sqrt{\left(l_6 - x\right)^2 + \left(\frac{b_{12}}{2}\right)^2} + a$$

1.4t Residual Load Capacity Chart

| | Capacity(kg) | | | | Load c | enter distanc | e(mm) | | |
|---|------------------------|-------|------|------|--------|---------------|-------|------|------|
| | оприон | .) () | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| Г | | ≤6000 | 1400 | 1210 | 1070 | 920 | 780 | 660 | 550 |
| | | 6500 | 1300 | 1120 | 990 | 840 | 720 | 600 | 490 |
| | | 7000 | 1200 | 1030 | 910 | 770 | 650 | 540 | 430 |
| | - | 7500 | 1100 | 940 | 830 | 700 | 580 | 470 | 370 |
| | eig) | 8000 | 1050 | 900 | 790 | 660 | 550 | 440 | 350 |
| | ng hei (mm) | 8500 | 1000 | 850 | 750 | 620 | 510 | 410 | 320 |
| | Lifting height (mm) | 9000 | 900 | 770 | 670 | 550 | 450 | 350 | 260 |
| | _ | 9500 | 800 | 680 | 590 | 480 | 380 | 290 | 200 |
| | | 10000 | 700 | 590 | 510 | 400 | 310 | 230 | 150 |
| | | 10500 | 550 | 450 | 390 | 300 | 210 | 130 | 60 |
| L | | 11000 | 350 | 280 | 230 | 150 | 80 | 10 | 0 |

1.8t Residual Load Capacity Chart

| Capaci | tv[kn] | | | Load c | enter distanc | e(mm) | | |
|------------------------|---------|------|------|--------|---------------|-------|------|------|
| oupuoi | r) (ng) | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| | ≤6000 | 1800 | 1570 | 1390 | 1210 | 1050 | 900 | 780 |
| | 6500 | 1700 | 1480 | 1310 | 1130 | 980 | 840 | 720 |
| | 7000 | 1600 | 1390 | 1230 | 1060 | 910 | 780 | 660 |
| | 7500 | 1500 | 1300 | 1150 | 990 | 850 | 720 | 600 |
| Ĕ | 8000 | 1450 | 1250 | 1110 | 950 | 810 | 690 | 570 |
| Lifting height (mm) | 8500 | 1400 | 1210 | 1070 | 910 | 780 | 660 | 550 |
| ë E | 9000 | 1300 | 1120 | 990 | 840 | 710 | 600 | 490 |
| 5 | 9500 | 1200 | 1030 | 910 | 770 | 650 | 530 | 430 |
| | 10000 | 1100 | 940 | 830 | 700 | 580 | 470 | 370 |
| | 10500 | 950 | 810 | 710 | 590 | 480 | 380 | 290 |
| | 11000 | 750 | 630 | 550 | 440 | 350 | 260 | 170 |
| | 11500 | 550 | 450 | 390 | 300 | 210 | 130 | 60 |

2.5t Residual Load Capacity Chart

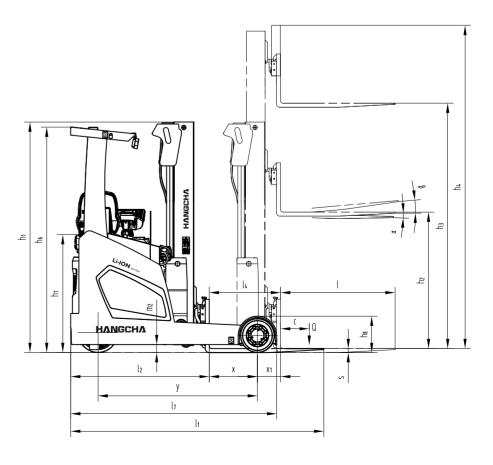
| Capaci | tv[kn] | | | Load c | enter distanc | e(mm) | | |
|------------------------|--------|------|------|--------|---------------|-------|------|------|
| oupuoi | | | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| | ≤6500 | 2500 | 2200 | 1960 | 1730 | 1530 | 1360 | 1200 |
| | 7000 | 2450 | 2150 | 1920 | 1700 | 1500 | 1330 | 1170 |
| | 7500 | 2350 | 2060 | 1840 | 1620 | 1430 | 1260 | 1110 |
| | 8000 | 2300 | 2020 | 1800 | 1590 | 1400 | 1230 | 1080 |
| | 8500 | 2250 | 1970 | 1760 | 1550 | 1360 | 1200 | 1050 |
| ght | 9000 | 2150 | 1880 | 1680 | 1480 | 1300 | 1140 | 990 |
| Lifting height (mm) | 9500 | 2050 | 1800 | 1600 | 1400 | 1230 | 1080 | 940 |
| ڪ ٿِ | 10000 | 1950 | 1710 | 1520 | 1330 | 1160 | 1010 | 880 |
| 5 | 10500 | 1800 | 1570 | 1400 | 1220 | 1060 | 920 | 790 |
| | 11000 | 1500 | 1300 | 1150 | 1000 | 860 | 730 | 620 |
| | 11500 | 1300 | 1130 | 990 | 850 | 720 | 610 | 500 |
| | 12000 | 1250 | 1080 | 950 | 810 | 690 | 580 | 470 |
| | 12500 | 1150 | 990 | 870 | 740 | 620 | 510 | 410 |
| | 13000 | 1000 | 860 | 750 | 630 | 520 | 420 | 330 |

1.6t Residual Load Capacity Chart

| Canacit | Capacity(kg) | | | Load c | enter distanc | e(mm) | | |
|------------------------|--------------|------|------|--------|---------------|-------|------|------|
| oupdoing (ng) | | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| | ≤6000 | 1600 | 1390 | 1230 | 1060 | 920 | 780 | 660 |
| | 6500 | 1500 | 1300 | 1150 | 990 | 850 | 720 | 610 |
| | 7000 | 1400 | 1210 | 1070 | 920 | 780 | 660 | 550 |
| + | 7500 | 1300 | 1120 | 990 | 840 | 710 | 600 | 490 |
| gi (| 8000 | 1250 | 1080 | 950 | 810 | 680 | 570 | 460 |
| ng hei (mm) | 8500 | 1200 | 1030 | 910 | 770 | 650 | 530 | 430 |
| Lifting height (mm) | 9000 | 1100 | 940 | 830 | 700 | 580 | 470 | 370 |
| _ | 9500 | 1000 | 850 | 750 | 620 | 510 | 410 | 320 |
| | 10000 | 900 | 770 | 670 | 550 | 450 | 350 | 260 |
| | 10500 | 750 | 630 | 550 | 440 | 350 | 260 | 170 |
| | 11000 | 550 | 450 | 390 | 300 | 210 | 130 | 60 |

2.0t Residual Load Capacity Chart

| Capaci | tv[kn] | | | Load c | enter distanc | e(mm) | | |
|------------------------|--------|------|------|--------|---------------|-------|------|------|
| oupuoi | r)(ng) | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| | ≤6500 | 2000 | 1750 | 1560 | 1360 | 1200 | 1040 | 910 |
| | 7000 | 1950 | 1710 | 1520 | 1330 | 1160 | 1010 | 880 |
| | 7500 | 1850 | 1620 | 1440 | 1250 | 1090 | 950 | 820 |
| | 8000 | 1800 | 1570 | 1400 | 1220 | 1060 | 920 | 790 |
| | 8500 | 1750 | 1530 | 1360 | 1180 | 1030 | 890 | 760 |
| Lifting height (mm) | 9000 | 1650 | 1440 | 1280 | 1110 | 960 | 830 | 700 |
| ng hei (mm) | 9500 | 1550 | 1350 | 1190 | 1030 | 890 | 760 | 650 |
| £ £ | 10000 | 1450 | 1260 | 1110 | 960 | 820 | 700 | 590 |
| 5 | 10500 | 1300 | 1130 | 990 | 850 | 720 | 610 | 500 |
| | 11000 | 1000 | 860 | 750 | 630 | 520 | 420 | 330 |
| | 11500 | 800 | 680 | 590 | 480 | 390 | 290 | 210 |
| | 12000 | 750 | 630 | 550 | 450 | 350 | 260 | 180 |
| | 12500 | 650 | 550 | 470 | 370 | 280 | 200 | 120 |
| | 13000 | 500 | 410 | 350 | 260 | 180 | 110 | 40 |





A Series Reach Truck

with capacities of 1,200 to 2,000kg

The reach truck is suitable for working in narrow passageway and confined space, with high lifting and load capacity, and is the ideal tool for loading, unloading, handling, and stacking in warehouse, supermarket, and workshop.

Appearance

/ The worldwide popular, great-circle, streamlined surface modeling is applied, with smooth, beautiful, and elegant appearance.

Stability

/ The broad and solid chassis and steady reach mechanism, as well as the drive unit that is fixed at center, realize low gravity center, and guarantee sufficient stability of the truck.

Flexibility

/ The driving system that is located at rear part of chassis uses EPS (Electric Power Steering) technology, features low-speed and large torque. The 180-degree steering mode of standard configuration, make the truck flexible and convenient, and allow it turn easily even in confined space.

Comfort

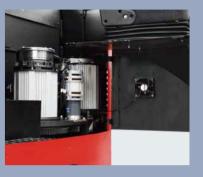
- / Operating levers of ergonomic design, integrated console, all important operating parts are within the reach of your hands.
- / The mast of optimized design with wide view avoids blocking the sight of the operator, and large size of the fork shelf offers wider view.
- / The seat can be adjusted forward and backward, also with the function of vibration reduction.
- / The truck body with increased width and height offers larger operating space for hands and legs of the operator.
- / The new designed overhead guard structure allows the operator to observe the movement of load more clearly.

Maintenance

- / The fully-opened cover provides easy maintenance for motor, controller and transmission, braking, and hydraulic systems.
- / The battery compartment can be removed forward, so replacement or maintenance is very easy.



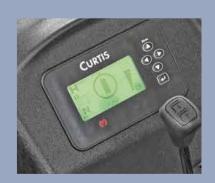
Wider view OHO



High-performance moto



Comfortable and convenient se



Instrument can display the steering angle and direction Synchronously



he steering wheel is extensible, so the





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

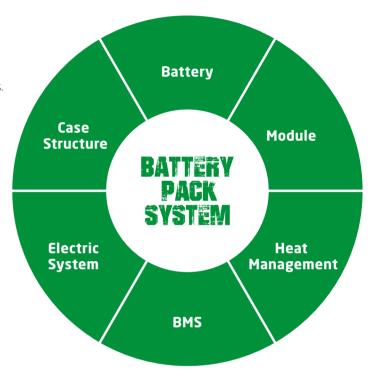




INNOVATIVE SOLUTIONS NEW POWER NOW

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: Can charge and operate at the same time, fully charged in 2hours.
- / 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.





Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CQD16-AC5-I* | CQD18-AC5-I* | CQD20-AC5-I* |
|----------------|------|--------------|--------------|--------------|
| Li-Ion battery | V/Ah | 80/302 | 80/302 | 80/302 |
| Titans charger | | SLC-80100 | SLC-80100 | SLC-80100 |

Note: * CE model



Reliability & Safety

- / Major electrical components such as controller, contactor, and power plug are all of foreign famous brands.
- / As a standard configuration, the emergency power off switch complies with European safety standards.
- / Electronic and hydraulic overload protection, power-failure lock up of fork(optional), and safe pedal.

Benefits of the AC Power System

- / The AC power system has high efficiency, full protection functions, powerful acceleration performance, sensitive and fast steering.
- / The brushless, maintenance-free AC motor has longer service life, and lower maintenance cost.

Advance

- / Three-phase AC technology is applied for driving and steering, AC technologies are available for lifting.
 Full AC power system has higher efficiency, and is free maintenance
- / The MOSFET integrated controller guarantees smooth and accurate control on driving, steering and lifting, as well as superior speed regulation performance, with regenerative braking, reverse braking, anti-slipping on slope and other functions, resulting in more efficient, safer operations.
- / The LCD battery condition meter, timer, fault self-diagnosis meter, and display can not only display most important operating data, driving direction and location of driving wheels that are interactive with steering, but also realize accurate display in harsh environment.
- / The full AC truck is equipped with non-backlash, high pressure resistant, silent gear pump.
- / The full AC truck is equipped with stepless speed regulation for lifting operation, the mast lift top buffering, mast move forward/backward buffering, travelling speed and speed of mast move forward/backward will slow down automatically when the mast lifting high position, all of this can greatly improve the stability of the truck.
- / The CANBUS communication technology is applied to monitor motor speed, temperature, and other information in real time, realizing closed-loop control.
- / The truck has a triple braking mechanism, i.e. electronic braking (reverse regenerative braking), front wheel hydraulic braking, and electromagnetic parking braking.

High-performance Mast

- / The operator has wider view in the load direction.
- / Built-in sideshifter and fork tilting are standard configuration.
- / The mast made with imported steel channels and compact structural design has a maximum lifting height: 12500mm.
- / Height monitoring and lifting height limitation system are optional.





Standard Specification

- / PU (polyurethane) driving wheel and load wheels
- / High-capacity battery
- / 4 spools control valves
- / Stepless speed regulation for lifting operation
- / Arm cushion, and impact-proof head cushion
- / 3m duplex mast
- / Adjustable steering wheel
- / Front wheel protection hood
- / Safety pedal
- / 180-degree steering mode
- / Sideshifter
- / Fork tilting (2°/4°)
- / Lift top buffering (Triplex mast)
- / Mast move forward/backward buffering
- / Full AC control
- / Automatic speed reduction when the mast lifting high position (Triplex mast)
- / EPS (Electric Power Steering)
- / Automatic speed reduction at the corner

Options

- / 2.7-5.0m duplex mast
- / 4.3-12.5m full-free triplex mast
- / Various fork lengths
- / Imported high-performance battery
- / Optional large capacity battery 420Ah, 560Ah
- / Full automatic high-frequency charger
- / Other attachments
- / Height monitoring system
- / Alarm lamp, rear headlamp or other lamps

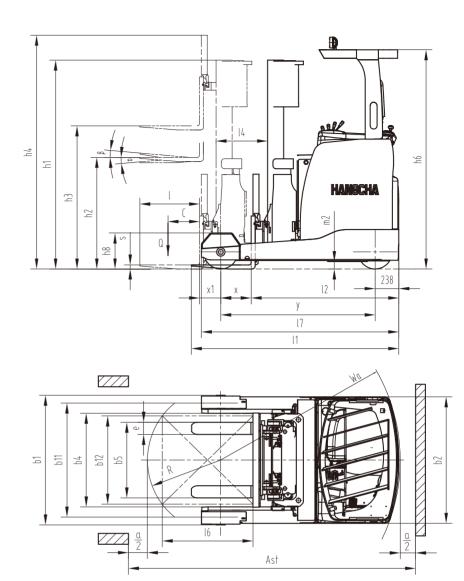
A Series Reach Truck

| | 1.1 | Manufacturer | | | 1AH | NGCHA GROUP CO.,LTE |). | |
|------------------------|--------|--|------------|--------------|--------------|-------------------------------|--------------|--------------|
| | | | | CQD12-AC5* | CQD14-AC5* | CQD16-AC5* | CQD18-AC5* | CQD20-AC5* |
| | 1.2 | Manufacturer's type designation | | COD12-AD6* | COD14-AD6* | CQD16-AD6* | CQD18-AD6* | COD20-AD6* |
| Distinguishing mark | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | electric | electric | electric | electric | electric |
| 흑논 | 1.5 | Rated capacity/rated load | Q (kg) | 1200 | 1400 | 1600 | 1800 | 2000 |
| ng m | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 | 600 |
| Jist | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 325 | 325 | 235 | 235 | 305 |
| | 1.8.1 | Load distance, centre of drive axle to fork,mast reached forward | x1 (mm) | 203 | 203 | 203 | 233 | 233 |
| | 1.9 | Wheelbase | y (mm) | 1480 | 1480 | 1480 | 1480 | 1550 |
| | 1.5 | Witchbase | y (iiiii) | 1400 | 1400 | 1400 | 1400 | 1330 |
| Weight | 2.1 | Service weight (including battery) | Kg | 3130 | 3130 | 3320 | 3330 | 3340 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | polyurethane | polyurethane | polyurethane | polyurethane | polyurethane |
| si S | 3.2 | Tyre size, front | mm | Ø343×114 | Ø343×114 | Ø343×114 | Ø343×135 | Ø343×135 |
| Tyres, chassis | 3.3 | Tyre size, rear ×2 | mm | Ø285×100 | Ø285×100 | Ø285×100 | Ø343×108 | Ø343×108 |
| Ρŧ | 3.5 | Wheels,number front/rear(×=driven wheels) | | 1x/2 | 1x/2 | 1x/2 | 1x/2 | 1x/2 |
| | 3.7 | Tread width,rear | b11(mm) | 1136 | 1136 | 1136 | 1144 | 1144 |
| | 4.1 | Tilt of mast/fork carriage forward/backward | α/β(°) | 2/4 | 2/4 | 2/4 | 2/4 | 2/4 |
| | 4.2 | Height, mast lowered | hı (mm) | 2100 | 2100 | 2100 | 2100 | 2100 |
| | 4.4 | Lift | h₃ (mm) | 3000 | 3000 | 3000 | 3000 | 3000 |
| | 4.7 | Height of overhead guard | he (mm) | 2200 | 2200 | 2200 | 2200 | 2200 |
| | 4.10 | Height of support arms | hs(mm) | 305 | 305 | 305 | 361 | 361 |
| 2 | 4.19 | Overall length | lı(mm) | 2463 | 2463 | 2553 | 2553 | 2553 |
| Sior | 4.20 | Length to face of forks | Iz (mm) | 1393 | 1393 | 1483 | 1483 | 1483 |
| Dimensions | 4.21 | Overall width | b1/b2(mm) | 1270/1270 | 1270/1270 | 1270/1270 | 1286/1270 | 1286/1270 |
| Ë | 4.22 | Fork dimensions ISO | s/e/l (mm) | 40×122×1070 | 40×122×1070 | 40×122×1070 | 40×122×1070 | 40×122×1070 |
| | 4.25 | Distance between fork-arms | bs (mm) | 244-882 | 244-882 | 244-882 | 244-882 | 244-882 |
| | 4.28 | Reach distance | l4 (mm) | 528 | 528 | 438 | 468 | 538 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2838 | 2838 | 2907 | 2907 | 2922 |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2897 | 2897 | 2980 | 2980 | 2984 |
| | 4.35 | Turning radius | Wa (mm) | 1735 | 1735 | 1735 | 1735 | 1804 |
| | 4.37 | Length across wheel arms | l7 (mm) | 1883 | 1883 | 1883 | 1913 | 1983 |
| nce | 5.1 | Travel speed,laden/unladen | Km/h | 10.2/10.2 | 10.2/10.2 | 10.2/10.2 | 10.2/10.2 | 10.2/10.2 |
| Performance data | 5.2 | Lift speed,laden/unladen | m/s | 0.400/0.530 | 0.390/0.530 | 0.370/0.530 | 0.340/0.530 | 0.310/0.530 |
| g g | 5.3 | Lowering speed,laden/unladen | m/s | 0.420/0.480 | 0.420/0.480 | 0.420/0.480 | 0.420/0.480 | 0.420/0.480 |
| Pe | 5.8 | Max. gradeability,laden/unladen | % | 12/15 | 12/15 | 11/15 | 10/15 | 10/15 |
| | 6.1 | Drive motor rating S2 60 min | kW | AC 6.5 | AC 6.5 | AC 6.5 | AC 6.5 | AC 6.5 |
| ine ine | 6.2 | Lift motor rating at S3 15% | kW | AC 12.8 | AC 12.8 | AC 12.8 | AC 12.8 | AC 12.8 |
| Electric- engine | | Steering motor | kW | AC 0.67 | AC 0.67 | AC 0.67 | AC 0.67 | AC 0.67 |
| | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 48/400 | 48/400 | 48/500 | 48/500 | 48/500 |
| | 6.5 | Battery weight | kg | 666 | 666 | 855 | 855 | 855 |
| 5 ~ | 8.1 | Type of drive control | | | α | JRTIS Full AC / INMOTION Full | AC | |
| Addition data | 10.1 | Operating pressure for attachments | bar | 140 | 140 | 165 | 185 | 210 |
| P - | 10.7 | Sound level at the driver's ear according to EN / DIN 12 053 | dB (A) | <75 | <75 | <75 | <75 | <70 |

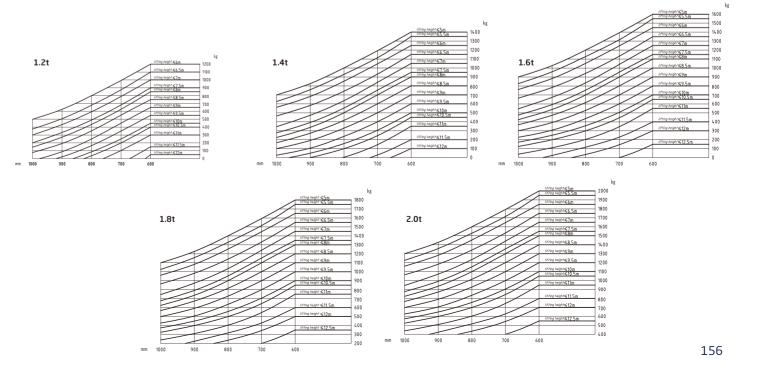
Note: * CE model

1.2t-2.0t Mast specification

| | | Lifting | Mast | Mast ext | tended h ₄ | Free lifting | g height h2 | Tilting | range | | Lo | ad center@600n | ım | |
|------------------|-----------|--------------|---------------|---------------------|-----------------------|---------------------|------------------|---------|----------|------|------|----------------|------|------|
| Туре | Model | height h₃ | lowered h1 | Without backrest | With backrest | Without backrest | With backrest | Forward | Backward | 1.2t | 1.4t | 1.6t | 1.8t | 2.0t |
| | | mm | mm | mm | mm | mm | mm | (°) | (°) | kg | kg | kg | kg | kg |
| | | 2700 | 1950 | 3355 | 3665 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| mast | | 3000 | 2100 | 3655 | 3965 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| E | | 3300 | 2250 | 3955 | 4265 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| Wide view duplex | | 3500 | 2350 | 4155 | 4465 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| B | 08 | 3600 | 2400 | 4255 | 4565 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| > | QAZOB | 4000 | 2650 | 4655 | 4965 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| je. | O | 4300 | 2790 | 4955 | 5265 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| <u>6</u> | | 4500 | 2900 | 5155 | 5465 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| ₽ | | 4800 | 3095 | 5495 | 5765 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| - | | 5000 | 3195 | 5695 | 5965 | 340 | 340 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | | 4300 | 2085 | 4987 | 5265 | 1376 | 1120 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | | 4500 | 2165 | 5170 | 5465 | 1495 | 1200 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | | 4800 | 2265 | 5470 | 5765 | 1595 | 1300 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | | 5000 | 2315 | 5670 | 5965 | 1596 | 1350 | 2 | 4 | 1200 | 1400 | 1600 | 1800 | 2000 |
| | | 5500 | 2490 | 6170 | 6465 | 1796 | 1525 | 2 | 4 | 1200 | 1350 | 1550 | 1750 | 1950 |
| ts | steel) | 6000 | 2665 | 6670 | 6965 | 1995 | 1700 | 2 | 4 | 1200 | 1250 | 1450 | 1650 | 1850 |
| ша | | 6500 | 2835 | 7170 | 7465 | 2136 | 1870 | 2 | 4 | 1100 | 1150 | 1350 | 1550 | 1750 |
| - - | (imported | 7000 | 3020 | 7670 | 7965 | 2350 | 2055 | 2 | 4 | 1000 | 1050 | 1250 | 1450 | 1650 |
| 퓜 | l É | 7500 | 3180 | 8170 | 8465 | 2510 | 2215 | 2 | 4 | 900 | 950 | 1150 | 1350 | 1550 |
| triplex | ĕ | 8000 | 3350 | 8670 | 8965 | 2680 | 2385 | 2 | 4 | 850 | 900 | 1100 | 1300 | 1500 |
| Full free | E | 8500 | 3580 | 9170 | 9465 | 2910 | 2615 | 2 | 4 | 750 | 800 | 1000 | 1200 | 1400 |
| ± | | 9000 | 3800 | 9670 | 9965 | 3130 | 2835 | 2 | 4 | 650 | 700 | 900 | 1100 | 1300 |
| - E | QAZOV (| 9500 | 3970 | 10170 | 10465 | 3300 | 3005 | 2 | 4 | 550 | 600 | 800 | 1000 | 1200 |
| | o | 10000 | 4100 | 10670 | 10965 | 3430 | 3135 | 2 | 4 | 450 | 500 | 700 | 900 | 1100 |
| | | 10500 | 4250 | 11170 | 11465 | 3580 | 3285 | 2 | 4 | 400 | 450 | 650 | 850 | 1050 |
| | | 11000 | 4450 | 11670 | 11965 | 3780 | 3485 | 2 | 4 | 300 | 350 | 550 | 750 | 950 |
| | | 11500 | 4700 | 12170 | 12465 | 4030 | 3735 | 2 | 4 | 150 | 200 | 400 | 600 | 800 |
| | | 12000 | 4900 | 12670 | 12965 | 4230 | 3935 | 2 | 4 | 50 | 100 | 300 | 500 | 700 |
| | | 12500 | 5150 | 13170 | 13465 | 4480 | 4185 | 2 | 4 | \ | \ | 150 | 350 | 550 |



Ast=Wa+R+a=Wa+ $\sqrt{(1_6-x)^2+(\frac{b_{12}}{2})^2}+a$





A Series Premium Version Reach Truck

with capacities of 1,200 to 2,000kg

After several years of design, development, and manufacturing, Hangcha launched a new product lately – the A Series Premium Version Reach Truck: CQD12/14/16/20-AD2H. This truck is mainly used in multi-level warehouse. CQD20-AD2H rated load capacity is 2 tons, maximum lifting height is 12.5m, and the load capacity can reach 1100kg at the maximum lifting height. Its technical parameters and configuration are close to that of similar products of international manufacturers including Crown, Linde, Jungheinrich, and Hyster. This product (A series premium version reach truck) together with standard reach truck constitute the entire family of A Series reach truck of Hangcha. These products supplement with each other in rated tonnage, cover different prices together, and can satisfy different demands in prices, functions, and configuration from various users.

REACH TRUCK ADVANTAGES



10 reasons

choose A series reach truck

- ► **APPEARANCE-** Beautiful / Compact / Ergonomic
- ► HIGH PERFORMANCE- Transmission system / Motor
- ► RENEWABLE ENERGY TECHNOLOGIES- Hydraulic system
- ► PERFECT RESIDUAL LOAD CAPACITY- Mast system
- ► **FLEXIBILITY-** Steering system
- **EXCELLENT ERGONOMIC & COMFORT-** Fingertip system
- ► **ADVANCE-** INMOTION control system
- ▶ **VISIBILITY-** Overhead guard
- ▶ **RELIABILITY-** Plastic oil tank / Braking system
- ► MAINTENANCE- Battery side roll-out



APPEARANCE

Top appearance design teams from Europe and China are engaged to carry out brand-new optimized design for this product. It features beautiful appearance and European design elements, excellent ergonomics and man-computer interaction functions, and inherits appearance elements of A Series electric trucks.





Overall Ergonomic Design



Overall Appearance Design

HIGH PERFORMANCE

The drive system includes the ZF® gearbox imported from Germany with original packaging, the imported Schabmuller® AC drive motor, and the Schabmuller® electric steering motor, with excellent performance, as well as drive system, AC motor, EPS (Electric Power Steering) system, and electromagnetic braking system of same configuration as that of imported brands such as Jungheinrich, Hyster, and other leading manufacturers.

All core parts are ZF products imported from Germany.





VISIBILITY

The overhead guard enables panoramic visibility. There are two pieces of tempered glass of 25mm thickness on top of the overhead guard, which is infilled with glue, offering excellent impact resistance. The visibility above the operator is incomparable and excellent, with reduced psychological burden for the operator.



Optional: Overhead guard with panoramic glass offers excellent visibility for elevated location.

RELIABILITY

The LLD PE plastic oil tank, which increases quality and cleanness of oil effectively, together with hydraulic filter element from German HYDAC, providing much higher cleanness of entire hydraulic system. The oil tank features large volume, fast heat exchange, together with electronic fan within the housing, achieving thermal equilibrium quickly of hydraulic oil at most suitable working temperature.

The reach truck is equipped with electromagnetic braking system, including three separate brakes, two sets of MARTIX electronic drive brake imported from UK, and one set of INTORQ Electric Parking Brake system from Germany. Braking force is proportional to depth of electronic pedal, the braking performance is gentle and reliable.



MAINTENANCE

DIN standard battery is a standard configuration with capacity up to 48V/600Ah, and the maximum capacity available as an option is 775Ah, with powerful endurance. Battery side roll-out is a standard feature, which is convenient for maintenance.



Standard configuration: Battery side roll-out + trolley(optional)

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PERFECT RESIDUAL LOAD CAPACITY

The mast system is made of imported steel channels, and new optimized design is applied for the carriage system, which thoroughly eliminates the problem of shaking and large gap that are detected in previous home-made masts, effectively improves residual load capacity, and increases load capacity reducing height. Maximum lifting height is 12.5m, and load capacity can reach 1100kg at the maximum height.

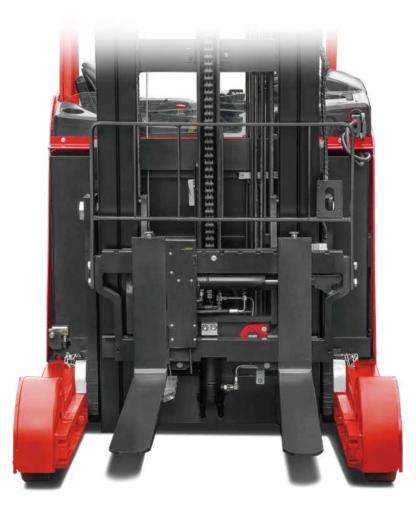


Maximum 12.5m, lifting 1.1t

Automatic select height level function is also optional for the mast system, which can pre-select height automatically according to height of the user's shelf, and the forks lifting will slow down and stop when required height is reached. It is very convenient for stacking work, and can reduce labor intensity and psychological burden of the operator significantly.



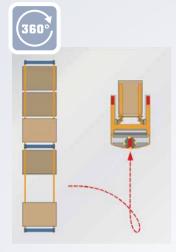
Optional: Preset level selection function



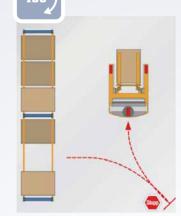


FLEXIBILITY

Electric Power Steering(EPS) system is a standard configuration, which can be switched between 360-degree and 180-degree operations according to habit of the user. The upgraded EPS system effectively avoids the impact of hydraulic control, can reduce fatigue of the operator, and its minimum steering force can reach 3N (that of regular forklift is about 10N).



In the mode of 360-degree steering, when steering exceeds 270 degree, the reverse is switched to forward director, no reversing is required, and the truck is switched to advance automatically, no parking is required, with higher efficiency.



In the mode of 180-degree steering, the truck must be reversed until it stops completely, and the direction must be switched before the truck can travel forward, with lower efficiency.



Whichever of above two modes the operator wants to select, there has a button for switching operation to activate the mode required, which can be selected freely by the operator according to his/her habit.

The electric steering wheel is small and light. The operator can adjust it by moving backward or forward to find a suitable position. The steering wheel have built-in damper, with reliable signal transmission of stepping motor.



Drive wheel automatic centering function

 Automatic limit on speed and accelerated speed when steering

EXCELLENT ERGONOMIC & COMFORT

Fingertip system is a standard feature for the truck (with imported SAUER-DANFOSS hydraulic valve), with four finger control functions of lifting/lowering, mast forward and backward movement, tilt, and sideshift, and seven major functions including direction switching, emergency power off and horn. It offers comfortable operation for operator, with soft armrest. The fingertip system communicate by CAN Bus system, which is reliable and fast. The armrest can be adjusted forward and backward, fingertip system enables more accurate control than mechanical valve.



Fingertip system integrated control system, with good man-machine function





Cutting-edge SAUER-DANFOSS electromagnetic multi-way valve imported from Germany.

With potential energy recovery switching function(optional)

ADVANCE

The truck is equipped with 4 INMOTION controllers, drive controller, oil pump controller, steering controller and valve controller, all controllers communicate by CAN Bus system. Controllers have advanced program and outstanding control strategy (same as that of imported trucks). All core parts are imported or of joint-venture brands, with reliable quality. The entire truck is equipped with waterproof connectors.



Fully-open pedal structure, electrical parts are fully exposed, which is convenient for maintenance

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HANGCHA



Options

- / 5.0~12.5M full free triplex mast is made of imported steel channels
- / Camera system
- / Height level selection/ Fork height display
- / OPS system
- / Panoramic glazed overhead guard
- / Big capacity battery according DIN STD
- / Various length forks
- / Drive in rack overhead guard
- / GRAMMER MSG531 seat

Standard specification

- / SCHABMULLER AC traction motor
- / SCHABMULLER AC steering motor
- / HEPU AC pump motor
- / Electric Parking Brake (EPB) system
- / Load wheel adopts electromagnetic proportional braking technology
- / INMOTION control system
- / Real-time shifting between 360°steering mode and 180°steering mode
- / Electric Power Steering (EPS) system
- / GRAMMER Fingertip system
- / PU tyre
- / LED headlamp
- / Alarm lamp
- / 4 modes power selection
- / 5M full free triplex mast
- / SAUER-DANFOSS 4 spools control valve

- / Load backrest
- / PE LLD material oil tank
- / Imported lower noise gear pump
- / Energy regenerating during deceleration
- / Battery side roll-out
- / Buffering on lifting limit
- / Soft landing system
- / Blue spot
- / Automatic limit on speed and accelerated speed when steering
- / Lift top buffering (Triplex mast)
- / Mast move forward/backward buffering
- / Automatic speed reduction when the mast lifting high position (Triplex mast)

Battery Option

| | 460Ah | 500Ah | 560Ah | 600Ah | 620Ah | 750Ah | 775Ah |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| 1.2/1.4/1.6t | • | 0 | 0 | 0 | 0 | х | х |
| 2.0t | x | x | x | • | 0 | 0 | 0 |

Note: ● Standard ○ Optional X Can not choose

Li-Ion Battery Pack specification

| Туре | | CQD20-AC5H-1* |
|----------------|------|---------------|
| Li-lon battery | V/Ah | 51.52/500 |

Note: * CE model











A SERIES PREMIUM VERSION REACH TRUCK

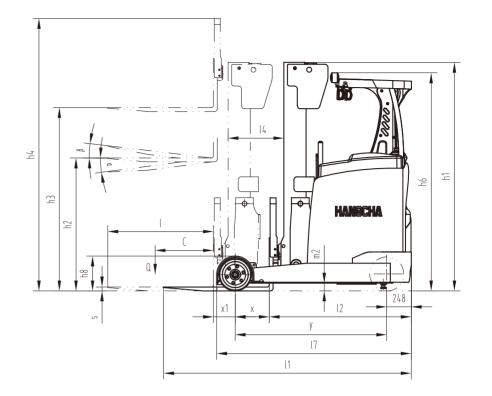
| | | | | | HANCCHA CE | ROUP CO.,LTD. | |
|---------------------|------------|--|---------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| | 1.1 | Manufacturer | | COD4.2 ADCU. | | | CODDO ADCUIT |
| 본 | 1.2 | Manufacturer's type designation | | CQD12-AD6H* CQD12-AC5H | CQD14-AD6H* CQD14-AC5H | CQD16-AD6H* CQD16-AC5H | CQD20-AD6H* CQD20-AC5H* |
| E | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric | Electric | Electric | Electric |
| Distinguishing mark | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Seated | Seated | Seated | Seated |
| lsin | 1.5 | Rated capacity/rated load | Q (kg) | 1200 | 1400 | 1600 | 2000 |
| i g | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 |
| ist | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 269 | 269 | 269 | 344 ¹⁾ |
| | 1.8.1 | Load distance, centre of drive axle to fork,mast reached forward | X1 (mm) | 221 | 221 | 221 | 221 |
| | 1.9 | Wheelbase | y (mm) | 1460 | 1460 | 1460 | 1535 |
| Weight | 2.1 | Service weight (including battery) | kg | 3407 ¹⁾ | 3407 ¹⁾ | 3407 ¹⁾ | 3458 ¹⁾ |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane | Polyurethane | Polyurethane | Polyurethane |
| si ç | 3.2 | Tyre size, front | | Ø343×140 | Ø343×140 | Ø343×140 | Ø343×140 |
| Tyres, chassis | 3.3 | Tyre size, rear ×2 | | Ø330×100 | Ø330×100 | Ø330×100 | Ø330×100 |
| E. £ | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1×/2 | 1×/2 | 1×/2 | 1×/2 |
| | 3.7 | Tread width,rear | b11(mm) | 1168 | 1168 | 1168 | 1168 |
| | 4.1 | Tilt of mast/fork carriage forward/backward | α/β(°) | 2/4 | 2/4 | 2/4 | 2/4 |
| | 4.2 | Height, mast lowered | h1 (mm) | 2315 | 2315 | 2315 | 2315 |
| | 4.3 | Free lift | h2 (mm) | 1350 | 1350 | 1350 | 1350 |
| | 4.4 | Lift | h₃ (mm) | 5000 | 5000 | 5000 | 5000 |
| | 4.5 | Height, mast extended | h4 (mm) | 5965 | 5965 | 5965 | 5965 |
| | 4.7 | Height of overhead guard | h6 (mm) | 2200 | 2200 | 2200 | 2200 |
| | 4.8 | Seat height/stand height | h ₇ (mm) | 1045 | 1045 | 1045 | 1045 |
| <u>ر</u> | 4.19 | Overall length | lı (mm) | 2509 | 2509 | 2509 | 2509 ¹⁾ |
| Dimensions | 4.20 | Length to face of forks | I2 (mm) | 1439 | 1439 | 1439 | 1439 ¹⁾ |
| Sus | 4.21 | Overall width | b1/b2(mm) | 1270 | 1270 | 1270 | 1270 |
| <u> </u> | 4.22 | Fork dimensions | s/e/l (mm) | 40/122/1070 | 40/122/1070 | 40/122/1070 | 40/122/1070 |
| | 4.23 | Fork carriage ISO 2328, class/type A,B | | IS02328 2A | IS02328 2A | IS02328 2A | IS02328 2A |
| | 4.24 | Fork-carriage width | b₃ (mm) | 942 | 942 | 942 | 942 |
| | 4.25 | Distance between fork-arms | bs (mm) | 382-746 | 382-746 | 382-746 | 382-746 |
| | 4.26 | Distance between wheel-arms | b4 (mm) | 940 | 940 | 940 | 940 |
| | 4.28 | Reach distance | I4 (mm) | 490 | 490 | 490 | 565 ¹⁾ |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 68.5 | 68.5 | 68.5 | 68.5 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2871 | 2871 | 2871 | 2889 ¹⁾ |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2938 | 2938 | 2938 | 2945 ¹⁾ |
| | 4.35 | Turning radius | Wa (mm) | 1725 | 1725 | 1725 | 1800 |
| | 4.37 | Length across wheel arms | l7 (mm) | 1895 | 1895 | 1895 | 1970 |
| | 5.1 | Travel speed,laden/unladen | km/h | 14/14 | 14/14 | 14/14 | 14/14 |
| e | 5.2 | Lift speed, laden/unladen | m/s | 0.450/0.480 | 0.410/0.480 | 0.360/0.480 | 0.330/0.480 |
| mar ta | 5.3 | Lowering speed, laden/unladen | m/s | 0.510/0.330 | 0.510/0.330 | 0.510/0.330 | 0.510/0.330 |
| for | 5.8 | Max. gradeability, laden/unladen | % | 12/15 | 12/15 | 11/15 | 10/15 |
| Performance data | 5.9 | Acceleration time, laden/unladen (0-10m) | S | 5.3/5 | 5.3/5 | 5.3/5 | 5.3/5 |
| - | 5.10 | Service brake | | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic |
| | C 1 | Parking brake | 13.7 | Electric | Electric | Electric | Electric |
| | 6.1 6.2 | Drive motor rating S2 60 min | kW | 6.4 AC | 6.4 AC | 6.4 AC | 6.4 AC |
| ي. | _ | Lift motor rating at S3 15% | kW | 12.8 AC | 12.8 AC | 12.8 AC | 12.8 AC |
| Electric | 6.3 6.4 | Battery acc. to DIN 43531/35/36 A,B,C, no | \//Ab | DIN 43531 C | DIN 43531 C | DIN 43531 C | DIN 43531 C |
| 🛎 | | Battery voltage, nominal capacity K5 | V/Ah | 48V /460Ah | 48V /460Ah | 48V /460Ah | 48V /600Ah |
| | 6.5 | Battery weight | kg | 939 | 939 | 939 | 980 1) |
| <u> </u> | 0.1 | Battery dimensions | I/b/h(mm) | 1223×355×784 | 1223×355×784 | 1223×355×784 | 1223×355×784 ¹⁾ |
| Addition data | 8.1 | Type of drive control | | MOSFET/AC | MOSFET/AC | MOSFET/AC | MOSFET/AC |
| l u | 101 | Manufacturer/Type | h | INMOTION/CURTIS | INMOTION/CURTIS | INMOTION/CURTIS | INMOTION/CURTIS |
| l i | 10.1 | Operating pressure for attachments | bar | 150 | 150 | 150 | 150 |
| Add | 10.2 | Oil volume for attachments (max) | I/min | 65 | 65 | 65 | 65 |
| | 10./ | Sound level at the driver's ear according to EN / DIN 12 053 | dB (A) | 72 | 72 | 72 | 72 |

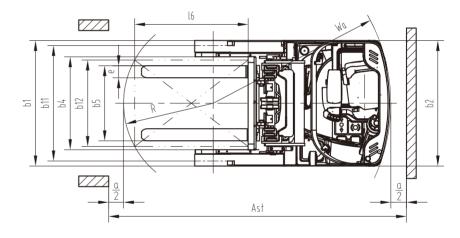
1) different battery sizes change these value

★ CE mode

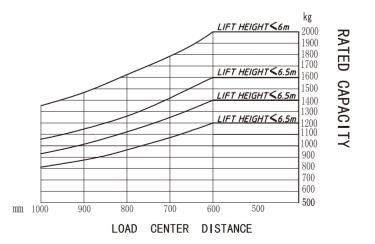
A SERIES PREMIUM VERSION REACH FORKLIFT MAST SPECIFICATION

| | | Lifting | Mast | Mast e | xtended | Free liftin | ig height | Tilting | range | | | ad saaasitu @50/ | 0 | |
|-----------|------------|---------|------------|--------|----------|-----------------------|-----------|---------|----------|----------------------|------|------------------|------|--------------------|
| Туре | Model | height | ht lowered | | With | With Without backrest | With | Forward | Backward | Load capacity @600mm | | | | |
| | | | | | backrest | | backrest | | | 1.2t | 1.4t | 1.6t | 2. | 0t |
| | | mm | mm | mm | mm | mm | mm | (°) | (°) | kg | kg | kg | kg | kg |
| | | 5000 | 2315 | 5670 | 5965 | 1596 | 1350 | 2 | 4 | 1200 | 1400 | 1600 | 2000 | 2000 ¹⁾ |
| | | 5500 | 2490 | 6170 | 6465 | 1796 | 1525 | 2 | 4 | 1200 | 1400 | 1600 | 2000 | 2000 ¹⁾ |
| | ted steel) | 6000 | 2665 | 6670 | 6965 | 1995 | 1700 | 2 | 4 | 1200 | 1400 | 1600 | 2000 | 2000 ¹⁾ |
| | | 6500 | 2835 | 7170 | 7465 | 2136 | 1870 | 2 | 4 | 1200 | 1400 | 1600 | 1900 | 2000 ¹⁾ |
| H # | | 7000 | 3020 | 7670 | 7965 | 2350 | 2055 | 2 | 4 | 1000 | 1200 | 1400 | 1700 | 1800 ¹⁾ |
| mast | | 7500 | 3180 | 8170 | 8465 | 2510 | 2215 | 2 | 4 | 900 | 1100 | 1300 | 1600 | 1700 ¹⁾ |
| l x | | 8000 | 3350 | 8670 | 8965 | 2680 | 2385 | 2 | 4 | 850 | 1050 | 1250 | 1550 | 1650 ¹⁾ |
| triplex | (imported | 8500 | 3580 | 9170 | 9465 | 2910 | 2615 | 2 | 4 | 800 | 1000 | 1200 | 1500 | 1600 ¹⁾ |
| e t | <u>Ĕ</u> | 9000 | 3800 | 9670 | 9965 | 3130 | 2835 | 2 | 4 | 750 | 950 | 1150 | 1450 | 1550 ¹⁾ |
| <u> </u> | > | 9500 | 3970 | 10170 | 10465 | 3300 | 3005 | 2 | 4 | 700 | 900 | 1100 | 1400 | 1500 ¹⁾ |
| Full free | QA20V | 10000 | 4100 | 10670 | 10965 | 3430 | 3135 | 2 | 4 | 650 | 850 | 1050 | 1350 | 1450 ¹⁾ |
| | 0 | 10500 | 4250 | 11170 | 11465 | 3580 | 3285 | 2 | 4 | 600 | 800 | 1000 | 1300 | 1400 ¹⁾ |
| | | 11000 | 4450 | 11670 | 11965 | 3780 | 3485 | 2 | 4 | 550 | 750 | 950 | 1250 | 1350 ¹⁾ |
| | | 11500 | 4700 | 12170 | 12465 | 4030 | 3735 | 2 | 4 | 500 | 700 | 900 | 1200 | 1300 ¹⁾ |
| | | 12000 | 4900 | 12670 | 12965 | 4230 | 3935 | 2 | 4 | 450 | 650 | 850 | 1150 | 1250 ¹⁾ |
| | | 12500 | 5150 | 13170 | 13465 | 4480 | 4185 | 2 | 4 | 400 | 600 | 800 | 1100 | 1200 ¹⁾ |





Ast=Wa+R+a=Wa+
$$\sqrt{(1_6-x)^2+(\frac{b_{12}}{2})^2}+a$$



168

1) Battery capacity:750Ah



A Series Stand-on Reach Truck

with capacities of 1,500 to 1,800kg

The A series stand-on reach truck is a new-generation product developed by our company in response to different market needs. The truck has comfortable ergonomics, wide operating vision and a stable control system.

Comfort

- / Optimal ergonomic design. the steering wheel, operating lever and accelerator are positioned at the best distance to the driver, making the operation lighter more comfortable.
- / The newly designed large-area back support is soft and comfortable, reducing operator fatigue.
- / Use Shimadzu multi-way valves with low start force. And the comfort is increased by 30%.

Safety

- / An optimal four-link suspension mechanism forces the drive wheel and the auxiliary wheels, thereby reducing slipping of the drive wheel.
- / A disc mechanical brake and regenerative braking system make the truck safer and more reliable.
- / Turn speed is controlled to the turning radius, providing stable turning matched to the state of operation.
- / If the operator is not in the normal operating position, travel power is interrupted and load-handling (except lowering) operations are stopped.
- / The right leg of the OHG moves backwards to protect the driver's back in case of a collision.

Reliability

- / The Curtis controller and CAN-bus communication provide safe and reliable.
- / The Shimadzu multi-way valve and gear pump provide higher efficiency and faster lifting speed.
- / EPS system with brushless technology making steering and operation easier and clearer.

Stability

- / Suspension control system effectively reduces the shake when turning、lifting and moving forward and backward
- / The pump motor assembling on the rear side of the body makes the center of gravity moving backwards and improving stability.
- Automatic speed control: Travel speed is controlled according to the lift height, providing stability and safety.



Safe pedal: when the pedal is released, traveling is stopped, and only hydraulic operation is enabled



Charging plug inside operator's compartment, this eliminates the need to disconnect the plug from battery, enhancing ease of operation (Sto



New designed mast and the large open st roof provide super visibility and safety



Operator's compartmen



Forks can tilt forward/backward for easy loadin





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



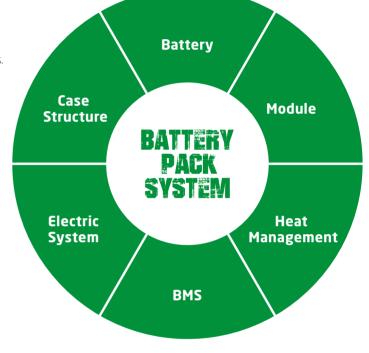


INNOVATIVE SOLUTIONS NEW POWER NOW

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.
- / Long-working: 4000 charging cycles, capacity retention
- / Maintenance-free: Battery does not require manual
- / Green and clean: Pollution-free, zero emissions.

greater than 80%.





Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon powered forklifts are always available. They allow for fast full charging or boost charging. They are maintenance free and do not require a battery change when used for multi-shift operations.

Li-Ion Battery Specification

| Туре | | CQD15-AC5S-I* | CQD18-AC5S-I* |
|---------------------------|------|---------------|---------------|
| Battery voltage, capacity | V/Ah | 48/228● | 48/228● |
| Option capacity | V/Ah | 48/302 | 48/302 |
| There is the same | | ELC 40100 | |

Note: • Available for cold storage

*CE model



Optimal lifting system

- / New optimal manufacturing process ensures the roller gap of the mast, making the mast sways smaller and the vehicle safer.
- / Add 2 safety functions: the mast moves backward to enable hydraulic buffer protection and reduce the speed in this position. It helps reduce the mast swaying when in a high position and makes the vehicle safer.
- / The optimized mast piping with an upper and lower layout mast improves vision of the mast (Triplex mast).
- / The forklift's sleeve structureboasts a simple structure, small mast thickness and light weight.



BATTERY REACH OUT SYSTEM

The battery can be reached out easily. It enables smooth battery maintenance, inspection and replacement.





Maintenance

- / Traction and lifting system are all adopt maintenance-free AC motor.
- / The door can be fully opened for easy maintenance.
- / Battery reach out system is easy for change the battery.
- / The controller and multi-way valve are located on the front side of the body, and it's only necessary to open the front sealing plate during maintenance.





Energy saving and efficient

- / Hangcha's advanced technology providing long working time,cost-effective by reducing truck weight by 16%.
- / The hydraulic system has been optimized to improve the lifting performance. The lifting speed was increased by 23% without load, and the lifting speed was increased by 22% with full load.
- / The traction system adopts large speed ratio gearbox, which makes the motor speed higher and the torque less.
- / The excellent climbing performance increases the climbing performance by 48% without load and climbing performance by 15% with full load.

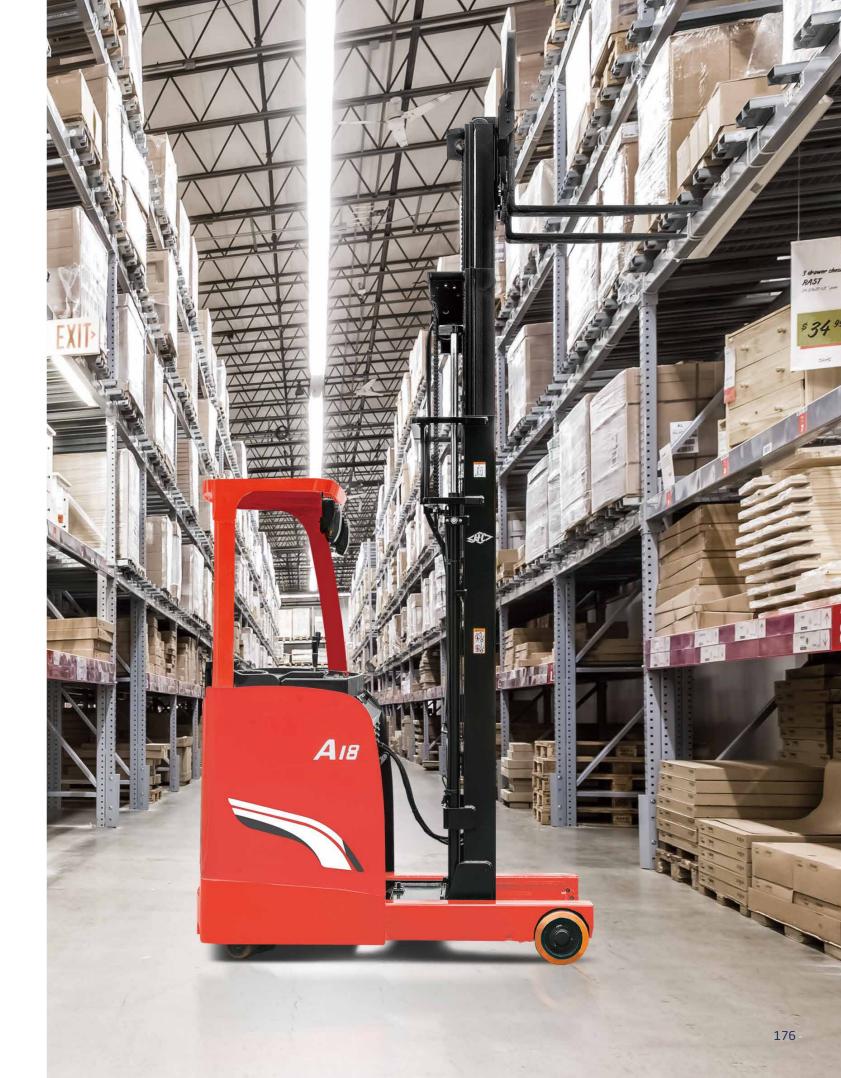
Standard specification

- / Headlights (LED) + turn signals (LED)
- / Shimadzu triple valves
- / AC driving (4kw) + AC lifting (9kw)
- / EPS (Electric Power Steering) system
- / Soft landing
- / Suspension control system
- / Speed control at corner
- / Mechanical brakes
- / Regenerative braking (reverse, neutral, brake)
- / Battery standard: 48V/280Ah
- / USB charge port

Options

- / Warning lights, blue lights
- / Quadruple and quintuplet
- / Anti-rollback system
- / Fork camera / Altimeter
- / Password lock
- / Mirror
- / Fire extinguisher
- / Maximum capacity of the battery: 370Ah
- / Lift top buffering
- / Height level selection
- / Lowering lock valve

| | | CQD15/18-AC2 | 2S | | | | | | |
|-------------|---------------------|--------------|----|---|--|--|--|--|--|
| | Tianneng Zibo Xunqi | | | | | | | | |
| 280 Ah | • | 0 | 0 | | | | | | |
| 290 Ah | | | 0 | | | | | | |
| 300 Ah | 0 | 0 | | 0 | | | | | |
| 313 Ah | | | 0 | | | | | | |
| 325 Ah | 0 | 0 | 0 | 0 | | | | | |
| 350 Ah | 0 | 0 | 0 | | | | | | |
| 375 Ah | 0 | 0 | | 0 | | | | | |
| Std. O Opt. | | | | | | | | | |



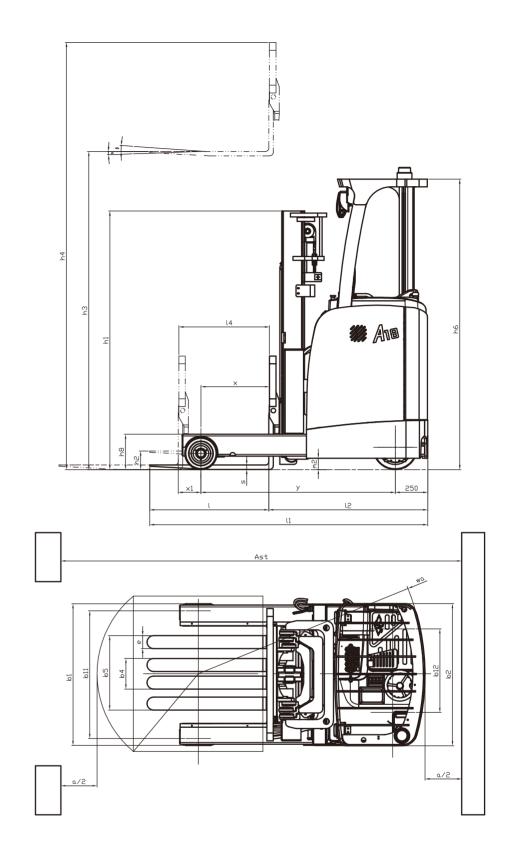
A Series 1.5~1.8t Stand-on Reach Truck Specification

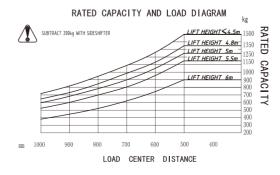
| | 1.1 | Manufacturer | | HANGCHA GF | ROUP CO.,LTD. |
|------------------------|------|--|------------|----------------|----------------|
| | 1.2 | Manufacturer's type designation | | CQD15-AC5S* | CQD18-AC5S* |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric | Electric |
| ing | 1.4 | Operator Position | | Stand On | Stand On |
| Distinguishing mark | 1.5 | Rated capacity/rated load | Q (kg) | 1500 | 1800 |
| iting m | 1.6 | Load centre distance | c (mm) | 500 | 500 |
| Ois | 1.7 | Load distance, centre of drive axle to fork | x (mm) | 375 | 525 |
| | 1.8 | Load distance, centre of drive axle to fork,mast reached forward | x1 (mm) | 175 | 175 |
| | 1.9 | Wheelbase | y (mm) | 1350 | 1500 |
| Weight | 2.1 | Service weight (including battery) | Kg | 2430 | 2460 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane | Polyurethane |
| | 3.2 | Tyre size, rear | mm | Ø343×135 | Ø343×135 |
| ssis | 3.3 | Tyre size, front ×2 | mm | Ø250×105 | Ø250×105 |
| Tyres, chassis | 3.4 | Tyre size,Caster ×2 | mm | Ø150×85 | Ø150×85 |
| /res, | 3.5 | Wheels,number front/rear(×=driven wheels) | | 2/1×+2 | 2/1×+2 |
| 1 | 3.6 | Tread width,front | b11(mm) | 986 | 986 |
| | 3.7 | Tread width,rear | b12(mm) | 645 | 645 |
| | 4.1 | Tilt of mast/fork carriage forward/backward | α/β(°) | 3/5 | 3/5 |
| | 4.2 | Height, mast lowered | h1 (mm) | 1995 | 1995 |
| | 4.3 | Lift | h₃ (mm) | 3000 | 3000 |
| | 4.4 | Mast Extended height | h4 (mm) | 3886 | 3886 |
| | 4.5 | Free lift | hz(mm) | 100 | 100 |
| | 4.6 | Height of overhead guard | he (mm) | 2240 | 2240 |
| | 4.7 | Ground clearance,below mast | mz (mm) | 80 | 80 |
| suc | 4.8 | Height of support arms | hs (mm) | 275 | 275 |
| ensi | 4.9 | Overall length | lı (mm) | 2146 | 2146 |
| Dimensions | 4.10 | Length to face of forks | Iz (mm) | 1226 | 1226 |
| | 4.11 | Overall width | b1/b2(mm) | 1094/1090 | 1094/1090 |
| | 4.12 | Fork dimensions ISO | s/e/I (mm) | 35×100×920 | 35×100×920 |
| | 4.13 | Distance between fork-arms | b4/b5 (mm) | 230-720 | 230-720 |
| | 4.14 | Reach distance | I4 (mm) | 550 | 700 |
| | 4.15 | Aisle width for pallets 1100 x 1100 , clearance 200 | Ast (mm) | 2710 | 2745 |
| | 4.16 | Aisle width for pallets 1000 x 1200 crossways,clearance 200 | Ast (mm) | 2666 | 2715 |
| | 4.17 | Turning radius | Wa (mm) | 1600 | 1750 |
| | 5.1 | Travel speed,laden/unladen | Km/h | 9.5/10.5 | 9.5/10.5 |
|)Ce | 5.2 | Lift speed,laden/unladen | m/s | 0.320/0.550 | 0.300/0.530 |
| Performano Data | 5.3 | Lowering speed,laden/unladen | m/s | 0.440/0.400 | 0.440/0.400 |
| erfo. D | 5.4 | Reach speed,laden/unladen | m/s | 0.110/0.110 | 0.110/0.110 |
| ď | 5.5 | Max. gradeability,laden/unladen | % | 15/20 | 15/20 |
| | 6.1 | Drive motor rating S2 60 min | kW | AC 4 | AC 4 |
| | 6.2 | Lift motor rating at S3 15% | kW | AC 9 | AC 9 |
| Electric- engine | 6.3 | Steering motor | kW | DC 0.45 | DC 0.45 |
| en en | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 48/280 | 48/280 |
| | 6.5 | Battery weight | kg | 485 | 485 |
| | 7.1 | Type of drive control | 6 | CURTIS Full AC | CURTIS Full AC |
| Addition data | 7.2 | Operating pressure for attachments | bar | 140 | 140 |
| Add da | 7.2 | Sound level at the driver's ear according to EN / DIN 12 053 | dB (A) | <75 | <75 |

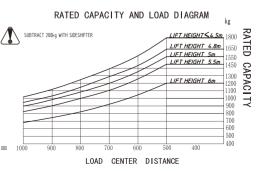
Note: * CE model

1.5~1.8t Mast Specification

| | | Lifting | Mast lowered h1 | Mast extended h4 | Free lifting height hz | Tilting r | ange | Load capacity at 500mm | | |
|---------------|----------|---------|-----------------------|------------------|------------------------|------------------|----------|------------------------|------|--|
| Туре | Model | height | | With | With | Forward Backward | | | | |
| | | h₃ | | backrest | backrest | Torward | Dackward | 1.5t | 1.8t | |
| | | mm | mm | mm | mm | (°) | (°) | kg | kg | |
| | | 2500 | 1745 | 3386 | 100 | 3 | 5 | 1500 | 1800 | |
| | QAZ18M | 2700 | 1845 | 3586 | 100 | 3 | 5 | 1500 | 1800 | |
| Wide view | | 3000 | 1995 | 3886 | 100 | 3 | 5 | 1500 | 1800 | |
| duplex mast | | 3500 | 2245 | 4386 | 100 | 3 | 5 | 1500 | 1800 | |
| duplex illast | | 4000 | 2595 | 4886 | 100 | 3 | 5 | 1500 | 1800 | |
| | | 4500 | 2845 | 5386 | 100 | 3 | 5 | 1500 | 1800 | |
| | | 5000 | 3095 | 5886 | 100 | 3 | 5 | 1250 | 1550 | |
| | | 4500 | 2055 | 5376 | 1179 | 3 | 5 | 1500 | 1800 | |
| Full free | 0.071.00 | 5000 | 2215 | 5876 | 1339 | 3 | 5 | 1250 | 1550 | |
| triplex mast | QAZ18N | 5500 | 2395 | 6376 | 1519 | 3 | 5 | 1150 | 1450 | |
| | | 6000 | 2595 | 6876 | 1689 | 3 | 5 | 900 | 1200 | |









A Series Stand-on Reach Truck

with capacities of 2,000 to 2,500kg

The new A series 2.0-2.5t standing driving forward-moving type is a new product developed by the company for different market needs.

The ergonomically-designed comfortable vehicle has wide operating vision and a stable control system, and is further optimized and improved in terms of configuration, parameter, performance, safety, cost, etc., making this product comparable to foreign brands and have obvious advantages when compared with other similar domestic products.

Comfort

- / Optimized ergonomic design shows the steering wheel, joystick and accelerator to the driver at the best distance, making the driving operations easier and more comfortable.
- / The newly-designed molded broad backrest is soft and comfortable, reducing operator fatigue.
- / Shimadzu's low-power multiway valve reduces operating force and improves comfort by 30%.
- / A new layout provides a larger operation space. The low pedals enable the operator to get on and off the vehicle more easily.
- / The imported LORD sensor enables high safety and makes operations to be adapted to road conditions.

Energy saving and high efficient

- / With equipment rationally arranged on the premise that the strength meets the requirements, the vehicle has less weight and cost and less energy consumption.
- / The hydraulic system is optimized to improve the lifting performance. The no-load lifting performance is increased by 23%, and the full-load lifting performance is increased by 22%.
- / The drive system uses a high speed ratio gearbox to make the motor require higher speed and less torque.
- / The combined LED lights (headlights + turn signal lights) have high brightness and low energy consumption.

Stability

- / Suspension control system efectively reduces the shake when turning, lifting and moving forward and backward.
- / The pump motor assembling on the rear side of the body makes the center of gravity moving backwards and improving stability.
- / Automatic speed control: Travel speed is controlled according to the lift height, providing stability and safety.

Maintenance

- / AC drive and lifting systems with maintenance-free motors are used.
- / AC steering with a maintenance-free motor is provided.
- / The fully open door enables easy repair and maintenance.
- / The controller and multiway valve are provided on the front side of the vehicle body. Only the front sealing plate needs to be opened for maintenance.



Operator's compartment



Safe pedal: when the pedal is released, travelir is stopped, and only hydraulic operation is enabled



Charging plug inside operator's compartment, this eliminates the need to disconnect the plug from battery, enhancing ease of operation (Std.



New designed mast and the large open stee roof provide super visibility and safety



Forks can tilt forward/backward for easy loading



LI-ION TECHNOLOGY

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

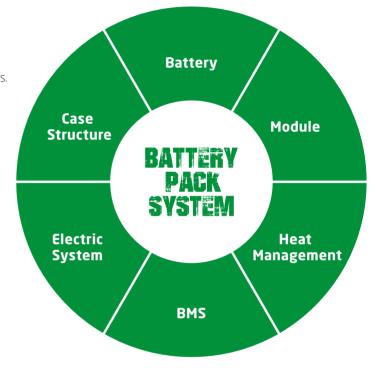




INNOVATIVE SOLUTIONS NEW POWER NOW

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
- / 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.





Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon powered forklifts are always available.
They allow for fast full charging or boost charging.
They are maintenance free and do not require a battery change when used for multi-shift operations.

Li-Ion Battery Specification

| Туре | | CQD20-AC5S-I* | CQD25-AC5S-I* |
|---------------------------|------|---------------|---------------|
| Battery voltage, capacity | V/Ah | 48/302 | 48/302 |
| Titans charger | | SLC-48100 | SLC-48100 |

Note: * CE model

Safety

- / An optimal four-link suspension mechanism forces the drive wheel and the auxiliary wheels, thereby reducing slipping of the drive wheel.
- / A disc mechanical brake and regenerative braking system make the truck safer and more reliable.
- / Turn speed is controlled to the turning radius, providing stable turning matched to the state of operation.
- / If the operator is not in the normal operating position, travel power is interrupted and load-handling (except lowering) operations are stopped.
- / The right leg of the OHG moves backwards to protect the driver's back in case of a collision.



The loading wheels with hydraulic braking make the braking distance shorter and safer



Standard Specification

- / Headlights (LED) + turn signal lights (LED) + alarm lights (LED)
- / Shimadzu's standard triple valve
- / AC driving (5kw) + AC lifting (11kw)
- / Electric steering system (AC 670W motor)
- / Fork descending buffering (cylinder buffering)
- / Suspension control system
- / Automatic turning deceleration
- / Side charge
- / Mechanical brake
- / Regenerative braking (reversing, neutral, braking)
- / Interlock switch
- / In-place switch
- / Standard battery configuration: 48/325Ah
- / USB charging port
- / Hydraulic braking (loading wheels)

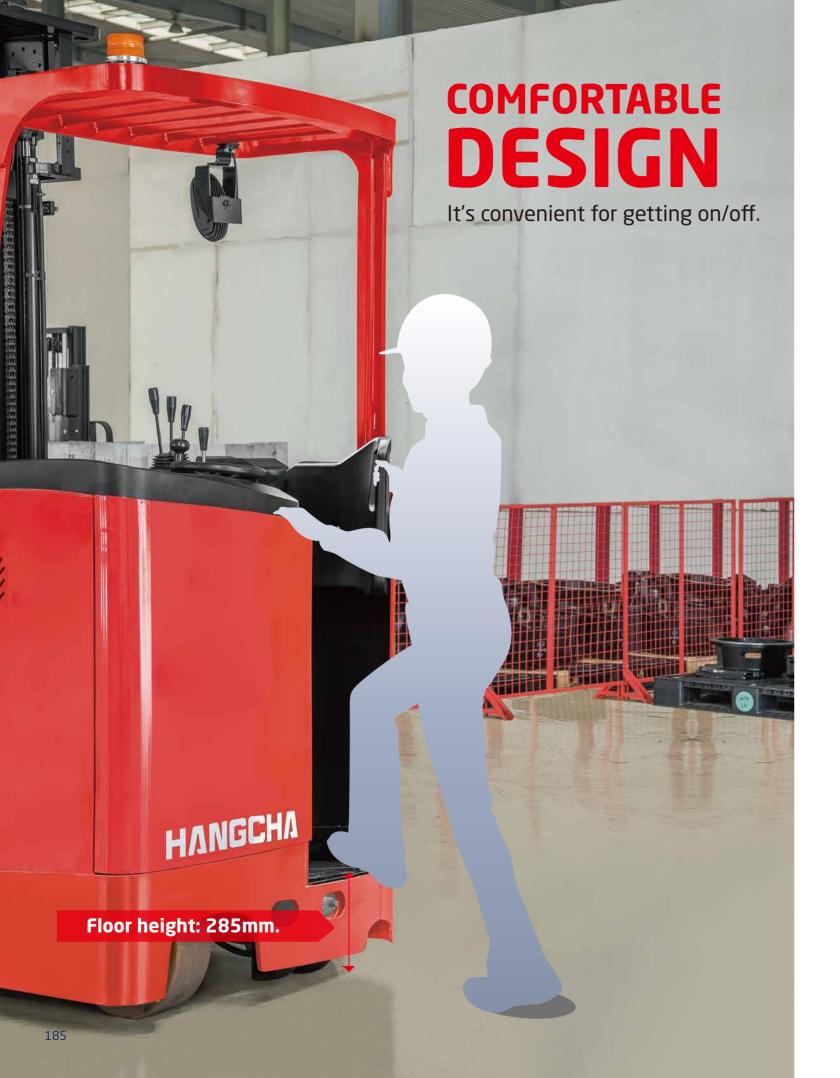
Options

- / Blue lights, straight projection lights
- / Optional quadruple and quintuple (Shimadzu)
- / Skid control system
- / Fork camera
- / Altimeter
- / Code lock
- / Retroreflector
- / Fire extinguisher
- / Maximum battery capacity: 450Ah
- / Ascending buffering
- / Height selection
- / Descending locking valve
- / Side shift
- / Cigarette lighter
- / Smart module
- / Drive-in overhead guard

| CQD20/25-AC5S | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|--|--|--|--|--|--|
| Tianneng Zibo Xunqi Hawker FAAM | | | | | | | | | | | |
| 325 Ah | • | 0 | 0 | 0 | 0 | | | | | | |
| 375 Ah | 0 | 0 | | 0 | 0 | | | | | | |
| 450 Ah | 0 | | | | | | | | | | |

• Std. O Opt.





Optimal lifting system

- / New optimal manufacturing process ensures the roller gap of the mast, making the mast sways smaller and the vehicle safer.
- / Add 2 safety functions: the mast moves backward to enable hydraulic buffer protection and reduce the speed in this position. It helps reduce the mast swaying when in a high position and makes the vehicle safer.
- / The optimized mast piping with an upper and lower layout mast improves vision of the mast (Triplex mast).
- / The forklift's sleeve structureboasts a simple structure, small mast thickness and light weight.



BATTERY REACH OUT SYSTEM

The battery can be reached out easily. It enables smooth battery maintenance, inspection and replacement.





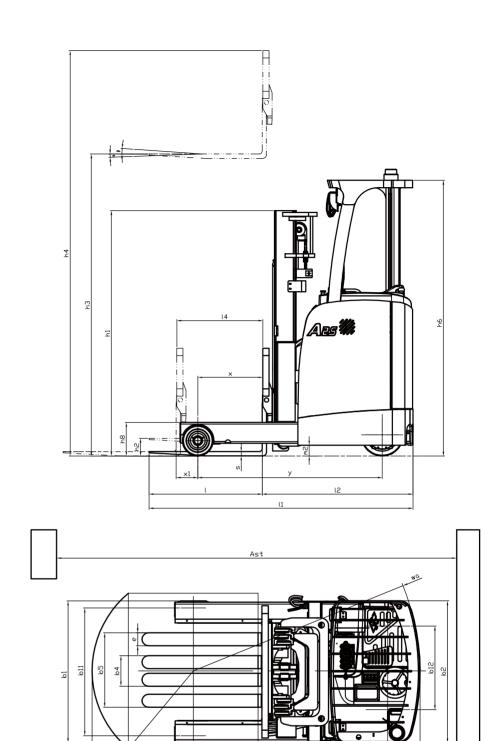
A series stand on reach truck 2.0-2.5t specification

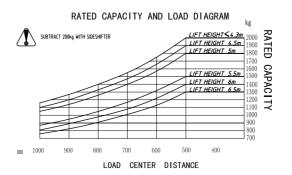
| 1.1 | Manufacturer | | | OUP CO.,LTD. | |
|------|---|--|--|---|--|
| | Manufacturer's type designation | | CQD20-AC5S* | CQD25-AC5S* | |
| 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric | Electric | |
| 1.4 | Operator Position | | Stand On | Stand On | |
| | | O (kg) | | 2500 | |
| | · · · | | | 500 | |
| | | | | 620 | |
| | · | | | 180 | |
| | | | | 1700 | |
| 2.1 | Service weight (including battery) | Kg | 2725 | 2760 | |
| 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane | Polyurethane | |
| 3.2 | Tyre size, rear | mm | Ø343×135 | Ø343×135 | |
| 3.3 | Tyre size, front ×2 | mm | Ø250×120 | Ø250×120 | |
| 3.4 | Tyre size,Caster ×2 | mm | Ø150×85 | Ø150×85 | |
| 3.5 | Wheels,number front/rear(×=driven wheels) | | 2/1×+2 | 2/1×+2 | |
| 3.6 | Tread width,front | b11(mm) | 1074 | 1074 | |
| 3.7 | Tread width,rear | b12(mm) | 685 | 685 | |
| 4.1 | Tilt of mast/fork carriage forward/backward | α/β(°) | 3/5 | 3/5 | |
| 4.2 | Height, mast lowered | h1 (mm) | 2045 | 2045 | |
| 4.3 | Lift | h₃ (mm) | 3000 | 3000 | |
| 4.4 | Mast Extended height | h4 (mm) | 3876 | 3876 | |
| 4.5 | Free lift | h2(mm) | 105 | 105 | |
| 4.6 | Height of overhead guard | | | 2245 | |
| 4.7 | Ground clearance, below mast | | | 80 | |
| 4.8 | Height of support arms | | | 275 | |
| 4.9 | Overall length | lı (mm) | | 2255 | |
| 4.10 | Length to face of forks | | | 1335 | |
| 4.11 | - | | | 1194/1190 | |
| 4.12 | | | | 40×122×920 | |
| 4.13 | | , , | | 278-784 | |
| | | | | 790 | |
| | | | | 2880 | |
| | | | | 2860 | |
| | · · · · · · · · · · · · · · · · · · · | | | 1950 | |
| 5.1 | Travel speed,laden/unladen | Km/h | | 10.5/10.5 | |
| | ' ' | | | 0.280/0.510 | |
| 5.3 | | m/s | | 0.450/0.400 | |
| | | | | 0.110/0.110 | |
| 5.5 | | % | | 10/15 | |
| 6.1 | | kW | | AC 5 | |
| 6.2 | - | | | AC 11 | |
| | | | | AC 0.67 | |
| | | | | AC 0.67 48/325 | |
| | | | | 500 | |
| | | 0 | | CURTIS Full AC | |
| | | har | | 140 | |
| / ·- | Sound level at the driver's ear according to EN / DIN 12 053 | dB (A) | <75 | <75 | |
| | 1.5 1.6 1.7 1.8 1.9 2.1 3.1 3.2 3.3 3.4 3.5 3.6 3.7 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 4.14 4.15 5.1 5.2 5.3 5.4 5.6 6.1 | 1.5 Rated capacity/rated load 1.6 Load centre distance 1.7 Load distance, centre of drive axle to fork 1.8 Load distance, centre of drive axle to fork, mast reached forward 1.9 Wheelbase 2.1 Service weight (including battery) 3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane 3.2 Tyre size, rear 3.3 Tyre size, front ×2 3.4 Tyre size, front ×2 3.5 Wheels,number front/rear(×=driven wheels) 3.6 Tread width, front 3.7 Tread width, front 3.7 Tread width, rare 4.1 Tilt of mast/fork carriage forward/backward 4.2 Height, mast lowered 4.3 Lift 4.4 Mast Extended height 4.5 Free lift 4.6 Height of overhead guard 4.7 Ground clearance, below mast 4.8 Height of support arms 4.9 Overall length 4.10 Length to face of forks 4.11 Overall width 4.12 Fork dimensions ISO 4.13 Distance between fork-arms 4.14 Reach distance 4.15 Aisle width for pallets 1100 x 1100 , clearance 200 4.16 Aisle width for pallets 1100 x 1200 crossways, clearance 200 4.17 Turning radius 5.1 Travel speed, laden/unladen 5.2 Lift speed, laden/unladen 5.3 Lowering speed, laden/unladen 5.4 Reach speed, laden/unladen 5.5 Max. gradeability, laden/unladen 5.6 Battery weight 7.1 Type of drive control | 1.5 Rated capacity/rated load Q (kg) 1.6 Load centre distance c (mm) 1.7 Load distance, centre of drive axle to fork x (mm) 1.8 Load distance, centre of drive axle to fork x (mm) 1.9 Wheelbase y (mm) 1.9 Wheelbase y (mm) 2.1 Service weight (including battery) Kg 3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane 3.2 Tyre size, rear mm 3.3 Tyre size, front ×2 mm 3.4 Tyre size, Caster ×2 mm 3.5 Wheels, number front/rear(×=driven wheels) 3.6 Tread width, front bıı(mm) 3.7 Tread width, front load width, front freat with front width, front freat width, front freat width, front has (mm) 4.1 Titl of mast/fork carriage forward/backward of \(\beta(\beta(\capacitage))\) 4.2 Height, mast lowered hıı (mm) 4.3 Lift has (mm) 4.4 Mast Extended height ha (mm) 4.5 Free lift has (mm) 4.6 Height of overhead guard has (mm) 4.7 Ground clearance, below mast has (mm) 4.9 Overall length la (mm) 4.10 Length to face of forks lız (mm) 4.11 Overall width Doverall width bı/bz(mm) 4.12 Fork dimensions ISO s/e/I (mm) 4.13 Distance between fork-arms bı/bz (mm) 4.14 Asise width for pallets 1100 x 1100 , clearance 200 Ast (mm) 4.15 Aisle width for pallets 1100 x 1200 crossways, clearance 200 Ast (mm) 5.1 Travel speed, laden/unladen m/s 5.2 Lift speed, laden/unladen m/s 5.3 Lowering speed, laden/unladen m/s 5.4 Reach speed, laden/unladen m/s 5.5 Max, gradeability, laden/unladen m/s 6.1 Drive motor rating S2 60 min kw 6.2 Lift motor rating S2 50 min kw 6.3 Steering motor kw 6.4 Battery voltage, nominal capacity K5 V/Ah | 1.5 Rated capacity/rated load Q (kg) 2000 1.6 Load centre distance c (mm) 500 1.7 Load distance, centre of drive axie to fork x (mm) 180 1.8 Load distance, centre of drive axie to fork.mast reached forward x (mm) 180 1.9 Wheelbase y (mm) 1500 2.1 Service weight (including battery) Kg 2725 3.1 Tyres solid rubber, superelastic, pneumatic, polyurethane Polyurethane 2.1 Yere size, rear mm 8343*135 3.3 Tyre size, front *2 mm 8250*120 3.4 Tyre size, front *2 mm 8150*85 3.5 Wheels, number front/rear(*-driven wheels) 2/1**2 3.5 Wheels, number front/rear(*-driven wheels) 10.1(mm) 1074 3.7 Tread width, front bi.(mm) 685 4.1 Till for mast/fork carriage forward/backward o/p() 3/5 4.1 Till for finast/fork carriage forward/backward o/p() 3/5 4.1 | |

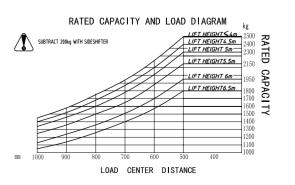
Note: * CE model

2.0~2.5t Mast Specification

| | | Lifting | Mast | Mast extended h4 | Free lifting height hz | Tilting r | ange | Load canacity o | enter at 500mm |
|--------------|---------|---------|---------|------------------|------------------------|-----------|----------|---|----------------|
| Туре | Model | height | lowered | With | With | Forward | Backward | coup capacity center at 555mm | |
| | | hз | h1 | backrest | backrest | roiwaiu | Dackwaiu | 2.0t | 2.5t |
| | | mm | mm | mm | mm | (°) | (°) | kg kg 2000 2500 2000 2500 2000 2500 2000 2500 2000 2500 2000 2500 2000 2400 1900 2400 1800 2300 2000 2400 1900 2400 1800 2300 1500 2150 1400 1950 | |
| | | 2500 | 1795 | 3376 | 105 | 3 | 5 | 2000 | 2500 |
| | | 2700 | 1895 | 3576 | 105 | 3 | 5 | 2000 | |
| | | 3000 | 2045 | 3876 | 105 | 3 | 5 | 2000 | 2500 |
| Wide view | QAZ25M | 3500 | 2295 | 4376 | 105 | 3 | 5 | 2000 | 2500 |
| duplex mast | QAZZ3I1 | 4000 | 2645 | 4876 | 105 | 3 | 5 | | 2500 |
| | | 4300 | 2795 | 5176 | 105 | 3 | 5 | 2000 | 2400 |
| | | 4500 | 2895 | 5376 | 105 | 3 | 5 | 1900 | 2400 |
| | | 5000 | 3145 | 5876 | 105 | 3 | 5 | 1800 | 2300 |
| | | 4300 | 2040 | 5176 | 1164 | 3 | 5 | 2000 | 2400 |
| | | 4500 | 2105 | 5376 | 1229 | 3 | 5 | 1900 | |
| Full free | | 5000 | 2265 | 5876 | 1389 | 3 | 5 | 1800 | 2300 |
| | QAZ25N | 5500 | 2445 | 6376 | 1569 | 3 | 5 | 1500 | 2150 |
| triplex mast | | 6000 | 2615 | 6876 | 1739 | 3 | 5 | 1400 | 1950 |
| | | 6500 | 2850 | 7376 | 1974 | 3 | 5 | 1300 | 1800 |
| | | 7000 | 3070 | 7876 | 2194 | 3 | 5 | 700 | 1000 |









A Series Man-down Turret Truck

with capacities of 1,200kg

189

A series Man-down Turret Truck is applicable for use in warehouses that need to be upgraded or have limited storage space. The attachment can rotate 180 degrees and can stack goods left and right from the aisle. This greatly improves the space utilization rate. The ergonomically-designed comfortable vehicle has a wide operating vision and a stable control system and is further optimized and improved in terms of configuration, parameter, performance, safety, cost, etc.

Comfort

- / With its optimized ergonomic design and the imported Grammer fingertip system, proportional adjustments can improve the comfort and reliability greatly.
- / The soft and comfortable mechanical shock-absorbing seat can reduce the operator's fatigue.
- / The LORD sensor with an adjustable damping mechanism enables a good hand feel and a limiting function.
- / Spacious cab, suspension seat and intuitive layout of all controls all provide comfortable compartment. Low step in height is easy for access.

Safety

- / With mature technology, the ZF transmission assembly is highly reliable.
- / The regenerative braking system provides safer and more reliable driving.
- / Speed reductions functions makes the driving smoother and safer.
- / Synchronous swivel with stop at 90 degrees.
- / The smart of HANGCHA control system continuously monitors the truck's technical potential in order to deliver optimum simultaneous travel speeds relative to lift height.
- / All round visibility with the ergonomically designed structure improve the safety greatly.

Stability

- / The center of gravity of the vehicle is moved backwards and the reduced load distance provides great longitudinal stability.
- / Proportional acceleration and proportional braking enable less impact during acceleration and braking.

Maintainability

/ AC drive motor and lifting motor are all maintenance-free. / AC steering motor is maintenance-free also.



A perfect interface between operator and truck has been achieved with the HANGCHA ergonomic desig concept



Camera systems for driving and pallet handling



Rail or wire guidanc



Fully open door enables easy repair and maintenance



Battery side roll out



Productivity

- / The unique modular design ensures that an individual truck specification can match the application precisely in order to maximise productivity at all times.
- / The driving system adopts a gearbox with a large speed ratio, so that the motor requires a higher speed and a smaller torque.
- / The LED headlights and alarm lights provided high brightness and low energy consumption.

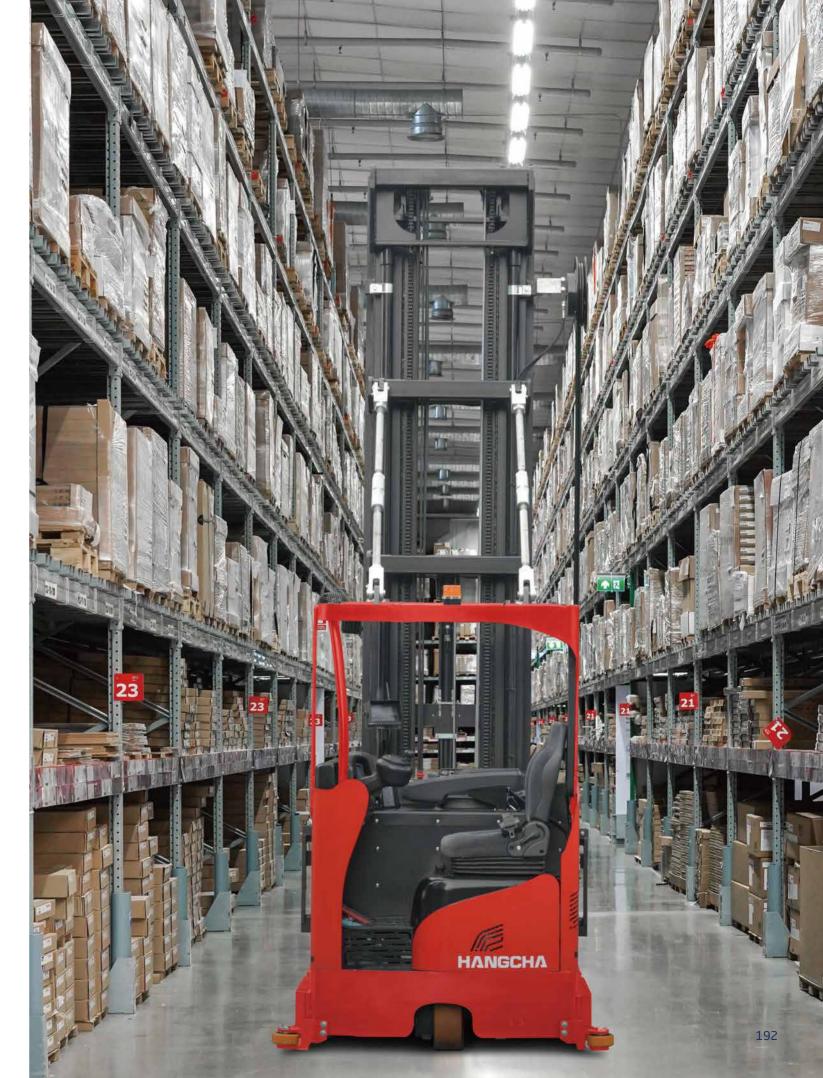
Standard configuration

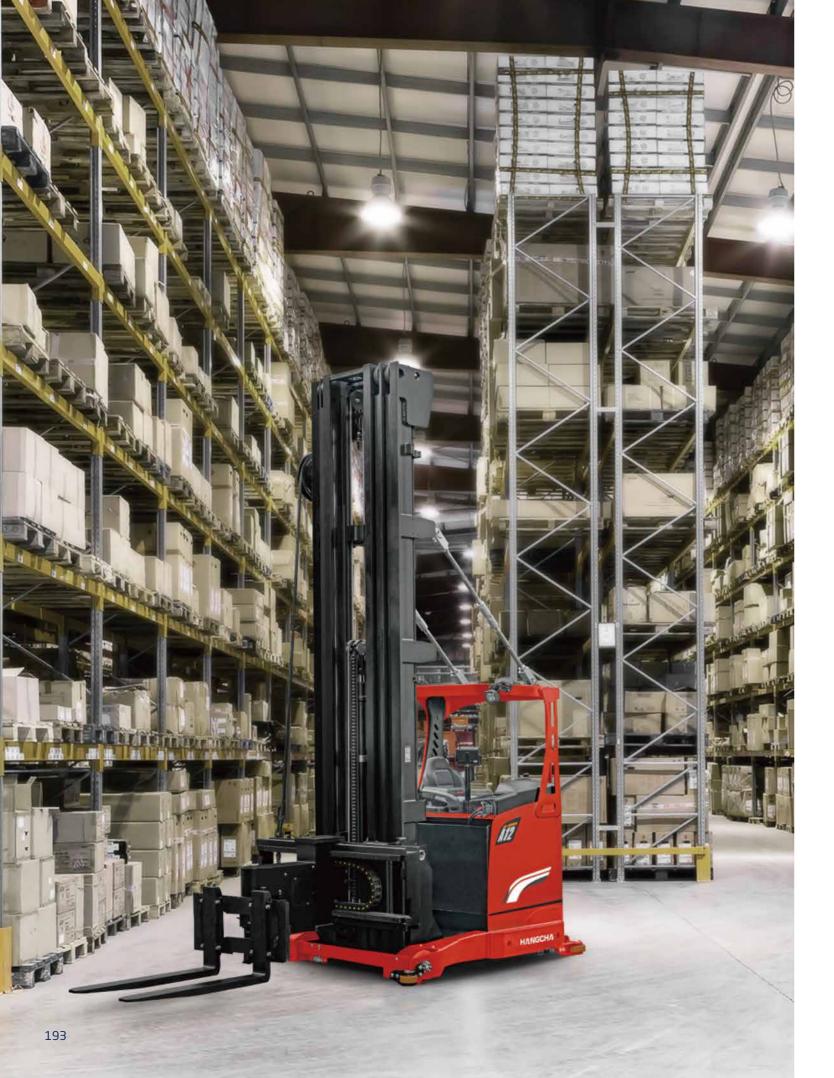
- / Headlights (LED) + alarm lights (LED) + blue light
- / Sauer Danfoss quadruple valve
- / AC driving (6.5kw) + AC lifting (12.8kw)
- / EPS system
- / Fingertip system
- / Inmotion AC control system
- / Battery side roll out
- / LORD sensor
- / Regenerative braking (reversing, neutral, braking)
- / Camera systems for driving and pallet handling
- / Standard battery: 48V/525Ah
- / Duplex 5m mast
- / Lowering locking
- / Reversing buzzer

Options configuration

- / Altimeter
- / Pin code access
- / Retroreflector
- / Fire extinguisher
- / Maximum battery capacity: 775Ah
- / Lifting buffering
- / Lift height preselection
- / Fire extinguisher
- / Magnetic stripe guidance
- / Triplex mast
- / Soft landing
- / Lithium battery 51.52V/500Ah







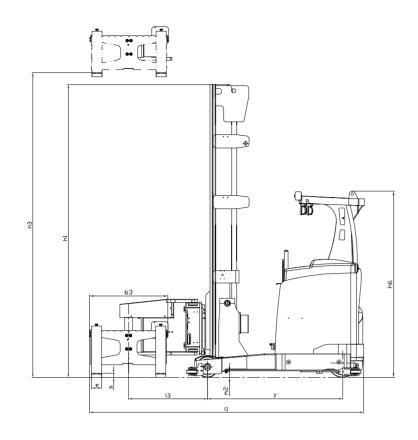
A Series 1.2t Man-down Turret Truck Specification

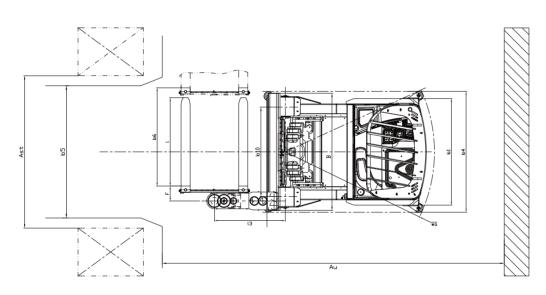
| | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. |
|------------------|------|---|-----------|------------------------|
| | 1.2 | Manufacturer's model designation | | CSD12-AED6* |
| stics | 1.3 | Power unit | | Electric |
| teri | 1.4 | Operation | | Seated |
| Characteristics | 1.5 | Load carrying capcity | Q(kg) | 1200 |
| 5 | 1.6 | Load centre | c(mm) | 600 |
| | 1.9 | Wheelbase | y(mm) | 1610 |
| Weight | 2.1 | Weight(incl.battery) | Kg | 5065 |
| | 3.1 | Tyres | | Polyurethane |
| <u>s</u> | 3.2 | Tyre size,front | mm | Ø343×140 |
| Wheels | 3.3 | Tyre size,rear | mm | Ø250×105 |
| 3 | 3.5 | Wheels,number front/rear(x=drive wheel) | | 4/1× |
| | 3.6 | Track width,rear | b10(mm) | 1184 |
| | 4.2 | Height of mast,lowered | h1(mm) | 3500 |
| | 4.4 | Lift height | h₃(mm) | 5000 |
| | 4.5 | Height,mast raised | h4(mm) | 6000 |
| | 4.7 | Height to top of overhead guard | he(mm) | 2216 |
| | 4.19 | Over length(incl.forks) | lı(mm) | 3264 |
| | 4.21 | Over weidth | b1/b2(mm) | 1410/1500 |
| <u>د</u> | 4.22 | Fork dimensions | s/e/l(mm) | 50×122×1220 |
| Basic Dimensions | 4.24 | Width of fork carriage | b₃(mm) | 900 |
| ii. | 4.27 | Width over side guide rollers | b4(mm) | 1600 |
| Sic D | 4.29 | Lateral reach travel | pe(mm) | 1300 |
| Ba | 4.32 | Ground clearance at centre of wheelbase | m2(mm) | 65 |
| | 4.34 | Aisle width | Ast (mm) | 1750 |
| | 4.35 | Turning radius | Wa(mm) | 1975 |
| | 4.38 | Centre of axle to fork pivot | l₃(mm) | 938 |
| | 4.40 | Width of reach carriage | B(mm) | 1550 |
| | 4.41 | Head width | F(mm) | 155 |
| | 4.42 | Transfer aisle width(min.) | Au(mm) | 3800 |
| | 5.1 | Travel speed,with/without load | Km/h | 6/8 |
| nce | 5.2 | Lift speed,with/without load | m/s | 0.300/0.400 |
| Performance | 5.3 | Lowering speed,with/without load | m/s | 0.400/0.300 |
| erfc | 5.4 | Reach speed,with/without load | m/s | 0.100/0.100 |
| " | 5.10 | Brakes | | Regenerative |
| | 6.1 | Drive motor,power S2 60 min | kW | AC 6.5 |
| ٤ ا | 6.2 | Lift motor,Power at S3 15% | kW | AC 12.8 |
| E-motors | 6.3 | Battery | | DIN-C |
| Ę. | 6.4 | Battery type,voltage,capacity(5h) | V/Ah | 48/525 |
| | 6.5 | Battery weight(±5%) | kg | 1119 |
| J | 8.1 | Type of drive control | | INMOTION |
| Misc | 8.4 | Noise level at operator's ear | dB(A) | <75 |
| | | | () | · - |

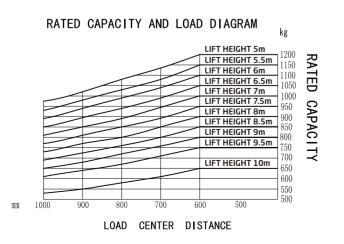
Note: * CE model

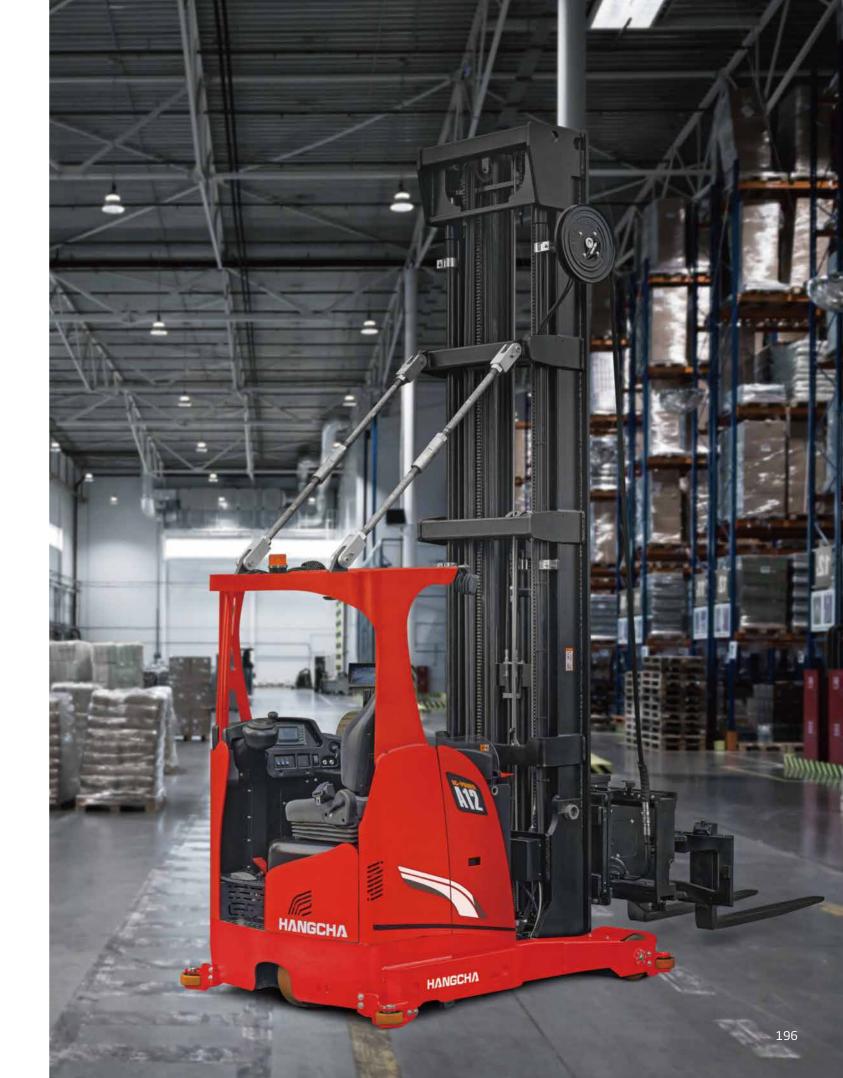
Mast Specification

| Туре | Model | Lifting height ha | Mast lowered h1 | Mast extended h4 | Free lifting height h2 | Load capacity center at 600mm |
|---------------------------|--------|-------------------------|-----------------------|------------------------|------------------------------|-------------------------------|
| | | mm | mm | mm | mm | kg |
| | | 5000 | 3500 | 6000 | 1 | 1200 |
| | | 5500 | 3700 | 6500 | 1 | 1150 |
| - 15 | | 6000 | 4000 | 7000 | 1 | 1100 |
| Wide view duplex mast | Σ | 6500 | 4250 | 7500 | 1 | 1050 |
| e v | ASE12M | 7000 | 4500 | 8000 | 1 | 1000 |
| ᅙ | AS | 7500 | 4750 | 8500 | 1 | 950 |
| | | 8000 | 5000 | 9000 | 1 | 900 |
| | | 8500 | 5250 | 9500 | 1 | 850 |
| | | 9000 | 5500 | 10000 | 1 | 800 |
| | | 5000 | 2800 | 6100 | 1700 | 1200 |
| | | 5500 | 2970 | 6620 | 1850 | 1150 |
| | | 6000 | 3140 | 7140 | 2000 | 1100 |
| Ħ | | 6500 | 3310 | 7610 | 2200 | 1050 |
| nas | Z | 7000 | 3480 | 8130 | 2350 | 1000 |
| = × | ASE12N | 7500 | 3650 | 8650 | 2500 | 950 |
| Full free triplex mast | As | 8000 | 3810 | 9110 | 2700 | 900 |
| | | 8500 | 3980 | 9630 | 2850 | 850 |
| | | 9000 | 4140 | 10140 | 3000 | 800 |
| | | 9500 | 4300 | 10600 | 3200 | 750 |
| | | 10000 | 4500 | 11150 | 3350 | 650 |











Turret Stockpicker

with capacities of 3,000 to 3,500lbs

The 3,000-3,500lbs man-up tri-lateral stacker for narrow aisles and high bay warehouses can meet the needs of customers for operations in narrow aisles and high stacking heights. Featuring a high lift, high load capacity and small turning radius, as well as advanced performance, easy operations, high safety and reliability, etc., it is an ideal solution for material handing, stacking and picking in high level warehouse.

EXCELLENT ERGONOMIC

Comfort

- / Electro-hydraulic proportional integrated control system allows for more accurate and smooth operations.
- / EPS (Electric Power Steering) makes steering more gentle and comfortable.
- / The joystick can be adjusted according to the operator's using habits.
- / A new integrated instrument has complete functions and clear readings.





You can conveniently change the driving mode between stand-on type and seated type.



Low step on height for easy on and off.



Equipped with the electro-hydraulic control buffer system, the fork slows down automatically when arriving at an end of any position to reduce the impact.



The ergonomically arranged joystick, instruments and switches make operations more comfortable and flexible.



SIMPLY ROBUST. SIMPLY RELIABLE.

Appearance

/ Streamlined surface modelling, smooth profile outlines, attractive and agreeable.

Stability

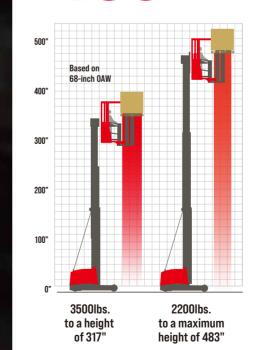
- / Wide body structure design allows the stacker to have good stability.
- / Frame and mast made of high-strength framework structure and low center of gravity enable good stability.



MAXIMUM EFFICIENCY

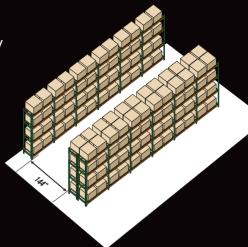
- / The narrow aisles required for operations and the fork lift height up to 483 inch maximize the space availability of your warehouses.
- / The high lift mast boasts high load capacity and improved stacking efficiency.
- / The high-power AC oil pump motor and the largedisplacement silent gear pumps are used to greatly increase the lifting and lowering speed, as well as its operating efficiency.
- / The energy-saving electro-hydraulic control hydraulic system makes the whole stacker energy-saving and efficient and enables the battery to support longer operating hours.
- / With multi-speed models, the stacker is adapted to different operating conditions.

More Height 483"



Traditional Sit-Down/ Counterbalance:

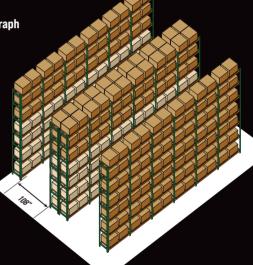
Aisle width: 144" Pallet levels: 4 Pallet positions: 144



Narrow Aisle Pantograph Single Reach Truck

Aisle width: 108" Pallet levels: 7 Pallet positions: 336

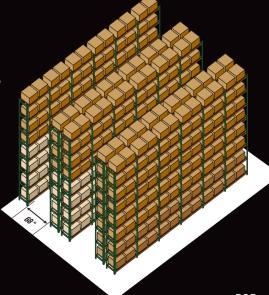
133% more capacity



Very Narrow Aisle

Aisle width: 68" Pallet levels: 8 Pallet positions: 480

233% more capacity





HIGH PERFORMANCE IN HIGH RACKS.

Advancement

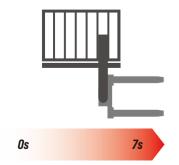
- / Electromagnetic brake is used to realize intelligent braking allows for more efficient and safer braking.
- / With the advanced electro-hydraulic control system, the traveling speed is automatically associated with the lifting height and turning angle; The load weight is automatically associated with the lifting height; Thus the fork position is intelligently identified and the traveling speed is controlled.
- / The integrated mechanical, electrical and hydraulic control achieves the step-less speed regulation of the driving and the fork movement, allowing for more precise and stable control.
- / The large-screen LCD display and the gauges with fault self-diagnosis functions can accurately display information in harsh environments.
- / With efficient and precise adjustment performance, the newly equipped AC control system supports longer operating hours after being charged once.
- / The dynamic variable hydraulic system enables lowered oil temperature, being energy-saving and efficient.







The fork has high lifting and lowering speeds and high operating efficiency



Traverse Speed

Complete full traverse in 7 seconds.

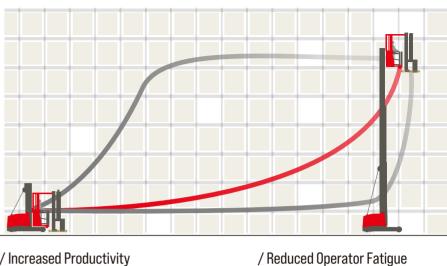


Pivot Speed

Complete a full, 180-degree pivot in 10 seconds.

Auto Positioning System

Takes the most effective route to the next rack location.



/ Increased Productivity
/ Increased Pick Accuracy

/ Flexibility

Reliability and safety

- / The low center of gravity at three pivots and the high strength of the main force-bearing components such as frame and mast are designed to meet heavy-duty operating conditions.
- / The main electrical components such as the motor controller, contactor, power plug and emergency cut-off switch are all products of well-known brands.
- / The AC power system has high efficiency, complete protection functions and greatly improved reliability and service life.
- / The optional front and rear wheel braking systems allowing large braking torque are suitable for indoor slippery roads.
- / The double safety pedals, left and right guardrails, automatic induction joystick and other active and passive safety systems are equipped to prevent hazards caused by mis-operation.





The optimized design of the wide-view mast enables the operator to get a better view and thus operate the stacker more safely.

Maintainability

- / The brushless AC motor is maintenance-free and significantly reduces the operating costs.
- / The fully open door enables easy repair, maintenance and commissioning.
- / The battery removed side roll out enables easy repair and maintenance.
- / The electronically controlled electrical components are placed together and are highly integrated.



Options

- / Different battery (compartment) sizes
- / Forks of different specifications
- / Different lift height
- / Blue light
- / Fan
- / 12 V power plug
- / Fire extinguisher
- / Monitoring system
- / Magnetic navigation;
- / Guide roller
- / Load height limiting device



Standard Specification

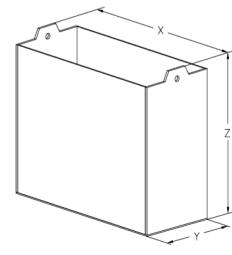
- / AC motor and controller
- / Stand-on type & seated type
- / Electro-hydraulic proportional valve system
- / Low-noise gear oil pump
- / Battery side roll out
- / Electric horn
- / Reverse buzzer
- / Multi-function instrument
- / Fork height display
- / Alarm light
- / LED light in the cabin
- / Safety rope
- / Polyurethane wheel tyre
- / Laneway mode
- / Electric power steering system
- / Electromagnetic parking brake
- / Security operating system
- / Travelling speed control during lifting
- / Central sideshift
- / Chain looseness reminder
- / Travelling speed control at corner
- / Lateral barriers left and right

Mast Specification

| | Total height | Lift | Auxiliary Lift | Free lift | Height mast lowered | Height, mast extended | Load capacity @600mm/24inch | |
|------------------------|--------------|------------|----------------|-----------|------------------------|-----------------------|-----------------------------|------------|
| | h3 + h9 | h3 | h9 h2 + h9 | | hı | h4 | CSDS14 | CSDS16 |
| | in(mm) | in(mm) | in(mm) | in(mm) | in(mm) | in(mm) | lb/kg | lb/kg |
| | 212(5375) | 140(3565) | 71(1810) | 71(1810) | 131(3330) | 253(6435) | 3000(1361) | 3500(1588) |
| | 226(5740) | 155(3930) | 71(1810) | 71(1810) | 138(3510) | 268(6800) | 3000(1361) | 3500(1588) |
| * | 242(6144) | 171(4334) | 71(1810) | 71(1810) | 146(3715) | 284(7205) | 3000(1361) | 3500(1588) |
| mas m | 258(6548) | 187(4738) | 71(1810) | 71(1810) | 154(3915) | 300(7610) | 3000(1361) | 3500(1588) |
| free | 274(6952) | 202(5142) | 71(1810) | 71(1810) | 162(4120) | 316(8015) | 3000(1361) | 3500(1588) |
|] j | 290(7356) | 218(5546) | 71(1810) | 71(1810) | 170(4320) | 331(8415) | 2900(1315) | 3500(1588) |
| Double full free mast | 306(7760) | 234(5950) | 71(1810) | 71(1810) | 178(4520) | 347(8820) | 2800(1270) | 3500(1588) |
| | 321(8164) | 250(6354) | 71(1810) | 71(1810) | 186(4725) | 363(9225) | 2600(1180) | 3400(1540) |
| | 337(8568) | 266(6758) | 71(1810) | 71(1810) | 194(4925) | 379(9630) | 2500(1135) | 3300(1495) |
| | 345(8770) | 274(6960) | 71(1810) | 71(1810) | 198(5025) | 387(9830) | 2400(1090) | 3200(1450) |
| | 279(7090) | 208(5280) | 71(1810) | 140(3560) | 138(3308) | 321(8150) | 3000(1361) | 3500(1588) |
| | 303(7700) | 232(5890) | 71(1810) | 148(3770) | 138(3510) | 345(8760) | 2900(1315) | 3500(1588) |
| t s | 327(8310) | 256(6500) | 71(1810) | 156(3975) | 146(3715) | 369(9370) | 2700(1225) | 3400(1540) |
| e ma | 351(8920) | 280(7110) | 71(1810) | 165(4180) | 154(3915) | 393(9980) | 2580(1170) | 3200(1450) |
| l te | 375(9530) | 304(7720) | 71(1810) | 173(4385) | 162(4120) | 417(10590) | 2360(1070) | 3000(1361) |
| x fu | 399(10140) | 328(8330) | 71(1810) | 181(4590) | 170(4320) | 441(11200) | 2200(1000) | 2800(1270) |
| friplex full free mast | 423(10750) | 352(8940) | 71(1810) | 189(4800) | 178(4520) | 465(11810) | 2020(915) | 2600(1180) |
| - | 447(11360) | 376(9550) | 71(1810) | 197(5005) | 186(4725) | 489(12420) | 1900(860) | 2400(1090) |
| | 471(11970) | 400(10160) | 71(1810) | 205(5210) | 194(4925) | 513(13030) | 1750(795) | 2250(1020) |
| | 483(12275) | 412(10465) | 71(1810) | 209(5315) | 198(5025) | 525(13335) | 1600(725) | 2050(930) |

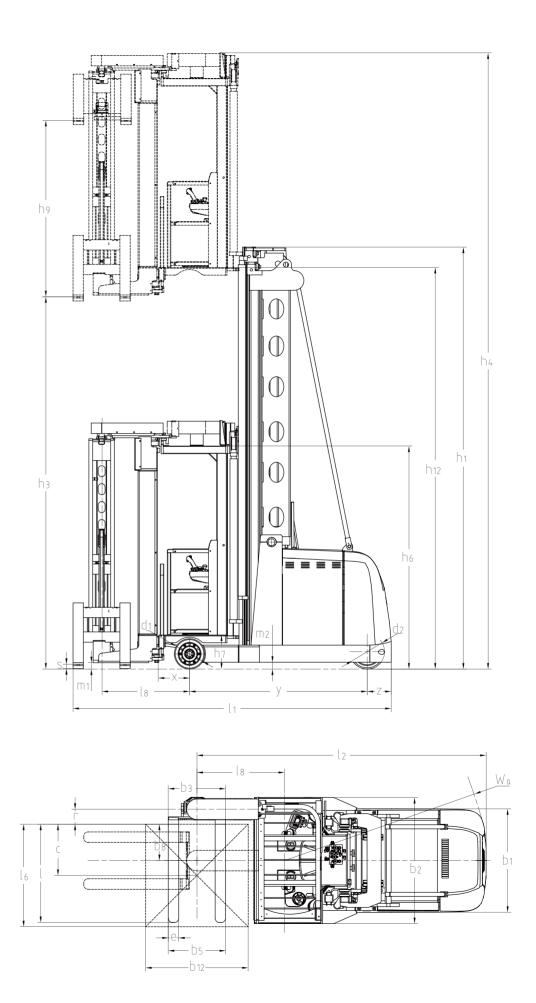
Table 1

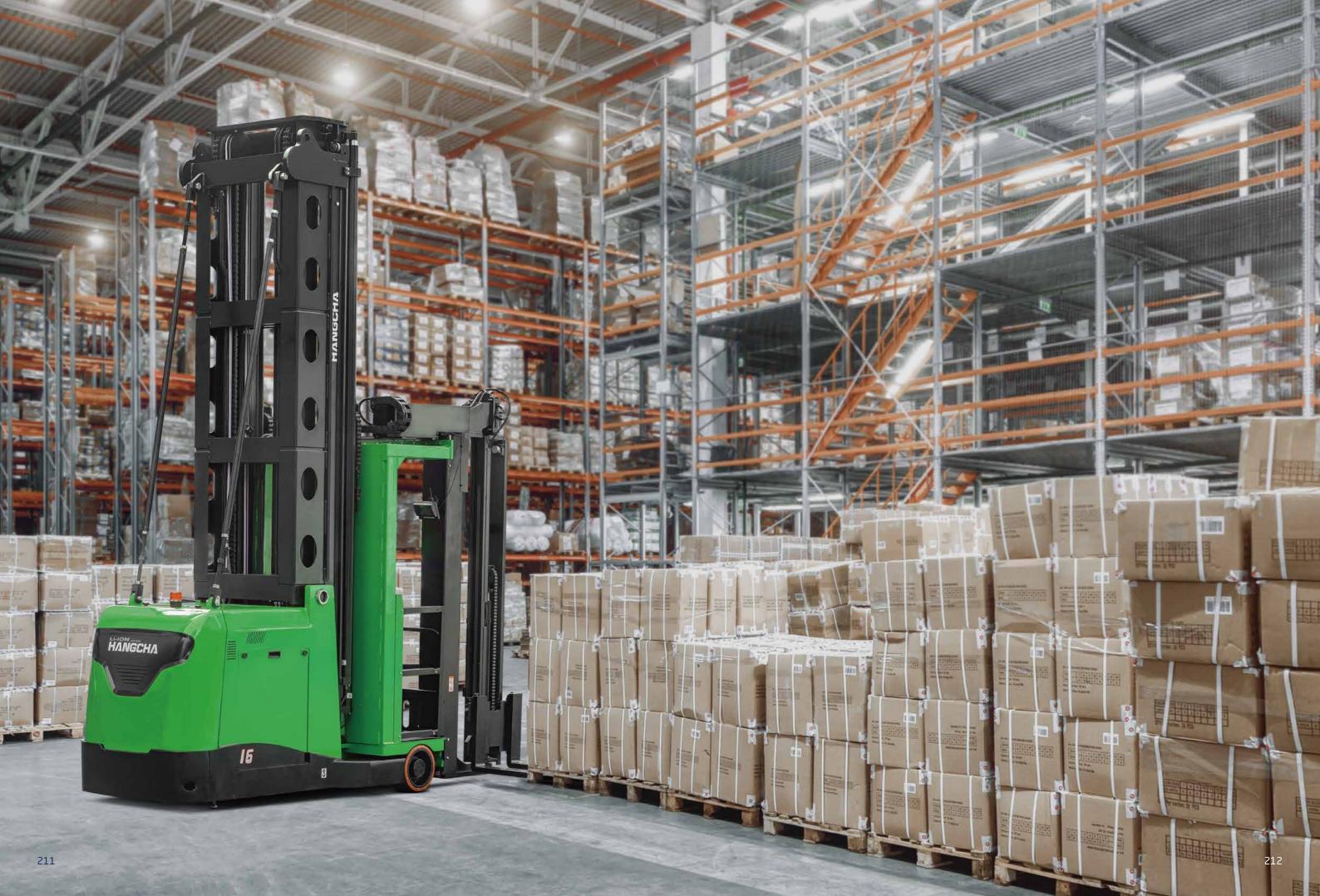
| Battery | and compartment size | | | А | В | С | D | E |
|---------|------------------------------------|----------|------------|-------------|-------------|-------------|-------------------------|-------------------------|
| | Battery Voltage | | V | 80 | 80 | 80 | 80.5 | 80.5 |
| 6.4 | Battery Type | | | Lead-acid | Lead-acid | Lead-acid | Lithium | Lithium |
| | Battery capacity maximum 5 Hr Rate | | Ah | 465 | 620 | 930 | 604 | 906 |
| | "X" Max. | | in(mm) | 40.5(1028) | 40.5(1028) | 40.5(1028) | 40.5(1028) | 40.5(1028) |
| | Battery Compartment | "Y" Max. | in(mm) | 24.1(611) | 28(711) | 39.3(999) | 24.1(611) | 31.9(810) |
| | | "Z" Max. | in(mm) | 30.4(772) | 30.4(772) | 30.4(772) | 30.31(770) | 32.68(830) |
| 6.5 | Minimum Batt.Wt. | | lb(kg) | 2555(1159) | 3245(1472) | 4504(2043) | 1069(485) | 1323(600) |
| 0.0 | Maximum Batt.Wt. | | lb(kg) | 2824(1281) | 3587(1627) | 4978(2258) | 1135(515) | 1411(640) |
| 1.9 | Wheelbase | | y (in\mm) | 77.9(1978) | 81.8(2078) | 77.9(1978) | 81.8(2078) | 81.8(2078) |
| 4.19 | Overall length | | lı (in\mm) | 142.5(3620) | 146.5(3720) | 157.7(4005) | 142.5(3620)/146.5(3720) | 142.5(3620)/146.5(3720) |
| 4.20 | Length to face of forks | | l2 (in\mm) | 136.1(3456) | 140(3556) | 151.2(3841) | 136.1(3456)/140(3556) | 136.1(3456)/140(3556) |
| 4.35 | Turning Radius Wa (in\mm) | | Wa (in\mm) | 80.9(2258) | 92.8(2358) | 104.1(2643) | 80.9(2258)/92.8(2358) | 80.9(2258)/92.8(2358) |



Turret Stockpicker Specification

| | 44 | Manufacturer | | | | ********** | DOUD CO. LTD | |
|------------------------|--------|---|----------------|-----------|-------------------------|-------------------------|-------------------------|--------------------------|
| | 1.1 | Manufacturer | | | 000014 V01 *** | | ROUP CO.,LTD. | 00000 004 111 |
| | 1.2 | Manufacturer's type designation | | | CSDS14-XC1-NA | CSDS16-XC1-NA | CSDS14-XC1-NAI | CSDS16-XC1-NAI |
| | 1.3 | Drive | | | Electric | Electric | Electric | Electric |
| shing | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | | standing / seated | standing / seated | standing / seated | standing / seated |
| Distinguishing mark | 1.5 | Rated capacity/rated load | Q | lb (kg) | 3000(1361) | 3500(1588) | 3000(1361) | 3500(1588) |
| Disi | 1.6 | Load centre distance | С | in (mm) | 24(600) | 24(600) | 24(600) | 24(600) |
| | 1.8 | Load distance, centre of drive axle to fork | Х | in(mm) | 14.5(366) | 14.5(366) | 14.5(366) | 14.5(366) |
| | 1.9 | Wheelbase | у | in (mm) | see table 1 | see table 1 | see table 1 | see table 1 |
| | 1.10 | Centre of drive wheel / counterweight | Z | in (mm) | 11(280) | 11(280) | 11(280) | 11(280) |
| Weight | 2.1 | Service Weight | | lb (kg) | 6600 | 7100 | 6600 | 7100 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | in (mm) | polyurethane | polyurethane | polyurethane | polyurethane |
| ssis | 3.2 | Tyre size, front | | | Ф14х8.1(Ф355х205) | Ф14х8.1(Ф355х205) | Ф14х8.1(Ф355х205) | Ф14х8.1(Ф355х205) |
| lyres, chassis | 3.3 | Tyre size, rear | | | Ф16х6.7(Ф406х170) | Ф16х6.7(Ф406х170) | Ф16х6.7(Ф406х170) | Ф16х6.7(Ф406х170) |
| Jyre | 3.5 | Wheels, number front / rear (x = driven wheels) | | | 2/1x | 2/1x | 2/1x | 2/1x |
| | 3.6 | Tread, front | b10 | in (mm) | 49.9(1266) | 49.9(1266) | 49.9(1266) | 49.9(1266) |
| | 4.2 | Height, mast lowered | h1 | in (mm) | 131(3330) | 131(3330) | 131(3330) | 131(3330) |
| | 4.4 | Lift | h3 | in (mm) | 140(3565) | 140(3565) | 140(3565) | 140(3565) |
| | 4.5 | Height, mast extended | h4 | in (mm) | 253(6435) | 253(6435) | 253(6435) | 253(6435) |
| | 4.7 | Height of overhead guard (cabin) | h6 | in (mm) | 103(2610) | 103(2610) | 103(2610) | 103(2610) |
| | 4.8 | Standing height | h7 | in (mm) | 16(410) | 16(410) | 16(410) | 16(410) |
| | 4.11 | Auxiliary lift | h9 | in (mm) | 71(1810) | 71(1810) | 71(1810) | 71(1810) |
| | 4.14 | Standing height raised | h12 | in (mm) | 154.5(3925) | 154.5(3925) | 154.5(3925) | 154.5(3925) |
| | 4.19 | Overall length | l1 | in (mm) | see table 1 | see table 1 | see table 1 | see table 1 |
| | 4.20 | Length to face of forks | l ₂ | in (mm) | see table 1 | see table 1 | see table 1 | see table 1 |
| suoi | 4.21 | Overall width | b1/b2 | in (mm) | 47.6(1210)/58.1(1475) | 47.6(1210)/58.1(1475) | 47.6(1210)/58.1(1475) | 47.6(1210)/58.1(1475) |
| Dimensions | 4.22 | Fork dimensions | s/e/l | in (mm) | 2x4.8x45.3(50x122x1150) | 2x4.8x45.3(50x122x1150) | 2x4.8x45.3(50x122x1150) | 2x4.8x45.3(50x122x1150) |
| ä | 4.24 | Fork-carriage width | b3 | in (mm) | 26.4(670) | 26.4(670) | 26.4(670) | 26.4(670) |
| | 4.25 | Distance between fork-arms | b5 | in (mm) | 25.6(650) | 25.6(650) | 25.6(650) | 25.6(650) |
| | 4.29 | Reach, sideways | | in (mm) | 49.2(1250) | 49.2(1250) | 49.2(1250) | 49.2(1250) |
| | 4.31 | Ground clearance, laden, below mast | m1 | in (mm) | 3.2(80) | 3.2(80) | 3.2(80) | 3.2(80) |
| | 4.32 | Ground clearance, centre of wheelbase | m2 | in (mm) | 3.2(80) | 3.2(80) | 3.2(80) | 3.2(80) |
| | 4.35 | Turning radius | Wa | in (mm) | see table 1 | see table 1 | see table 1 | see table 1 |
| | 4.38.1 | Total lift | h3+h9 | in (mm) | 211.6(5375) | 211.6(5375) | 211.6(5375) | 211.6(5375) |
| | 4.38.2 | Order picking height | 110 - 110 | in (mm) | 217.5(5525) | 217.5(5525) | 217.5(5525) | 217.5(5525) |
| | 4.38.7 | Inner clear height of operator compartmen | | in (mm) | 83.5(2120) | 83.5(2120) | 83.5(2120) | 83.5(2120) |
| | 5.1 | Travel speed, laden/unladen | | | 6.9/7.5(11/12) | 6.5/7.5(10.5/12) | 6.9/7.5(11/12) | 6.5/7.5(10.5/12) |
| | 5.2 | Lift speed, laden/unladen | | mph(km/h) | 104.3/120(0.53/0.61) | 102.4/120(0.52/0.61) | 104.3/120(0.53/0.61) | 102.4/120(0.52/0.61) |
| ata | | Litt speed, laden/unladen Lowering speed, laden/unladen | | fpm(m/s) | 88.6/98.5(0.45/0.5) | 88.6/98.5(0.45/0.5) | 88.6/98.5(0.45/0.5) | 88.6/98.5(0.45/0.5) |
| nce d | 5.3 | Traverse speed,laden/unladen | | fpm(m/s) | 37.4/39.4(0.19/0.2) | 37.4/39.4(0.19/0.2) | 37.4/39.4(0.19/0.2) | 37.4/39.4(0.19/0.2) |
| Performance data | 5.4 | • • • | | fpm(m/s) | | | | 37.4/39.4(U.I9/U.2) 5 |
| Perl | 5.7 | Gradeability, laden/unladen | | % | 5 Electric | 5 Electric | 5 Electric | |
| | 5.10 | Service brake | | | Electric | Electric | Electric | Electric |
| | 5.11 | Parking brake | | 1.000 | Electric | Electric | Electric | Electric |
| | 6.1 | Drive motor rating S2 60 min | | hp(kW) | 10.7(8) | 10.7(8) | 10.7(8) | 10.7(8) |
| | 6.2 | Lift motor rating at S3 15% | | hp(kW) | 36.2(27) | 36.2(27) | 36.2(27) | 36.2(27) |
| | | Battery voltage, nominal capacity K5 "A" | | V/Ah | 80/465 | / | / | / |
| 0 | | Battery voltage, nominal capacity K5 "B" | | V/Ah | 80/620 | 80/620 | / | / |
| Electric-engine | 6.4 | Battery voltage, nominal capacity K5 "C" | | V/Ah | / | 80/930 | / | / |
| etric- | | Battery voltage, nominal capacity K5 "D" | | V/Ah | / | / | 80.5/604 | 80.5/604 |
| Ele | | Battery voltage, nominal capacity K5 "E" | | V/Ah | / | / | / | 80.5/906 |
| | 6.5 | Battery weight | | lb (kg) | | | | |
| | | Battery dimensions | | in (mm) | see table 1 | see table 1 | see table 1 | see table 1 |
| | | Max. battery weight | l/b/h | lb (kg) | | | | |
| | | Min. battery weight | | lb (kg) | | | | |
| | 8.1 | Type of drive control | | | MOSFET/AC | MOSFET/AC | MOSFET/AC | MOSFET/AC |
| Misc. | 8.4 | Sound pressure level at operator's ear as per EN 12053 | | db(A) | 65 | 65 | 65 | 65 |
| | 8.6 | Steering | | | Electric | Electric | Electric | Electric |







A Series Electric Tow Tractor

with capacities of 3,000 to 5,000kg

HANGCHA A series 3.0-5.0t electric tow tractor is mainly applied in short-distance transportation among the production lines. Low operator platform for frequent and effortless entry and exit. Thanks to the standing design, it can greatly improve the efficiency of operations. Furthermore, for indoor application, the electric drive system is environmental friendly within the workshop. Therefore, this product is a good partner of automobile manufacturing, logistics companies, warehouses and other places, fields which has broad application prospects.

Appearance

- / A series 3.0-5.0t electric tow tractor applied professional industrial design, stream lines, and compact, and fully ergonomic consideration, in line with the latest design trends.
- / Applied steel stamping and injection molding processes for front and back guard, which is robust, durable, and also environmental compliance.

High Performance

- / Electric power steering is standard specification, which provides flexible operation.
- / Powered by AC traction motor not only has good acceleration and climbing performance, but also low heat, brushless, maintenance-free.
- / Latest AC control system, precise and smooth.
- / CAN-BUS connection enables all truck data can be read out for inspection, and also improves the data transition more quick and reliable.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as switches, connectors, battery indicator and hour meter all adopt the famous brand.

Reliability

- / 3-pivot and side support bar system design ensure the safe and reliability.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Safety switch of pedal using non-contact proximity switch, improves safety and reliability.
- / Though sideway battery change is standard specification, fixed in safe and reliable way.

Comfort

- / The pedal applies shock absorption design, greatly improve the operator's comfort, reduce the fatigue.
- / Backrest height can be adjusted within a certain range, and the backrest with hip support can greatly improve the comfort of the operator.
- / Sideway change battery is the standard specification.

 The inching switches installed at the LH/RH side, greatly improve the ease of operation.
- / The easy to reached storage space is convenient for the operator.
- / Compact size, light weight and flexible, extremely easy to operate, can easily go through even in a compact space.

Safety

- / Automatic deceleration during turning.
- Pedal has a safety switch, which can effectively prevent mis-operation.
- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Steel front shield assures excellent safety for the operation.

Maintenance

- / AC motor without carbon brushes, maintenance-free, cost
- / Integrated battery indicator, hour meter and self-diagnostic instrument.
- / Full opened hood, easy accessibility of all components, is easy for service
- / All shafts are equipped with shaft sleeve and oil cup, easy maintenance, prolong service life.

Standard Specification

- / AC drive motor / Battery indicator
- / Electric steering system / Warning signal when reversing
- / Inching switch(LH/RH) / Multi-function handlebar
- / Emergency cut off switch / Horn
- / Stand-on pedal with shock absorber / Tool box
- / Adjustable supportive backrest / Standard lead-acid battery
- / Sideway change battery

Options

- / Warning light / Turning indicators
- / Working light / Different height of towing coupling
- / Handrail / Review Mirror
- / Big capacity battery

















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

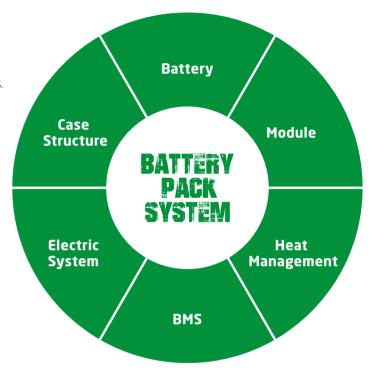




INNOVATIVE SOLUTIONS NEW POWER NOW

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.





Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | QDD3-ASC2-I* QDD3-AS23-I | QDD5-ASC2-I* QDD5-ASZ3-I | | |
|----------------------------|--|-----------------------------|-----------------------------|--|--|
| Li-lon battery V/i | | 24/125 | 24/228 | | |
| Li-lon battery, Optional V | | 24/228 | | | |
| Titans charger | | SPC-24100 | SPC-24100 | | |

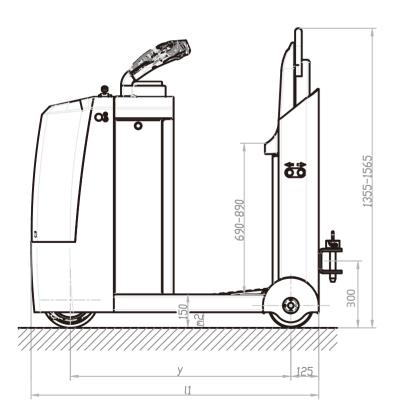
Note: * CE model

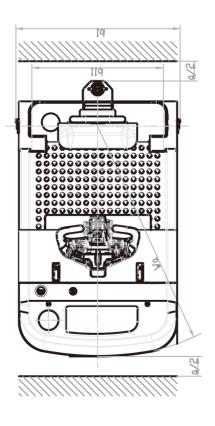
A Series Electric Tow Tractor

| | 1.1 | Manufacturer | | | HANGCHA GR | OUP CO.,LTD. | |
|-------------------------|------|---|-------------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|
| Distinguishing marks | 1.2 | Manufacturer's type designation | | QDD3-ASC2* ODD3-ASZ3 | QDD3-ASC2-I* ODD3-ASZ3-I | QDD5-ASC2* ODD5-ASZ3 | QDD5-ASC2-I* ODD5-ASZ3-I |
| lishi ks | 1.3 | Drive | | Electric | Electric | Electric | Electric |
| ngr | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | standing | standing | standing | standing |
| isti | 1.5 | Load capacity/rated load | Q (kg/lb) | 3000 | 3000 | 5000 | 5000 |
| " | 1.7 | Rated drawbar pull | F (N/lbf) | 600 | 600 | 1000 | 1000 |
| | 1.9 | Wheelbase | y (mm/in) | 957 | 995 | 978 | 1016 |
| 5 | 2.1 | Service Weight | kg/lb | 900 | 900 | 1000 | 1000 |
| WeightS | 2.3 | Axle loading, front/rear | kg/(lb) | 610/290 | 610/290 | 700/300 | 700/300 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU |
| s, is | 3.2 | Tyre size, front | mm/in | Φ230×75 | Ф230×75 | Ф250×100 | Φ250×100 |
| Wheels, Chassis | 3.3 | Tyre size, rear | mm/in | Ф200×100 | Ф200×100 | Φ200×100 | Ф200×100 |
| ₹5 | 3.5 | Wheels, number front /rear (x=drive wheels) | | 1×/2 | 1×/2 | 1×/2 | 1×/2 |
| | 3.7 | Track width, rear | b ₁₁ (mm/in) | 669 | 669 | 669 | 669 |
| 10 | 4.8 | Seat height/stand height | h7 (mm/in) | 150 | 150 | 150 | 150 |
| Dimensions | 4.19 | Overall length(without traction pin) | l1 (mm/in) | 1289 | 1327 | 1289 | 1327 |
| ens | 4.21 | Overall width | b1 (mm/in) | 830 | 830 | 830 | 830 |
| ij | 4.32 | Ground clearance, centre of wheelbase | m2 (mm/in) | 70 | 70 | 70 | 70 |
| | 4.35 | Turning radius | Wa (mm/in) | 1172 | 1210 | 1172 | 1210 |
| س ا | 5.1 | Travel speed, laden/unladen | km/h (mph) | 7.0/10.0 | 7.0/10.0 | 7.0/10.0 | 7.0/10.0 |
| anc | 5.5 | Drawbar pull at 60 minute rating | N/lbf | 600 | 600 | 1000 | 1000 |
| Performance Data | 5.6 | Max. Drawbar pull at 5 minute rating | N/lbf | 2400 | 2400 | 3200 | 3200 |
| l eff | 5.7 | Gradeability, laden | % | 4 | 4 | 4 | 4 |
| <u> </u> | 5.10 | Service brake | | Electronmagnetic | Electronmagnetic | Electronmagnetic | Electronmagnetic |
| ō | 6.1 | Drive motor rating S2 60 min. | kW/hp | 2.2 | 2.2 | 3 | 3 |
| E-Motor | 6.4 | Battery voltage,rated capacity(STD.) | V/Ah | 24/270 | 24/120 | 24/360 | 24/202 |
| ψ | | Battery voltage,rated capacity(OPT.) | V/Ah | 24/360 | 24/228 | 24/450 | - |
| Others | 8.1 | Type of drive control | | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI | CURTIS ZAPI |

Specifications are subject to change without notice.

Note: * CE model





a=200mm Safety clearance



A series Electric Tow Tractor

with capacities of 2,000 to 6,000kg

As for A series of tractors, the advanced AC drive control technology is adopted for the complete tractor. The tractor has excellent performance, can be operated comfortably, is safe and reliable, has low maintenance cost and is the high-efficiency tool for resolving material transport among different zones for the workshops, flow lines and large factories.







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

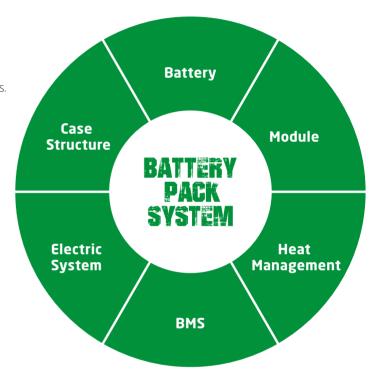




INNOVATIVE SOLUTIONS NEW POWER NOW

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- / 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: Can charge and operate at the same time, fully charged in 2hours.
- / 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.





Lead-acid batteries

8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | QDD20-AC2-I* | QDD20-AC2S-I* | QDD40-AC2-I* | QDD40-AC2S-I* | QDD60-AC2-I* | QDD60-AC2S-I* |
|----------------|------|--------------|---------------|--------------|---------------|--------------|---------------|
| Li-lon battery | V/Ah | 48/228 | 48/228 | 48/228 | 48/228 | 48/228 | 48/228 |
| Titans charger | | SLC-48100 | SLC-48100 | SLC-48100 | SLC-48100 | SLC-48100 | SLC-48100 |

Note: * CE model



Appearance

- / The professional appearance industrial design is adopted. The complete tractor has smooth lines, presents the dynamics. The ergonomics is fully considered to meet the latest appearance design fashion.
- / The steel plate stamping and injection moulding technology is used extensively, the tractor is firm and durable and can meet the environmental protection requirements.

High performance

- / For the stand-up driving tractor, the electronic power steering is taken as the standard configuration to achieve easier and more flexible operation and control.
- / The AC traction motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The advanced AC control system realizes accurate and stable control, and higher efficiency.
- / The CANBUS bus structure makes communication of the entire machine faster and more reliable.

Comfortability

- / LED headlight is taken as the standard configuration; the headlight has good appearance and offers bright light.
- / Multifunctional instrument is taken as the standard configuration, has such many functions as speed selection and so on, and can clearly display different information of the tractor.
- / The suspension structure is adopted for the front axle and rear axle to greatly enhance the operator's comfortability during tractor traveling.
- / USB charging port and mobile phone placement slot are taken as the standard configuration for conveniently charging the mobile phone and providing convenience for the operator.
- / The advancing and retreating buttons are provided at the tail of the tractor body, so that the tractor can be operated to move forward and backward while manipulating the traction device and it does not need to frequently go aboard and get off during operation.



Reliable LED lightin



Battery side roll out is taken as the standard configuration in order to easi and fast replace the battery



Modern outline design with LCD instrument and USB charging por



Electrical Park Brake (EPB) syste



The locking device of the battery is provided with the safety protection function. Only if the locking device is 222 rotated in place, the tractor can travel



Reliability

- / The three-support-point and low-gravity-center design is adopted. The high-strength steel plate framed structure is adopted for the chassis. The tractor has long service life.
- / All of wires and cables are provided with reliable protection, and the electrical system reliability is greatly improved.
- / Such important components as switches, connector clips, instruments and so on are imported from foreign countries, and have excellent performance and reliable quality.

Maintenance

- / The brushless, maintenance-free AC motor reduces operation cost significantly.
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
- / The front bottom plate and rear cover plate can be easily dismantled, and such parts and components as braking pump, electric control device, motor and so on can be conveniently maintained.

Safety

- / Turning slow down function is taken as the standard configuration to guarantee stable and safe turning of the tractor.
- / The Electrical Park Brake (EPB) is taken as standard configuration to achieve greater convenience and safety.
- / The safety pedal is taken as standard configuration. The other operations can be made only if the pedal is trampled. In this way, safety is enhanced.

Options

- / Fully-enclosed driver's cabin
- / Semi-closed cabin
- / Suspension seat (for seating driving type tractor)
- / Reflecting mirror
- / Alarm lamp
- / Solid tyre
- / Big capacity battery

Standard specification

- / AC traction motor
- / Automatic deceleration at turns
- / Key switch
- / USB charging port
- / LED headlight
- / LED tail light
- / Battery side roll out
- / Creep speed function

- / Safety pedal (for seating driving type tractor)
- / Emergency power-off switch
- / Electrical Park Brake (EPB) system
- / Traction device
- / Electrostatic conductive belt
- / Horn
- / Inching switch



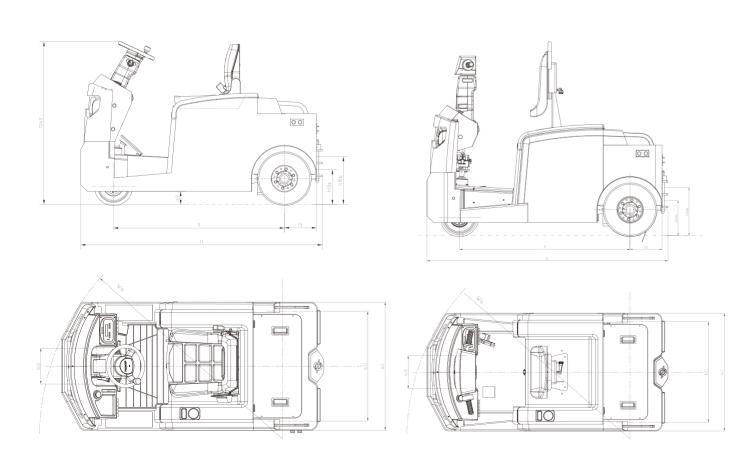
Electronic power steering system (for stand-up driving type tractor)



A series Electric Tow Tractor specification

| | 1.1 | Manufacturer | | | | HANGCHA GF | OUP CO.,LTD. | | |
|------------------------|------|---|----------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|
| Bu | 1.2 | Manufacturer's type designation | | QDD20-AC2* QDD20-AD2 | QDD20-AC25* QDD20-AD2S | QDD40-AC2* QDD40-AD2 | QDD40-AC2S* QDD40-AD2S | QDD60-AC2* QDD60-AD2 | QDD60-AC2S* QDD60-AD2S |
| Distinguishing mark | 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 | Standing | Seated | Standing | Seated | Standing |
| isti | 1.5 | Rated capacity/rated load | Q(t) | 2 | 2 | 4 | 4 | 6 | 6 |
| | 1.7 | Rated drawbar pull | F(N) | 500 | 500 | 1000 | 1000 | 1500 | 1500 |
| | 1.9 | Wheelbase | y(mm) | 1145 | 1145 | 1305 | 1305 | 1305 | 1305 |
| Weights | 2.1 | Service Weight (Including battery) | kg | 880 | 880 | 1080 | 1080 | 1150 | 1150 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic |
| res | 3.2 | Tyre size, front | | 3.50-5-6PR | 3.50-5-6PR | 3.50-5-6PR | 3.50-5-6PR | 3.50-5-6PR | 3.50-5-6PR |
| Wheels,Tyres | 3.3 | Tyre size, rear | | 4.00-8-6PR | 4.00-8-6PR | 4.00-8-6PR | 4.00-8-6PR | 4.00-8-6PR | 4.00-8-6PR |
| eels | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1/2x | 1/2x | 2/2x | 2/2x | 2/2x | 2/2x |
| Ř | 3.6 | Tread, front | b10 (mm) | 0 | 0 | 250 | 250 | 250 | 250 |
| | 3.7 | Tread, rear | b11 (mm) | 770 | 770 | 770 | 770 | 770 | 770 |
| | 4.12 | Coupling height | h10 (mm) | 365/267 | 365/267 | 365/267 | 365/267 | 365/267 | 365/267 |
| ns | 4.17 | Overhang | Is(mm) | 245 | 245 | 245 | 245 | 245 | 245 |
| Sio | 4.19 | Overall length | lı (mm) | 1684 | 1684 | 1844 | 1844 | 1844 | 1844 |
| Dimensions | 4.21 | Overall width | b1(mm) | 900 | 900 | 900 | 900 | 900 | 900 |
| ä | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 100 | 100 | 100 | 100 | 100 | 100 |
| | 4.35 | Turning radius | Wa (mm) | 1600 | 1600 | 1763 | 1763 | 1763 | 1763 |
| JCe | 5.1 | Travel speed, laden/unladen | km/h | 6/13 | 6/13 | 6/13 | 6/13 | 6/13 | 6/13 |
| Ē | 5.6 | Max. Drawbar pull | N | 2000 | 2000 | 4000 | 4000 | 4500 | 4500 |
| Performance | 5.7 | Gradeability, laden/unladen | % | 5/25 | 5/25 | 5/25 | 5/25 | 5/25 | 5/25 |
| | 6.1 | Drive motor rating S2 60 min | kW | 1.95 | 1.95 | 4.28 | 4.28 | 4.28 | 4.28 |
| | 6.2 | Type of drive motor | | AC | AC | AC | AC | AC | AC |
| ine | 6.4 | Battery voltage, nominal capacity K5,Standard | V/Ah | 48/165 | 48/165 | 48/210 | 48/210 | 48/275 | 48/275 |
| Electric engine | 0.4 | Battery voltage, nominal capacity K5,Optional | V/Ah | 48/180~210 | 48/180~210 | 48/220~350 | 48/220~350 | 48/280~350 | 48/280~350 |
| ш о | | Controller | | CURTIS INMOTION | CURTIS INMOTION | CURTIS INMOTION | CURTIS INMOTION | CURTIS INMOTION | CURTIS INMOTION |

[★] CE model





X series Electric Tow Tractor

with capacities of 6,000 to 10,000kg



LI-ION TECHNOLOGY

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

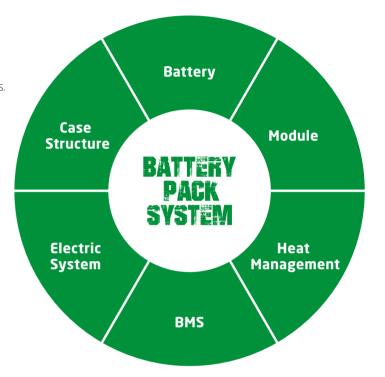




INNOVATIVE SOLUTIONS NEW POWER NOW

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: Can charge and operate at the same time, fully charged in 2hours.
- / 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.





Lead-acid batteries **8-10 hours 100%**

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | QDD60-XD3-I* | QDD70-XD3-I* | QDD80-XD3-I* | QDD90-XD3-I* | QDD100-XD3-I* |
|----------------|------|--------------|--------------|--------------|--------------|---------------|
| Li-lon battery | V/Ah | 48/302 | 48/302 | 48/302 | 48/302 | 48/456 |
| Titans charger | | SLC-48200R | SLC-48200R | SLC-48200R | SLC-48200R | SLC-48200R |

Note: * CE model



Appearance

/ Large arc-shaped, streamlined surface modeling is adopted, with beautiful and elegant appearance.

Comfort

- / Fully flexible suspension system is adopted for both front and rear axles, featuring small vibration and comfortable operation.
- / The battery of standard configuration is removed from truck side, so that maintenance and replacement of the battery is more convenient and rapid, which is suitable for continuous operation.
- / The optional fully-enclosed cab is suitable for operation in all kinds of weather conditions.

Stability

/ The battery is sunk to bottom of carriage, so the truck has good stability.

Advancement

- / Electromagnetic brake is adopted as parking brake, instead of traditional hand brake, so as to realize intelligent parking braking.
- / Fully flexible suspension system is adopted for both front and rear axles to ensure comfortable driving of the operator.
- Large-screen LCD display and failure self-diagnosis instrument are applied to enable accurate display even in harsh environment.
- / The newly configured AC control system offers efficient, accurate adjustment performance, and extends working hours for single charge.
- / All lights of the truck are of LED, and the latest streamer technology is applied for front turn signal lamps
- / The entire truck features high speed and high efficiency, with maximum travel speed up to 18km/h.



The battery can be removed from truck side, so it is very convenient for battery maintenance



Loading platform, easy to load and unload goods



Various operating pedals, instruments, steering wheel, and switches are configured based on ergonomic requirements, and are comfortable and flexible for operation



Upon special design, the traction device can prevent the towing pin coming off during traveling



Low-level widely open foot board is very convenient for the operator to get on / off the truck





Reliability and Safety

- / Motor controller, contactors, power socket, emergency power off switch and other main electric elements are all of famous brands from abroad
- / Carriage, drive axle, steering axle and other main load-bearing parts are designed as high-strength parts, so as to meet heavy-load working conditions.
- / As standard configuration, emergency power off switch meets European safety standard.
- / AC power system features high efficiency, complete protection functions, and substantially higher reliability and service life.
- / Both front and rear wheels are equipped with brake to realize flexible and reliable braking.

Easy Maintenance

- / The brushless, maintenance-free AC motor reduces operation cost significantly.
- / The easily-removable rear deck cover is convenient for debugging and maintenance of electronic control system.
- / Electronic control and electric elements are placed together with high degree of integration.

Standard specification

- / LED headlamp (high beam, low beam), direction indication lamp,
- LED rear three-color combination lamp
- / DIN Battery
- / Horn, back-up beeper
- / Emergency power off switch
- / Large LCD display
- / Battery side roll out
- / Seat with safety belt



Cup holder, tool box

Options

- / Simple canopy (with no windshield and windshield wipers)
- / Simple canopy (with windshield and windshield wipers)
- / Fully-enclosed cab
- / Fan (together with canopy or cab)
- / Alarm light
- / Specification of traction system (see Table 1)
- / Right and left rear-view mirrors (standard configuration for canopy, cab)
- / On-seat operation of traction pin
- / Fire extinguisher
- / Blue-light Lamp
- / Audible and visual alarm
- / LED rear working lamp
- / OPS system
- / Voice back-up beeper
- / Optional special seat
- / Optional imported brand battery
- / Super-elastic solid tires
- / Charger



X series 6.0-10t Lead-acid Battery Tow Tractor Specification

| | 1.1 Manufacturer | | | | | HANGCHA GE | ROUP CO.,LTD. | | | |
|-----------------|--|----------|---------------------|---------------------|--------------|---------------------|---------------|--------------|--------------|--------------|
| 8 | 1.2 Model | | QDD60-XD3* | QDD70-XD3* | QDD70-XD3-L* | ODD80-XD3* | QDD80-XD3-L* | QDD90-XD3* | QDD90-XD3-L* | QDD100-XD3* |
| | 1.3 Drive | | Electric | Electric | Electric | Electric | Electric | Electric | Electric | Electric |
| inguish mark | 1.4 Manual, pedestrian, stand-on, seated, order picker operation | | Seat | Seat | Seat | Seat | Seat | Seat | Seat | Seat |
| = = = | 1.5 Load capacity/rated load | Q (kg) | 6000 | 7000 | 7000 | 8000 | 8000 | 9000 | 9000 | 10000 |
| isi | 1.7 Rated tractive power | F (N) | 1500 | 1750 | 1750 | 2000 | 2000 | 2250 | 2250 | 2500 |
| ⁶ | 1.9 Wheelbase | y (mm) | 1035 | 1035 | 1250 | 1035 | 1250 | 1035 | 1250 | 1250 |
| Ħ | 2.1.1 Net weight incl. battery (see row 6.5) | kg | 1220 | 1270 | 1450 | 1330 | 1450 | 1380 | 1500 | 1550 |
| Weigl | 2.3 Axle load without load front/rear | kg | 540/680 | 590/680 | 700/750 | 590/740 | 700/750 | 590/790 | 700/800 | 700/850 |
| | 3.1 Tyres, front/rear | | Pneumatic/Pneumatic | Pneumatic/Pneumatic | SE/Pneumatic | Pneumatic/Pneumatic | SE/Pneumatic | SE/Pneumatic | SE/Pneumatic | SE/Pneumatic |
| , n | 3.2 Tyre size, front | mm | 4.00-8 | 4.00-8 | 16×6-8 | 4.00-8 | 16×6-8 | 16×6-8 | 16×6-8 | 16×6-8 |
| es, | 3.3 Tyre size, rear | mm | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 |
| ₽ĕ | 3.5 Wheels, number front/rear (× = driven wheels) | | 1/2x | 1/2x | 1/2x | 1/2x | 1/2x | 1/2x | 1/2x | 1/2x |
| ' " | 3.6 Tread width, front | b11 (mm) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3.7 Tread width, rear | h10 (mm) | 870 | 870 | 870 | 870 | 870 | 870 | 870 | 870 |
| | 4.7 Height of overhead guard | he (mm) | 2140 | 2140 | 2140 | 2140 | 2140 | 2140 | 2140 | 2140 |
| | 4.8 Seat height/stand height | hz (mm) | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 |
| | 4.12 Coupling height | h10 (mm) | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 |
| SI | 4.12.1 2nd coupling height | mm | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 |
| 9. | 4.12.2 3. Coupling height | mm | 386 | 386 | 386 | 386 | 386 | 386 | 386 | 386 |
| l ii | 4.13 loading height without load | h11 (mm) | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 |
| į. | 4.16 loading area length | ls (mm) | 395 | 395 | 395 | 395 | 395 | 395 | 395 | 395 |
| | 4.17 Overhang length | Is (mm) | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 |
| | 4.18 Loading area width | b9 (mm) | 908 | 908 | 908 | 908 | 908 | 908 | 908 | 908 |
| | 4.19 Overall length | lı (mm) | 1830 | 1830 | 2045 | 1830 | 2045 | 1830 | 2045 | 2045 |
| | 4.21 Overall width | b1 (mm) | 996 | 996 | 996 | 996 | 996 | 996 | 996 | 996 |
| | 4.32 Ground clearance, centre of wheelbase | m2 (mm) | 135 | 135 | 135 | 135 | 135 | 135 | 135 | 135 |
| | 4.35 Turning radius | Wa (mm) | 1650 | 1650 | 1865 | 1650 | 1865 | 1650 | 1865 | 1865 |
| | 4.36 Smallest pivot point distance | b13 (mm) | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| 9 | 5.1 Travel speed, laden/unladen | km/h | 11.2/18 | 10.5/18 | 10.5/18 | 9.4/18 | 9.4/18 | 9.0/18 | 9.0/18 | 8.5/18 |
| la e | 5.5 Drawbar pull w. / w.o. load | N | 1500 | 1750 | 1750 | 2000 | 2000 | 2250 | 2250 | 2500 |
| ormo | 5.6 Max. drawbar pull, laden/unladen | N | 4500 | 5250 | 5250 | 6000 | 6000 | 6750 | 6750 | 7500 |
| l ii | 5.7 Gradeability laden/unladen | % | 5/25 | 5/25 | 5/25 | 5/25 | 5/25 | 5/25 | 5/25 | 5/25 |
| ď | 5.10 Service brake | | hydraulic | hydraulic | hydraulic | hydraulic | hydraulic | hydraulic | hydraulic | hydraulic |
| S | 6.1 Drive motor, output S2 60 min. | Kw | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Į į | 6.3 Battery as per DIN 43531 /35/36 A, B, C, no | | A 43531 | A 43531 | A 43531 | A 43531 | A 43531 | A 43531 | A 43531 | A 43531 |
| l o | 6.4 Battery voltage/nominal capacity K5 | V/Ah | 48/300 | 48/300 | 48/420 | 48/360 | 48/420 | 48/360 | 48/420 | 48/420 |
| ш | 6.5 Battery weight | kg | 502 | 502 | 685 | 560 | 685 | 560 | 685 | 685 |
| SC. | 8.1 Type of drive control | | AC | AC | AC | AC | AC | AC | AC | AC |
| Σ | 8.4 Sound pressure level at operator's ear as per EN 12053 | | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| | | | | | | | | | | |

Note: * CE model

X series 6.0-10t Lithium Battery Tow Tractor Specification

| | 1.1 | Manufacturer | | | HA | NGCHA GROUP CO.,LT | TD. | |
|--------------------------|------|---|----------|--------------|--------------|--------------------|--------------|---------------|
| l B | 1.2 | Manufacturer's type designation | | QDD60-XD3-I* | QDD70-XD3-I* | QDD80-XD3-I* | QDD90-XD3-I* | QDD100-XD3-I* |
| 동 | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric | Electric | Electric | Electric | Electric |
| nguis mark | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Seated | Seated | Seated | Seated | Seated |
| - E | 1.5 | Rated capacity/rated load | Q(t) | 6 | 7 | 8 | 9 | 10 |
| Distinguishing mark | 1.7 | Rated drawbar pull | F(N) | 1500 | 1750 | 2000 | 2250 | 2500 |
| _ | 1.9 | Wheelbase | y(mm) | 1035 | 1035 | 1035 | 1035 | 1035 |
| Weight | 2.1 | Service Weight (Including battery) | kg | 1150 | 1200 | 1250 | 1300 | 1385 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | | Pneumatic | /Pneumatic | SE/Pne | eumatic |
| | 3.2 | Tyre size, front | | 4.00-8 | 4.00-8 | 4.00-8 | 16×6-8 | 16×6-8 |
| Tyres, chassis | 3.3 | Tyre size, rear | | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 | 4.00-8 |
| P Z | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1/2x | 1/2x | 1/2x | 1/2x | 1/2x |
| - 0 | 3.6 | Tread, front | b10 (mm) | 0 | 0 | 0 | 0 | 0 |
| | 3.7 | Tread, rear | b11 (mm) | 870 | 870 | 870 | 870 | 870 |
| | 4.12 | Coupling height | h10 (mm) | 274 | 274 | 274 | 274 | 274 |
| Dimensions | 4.17 | Overhang | Is(mm) | 350 | 350 | 350 | 350 | 350 |
| ısi | 4.19 | Overall length | lı (mm) | 1830 | 1830 | 1830 | 1830 | 1830 |
| l e | 4.21 | Overall width | b1(mm) | 996 | 996 | 996 | 996 | 996 |
| ä | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 135 | 135 | 135 | 135 | 135 |
| | 4.35 | Turning radius | Wa (mm) | 1650 | 1650 | 1650 | 1650 | 1650 |
| Perfor- mance data | 5.1 | Travel speed, laden/unladen | km/h | 11.2/18 | 10.5/18 | 9.4/18 | 9.0/18 | 8.5/18 |
| aar | 5.6 | Max. Drawbar pull | N | 4500 | 5250 | 6000 | 6750 | 7500 |
| ₹E, | 5.7 | Gradeability, laden/unladen | % | 5/25 | 5/25 | 5/25 | 5/25 | 5/25 |
| | 6.1 | Drive motor rating S2 60 min | kW | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| i Ei | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 48/302 | 48/302 | 48/302 | 48/302 | 48/456 |
| Electric- engine | 0.4 | Battery voltage, nominal capacity K5 (Opt.) | V/Ah | 48/456 | 48/456 | 48/456 | 48/456 | 1 |
| □ a | | Electric control model | | INMOTION | INMOTION | INMOTION | INMOTION | INMOTION |

Note: * CE model

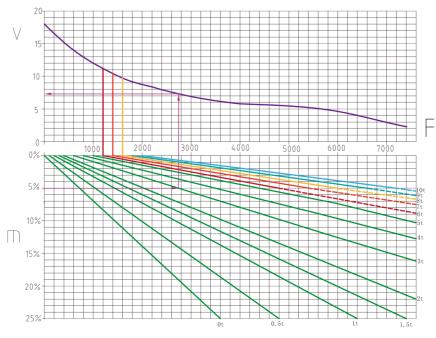
Battery specification

| Battery voltage(V) | Capacity (Ah) | 6t | 7t | 8t | 9t | 10t | 7L | 8L | 9L |
|--------------------|---------------|----|----|----|----|-----|----|----|----|
| | 300 | • | • | _ | _ | _ | _ | _ | _ |
| | 360 | 0 | 0 | • | • | _ | _ | _ | _ |
| 48 | 420 | _ | _ | _ | _ | • | • | • | • |
| | 500 | _ | _ | _ | _ | 0 | 0 | 0 | 0 |
| | 600 | _ | _ | _ | _ | 0 | 0 | 0 | 0 |

●Battery Std. ○Battery Opt. 7L means 7t long wheelbase;8L means 8t long wheelbase;9L means 9t long wheelbase

Traction device specification

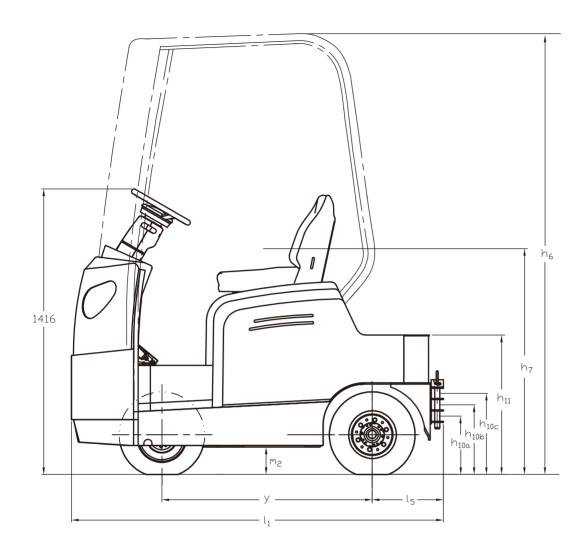
| | Coupling height h10a/b/c(mm) | h10b-h10a, h10c-h10b (mm) |
|-------|------------------------------|---------------------------|
| Std. | 274/330/386 | 50 |
| Opt 1 | 218/274/330 | 50 |
| Opt 2 | 330/386/442 | 50 |

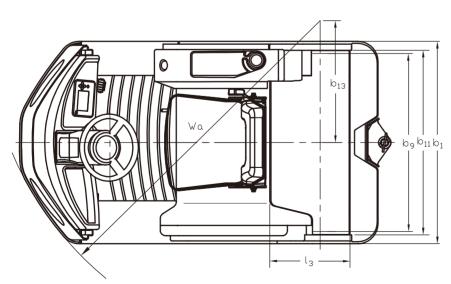


v=speed (km/h), m=incline (%), F=drawbar pull (N)

Using method: It requires about 2750N traction for towing when the QDD60-XD2 tow tractor travels on 5% upward slope by towing 3t load, and in such case the travel speed is 7.3Km/h approximately.

Warning: Better apply tow tractor with brake when gradient of downward slope is over 4%.









10-15t Electric Tow Tractor

with capacities of 10,000 to 15,000kg

Appearance

/ Body choosing modern large circular arc streamline surface modeling, is in accordance with international design trend.

Reliability

/ The battery is dropped down to the lowest part of frame, this gives the tractor excellent stability because low center of gravity.

Comfort

- / Low noise, low shake, energy efficient, environmental protection.
- / Low step and capacious room will be much appreciated by operator who have to get on and off.
- / Ergonomically design switch instrument and pedal. Adjustable steering wheel and seat ensure driver maximum comfortable and minimum fatigue.
- / Full hydraulic steering system, the steering is easy.
- / Large-capacity of the container making the operation more flexible and convenient.

Advance

- / New AC system provide more power, more precise performance of speed control, more safety and reliability, regenerative system.
- / High effective AC system prolong the working time.
- / Adopt the international first-class brand of LCD, with the battery indication, fault self-diagnosis table and accurately display in the harsh environment function.
- / Rich visual sense improve the productivity.
- / Exchange battery is easy because the design of side-exchange battery.

Advantage of AC System

- / Multiple benefits of the AC Power System include: fast response to operating commands, precise power control, regenerative system.
- / Economy of operation, resulting from minimized maintenance
- / A high number of work cycles can be obtained from each battery charge due to the efficiency of the system of energy control
- / System is fully adjustable to suit the load, working area and operator. Inbuilt diagnostics record intermittent faults and service requirements reducing expensive service time.

Easy Maintenance

/ You can open and close the battery cover hood for daily checkup the battery, motor and controller. It's easy to access inner of battery cover for maintenance.

Standard Specification

/ Head lamp / Inching function
/ Turning lamp / AC Power System
/ Rear combined LED / Standard battery
/ Horn / Large LCD display
/ Emergency disconnect switch / Pneumatic tyre

Options

/ Super elastic solid tyre / Mirror
/ High capacity import battery / Warning lamp
/ Simple cabin / Charger
/ Closed cabin / Customer painting
/ Suspension seat / Height of tractor pin



Forward/Reverse inching switch and emergency switch are mounted on the left rear, them make the hook easy and safe



The large internal space is easy for maintenance



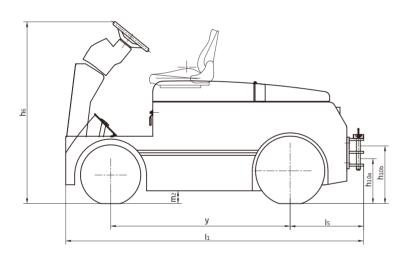
Side change battery design is convenient for changing battery

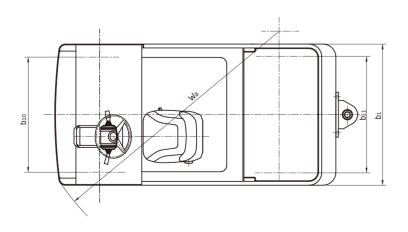


The battery cover can be fully opened, the design is easy for maintenance

10-15t Electric Tow Tractor

| | 1.1 | Manufacturer | | | HANGCHA GR | OUP CO.,LTD. | | |
|-------------------------|------|---|-------------------------|------------|------------|--------------|-----------|--|
| Distinguishing marks | 1.2 | Manufacturer's type designation | | QSD1 | .0-C1 | QSD1 | .5-C1 | |
| l ië S | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Sea | ted | Sea | ited | |
| ingr | 1.5 | Rated capacity/rated load | Q (kg/lb) | 10000/ | 22046 | 15000/33069 | | |
| list | 1.7 | Rated drawbar pull | F (N/lbf) | 2500 | /562 | 3750/843 | | |
| " | 1.9 | Wheelbase | y (mm/in) | 1200 | /47.2 | 1400 | /55.1 | |
| Weight | 2.1 | Service Weight | kg/lb | 2200/ | 4850 | 2450/5400 | | |
| | 3.2 | Tyre size, front | | 5.0 |)-8 | 5.0 |)-8 | |
| ی. د. | 3.3 | Tyre size, rear | | 6.0 |)-9 | 6.0 |)-9 | |
| Tyres, chassis | 3.5 | Wheels, number front / rear (x = driven wheels) | | 2/2 | | 2/2 | | |
| ₽€ | 3.6 | Tread, front | b10 (mm/in) | 897.5/35.3 | | 897.5 | 5/35.3 | |
| | 3.7 | Tread, rear | b ₁₁ (mm/in) | 908/35.7 | | 908/ | 35.7 | |
| | 4.7 | Height of overhead guard (cabin) | h6 (mm/in) | 1440/56.7 | 2112/83.1 | 1440/56.7 | 2112/83.1 | |
| SI | 4.12 | Coupling height | h10 (mm/in) | 350/450 | 13.8/17.7 | 350/450 | 13.8/17.7 | |
| lsio | 4.19 | Overall length | lı (mm/in) | 2122 | /83.5 | 2322 | /91.4 | |
| Dimensions | 4.21 | Overall width | b1(mm/in) | 1100 | /43.3 | 1100 | /43.3 | |
| 盲 | 4.32 | Ground clearance, centre of wheelbase | m2 (mm/in) | 100 | 0/4 | 10 | 0/4 | |
| | 4.35 | Turning radius | Wa (mm/in) | 1985 | /78.1 | 2170 | /85.4 | |
| Performance Data | 5.1 | Travel speed, laden/unladen | kph / mph | 10/18 | 6.2/11.2 | 10/18 | 6.2/11.2 | |
| ormal Data | 5.5 | Drawbar pull at 60 minute rating | N/lbf | 2500 | /562 | 3750 |)/843 | |
| وَمَ | 5.6 | Max. Drawbar pull at 5 minute rating | N/lbf | 8000/1798 | | 11000 | 1/2473 | |
| | 5.7 | Gradeability, laden/unladen | % | - / 25 | | -/ | 25 | |
| . <u>.</u> 'e | 6.1 | Drive motor rating S2 60 min | kW/hp | 6.8/ | 9.1 | 11.75 | 5/15.8 | |
| Electric- engine | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 48/4 | 420 | 80/450 | | |







X Series Electric Tow Tractor

with capacities of 20,000 to 32,000kg



Appearance

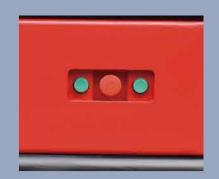
/ With the integrated steel structure, the internationally-fashionable large arc and streamline pattern is utilized.
The appearance is beautiful. The vehicle is applicable to such works as traction, pushing and handling.

Safety

- / Advanced AC control system-The high-frequency IMOTION integrated controller can guarantee stable and accurate vehicle running. The motor has fine electric control matching performance, and has such functions as stable start-up, regenerative braking, plug braking, anti-slip at ramp and so on. It is energy-saving, high-efficiency, safe and reliable.
- / With the vacuum servo braking system, double-cavity and double-pipe are arranged in X lay-out. The front and rear parts are provided with differential pressure. All wheels can be braked. The servo ratio is great, braking is safe, stable and reliable; with the vacuum bucket design, when the power is ineffective, servo braking can be reliably realized.
- / The mater electric switch is provided, the vehicle safety can be guaranteed through emergency power shut-off.

Advancedness

- / The fully AC power system provides strong power and more accurate speed-adjusting performance. AC power system is used for both running and steering.
- / The high-efficiency power system and high-performance battery extend the operating time after one charging.
- / The LED display instrument of the international first-class brand is utilized; such instrument has functions of electric quantity display, timing meter and failure self-diagnosis. Without the handheld unit, changing vehicle performance and overhaul can be completed via the instruments. The failure will be displayed both in code and text, which is more visual and easy for reading.
- / At the vehicle rear side, there are the operating switches (front and behind electric switches, emergency power shut-off switch).
- / The vehicle battery can be replaced through being hoisted or laterally moved out, which provides convenience for use by the user.
- / The electric system of the whole vehicle utilizes the waterproof design; the electric control utilizes the forced cooling and can also have functions of heat emission, air guide, dust prevention, waterproofing.
- / The bottom plate at the rear part of the vehicle can be used as the loading platform, and can carry 500kg.



At the vehicle left rear side, there are the operating switches (front and behind electric switches, emergency power shut-off switch). The hook can be



The imported and fully AC power system has advanced performance, is fully enclosed, utilizes forced air-cooling and i safe and reliable



Remote control (optional): Vehicle management system: Vehicle status enquiry and record, alarm for overspeed, door lock, radar and so on. The equipmen can be provided with 7-inch touch screer The operation is simple and convenient. With overall data display & real-time status reminding, monitoring, management and service can be realized in remote way



with the internationally-advanced and ransversely-arranged driving unit, the pecial reduction gearbox is utilized, and he great reduction ratio design is used

Stability

/ The battery is placed at the bottom of the vehicle frame and between the front axle and rear axle. With the ultra-low gravity center, the excellent stability of the whole vehicle is ensured.

Comfort

- / The man-machine interactive system utilizes the new-type digital panel and combined rocker switch, the vehicle travel condition can be displayed clearly, and it is simple, reliable and visual.
- / With such special technologies for vehicle as transversely-arranged oil cylinder steering axle, fully-hydraulic steering device and so on, the steering radius is small, and the special operating force is less than 10N.
- / With the advanced chassis elastic suspension technology and long wheelbase design, the vehicle has fine smoothness.
- / The integrated driver's cab has large visual field and is made of irregular tubes. The driver's cab is flexibly connected to the vehicle body, has fine tightness, can isolate sound, vibration, heat and so on. Better comfort is offered for the driver. With the wide operating space and lower boarding/get-down pedal, the operator can board or get down conveniently.
- / The front and rear angles of inclination of the steering wheel are adjustable; the seat can be adjusted by 150mm to front or rear. The operator can select the best driving position.

Environmental protection

- / With such advantages of mute, non-pollution and saving energy, the environmental protection requirements can be met.
- / The whole vehicle utilizes the asbestos-free material.

Maintainability

- / Such electric elements as electric control, contactor, instrument, accelerator and so on are products of internationally well-known brands, and have high reliability.
- / AC power system is used for both running and steering. The motor is maintenance-free, and the maintenance cost for carbon brush replacement and so on is reduced.
- / With the rear cover design provided with air spring, large openness and barrier-free rear view, maintenance for such electric elements as battery, motor, controller and so on is very convenient.

Standard specification

- / Head lamp (high beam head lamp and dipped head lamp)
- / Boarding handle
- / Large and integrated rubber pedal cushion
- / Steering signal lamp
- / Steering wheel adjustable device
- / High-power AC drive system
- / LED rear work lamp assembly
- / Standard seat
- / Fully hydraulic steering
- / Multi-functional combined instrument
- / Front windshield winers
- / Vacuum servo hydraulic brake
- / Electric horn
- / Front windshield wiper water
- / Standard battery
- / Reversing buzzer
- / Reflecting mirror
- / Fully-enclosed driver's cab
- / Top light
- / Inching switch
- / Sun-shield
- / Fan
- / Standard traction pin
- / Front bumper

Options

- / High-performance imported lead-acid battery
- / Speed limit
- / Warm air blower
- / Large-capacity domestically-made lead-acid battery
- / Speed limit alarm
- / Solid tyre
- / Domestically-made lithium iron phosphate battery
- / Traction pin height solution
- / Semi-enclosed driver's cab
- / Imported lithium iron phosphate battery
- / Alarm light
- / Rear windshield wipers
- / Battery charger
- / Rear work light
- / Rear windshield wiper water
- / Suspended seat
- / Extinguisher / Remote management system





The integrated driver's cab has large visual field and is made of irregular tubes. The driver's cab is flexibly connected to the vehicle body, has fine tightness, can isolate sound, vibration, heat and so on. With the wide operating space, better comfort is offered for the driver.



The large LED display screen has functions of electric quantity display, timing meter and failure self-diagnosis. Without the handheld unit, changing vehicle performance and overhaul can be completed via the instruments. The failure will be displayed both in code and text, which is more visual and easy for reading.



The battery can be replaced through being hoisted or laterally moved out, which provides convenience for use by the user.



X series 20-32t Electric Tow Tractor Specification

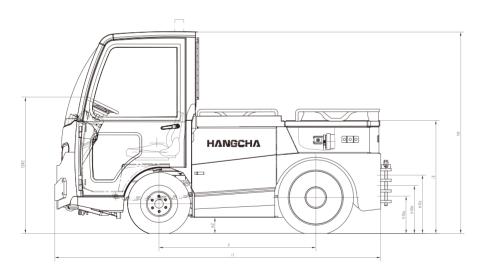
| ₩ | 1.1 | Manufacturer | | | H <i>I</i> | ANGCHA GROUP CO.,LT | rd. | |
|------------------------|------|---|----------|--------------|--------------|---------------------|--------------|---------------|
| Distinguishing mark | 1.2 | Manufacturer's type designation | | QSD200-XD3* | QSD250-XD3* | QSD250-XD3-L* | QSD320-XD3* | QSD320-XD3-L* |
| ark | 1.5 | Rated capacity/rated load | Q (kg) | 20000 | 25000 | 25000 | 32000 | 32000 |
| iĘ = | 1.7 | Rated drawbar pull | F (N) | 5000 | 6300 | 6300 | 7000 | 7000 |
| ä | 1.9 | Wheelbase | y (mm) | 1475 | 1475 | 1760 | 1475 | 1760 |
| Ħ | 2.1 | Service Weight | kg | 3550 | 3750 | 4350 | 4000 | 4550 |
| Weight | 2.2 | Axle loading, front/rear | kg | 1410/2825 | 1600/2150 | 1800/2550 | 1650/2350 | 1820/1730 |
| .s | 3.2 | Tyre size, front | | 6.50-10-10PR | 6.50-10-10PR | 6.50-10-10PR | 6.50-10-10PR | 6.50-10-10PR |
| chassis | 3.3 | Tyre size, rear | | 7.00-12-12PR | 7.00-12-12PR | 7.00-12-12PR | 28×9-15-12PR | 28×9-15-12PR |
| £ | 3.5 | Wheels, number front / rear (x = driven wheels) | | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| ſyres, | 3.6 | Tread, front | b10 (mm) | 1124.5 | 1124.5 | 1124.5 | 1124.5 | 1124.5 |
| _ | 3.7 | Tread, rear | b11 (mm) | 1130 | 1130 | 1130 | 1150 | 1150 |
| | 4.7 | Height of overhead guard (cabin) | he (mm) | 1895 | 1895 | 1895 | 1895 | 1895 |
| | 4.12 | Coupling height | h10 (mm) | 550/450/350 | 550/450/350 | 550/450/350 | 550/450/350 | 550/450/350 |
| Suc | 4.16 | Length of loading surface | l3 (mm) | 1685 | 1685 | 1970 | 1685 | 1970 |
| Dimensions | 4.18 | Width of loading surface | b9 (mm) | 1160 | 1160 | 1160 | 1160 | 1160 |
| E | 4.19 | Overall length | lı (mm) | 3065 | 3065 | 3350 | 3065 | 3350 |
| | 4.21 | Overall width | b1(mm) | 1380 | 1380 | 1380 | 1380 | 1380 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 150 | 150 | 150 | 150 | 150 |
| | 4.35 | Turning radius | Wa (mm) | 2825 | 2825 | 3350 | 2825 | 3350 |
| a | 5.1 | Travel speed, laden/unladen | km/h | - / 25 | - / 25 | - / 25 | - / 25 | - / 25 |
| au _ | 5.5 | Drawbar pull at 60 minute rating | N | 5000 | 6300 | 6300 | 7000 | 7000 |
| Performance data | 5.6 | Max. Drawbar pull at 5 minute rating | N | 20000 | 20000 | 20000 | 26000 | 26000 |
| Ę, | 5.7 | Gradeability, laden/unladen | % | - / 33% | - / 33% | - / 33% | - / 33% | - / 33% |
| ō. | 5.10 | Service brake | | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| و ٺ | 6.1 | Drive motor rating S2 60 min | kW | 25 | 25 | 25 | 30 | 30 |
| Electric- engine | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 80/500 | 80/500 | 80/775 | 80/620 | 80/775 |
| ₩ ₽ | 6.5 | Battery weight | kg | 1200 | 1200 | 1920 | 1480 | 1920 |
| | | | | | | | | |

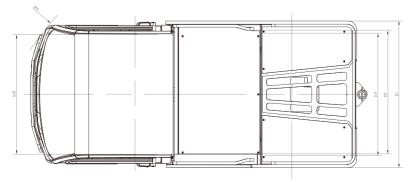
Note: * CE model

Li-Ion Battery Pack specification

| Туре | /pe QSD200-XD3-I* | | QSD250-XD3-IL* | QSD320-XD3-IL* | |
|----------------|-------------------|----------|----------------|----------------|--|
| Li-lon battery | V/Ah | 80.5/456 | 80.5/456 | 80.5/456 | |

Note: * CE model







X Series Electric Platform Truck

with capacities of 1,500 to 5,000kg

The X series electric flatbed handler is a new series of products independently developed by Hangcha. With exterior design, safety, reliability, advancement and comfort, etc. reaching the level of the world's advanced brands and featuring high speed, high efficiency and high safety, it is an ideal choice for the short- and medium-distance goods handling at railway stations, vehicle companies, etc.



Appearance

/ Streamline and large curved surface appearance, combined with eagle eye type LED integrated head light, entirely-new appearance and vision, more novel and fashionable.

Advancement

- / Digital dashboard with battery charge indicator, fault detection, speedometer and hour meter.
- / The whole truck has high speed and efficiency, and the traveling speed can reach 20km/h.
- / Permanent magnet brushless traction motor+electric control+aluminum alloy high-efficiency gear box, high efficiency, fast start-up, energy-saving and noise-reduced.
- / An optional configuration is provided: a full range of long-lasting batteries, large-capacity lead-acid battery. With a large distance from the ground, a small turning radius and a good passing ability.

Comfort

- / The front and rear axles are fully elastic suspension system with low vibration and good comfort.
- / Low step-on platform for comfortable access.
- / Different operating pedals, instruments, steering wheels and switches are configured according to the ergonomics requirements, operation is comfortable and flexible.
- / EPS (electric power steering) is optional, the force is 8-12N, it is easy for operator.
- / The fully-enclosed driver's cab is optional, and can meet all-weather works.

Maintenance

- / The AC traction motor is free maintenance, and the cost is greatly reduced.
- / The electric control cover plate can be easily dismounted, and it is convenient for commissioning and maintenance of the electric control system.
- / Controller and electrical components are placed together for high integration.
- / The battery lid with a gas spring provided for the standard configuration makes the repair, maintenance and replacement of the battery convenient and is applicable to continuous operating conditions.



Large screen display, the instrument panel adopts injection molding design, sturdy an



Full suspension operating platform, vibration is reduced, noise is isolated



LED headlight has the head light and dipped light functions. The front turn light utilizes the



Repair, maintenance and replacement of the battery are convenient and fast, and it is suitable to continuous work



2 operators on board, optimised driving position for maximum comfort and efficiency



Reliability and Safety

- / Such main electric parts as motor controller, contactor, power plug, emergency power-off switch and so on are famous brand products.
- / The chassis, driving axle, steering axle and so on are designed based on high strength, and can meet the heavy-load operating conditions.
- / The frame and girder type structure, has light weight and great bearing capacity.
- / The emergency power-off switch is the standard configuration, and can meet the European safety standard.
- / The efficient AC power system has complete protection functions and greatly improved reliability and service life, powering the electric braking with protection for preventing sliding down a ramp.
- / With the battery placed at the bottom of the vehicle frame, the vehicle has good stability, safety and reliability.
- / Thanks for the brake system and anti-slip function, it provides safety and reliability.



Fully hydraulic steering (4-5t)

The follow-up steering system provided for the standard configuration has the advantages of low energy consumption, low noise, light steering force, a good feel, safe and reliable steering, etc.

Standard specification

- / LED light system
- / LCD screen
- / Standard battery
- / Side charging (lithium battery)
- / Emergency power-o switch
- / Horn
- / Reversing buzzer
- / File box
- / Cup holder
- / Traction pin
- / Angle adjustable steering wheel
- / Floating control platform
- / Seat belt
- / Combination LED three-color taillights
- / Chair

Options

- / EPS (Electric Power Steering) system
- / Reflecting mirror
- / Large capacity lead-acid battery
- / Large-diameter steering wheel
- / Alarm light
- / High performance lead acid battery
- / Suspension seat
- / Acoustic and optical alarm
- / Side charging (lead acid)
- / Large capacity lithium battery
- / Non-standard series platform
- / Blue light lamp
- / Battery side roll out
- / Non-standard series platform
- / LED Rear working light
- / Side shift battery trolley
- / OPS system
- / Terminal power supply
- / Voice-type reversing buzzer
- / Fire extinguisher
- / Charger
- / Solid tyre
- / Non-standard color
- / EPB (Electric Parking Brake)

Options (with cab)

- / Fully-enclosed cab
- / Semi-enclosed cab
- / Get on hand
- / RearView mirror
- / Ceiling light
- / Fan
- / Front single blade wiper
- / Front wiper sprinkler
- / Heater
- / Front glass defroster
- / Sunshade
- / Cooling and heating air conditioner



X Series Electric Platform Truck Specification

| | 1.1 | Manufacturer | | | | | | | HANGCHA GROUP CO.,LTD. | | | | |
|----------|------|---|---------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <u>6</u> | 1.2 | Manufacturer's type designation | | BD15-XD2*/BD15-XC2* | BD15-XD2-I*/BD15-XC2-I* | BD20-XD2*/BD20-XC2* | BD20-XD2-I*/BD20-XC2-I* | BD30-XD2*/BD30-XC2* | BD30-XD2-I*/BD30-XC2-I* | BD40-XC2* | BD40-XC2-I* | BD50-XC2* | BD50-XC2-I* |
| ig 논 | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric | Electric | Electric | Electric | Electric | Electric | Electric | Electric | Electric | Electric |
| ingu | 1.4 | 1.4 Operator type: hand, pedestrian, standing, seated, order-picker | | Seated | Seated | Seated | Seated | Seated | Seated | Seated | Seated | Seated | Seated |
| Dist | 1.5 | 1.5 Rated capacity/rated load | | 1500 | 1500 | 2000 | 2000 | 3000 | 3000 | 4000 | 4000 | 5000 | 5000 |
| | 1.9 | Wheelbase | y (mm) | 1235 | 1235 | 1500 | 1500 | 1500 | 1500 | 1900 | 1900 | 1900 | 1900 |
| ght | 2.1 | Service Weight | kg | 1000 | 892 | 1200 | 942 | 1260 | 1000 | 1790 | 1515 | 1800 | 1525 |
| Wei | 2.3 | Axle loading, unladen front/rear | kg | 515/485 | 460/432 | 615/585 | 486/456 | 665/595 | 535/465 | 895/895 | 745/770 | 900/900 | 750/775 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic |
| is: | 3.2 | Tyre size, front | | 5.00-8-10PR | 5.00-8-10PR | 5.00-8-10PR | 5.00-8-10PR | 6.00-9-10PR | 6.00-9-10PR | 7.00-12-12PR | 7.00-12-12PR | 7.00-12-12PR | 7.00-12-12PR |
| has | 3.3 | Tyre size, rear | | 5.00-8-10PR | 5.00-8-10PR | 5.00-8-10PR | 5.00-8-10PR | 6.00-9-10PR | 6.00-9-10PR | 7.00-12-12PR | 7.00-12-12PR | 7.00-12-12PR | 7.00-12-12PR |
| es, c | 3.5 | Wheels, number front / rear (x = driven wheels) | | 4(x=2) | 4(x=2) | 4(x=2) | 4(x=2) | 4(x=2) | 4(x=2) | 4(x=2) | 4(x=2) | 4(x=2) | 4(x=2) |
| Ž | 3.6 | Tread, front | b10 (mm) | 1095 | 1095 | 1095 | 1095 | 1095 | 1095 | 1290 | 1290 | 1290 | 1290 |
| | 3.7 | Tread, rear | b11 (mm) | 1130 | 1130 | 1130 | 1130 | 1145 | 1145 | 1290 | 1290 | 1290 | 1290 |
| | 4.7 | .7 Height of overhead guard (cabin) | | 1865 | 1865 | 1865 | 1865 | 1900 | 1900 | 1990 | 1990 | 1990 | 1990 |
| | 4.12 | .12 Coupling height | | 350 | 350 | 350 | 350 | 400 | 400 | 440 | 440 | 440 | 440 |
| | 4.16 | .6 Length of loading surface | | 1600 | 1600 | 2000 | 2000 | 2000 | 2000 | 2600 | 2600 | 2600 | 2600 |
| ons | 4.18 | Width of loading surface | b ₉ (mm) | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1500 | 1500 | 1500 | 1500 |
| ensi | 4.19 | Overall length | lı (mm) | 2875 | 2875 | 3275 | 3275 | 3275 | 3275 | 3875 | 3875 | 3875 | 3875 |
| Ë | 4.21 | Overall width | b1(mm) | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1500 | 1500 | 1500 | 1500 |
| | | Overall Height | (mm) | 1210 | 1210 | 1210 | 1210 | 1244 | 1244 | 1335 | 1335 | 1335 | 1335 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 120 | 120 | 120 | 120 | 155 | 155 | 175 | 175 | 175 | 175 |
| | 4.35 | Turning radius | Wa (mm) | 2850 | 2850 | 3300 | 3300 | 3300 | 3300 | 3900 | 3900 | 3900 | 3900 |
| ata | 5.1 | Travel speed, laden/unladen | km/h | 13.5/18 | 13.5/18 | 14/18 | 14/18 | 13/20 | 13/20 | 13/16 | 13/16 | 12/16 | 12/16 |
| e d | 5.6 | Max. Drawbar pull | N | 5200 | 5200 | 5200 | 5200 | 6500 | 6500 | 9000 | 9000 | 9000 | 9000 |
| ll an | 5.8 | Max. gradeability, laden | % | 12%x50 | 12%x50 | 12%x50 | 12%x50 | 12%x50 | 12%x50 | 12%x50 | 12%x50 | 12%x50 | 12%x50 |
| i for | 5.10 | Service brake | | Electromagn+Hydraulic | Electromagn+Hydraulic | Electromagn+Hydraulic | Electromagn+Hydraulic | Electromagn+Hydraulic | Electromagn+Hydraulic | Electromagn+Hydraulic | Electromagn+Hydraulic | Electromagn+Hydraulic | Electromagn+Hydraulic |
| <u> </u> | | Parking brake | | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical | Mechanical |
| 1. | | Drive motor rating S2 60 min | kW | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| ctric | 6.4 | System battery voltage, nominal capacity K5 Battery weight | V/Ah | 72/125 | 80/125 | 72/180 | 80/125 | 72/180 | 80/125 | 72/240 | 80/228 | 72/240 | 80/228 |
| Ele | 6.5 | | kg | 268 | 150 | 418 | 150 | 418 | 150 | 485 | 210 | 485 | 210 |
| | | Battery dimensions | (mm) | 1072/402/321 | 1070/400/370 | 1072/566/321 | 1070/400/370 | 1072/566/321 | 1070/400/370 | 1072/566/321 | 1070/564/370 | 1072/566/321 | 1070/564/370 |
| | 10.7 | Sound pressure level at the driver's seat | dB (A) | <65 | <65 | <65 | <65 | <65 | <65 | <65 | <65 | <65 | <65 |

Note:

Electric control configuration: D1(INMOTION) / C1(CURTIS)

★ CE model

1.5/2.2/3.0t Specifications of platforms

| Length Width | 1600 | 2000 | 2240 | 2400 | 3000 | 4000 | 4500 |
|-----------------|--------------------------|--------------------------|------|------|------|------|------|
| 1300 | ■ Standard configuration | ■ Standard configuration | •= | •= | | | |
| 1400 | | •= | •= | •= | | | |
| 1500 | | | | •= | •= | •= | •= |
| 1800 | | | | | | ○■ | |

Note: ● Preferably select O optional Guardrail height: ■ 220: □ 320mm

4.0/5.0t Specifications of platforms

| Length Width | 2600 | 3200 | 4000 | 4600 | 5000 | 6000 |
|-----------------|--------------------------|------|------|------|------|------|
| 1500 | ■ Standard configuration | •= | •= | ○■ | | |
| 1600 | | 0 | ○■ | | | |
| 1800 | | | ○■ | | | |
| 2000 | | | ○■ | 0 | ○■ | ○■ |
| 2600 | | | | 0 | | |

Note: ● Preferably select **O** optional Guardrail height: ■ 220: □ 320mm

Table of the battery (72v)

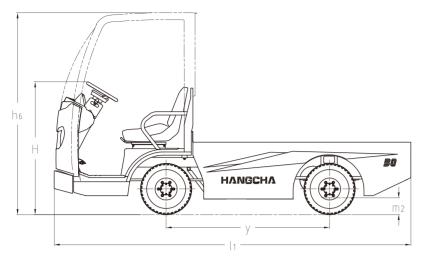
| Model A.h | BD15 | BD20 | BD30 | BD40 | BD50 |
|-----------|--------------|--------------|--------------|--------------|--------------|
| 120 | * | | | | |
| 125 | | • | | | |
| 140 | ¥ | | | | |
| 165 | ☆○ ◇∇ | | | | |
| 180 | | * | * | | |
| 228 | | Δ | Δ | A | A |
| 220 | | ∇ | ∇ | ∇ | |
| 240 | | ☆ | ☆ | * | * |
| 300 | | ☆○◇ ∇ | ☆○◇ ∇ | ☆○◇▽ | ☆○◇ ∇ |
| 330 | | ☆○◇ ∇ | ☆○◇ ∇ | ☆○ ◇∇ | \$○◊∇ |
| 420 | | | | \$ O | ☆O |

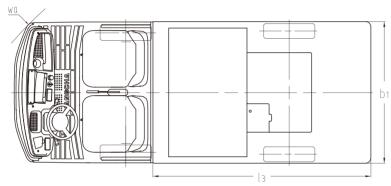
Note

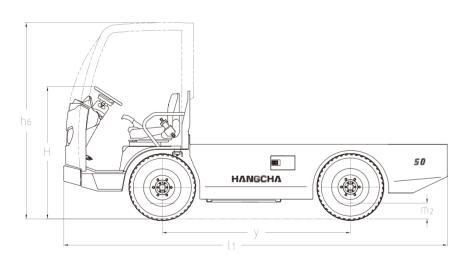
Standard battery: ZIBO(★), ENEROC(■▲)

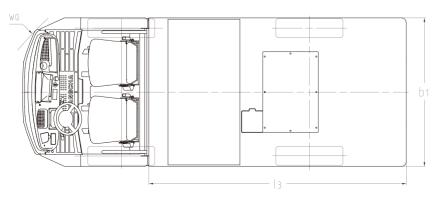
Lead-acid battery: Red text 12V, Blue text 6V, Black text 2V,

Lithium battery: Green text, 77.28V(■), 80.5V(△▲)













X Series Electric Tow Tractor

with capacities of 20,000 to 32,000kg

Exterior

/ With a streamlined integral steel structure, a vivid stylish profile formed by a combination of large arcs and streamlined curved surfaces and a centered driving position, the vehicle is suitable for pushing operations.

Safety

- / An advanced AC control system—the high-frequency integrated IMOTION controller ensures stable and accurate driving, good performance of electronic control matching the motor, and with the functions of stable starting, regenerative braking, reverse braking and anti-sliding on ramps, etc., is energy-saving and is highly safe and reliable.
- / Electric vacuum assisted braking: the double-chamber and double-pipeline all-wheel braking systems with front and rear dynamic proportional partial pressure control performs safe, stable and reliable braking. The large-capacity vacuum cylinder designed can reliably assist braking (by pumping the pedal six times) to enable higher safety when the vehicle is not powered.
- / With the electrical main switch to perform emergency shut-off and ensure the safety of the vehicle.
- / The S-EPS (Electric Power Steering) synchronous steering system and the synchronous steering axle operate according to road conditions to ensure straight driving and safe and reliable steering.
- / Double safety hook operation: the pull rod is equipped with a safety device to prevent mis-operation of the pull rod, simple but reliable and highly safe.
- / The water resistance level of the vehicle is IPX5. Key parts (for electric control, etc.) are placed in the high position of the vehicle body to prevent road surface water from entering and ensure strong wading ability, safety and reliability.

Comfort

- / With the human-machine interaction system that consists of compact and reliable novel digital multifunctional instruments and a combination rocker switch, the operations of the vehicle can be shown clearly.
- / The entire cab (console) is fully suspended, with good sealing and less vibration, plus a suspended seat for great operating comfort.
- / The chassis elastic suspension technology and the long wheelbase design enable a great ride comfort.
- / The wide-view cab with an integral frame constituted by profiled steel pipes is flexibly connected to the body and has good sealing, sound insulation, vibration isolation and heat insulation, etc., so that the driver's comfort is improved. The large operating space and low boarding steps allow the operator to very easily get on and off the vehicle.
- / The forward and backward inclination angles of the hand wheel is adjustable and the seat can be adjusted by 150mm backwards and forwards, so that the operator can choose the best driving position.











Advancement

- / The AC power system provides strong power and has more precise speed regulation performance.
- / High-efficiency power system and high-performance lithium iron phosphate battery: the lithium battery is installed vertically. A standard 80.5V456A.h battery is provided for the standard configuration. The battery can last for a long time.
- / The LED-screen have the functions of battery display, timer and fault self-diagnosis, without a handheld unit, maintenance and changing of the vehicle performance can be completed through the instruments. Faults are indicated in the form of a combination of codes and text, which are clearer and easier to read.
- / There are operating switches at the rear of the vehicle: front and rear jog switches and an emergency shut-off switch.
- / For the standard configuration, the vehicle is equipped with LED lights and integrated high-beam and low-beam headlights.
- / The electric parts of the vehicle are designed to be waterproof and forced air cooling is provided for electric control, where the functions of heat dissipation, ventilation, dust resistance and water resistance.





Environmental protection

- / Silence, no pollution, energy saving and other advantages meet environmental protection requirements.
- / Asbestos-free materials are used for the vehicle.

Maintainability

- / The electric components such as the electric controller, contactor, instruments and accelerator light are all of internationally-renowned brands and have high reliability.
- / An AC power system is used for driving and steering, and the motor is maintenance-free motor so that the maintenance cost of replacing the carbon brush light is reduced.
- / The wide-opened front hood, the easy-to-dismount electric controller hood plate, etc. make maintenance and commissioning very convenient.
- / The easy-to-dismount electric controller hood plate and the rear hood plate make the maintenance and commissioning of drive and electric control very convenient.

Standard Specification

- / LED headlights (high-beam and low-beam)
- / Turn signal lights
- / Combination real LED operating light
- / Multi-function instrument cluster
- / Electric horn
- / Reverse buzzer
- / Ceiling light
- / USB interface
- / Boarding handle
- / Steering wheel adjusting device
- / Standard seat
- / Front wiper
- / Standard lithium battery
- / Reflective mirror
- / Jog switch
- / Large integral rubber pedal pads
- / High-power AC drive system
- / Electric power–assisted synchronous steering system
- / Vacuum assisted hydraulic braking
- / Sunshade
- / Standard traction pin

Options

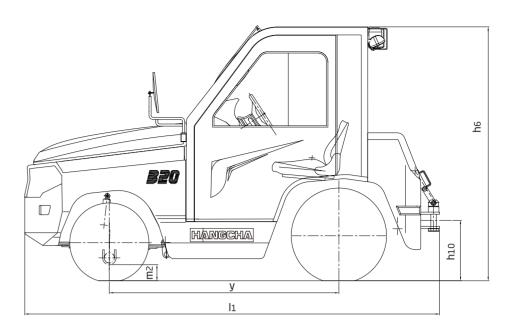
- / Semi-enclosed cab
- / Heater
- / Suspended seat
- / OPS
- / Traction pin height scheme
- / Rear platform rail
- / Lithium iron phosphate battery 404-542-808
- / Turning deceleration
- / Reversing video
- / Air conditioner
- / Battery charger
- / Fire extinguisher
- / Speed limit
- / Monitoring equipment
- / Fully enclosed cab

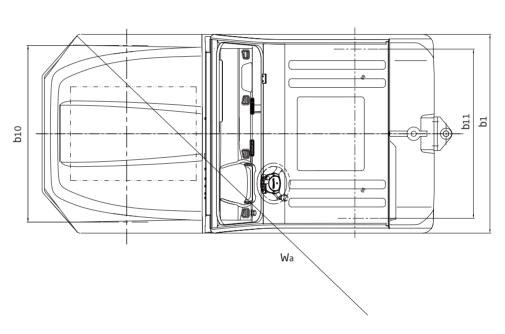
X Series Electric Tow Tractor Specification

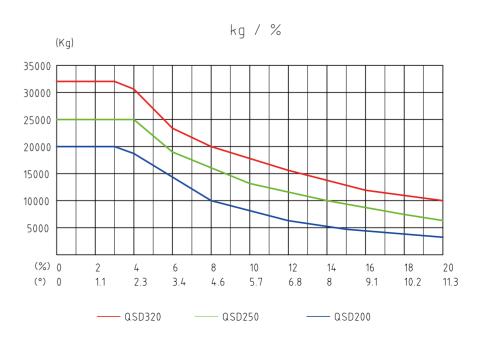
| | 1.1 | Manufacturer | | | HANGCHA GROUP CO.,LTD. | | |
|------------------------|------|---|----------|----------------|------------------------|----------------|--|
| Distinguishing mark | 1.2 | Manufacturer's type designation | | QSD200-XD3-MI* | QSD250-XD3-MI* | QSD320-XD3-MI* | |
| nguis | 1.5 | Rated capacity/rated load | Q (kg) | 20000 | 25000 | 32000 | |
| Distir | 1.7 | Rated drawbar pull | F (N) | 10000 | 11000 | 12000 | |
| | 1.9 | Wheelbase | y (mm) | 1710 | 1710 | 1710 | |
| Weight | 2.1 | Service Weight | | 3400 | 3600 | 3780 | |
| Wei | 2.2 | Axle loading, front/rear | kg | 930/2470 | 1010/2590 | 960/2820 | |
| | 3.2 | Tyre size, front | | 6.50-10-10PR | 6.50-10-10PR | 6.50-10-10PR | |
| , ν | 3.3 | Tyre size, rear | | 7.00-12-12PR | 7.00-12-12PR | 28×9-15-14PR | |
| Tyres, chassis | 3.5 | Wheels, number front / rear (x = driven wheels) | | 2/2 | 2/2 | 2/2 | |
| | 3.6 | Tread, front | b10 (mm) | 1322 | 1322 | 1322 | |
| | 3.7 | Tread, rear b11 (| | 1280 | 1280 | 1260 | |
| | 4.7 | Height of overhead guard (cabin) | he (mm) | 1895 | 1895 | 1895 | |
| , s | 4.12 | Coupling height | h10 (mm) | 450 | 450 | 450 | |
| Dimensions | 4.19 | Overall length | l1 (mm) | 3090 | 3090 | 3090 | |
| in er | 4.21 | Overall width | b1 (mm) | 1480 | 1480 | 1480 | |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 120 | 120 | 120 | |
| | 4.35 | Turning radius | Wa (mm) | 3350 | 3350 | 3350 | |
| ė | 5.1 | Travel speed, laden/unladen | km/h | - / 25 | - / 25 | - / 25 | |
| Performance data | 5.5 | Drawbar pull at 60 minute rating | N | 10000 | 11000 | 12000 | |
| erfor | 5.7 | Gradeability, laden/unladen | % | - / 33% | - / 33% | - / 33% | |
| ۵ | 5.10 | Service brake | | Hydraulic | Hydraulic | Hydraulic | |
| ه ٺ | 6.1 | Drive motor rating S2 60 min | kW | 23 | 30 | 30 | |
| Electric- engine | 6.4 | Battery voltage, nominal capacity K5 | V/Ah | 80.5/456 | 80.5/456 | 80.5/456 | |
| | 6.5 | Battery weight | kg | 380 | 380 | 380 | |
| Note: * (F mode) | | | | | | | |

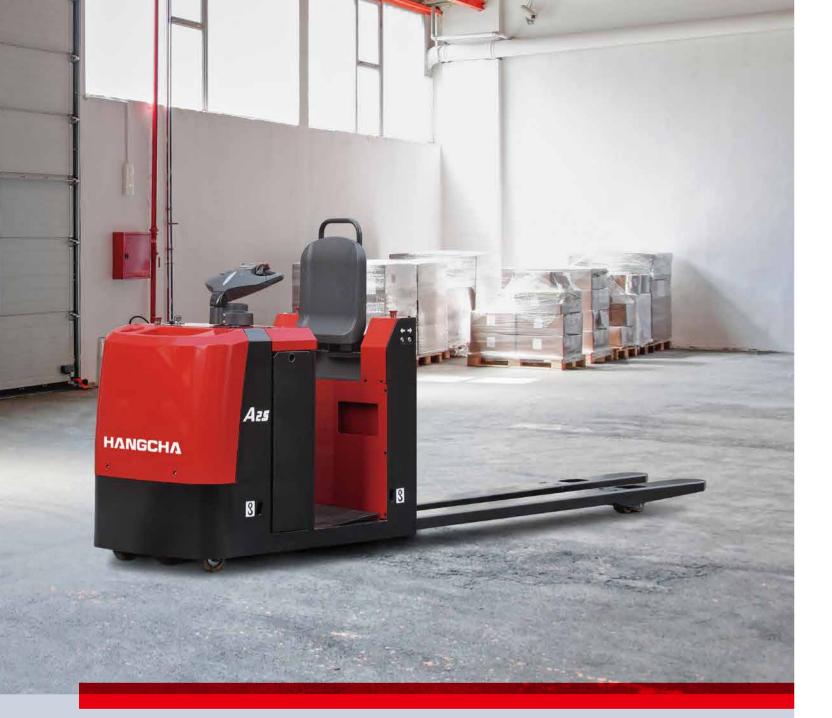
Note: * CE mode











A Series Low-level Order Picker

with capacities of 2,500kg

A series low-level order picker is mainly applied in long-distance trans portation among the production lines. Low operator platform for frequent and effortless entry and exit.

Thanks to the standing design, it can greatly improve the efficiency of operations.

Furthermore, for indoor application, the electric drive system is environmental friendly within the workshop. Therefore, this product is a good partner of automobile manufacturing, logistics companies, warehouses and other places, fields which has broad application prospects.

Appearance

- / A series low level order picker applied professional industrial design, stream lines, and compact, and fully ergonomic consideration, in line with the latest design trends.
- / Applied steel stamping and injection molding processes for front and back guard, which is robust, durable, and also environmental compliance.

Reliability

- / 5-pivot and low center of gravity design ensure the safe and reliability.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Safety switch of pedal using non-contact proximity switch, improves safety and reliability.
- / The lift button with non-contact proximity switch for safe and reliable operation.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch-formed forks provide more strength performance.
- / The charging plug is fixed on the chassis for avoid damage from battery installment.

Maintenance

- / AC motor without carbon brushes, maintenance-free, cost saving.
- Integrated battery indicator, hour meter and self-diagnostic instrument.

High Performance

- / Electric Power Steering(EPS) is standard specification, which provides flexible operation.
- / Double tray placed side by side design, more suitable for a large picking and transshipment.
- / The inching switches installed at the LH/RH side, greatly improve the ease of operation.
- / Powered by AC traction motor not only has good acceleration and climbing performance, but also low heat, brushless, maintenance-free.
- / Latest AC CURTIS control system, precise and smooth.
- / CAN-BUS connection enables all truck data can be read out for inspection, and also improves the data transition more quick and reliable.
- / All key parts such as hydraulic unit/switches/ connector/ battery indicator and hour meter all adopt the famous brand.



Side battery changes is standard feature



There are three emergency switches, yo can quickly cut off the power with any switch to prevent the burt



Backrest height can be adjusted within a certain range, and the backrest with hip support can greatly improve the comfor of the operator



Fully opened hood, easy accessibility of all components, is easy for service



Comfort

- / The pedal applies shock absorption design, greatly improve the operator's comfort, reduce the fatigue.
- / New designed tiller is simple and beautiful, all the function can be operated by one hand.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / Small body with large arc design, more suitable for the truck in the centralized shelves. Chassis adopt wedge design, greatly increasing the passing ability.

Safety

- / Electronic speed control with automatic deceleration when steering angle increase.
- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.

Options

- / Imported battery
- / Fork length --1150/1220/2150mm
- / Outside fork width --600/680mm
- / Charger
- / Load backrest
- / Guide roller

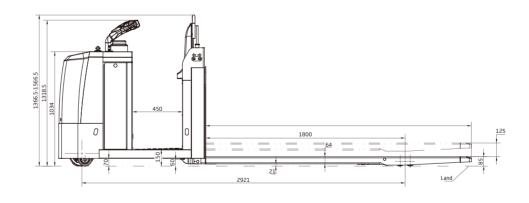
Standard Specification

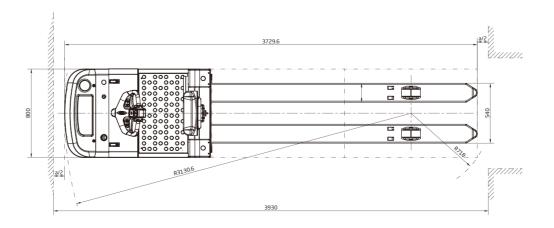
- / AC traction motor
- / CURTIS AC controller
- / Imported hydraulic unit
- / Safety pedal & Rubber backrest
- / Side battery change
- / 3 emergency switches
- / 2 inch switches
- / Multi-function indicator
- / Tandem load wheels
- / Fork length --2400 mm / Outside fork width --540 mm
- / Electronic lifting limitation
- / Multi-function tiller with CAN-Bus system
- / Horr
- / EPS (Electric Power Steering)



A Series Low-level Order Picker

| | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. |
|------------------------|--------|---|------------|------------------------|
| i. | 1.2 | Manufacturer's type designation | | CJD25-AC2-L |
| Distinguishing mark | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Order-picker |
| in a | 1.5 | Rated capacity/rated load | Q (kg) | 2500 |
| ist | 1.6 | Load centre distance | c (mm) | 1200 |
| " | 1.9 | Wheelbase | y (mm) | 2921 |
| Weight | 2.1 | Service Weight | kg | 1130 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU |
| <u>.s</u> | 3.2 | Tyre size, front | | Ф230х75 |
| Tyres, chassis | 3.3 | Tyre size, rear | | Ф85х70 |
| =[| 3.4 | Additional wheel (dimensions) | | Ф125х50 |
| res | 3.5 | Wheels, number front / rear (x = driven wheels) | | 1x+2/4 |
| - | 3.6 | Tread, front | b10 (mm) | 546 |
| | 3.7 | Tread, rear | b11 (mm) | 370 |
| | 4.4 | Lift | h₃ (mm) | 125 |
| | 4.15 | Fork height,lowered | h13 (mm) | 85 |
| آ ہے ا | 4.19 | Overall length | lı (mm) | 3730 |
| Dimensions | 4.21 | Overall width | b1(mm) | 800 |
| sua | 4.22 | Fork dimensions | s/e/l (mm) | 64/170/2400 |
| ا قِ ا | 4.25 | Distance between fork-arms | bs (mm) | 540 |
| | 4.32 | Ground clerance,center of wheelbase | m2 (mm) | 21 |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 3930 |
| | 4.35 | Turning radius | Wa (mm) | 3130 |
| e) (| 5.1 | Travel speed,laden/unladen | km/h | 7.0/10 |
| ra a | 5.2 | Lift speed,laden/unladen | m/s | 0.032/0.069 |
| \$\bar{2} | 5.3 | Lowering speed,laden/unladen | m/s | 0.042/0.033 |
| Performance Data | 5.8 | Max.Gradeability,laden/unladen | % | 6/16 |
| | 6.1 | Drive motor rating S2 60 min | kW | 2.2 |
| Electric | 6.2 | Lift motor rating at S3 15% | kW | 2.2 |
| Eng | 6.4 | Battery voltage,rated capacity | V/Ah | 24/360 |
| - | | Battery voltage,rated capacity,Optional | V/Ah | ~24/420 |
| | 8.1 | Type of drive control | | AC |
| | 9.1 | Manufacturer | | CURTIS |







A Series Storage Assist Vehicle

with capacities of 215kg

With a comprehensive safety protection system, excellent ergonomic design, an advanced control system and excellent performance, the vehicle is reliable, stable, comfortable and safe, and may be used for picking, transportation and other operations in narrow, low environments such as small warehouses, supermarkets, laboratories, etc.

SIMPLE/SOLID/ SMART







MALL WARFHOUSE

SIIPERMARKETS

I ARORATORIE

Reliability

- / With a high-strength steel frame structure, the vehicle frame is robust and reliable.
- / All wires and cables have reliable protection, which greatly improves the reliability of the electrical system.
- / Switches, connectors, instruments and other key parts are all of leading international brands and have excellent performance and reliable quality.

High performance

- / A green and environmentally friendly, efficient energy-saving CATL lithium battery is provided for the standard configuration.
- / An integrated charger enables easy and quick charging.
- / For the standard configuration a load tray and platform tray that can be lifted manually/electrically are provided to enable higher picking and transportation efficiency.
- / The maintenance-free brushless AC walking motor has excellent acceleration performance and low heat generation.





The advanced AC control system performs accurate, stable and efficient control.

The CANBUS bus structure makes the communication of the vehicle faster and more reliable.

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ADDED SECURITY. THE SCIENCE OF DESIGN

Comfort

- / The mast ascending and descending buffering function offers more comfort.
- / An optional tray that can be lifted electrically can be operated easily, stably and comfortably.
- / Multi-layer pedal pads and door pads reduce operator fatigue.
 / For the standard configuration, multi-function instruments have multiple functions such as mode selection, wheel position display, etc., and can clearly display various information of the vehicle.







Right and left hand sensing



Front and rear flashing lights

Safety

- / The right and left hand sensing and safety pedal ensure the operator is in the correct operating position.
- / For the standard configuration a tilt switch sensor and a door guardrail sensing switch are provided to improve the operation safety.
- / The driving speed is correlated with lifting height, the higher the lifting height, the lower the driving speed and the correspondingly smaller the acceleration.
- / The turning proportional deceleration function provided for the standard configuration ensures smooth and safe turning.
- / The manual emergency descending function can be performed at the rear of the vehicle.
- / With the operating platform bottom safety protection, front and rear flashing lights and other functions, the surrounding personnel can be alerted and protected, and the driving danger can be reduced.

Maintenance

- / The maintenance-free brushless AC motor significantly reduces the operating cost.
- / The integrated battery display, timer and fault self-diagnosis gauge facilitate maintenance.
- / All components are placed at the front of the frame, so just open the hood, and then the vehicle can be repaired easily and quickly.



A lower operation panel is designed to enables the operations such as operation platform lifting, brake release, etc. to be performed outside the vehicle so as to facilitate vehicle maintenance.

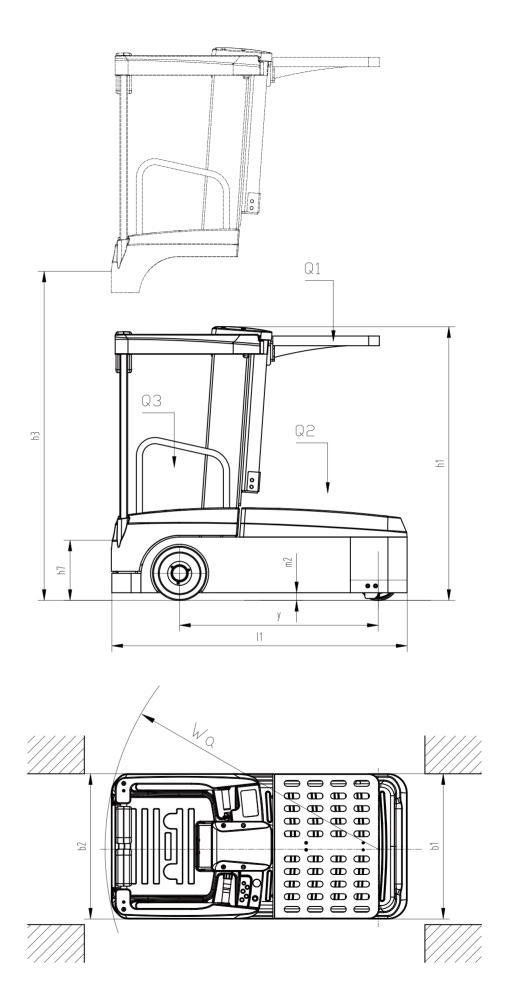
Options

- / Blue light
- / Warning light
- / Front working light
- / Side roller
- / Electric lifting pallet
- / Back cushion



A Series Storage Assist Vehicle Specification

| | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. |
|------------------------|------|--|-----------|------------------------|
| 6 | 1.2 | Model | | CJD02-AMC1-M1I* |
| ishir x | | Rated capacity on load tray | Q1(kg) | 100 |
| Distinguishing mark | 1.5 | Rated capacity on load deck | Q2(kg) | 115 |
| Dist | | Rated capacity on standing platform | Q3(kg) | 135 |
| | 1.9 | Wheelbase | y(mm) | 1026 |
| Weight | 2.1 | Service weight | kg | 600 |
| sis | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | polyurethane |
| Tyres/chassis | 3.2 | Tyre size,front | mm | Ø210×83 |
| res/ | 3.3 | Tyre size, rear | mm | Ø280×60 |
| _ ≥ | 3.5 | Wheels, number driving, caster/loading (x=drive wheels) | | 1x,/2 |
| | 4.2 | Height,mast lowered | h1(mm) | 1414 |
| | 4.4 | Lift | h3(mm) | 2995 |
| | 4.5 | Height, mast extended | h4(mm) | 4409 |
| sions | 4.8 | Seat height/standing height | h7(mm) | 300 |
| Dimensions | 4.19 | Overall length | lı(mm) | 1525 |
| | 4.21 | Overall width | b1/b2(mm) | 750/750 |
| | 4.31 | Ground clearance, centre of wheelbase | m2(mm) | 40 |
| | 4.35 | Turning radius | Wa(mm) | 1210 |
| E. | 5.1 | Travel speed,laden/unladen | km/h | 8/8 |
| e da | 5.2 | Lift speed,laden/unladen | mm/s | 260/300 |
| manc | 5.3 | Lowering speed,lade/unladen | mm/s | 250/250 |
| Performance data | 5.7 | Gradeability,laden/unladen | % | 5 |
| P. | 5.10 | Service brake | | Electromagnetic |
| ine | 6.1 | Drive motor rating S2 60 min | kw | 0.65 |
| Electric-engine | 6.2 | Lift motor rating at S3 15 % | kw | 2.2 |
| ctric | 6.4 | Battery voltage/nominal capacity K3, Maintenance free | V/Ah | 24/125 |
| Ele | | Type of battery | | Lithium |
| Addition data | 10.7 | Sound pressure level at the driver's seat | dB(A) | 68 |



Note: * CE model 270



A series Medium Level Order Picker

with capacities of 1,000kg

The A series medium level order picker is a type of high-end truck of warehouse equipment. The truck features complete safety protection system, excellent ergonomic design, and cutting-edge control system. With reliability, stability, comfort, safety, and excellent performance, it is suitable for order picking operations for low and medium-level automatic storage & retrieval system with height below 5m.

High Performance

- / Maximum full-load travel speed can reach 9km/h, which increases efficiency substantially.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The cutting-edge CURTIS AC control system realizes accurate and stable control, and higher efficiency.
- / The CANBUS structure makes communication of the entire truck faster and more reliable.

Comfort

- / Buffering and deceleration functions of the mast when it rises / descends to the top / bottom can avoid impact and thus increase comfort.
- / Rising / descending speed of both the cab and fork can be regulated in proportion to control accuracy.
- / LED cab top lamp and side lamp, as standard configuration, feature attractive appearance and bright illumination, and are helpful for order picking operations in space with poor lighting.
- / The CURTIS multi-functional instrument, as standard configuration, has multiple functions including speed selection and wheel position display, and can clearly display various types of information about the truck.
- / With a sub-operation system, rising / descending of the cab and fork can be manipulated to facilitate order picking operations.

Reliability

- / The high-strength steel plate framed structure of chassis features a long service life.
- / All wires and cables have reliable protection, which increases reliability of electrical system significantly.
- / Switches, plug connectors, meters, and other important parts are all imported from abroad, with excellent performance and reliable quality.

Maintenance

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.



Safety

- / The tilt angle detection system, as standard configuration, makes the truck stop operation when it tilts forward / backward or left / right to certain angle, and the operation may not be resumed until the cab is lowered to the level below certain height.
- / Side barriers with detecting switch are provided at both left and right sides, and the truck works only when such side barriers are lowered to positions.
- / Mast chain of 10 times of safety factor is provided, including chain safety switch.
- / Travel speed and lifting speed are interlinked, with lower travel speed as lifting height increases, also with lower acceleration
- / The proportional deceleration function at turns, as standard configuration, guarantees stability and safety when the truck turns.
- / The safety pedal of standard configuration must be treaded down to enable other operations, so as to increase safety.
- / The hydraulic system has an emergency manual lowering valve, which can be operated at rear of the truck to lower the cab.





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

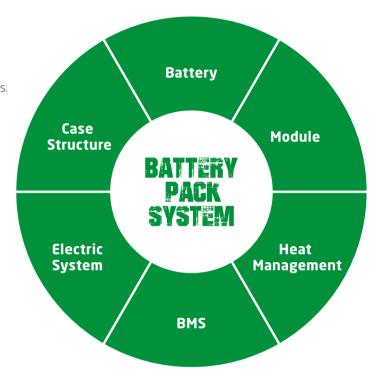




INNOVATIVE SOLUTIONS NEW POWER NOW

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.





Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

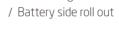
| Туре | | CJD10-AC3-M1I* | CJD10-AC3-M1KI* | CJD10-AC4-M2I* | CJD10-AC4-M2KI* |
|----------------|------|----------------|-----------------|----------------|-----------------|
| Li-lon battery | V/Ah | 25.76/604 | 25.76/604 | 25.76/604 | 25.76/604 |
| Titans charger | | SPC-24100Q | SPC-24100Q | SPC-24100Q | SPC-24100Q |

Note: * CE model



Standard Specification

- / AC driving motor
- / CURTIS controller
- / Free accelerator lever (with sensor switch)
- / Automatic deceleration at turns
- / CURTIS instrument
- / Chain switch
- / Side barriers switch
- / Rear-view mirror
- / LED lamp
- / Emergency power off switch
- / Alarm light
- / Horn
- / Safety pedal / Tilt angle dectection system / Side barriers
- / File folder
- / Back cushion
- / Cup holder
- / Electrostatic belt
- / Electromagnetic brake











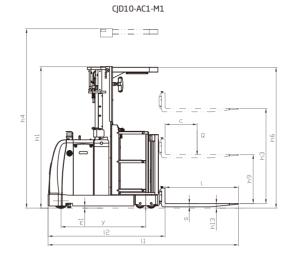


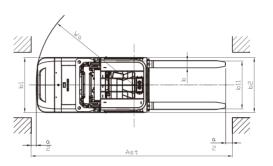


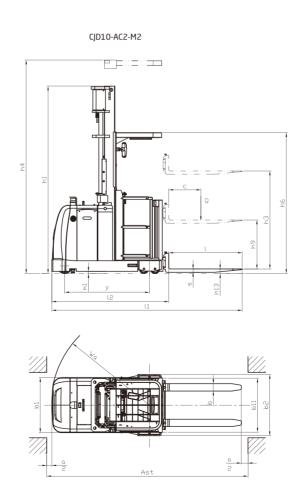


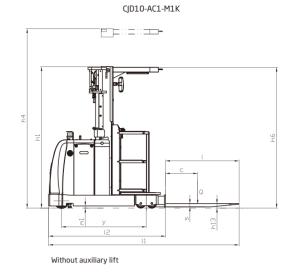
A Series Medium Level Order Picker

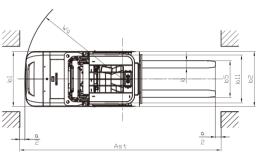
| | 1.1 | Manufacturer | | | HANGCHA GR | OUP CO.,LTD. | |
|------------------------|--------|--|---------------------|-----------------|-----------------|-----------------|-----------------|
| | 1.2 | Manufacturer's type designation | | CJD10-AC3-M1* | CJD10-AC3-M1K** | CJD10-AC4-M2* | CJD10-AC4-M2K** |
| DO. | 1.3 | Drive:electric (battery or mains),diesel,petrol,fuel gas | | Electric | Electric | Electric | Electric |
| Lishing rk | 1.4 | Operator type:hand,pedestrian,standing,seated,order-picker | | Order-picker | Order-picker | Order-picker | Order-picker |
| Distinguishing mark | 1.5 | Rated capacity/rated load | Q(t) | 1 | 1 | 1 | 1 |
| Δ | 1.6 | Load centre distance | c(mm) | 600 | 600 | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x(mm) | 225 | 225 | 225 | 225 |
| | 1.9 | Wheelbase | y(mm) | 1385 | 1385 | 1385 | 1385 |
| Weight | 2.1 | Service weight kg | | 2516 | 2516 | 2805 | 2805 |
| | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU | PU | PU |
| .s.s | 3.2 | Tyre size, front | | Ø250×100 | Ø250×100 | Ø250×100 | Ø250×100 |
| Tyres, chassis | 3.3 | Tyre size, rear | | Ø152.4×76.2 | Ø152.4×76.2 | Ø152.4×76.2 | Ø152.4×76.2 |
| | 3.5 | Wheels, number front/rear (x = driven wheels) | | 1x/4 | 1x/4 | 1x/4 | 1x/4 |
| | 3.7 | Tread,rear | b11(mm) | 780 | 780 | 880 | 880 |
| | 4.2 | Height,mast lowered | hı(mm) | 2310 | 2310 | 3060 | 3060 |
| | 4.4 | Lift | h₃(mm) | 3000 | 3000 | 4500 | 4500 |
| | 4.5 | Height, mast extended | h4(mm) | 5310 | 5310 | 7560 | 7560 |
| | 4.7 | Height of overhead guard (cabin) | h ₆ (mm) | 2300 | 2300 | 2300 | 2300 |
| | 4.11 | Additional lift | h ₉ (mm) | 800 | 1 | 800 | 1 |
| | 4.15 | Height,lowered | h13(mm) | 75 | 75 | 75 | 75 |
| ions | 4.19 | Overall length | lı(mm) | 3110 | 3110 | 3110 | 3110 |
| Dimensions | 4.20 | Length to face of forks | Iz(mm) | 1910 | 1910 | 1910 | 1910 |
| | 4.21 | Overall width | b1/b2(mm) | 900/900 | 900/900 | 900/1000 | 900/1000 |
| | 4.22 | Fork dimensions DIN ISO 2331 | s/e/l(mm) | 55/120/1200 | 55/120/1200 | 55/120/1200 | 55/120/1200 |
| | 4.25 | Distance between fork-arms | bs(mm) | 240~800 | 540 | 240~800 | 540 |
| | 4.31 | Ground clearance,laden,below mast | m1(mm) | 35 | 35 | 35 | 35 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast(mm) | 3235 | 3235 | 3235 | 3235 |
| | 4.34.2 | Aisle width for pallets 800 × 1200 lengthways | Ast(mm) | 3357 | 3357 | 3357 | 3357 |
| | 4.35 | Turning radius | Wa(mm) | 1610 | 1610 | 1610 | 1610 |
| | 5.1 | Travel speed,laden/unladen | km/h | 9/9 | 9/9 | 9/9 | 9/9 |
| nce | 5.2 | Lift speed,laden/unladen | m/s | 0.115/0.150 | 0.115/0.150 | 0.200/0.260 | 0.200/0.260 |
| Performance Data | 5.3 | Lowering speed,lade/unladen | m/s | 0.230/0.225 | 0.230/0.225 | 0.320/0.300 | 0.320/0.300 |
| Per | 5.7 | Gradeability,laden/unladen | % | 5/10 | 5/10 | 5/10 | 5/10 |
| | 5.10 | Service brake | | Electromagnetic | Electromagnetic | Electromagnetic | Electromagnetic |
| | 6.1 | Drive motor rating S2 60 min | kW | 3 | 3 | 3 | 3 |
| Electric- engine | 6.2 | Lift motor rating at S3 15 % | kW | 3.2 | 3.2 | 6.4 | 6.4 |
| Elec | 6.4 | Battery voltage/nominal capacity K5 | V/Ah | 24/625 | 24/625 | 24/700 | 24/700 |
| | 6.5 | Battery weight | kg | 466 | 466 | 557 | 557 |
| Addition data | 10.7 | Sound pressure level at the driver's seat | dB(A) | 69 | 69 | 69 | 69 |

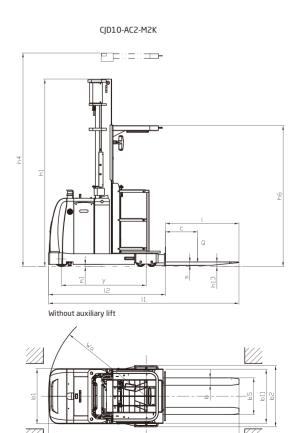












Note : * without auxiliary lift

★ CE model



A Series Electric Stock Picker

with capacities of 1,000lbs

The A Series Electric Stock Picker is designed to meet order fulfillment needs in narrow aisle environments. This stock picker has a comprehensive safety protection system, excellent ergonomics, and an advanced control system. Being reliable, comfortable, safe, and stable, all while providing excellent performance, it is the perfect choice for increasing productivity in small load order fulfilling environments such as retail and manufacturing applications.

Comfort

- / The truck is designed for smooth elevation and stable reach when lifting and placing loads, reducing operator fatigue.
- / Lifting & lowering of the mast are buffered to enable more comfort.
- / CURTIS multi-function instrument display includes functions such as mode selection and wheel position. The instruments also clearly display various information about the order picker.

Reliability

- / The vehicle's frame is robust and reliable thanks to its high-strength steel frame structure.
- / All of the stock picker's wires and cables are protected. This greatly improves the reliability of the electrical system.
- / Switches, connectors, instruments, and other key parts are all high-quality products with excellent performance and quality.

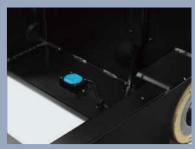
Maintenance

- / The brushless AC motor is maintenance-free. This saves the end-user time and money.
- / The integrated display shows remaining power, advanced diagnostics, and timing for convenience when operating and maintaining the stock picker.
- / The rear hood can be easily removed. This is convenient for maintenance of the hydraulic unit, electric control, motor, and other parts.

CATL Lithium Iron Phosphate Battery Packs

- / Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.
- / HANGCHA provides these Lithium Iron Phosphate (LiFePO $_{\! 4}$) battery packs with up to a 5 year or 10,000 hour warranty.
- / See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.

| Standard Batter | y Capacity | |
|--------------------------------------|------------------------|---|
| Battery Capacity (V/Ah) (kW·h) | 24V/125Ah 3.00kW·h | |
| Charger | Built-in (24V/40Ah) | |
| | | 20.9" (530mm) 24.6" (624mm) 8.6" (218mm) |



The tilt sensor prevents the vehicle from tipping over due to excessive slope and ensures operator safety.



The rear load tray can be folded to allow fo working in a confined space



Battery side roll out and built-in charger are standard features of the stock picker. This allow for easy battery replacement and convenient charging



The large front and rear trays greatly improve the operator's efficiency

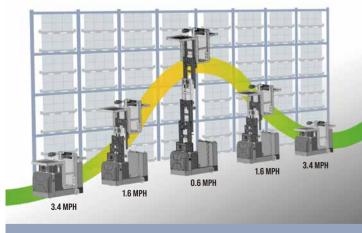


The guardrails are equipped with detection switches. The stock picker will not work until the guardrails are put up



Performance

- / The brushless AC traction motor features excellent acceleration, outstanding climbing ability, low heat emission, and is maintenance-free.
- / The advanced CURTIS control system provides precise, smooth, and efficient control of the stock picker.
- / CANBUS structure allows for the whole vehicle to communicate faster and more reliably.



Simultaneous Travel and Lift

With productivity in mind, Hangcha designed the stock picker to travel and lift simultaneously. This allows operators to move around a facility while raising or lowering the stock picker to their desired height in one smooth, seamless operation. The truck reaches a maximum speed of 3.4 mph and adjusts speed based on lift height.

Standard Specification

- / AC Traction Motor
- / CURTIS Controller
- / Front Load Tray
- / Foldable Rear Load Tray
- / Automatically Decelerates when
- / Cornering
- / CURTIS Multi-Function Instrument
- / Display
- / Maintenance-Free Battery
- / Battery Locking Mechanism
- / Built-in Charger
- / Emergency Cut-Off Switch
- / Safety Pedal
- / Tilt Switch
- / Left and Right Guardrail
- / Back Cushion
- / Electromagnetic Brake

Safety

- / The low mast provides the operator with perfect visibility. / The controller offers limits the stock picker's speed when
- cornering to ensure smooth and safe operation.

 / The safety pedals include a sensor to ensure the operator has their feet properly positioned on the platform. It automatically stops travel, lift, and lower functions if the operator doesn't have their foot on the pedal.
- / The hydraulic system has an emergency manual lowering valve that can be operated from the rear of the stock picker to lower the platform.





A Series Electric Stock Picker with Lithium-ion Technology Specification

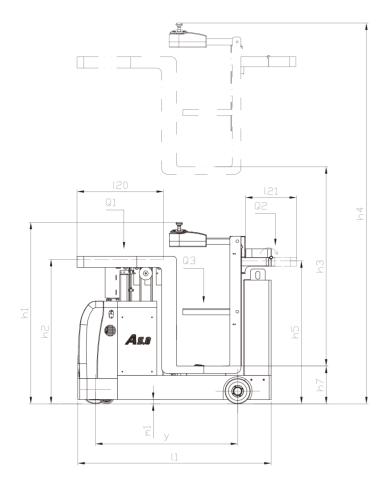
| | | I | 1 | |
|-------------------------|------|--|----------------|------------------------|
| | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. |
| | | HCFA Model | | OPM05Li |
| | 1.2 | Model | | CJD05-AC1-MNAI |
| shing | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Electric |
| Distinguishing Marks | 1.4 | Operator Type: hand,pedestrian,standing,seated,order-picker | | Order Picker |
| | | Rated Capacity on Front Tray | Qı(lb/kg) | 550/250 |
| | 1.5 | Rated Capacity on Back Tray | Q2(lb/kg) | 220/100 |
| | | Rated Capacity on Standing Tray | Qa(lb/kg) | 330/150 |
| | 1.9 | Wheelbase | y(in/mm) | 45.3/1150 |
| Weight | 2.1 | Service Weight | lb/kg | 2885/1310 |
| | 3.1 | Tires: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane |
| <u></u> | 3.2 | Tire Size, driving wheels | in/mm | 09×3/0230×75 |
| Tires Chassis | 3.3 | Tire Size, loading wheels | in/mm | Ø8×3/Ø204×76 |
| | | Tire Size, caster wheels | in/mm | Ø5×2/Ø125×50 |
| | 3.5 | Wheels, number driving, caster/loading (x=drive wheels) | | 1x,2/2 |
| | 4.2 | Height, mast lowered | hı(in/mm) | 57.8/1468 |
| | 4.4 | Lift | hs(in/mm) | 145.7/3700 |
| | 4.5 | Height, mast extended | h4(in/mm) | 203.5/5168 |
| | 4.8 | Seat Height/Standing Height | hz(in/mm) | 11.8/300 |
| SII | 4.19 | Overall Length | lı(in/mm) | 62.3/1582 |
| Dimensions | 4.21 | Overall Width | b1/b2(in/mm) | 31.5/31.5,800/800 |
| ä | 4.31 | Ground Clearance, laden, below mast | mı(in/mm) | 1.4/35 |
| | | Initial Height of Front Tray | h2(in/mm) | 46/1168 |
| | | Initial Height of Back Tray | hs(in/mm) | 45.5/1156 |
| | | Front Tray Size | l20×b20(in/mm) | 27.6×31.5,700×800 |
| | | Back Tray Size | l21×b21(in/mm) | 16×31.5,407×800 |
| | | The Channel Width | Ast(in/mm) | 80.3/2040 |
| | 4.35 | Turning Radius | Wa(in/mm) | 52.9/1343 |
| | 5.1 | Travel Speed, laden/unladen | mph km/h | 3.4/3.4 5.5/5.5 |
| eg l | 5.2 | Lift Speed, laden/unladen | fpm mm/s | 31.5/41.4 160/210 |
| Performance Data | 5.3 | Lowering Speed, laden/unladen | fpm mm/s | 45.3/42.4 230/215 |
| P. | 5.7 | Gradeability, laden | % | 5 |
| | 5.10 | Service Brake | | Electromagnetic |
| | 6.1 | Drive Motor Rating at S2 60 min | hp/kw | 2/1.5 |
| ا . | 6.2 | Lift Motor Rating at S3 15 % | hp/kw | 3/2.2 |
| Electric Motor | 6.4 | Battery Voltage/Nominal Capacity K3 | V/Ah | 24/125 |
| | | Type of Battery | | Lithium-ion |
| | 6.5 | Battery Weight | lb/kg | 110/50 |
| Additional Data | 10.7 | Sound Pressure Level at the Driver's Seat | dB(A) | 69 |

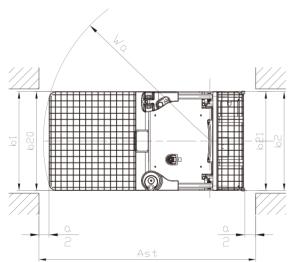
A Series Electric Stock Picker Specification

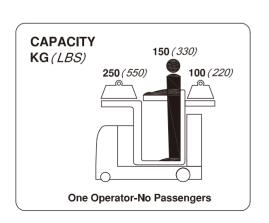
| | | | | HANCOHA CONIDO O LTD |
|-------------------------|------|---|----------------|------------------------|
| _ | 1.1 | Manufacturer | | HANGCHA GROUP CO.,LTD. |
| - | | HCFA Model | | 0PM05 |
| | 1.2 | Model | | CJD05-AC1-MNA |
| Distinguishing Marks | 1.3 | Drive: electric (battery or mains),diesel,petrol,fuel gas | | Electric |
| stingu Marl | 1.4 | Operator Type: hand, pedestrian, standing, seated, order-picker | | Order picker |
| | | Rated Capacity on Front Tray | Qı(lb/kg) | 550/250 |
| | 1.5 | Rated Capacity on Rear Tray | Q2(lb/kg) | 220/100 |
| | | Rated Capacity on Standing Tray | Q3(lb/kg) | 330/150 |
| | 1.9 | Wheelbase | y(in/mm) | 45.3/1150 |
| Weight | 2.1 | Service Weight | lb/kg | 3216/1460 |
| | 3.1 | Tires: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane/Rubber |
| .s. as | 3.2 | Tire Size, driving wheels | in/mm | Ø9×3/Ø230×75 |
| Tires & Chassis | 3.3 | Tire Size, loading wheels | in/mm | Ø8×3/Ø204×76 |
| | | Tire Size, caster wheels | in/mm | Ø5×2/Ø125×50 |
| | 3.5 | Wheels, number driving, caster/loading (x=drive wheels) | | 1x,2/2 |
| | 4.2 | Height, mast lowered | hı(in/mm) | 57.8/1468 |
| | 4.4 | Lift | ha(in/mm) | 145.7/3700 |
| | 4.5 | Height, mast extended | h4(in/mm) | 203.5/5168 |
| | 4.8 | Seat Height/Standing Height | hz(in/mm) | 11.8/300 |
| s | 4.19 | Overall Length | lı(in/mm) | 61.6/1564 |
| Dimensions | 4.21 | Overall Width | b1/b2(in/mm) | 31.5/31.5,800/800 |
| 듑 | 4.31 | Ground Clearance, laden, below mast | mı(in/mm) | 1.4/35 |
| | | Initial Height of Front Tray | h2(in/mm) | 46/1168 |
| | | Initial Height of Rear Tray | hs(in/mm) | 45.5/1156 |
| | | Front Tray Size | l20×b20(in/mm) | 27.6×31.5,700×800 |
| - | | Behind Tray Size | l21×b21(in/mm) | 16×31.5,407×800 |
| | | Channel Width | Ast(in/mm) | 79.7/2025 |
| | 4.35 | Turning Radius | Wa(in/mm) | 52.9/1343 |
| | 5.1 | Travel Speed, laden/unladen | mph km/h | 3.4/3.4 5.5/5.5 |
| 8 | 5.2 | Lift Speed, laden/unladen | fpm mm/s | 31.5/41.4 160/210 |
| Performance Data | 5.3 | Lowering Speed, laden/unladen | fpm mm/s | 45.3/42.4 230/215 |
| Per | 5.7 | Gradeability, laden | % | 5 |
| | 5.10 | Service Brake | | Electromagnetic |
| | 6.1 | Drive Motor Rating S2 at 60 min | hp/kw | 2/1.5 |
| or re | 6.2 | Lift Motor Rating S3 at 15 % | hp/kw | 3/2.2 |
| Electric Motor | 6.4 | Battery Voltage/Nominal Capacity K3 | V/Ah | 24/200 |
| | 6.5 | Battery Weight | lb/kg | 430/195 |
| Additional Data | 10.7 | Sound Pressure Level at the Driver's Seat | dB(A) | 69 |
| Others | 11.1 | Type of Drive Control | | Curtis AC |
| Ontional: | | | | |

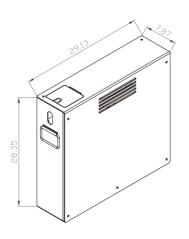
Optional: 1. Lift h3=116.5in/2960mm 2. Optional Larger Battery Capacity: 24V/300Ah, lead-acid

Optional : 1、Lift h3=116.5in/2960mm











A Series High-lift Order Picker

with capacities of 1,200kg

The A Series high-lift order picker, a high-end warehouse equipment, provides a comprehensive safety protection system, excellent ergonomics design and advanced control system. Being reliable and stable, comfortable and safe, and along with excellent performance, it is a perfect option for cargo picking in stereoscopic warehouse that is 5m to 10m high.





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

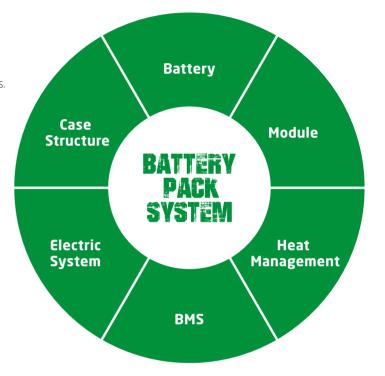




INNOVATIVE SOLUTIONS NEW POWER NOW

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.





Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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.

Li-Ion Battery Pack specification

| Туре | | CJD12-AC4-HI* | CJD12-AC4-HKI* |
|----------------|------|---------------|----------------|
| Li-lon battery | V/Ah | 51.52/500 | 51.52/500 |
| Titans charger | | SLC-48200 | SLC-48200 |

Note: * CE model



Comfort

- / Standard equipped with height sensors, and buffer function in mast switching, lifting and lowering, it provides more comfort to the operators.
- / The standard LORD steering gear with torque feedback system improves operation safety and comfort.
- / The lifting and lowering speed of the operating platform and fork can be adjusted steplessly, to achieve accurate control.
- / The standard equipped CURTIS multi-function instrument has many functions such as mode selection, wheel position display, etc., and can clearly show various information of the vehicle.

Reliability

- / The mast is made of high-strength steel plate, which is sturdy and reliable.
- / All wires and cables are reliably protected, greatly improving the reliability of the electrical system.
- / Important components adopted such as switches, connectors, instruments, etc. are foreign high-quality products, with excellent performance and reliable quality.

Safety

- / The FREE acceleration lever with an inductive switch is equipped as standard to prevent accidental contacts during operation.
- / Equipped with a tilt switch sensor as standard, operation and control safety is improved.
- / The left and right guard rails are equipped with safety detection switches.
- / With 10 times safety factor, the mast chain is also equipped with a chain safety switch.
- / The driving speed is related to the lifting height. The higher the lifting height, the lower the driving speed and the smaller the acceleration.
- / The function of proportional speed reduction in corners is equipped as standard to ensure smooth and safe turning of the vehicle.
- / With emergency lowering function, it can be operated separately on the operating platform and the rear of the vehicle.



Supplementary lift on operator platform. Pallet can be raised to most convenient working level for picking



Rail guidance rollers (Opt.) can be fitted to the truck for VNA working



Control and display panel integrated a perfectly in the drivers field of view



Standard LCD display informs the driver about al necessary informations



Simultaneous driving/lifting/lowering, simple and ergonomic controls allow precise operation reducing driver fatigue and increasing throughput



High Performance

- / The maximum driving speed at full load is up to 10km/h, which greatly improves the work efficiency.
- / The Germany ZF reduction gearbox, Schabmueller AC drive and steering motor, contribute to a better performance and greater stability.
- / AC hydraulic lifting system offers high efficiency and free maintenance.
- / The advanced CURTIS AC control system provides precise, smooth and efficient control.
- / The CANBUS structure engages faster and more reliable communication.

Maintenance

291

- / The AC motor has no carbon brush and is maintenancefree, which greatly saves the cost of use.
- / The integrated power display, timing and fault selfdiagnosis meter is convenient for maintenance.
- / The rear hood can be easily disassembled for easy maintenance of hydraulic unit, electronic control, motor and other parts.

Standard Specification

- / ZF drive unit assembly
- / LORD steering gear
- / CURTIS AC motor controller
- / Free acceleration lever (with inductive switch)
- / Automatic speed reduction in corners
- / CURTIS multi-function instrument
- / Chain switch
- / Guard rail switch
- / Reflective mirror
- / LED top light
- / LED sidelight
- / Emergency power off switch
- / Police light
- / Height sensor
- / Safety pedal
- / Tilt switch
- / Left and right guard rail
- / Folder
- / Back cushion
- / Cup holder
- / Electrostatic belt
- / Electromagnetic brake
- / Supplementary lift (only for CID12-AC1-H)
- / Full-length safety belt + single-hook shock cord (only for CID12-AC1-HK)
- / Mounted fork (only for CJD12-AC1-H)
- / Welded fork (only for CJD12-AC1-HK)

Options

- / Side roller
- / Blue light
- / Head Lamp
- / Masts available in various heights
- / Battery trolley



A Series High-lift Order Picker Specification

| 1.3 Driveralectric (battery or mains), desel petrol fordigas Electric Electric | | 1.1 | Manufacturer | | HANGCHA GR | ROUP CO.,LTD. |
|--|------------------|--------|--|-----------|-----------------|-----------------|
| 14 Operator type-hand-pedestrian, standing seated, ander gicker Order picker Order picker picker Order picker picker picker picker picker picker picker picker Order picker pick | | 1.2 | Model | | CJD12-AC4-H* | CJD12-AC4-HK** |
| 1.8 Load distance, centre of drive asks to tork x/mm 307 307 307 1.9 Wheelbase y/mm 1566 1566 1566 2.1 Tyres sold rubber, superelaxtic, poeumatic, polyurethane PU | | 1.3 | Drive:electric (battery or mains),diesel,petrol,fuel gas | | Electric | Electric |
| 1.8 Load distance, centre of drive asks to fork Simm 307 307 307 1.9 Wheelbase Yimm 1566 1566 1566 1.9 Service weight kg 3980 3810 3.1 Tyres colid rubber, superelastic, poeumatic, polyurethane PU PU 3.2 Tyre size, front 0343-140 0343-140 0343-140 3.3 Tyres size, front 0354-140 0345-140 0345-140 3.4 Treadzear 15150-100 15150-100 15150-100 3.5 Wheels, number front/rear (* = driven wheels) 13/4 11/4 3.7 Treadzear bi:[mm] 056 056 4.8 Height mast extended height height height nast extended height height height nast extended height height height nast extended height height height downlead guard (cabin) height 1200 2300 4.11 Supplementary lift height heigh | shing | 1.4 | Operator type:hand,pedestrian,standing,seated,order-picker | | Order picker | Order picker |
| 1.8 Load distance, centre of drive asks to fork x, | tingui | 1.5 | Rated capacity/rated load | Q(t) | 1.2 | 1.2 |
| 1.9 Wheelbase | sia | 1.6 | Load centre distance | c(mm) | 400 | 400 |
| Service weight Reg | | 1.8 | Load distance, centre of drive axle to fork | x(mm) | 307 | 307 |
| 1 1 1 1 1 1 1 1 1 1 | | 1.9 | Wheelbase | y(mm) | 1566 | 1566 |
| 3.2 Tyre size, front | Weight | 2.1 | Service weight | kg | 3960 | 3810 |
| 1986 3.3 Tyre size, rear 10.50-100 | | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | PU | PU |
| No. 1x/4 1 | ا _ب | 3.2 | Tyre size, front | | Ø343×140 | Ø343×140 |
| 1x/4 | Fyres, hassi | 3.3 | Tyre size, rear | | Ø150×100 | Ø150×100 |
| A 2 Heightmast lowered | | 3.5 | Wheels, number front/rear (× = driven wheels) | | 1x/4 | 1x/4 |
| Height mast extended | | 3.7 | Tread,rear | b11(mm) | 856 | 856 |
| 4.5 Height, mast extended | | 4.2 | Height,mast lowered | hı(mm) | 2465 | 2465 |
| 4.7 Height of overhead guard (cabin) | | 4.4 | Lift | h₃(mm) | 5000 | 5000 |
| A8 Standing height | | 4.5 | Height, mast extended | h4(mm) | 7465 | 7465 |
| No. No. | | 4.7 | Height of overhead guard (cabin) | h6(mm) | 2300 | 2300 |
| A15 HeightLowered Hus/mm 75 75 75 | | 4.8 | Standing height | h7(mm) | 266 | 266 |
| 4.19 Overall length Li(mm) 3400 3400 3400 3400 3400 3400 3400 3400 420 Length to face of forks Li(mm) 2200 2200 2200 2200 421 Overall width Di/Dz(mm) 1000/1000 1000/1000 1000/1000 422 Fork dimensions DIN ISO 2331 S/e/I(mm) 55/122/1200 55/100/1200 425 Distance between fork-arms Ds(mm) / | | 4.11 | Supplementary lift | h9(mm) | 800 | 1 |
| 4.21 Overall width | | 4.15 | Height,lowered | h13(mm) | 75 | 75 |
| 4.21 Overall width | suo | 4.19 | Overall length | lı(mm) | 3400 | 3400 |
| 4.21 Overall width | mensi | 4.20 | Length to face of forks | Iz(mm) | 2200 | 2200 |
| 4.25 Distance between fork-arms bs(mm) | ā | 4.21 | Overall width | b1/b2(mm) | 1000/1000 | 1000/1000 |
| 4.27 Width over guide rollers b6(mm) 1200 1200 4.31 Ground clearance,laden,below mast m1(mm) 50 50 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast(mm) 3535 3535 4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast(mm) 3656 3656 4.35 Turning radius Wa(mm) 1812 1812 5.1 Travel speed,laden/unladen km/h 10/10 10/10 5.2 Lift speed,laden/unladen m/s 0.371/0.411 0.371/0.411 5.3 Lowering speed,lade/unladen m/s 0.486/0.448 0.486/0.448 5.7 Gradeability,laden/unladen % 10/10 10/10 5.10 Service brake Electromagnetic Ele | | 4.22 | Fork dimensions DIN ISO 2331 | s/e/l(mm) | 55/122/1200 | 55/100/1200 |
| 4.31 Ground clearance,laden,below mast m1(mm) 50 50 4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast(mm) 3535 3535 4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast(mm) 3656 3656 4.35 Turning radius Wa(mm) 1812 1812 5.1 Travel speed,laden/unladen km/h 10/10 10/10 5.2 Lift speed,laden/unladen m/s 0.371/0.411 0.371/0.411 5.3 Lowering speed,lade/unladen m/s 0.486/0.448 0.486/0.448 5.7 Gradeability,laden/unladen % 10/10 10/10 5.10 Service brake Electromagnetic Electrom | | 4.25 | Distance between fork-arms | bs(mm) | 1 | 540 |
| A.34.1 Aisle width for pallets 1000 × 1200 crossways Ast(mm) 3535 3535 | | 4.27 | Width over guide rollers | be(mm) | 1200 | 1200 |
| 4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast(mm) 3656 3656 4.35 Turning radius Wa(mm) 1812 1812 5.1 Travel speed,laden/unladen km/h 10/10 10/10 5.2 Lift speed,laden/unladen m/s 0.371/0.411 0.371/0.411 5.3 Lowering speed,lade/unladen m/s 0.486/0.448 0.486/0.448 5.7 Gradeability,laden/unladen % 10/10 10/10 5.10 Service brake Electromagnetic Electromagnetic 6.1 Drive motor rating S2 60 min kw 6.4 | | 4.31 | Ground clearance,laden,below mast | m1(mm) | 50 | 50 |
| 4.35 Turning radius Wa(mm) 1812 1812 | | 4.34.1 | Aisle width for pallets 1000 × 1200 crossways | Ast(mm) | 3535 | 3535 |
| S.1 Travel speed,laden/unladen km/h 10/10 10/10 | | 4.34.2 | Aisle width for pallets 800 × 1200 lengthways | Ast(mm) | 3656 | 3656 |
| 5.2 Lift speed,laden/unladen m/s 0.371/0.411 0.371/0.411 | | 4.35 | Turning radius | Wa(mm) | 1812 | 1812 |
| 5.10 Service brake Electromagnetic Electromagnetic 6.1 Drive motor rating S2 60 min kw 6.4 6.4 | | 5.1 | Travel speed,laden/unladen | km/h | 10/10 | 10/10 |
| 5.10 Service brake Electromagnetic Electromagnetic 6.1 Drive motor rating S2 60 min kw 6.4 6.4 | e j | 5.2 | Lift speed,laden/unladen | m/s | 0.371/0.411 | 0.371/0.411 |
| 5.10 Service brake Electromagnetic Electromagnetic 6.1 Drive motor rating S2 60 min kw 6.4 6.4 | ormar Data | 5.3 | Lowering speed,lade/unladen | m/s | 0.486/0.448 | 0.486/0.448 |
| 6.1 Drive motor rating S2 60 min kw 6.4 6.4 | Perf | 5.7 | Gradeability,laden/unladen | % | 10/10 | 10/10 |
| | | 5.10 | Service brake | | Electromagnetic | Electromagnetic |
| 6.2 Lift motor rating at S3 15 % kw 12.8 12.8 6.4 Battery voltage/nominal capacity K5 V/Ah 48/620 48/620 | | 6.1 | Drive motor rating S2 60 min | kw | 6.4 | 6.4 |
| 6.4 Battery voltage/nominal capacity K5 V/Ah 48/620 48/620 | je e | 6.2 | Lift motor rating at S3 15 % | kw | 12.8 | 12.8 |
| | Electi | 6.4 | Battery voltage/nominal capacity K5 | V/Ah | 48/620 | 48/620 |
| 6.5 Battery weight kg 950 950 | | 6.5 | Battery weight | kg | 950 | 950 |
| Sound pressure level at the driver's seat dB(A) 69 69 | Addition data | 10.7 | Sound pressure level at the driver's seat | dB(A) | 69 | 69 |

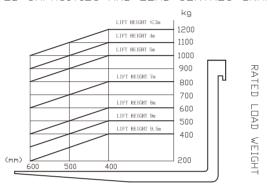
Note : * Without auxiliary lift ★ CE model

CE model 292

Mast Specification

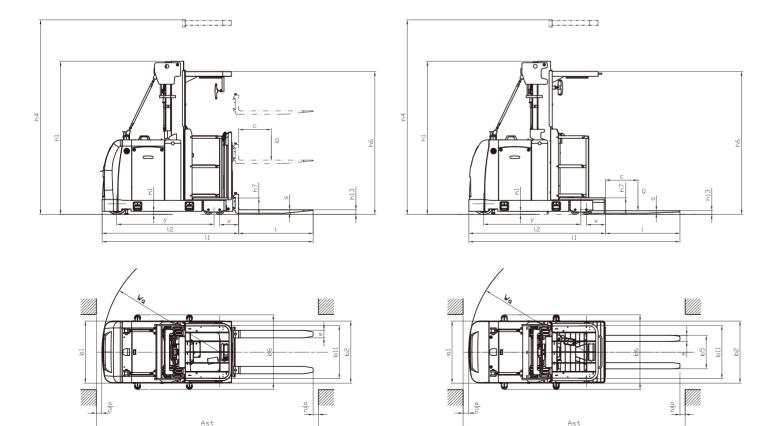
| Туре | Model | Lift h₃ (mm) | Lowered overall height h ₁ (mm) | Free lift h2 (mm) | Extended mast height h4 (mm) | Overall lift height h3+h9 (mm) | Order picking height h15 (mm) |
|------------|-------|-----------------|--|----------------------|---------------------------------|-----------------------------------|----------------------------------|
| | N4500 | 4500 | 2315 | 15 | 6800 | 5300 | 6360 |
| | N4750 | 4750 | 2385 | 85 | 7050 | 5500 | 6610 |
| | N5000 | 5000 | 2465 | 165 | 7300 | 5800 | 6860 |
| | N5500 | 5500 | 2630 | 330 | 7800 | 6300 | 7360 |
| | N6000 | 6000 | 2800 | 500 | 8300 | 6800 | 7860 |
| | N6500 | 6500 | 2965 | 665 | 8800 | 7300 | 8360 |
| Triplex DZ | N7000 | 7000 | 3130 | 830 | 9300 | 7800 | 8860 |
| Triplex DZ | N7500 | 7500 | 3345 | 1045 | 9800 | 8300 | 9360 |
| | N8000 | 8000 | 3515 | 1215 | 10300 | 8800 | 9860 |
| | N8300 | 8300 | 3615 | 1315 | 10600 | 9100 | 10160 |
| | N8500 | 8500 | 3730 | 1430 | 10800 | 9300 | 10360 |
| | N9000 | 9000 | 3955 | 1655 | 11300 | 9800 | 10860 |
| | N9250 | 9250 | 4040 | 1740 | 11550 | 10050 | 11110 |
| | N9500 | 9500 | 4125 | 1825 | 11800 | 10300 | 11360 |

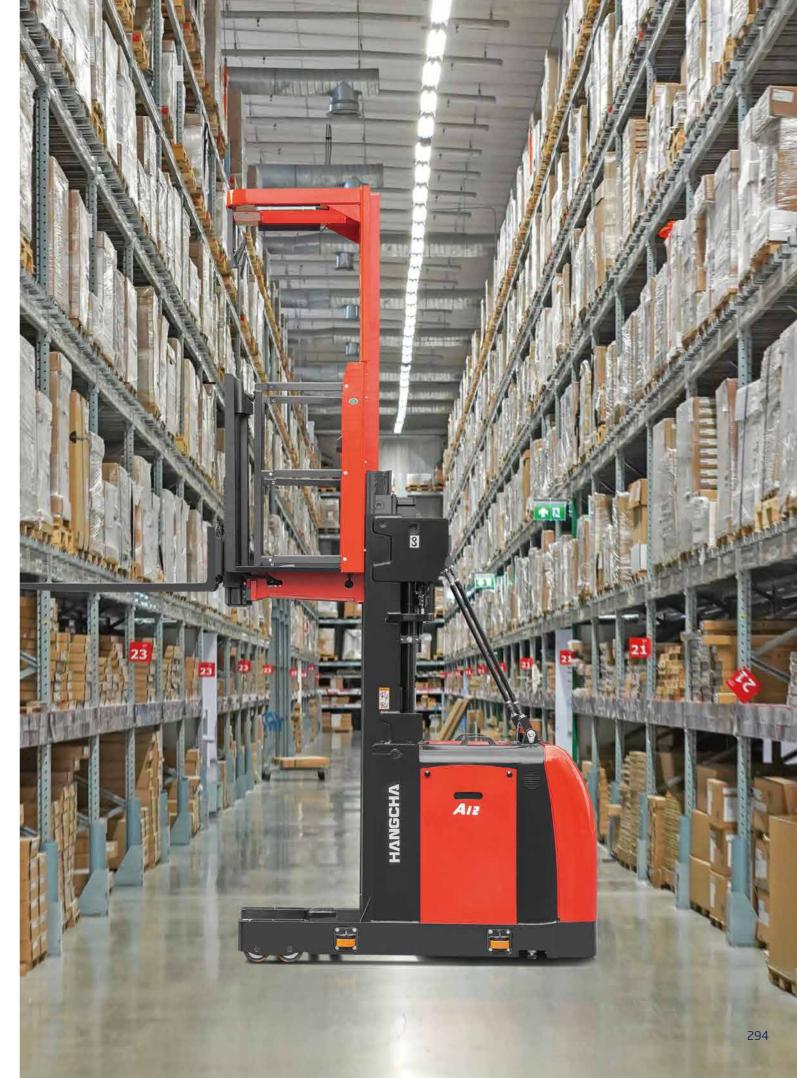
RATED CAPACITIES AND LOAD CENTRES GRAPH



LOAD CENTRE POSITION

CJD12-AC1-HK





CJD12-AC1-H



XB Series Pallet Truck With Scissor Lift

Wide applicability

/ Flexible device movement, quick and convenient operation, large loading capacity, high lifting height.

High structural strength

/ High strength rectangular tube, Self-lubricating nylon slider, long service life and stable performance.

High performance

/ Permanent magnet motor, One-piece hydraulic power pack, colloidal maintenance-free battery, high performance, stable and efficient.

Reliability

/ Side support system, one-way throttle valve on lifting hydraulic cylinder, Waterproof connector, safety and reliability in performance.

Safety

/ Three emergency braking functions, emergency reverse button on Joystick, electronic lift limit, ensure the safety of personnel and cargo.

Maintenance convenience





Double scissors structure, rectangular tube



One-piece cover, covering almost all important



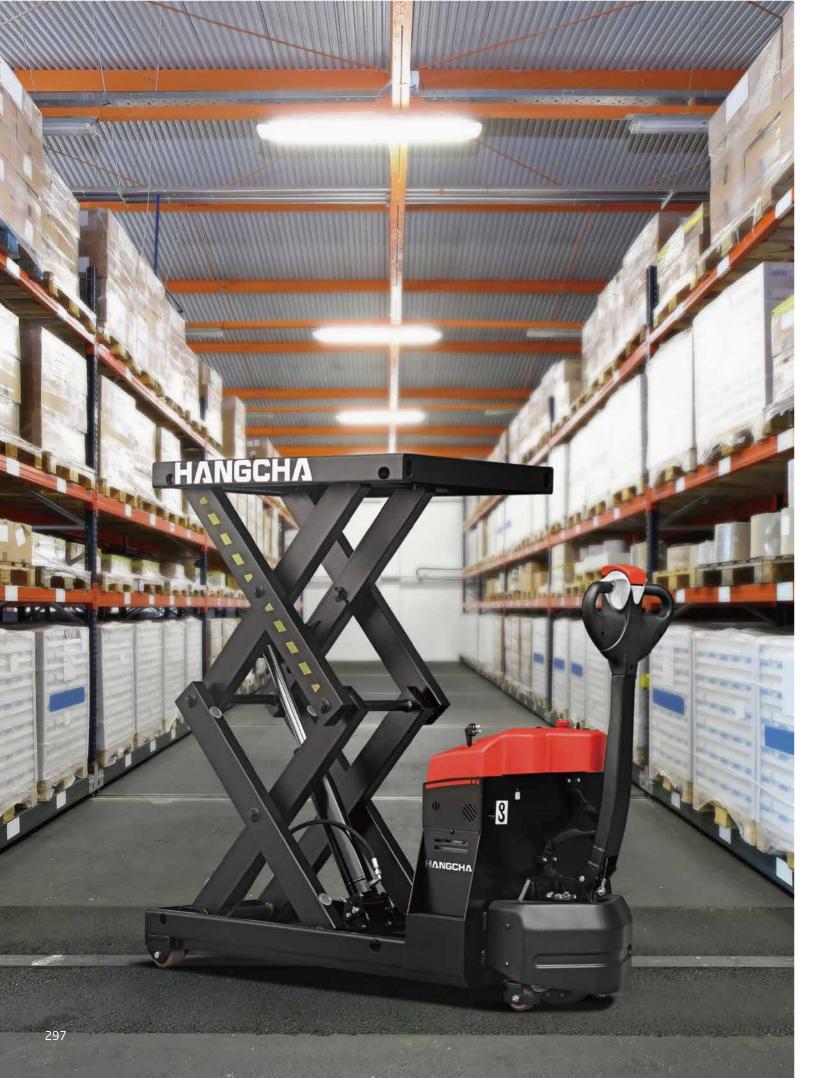
The batteries can be removed conveniently, for easier maintenance and disassembly



Integrated hydraulic unit, compact structure less space



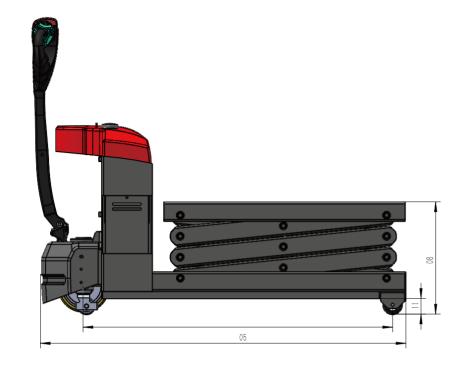
Multi-function handle, reliable, beautiful and simple, all functions can be completed with

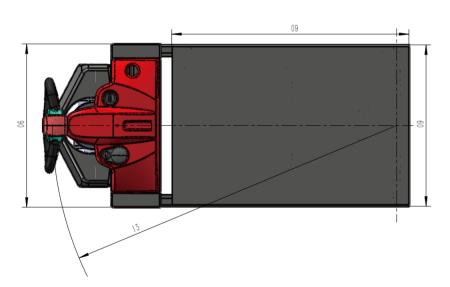


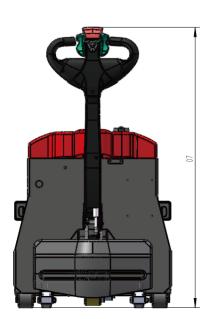


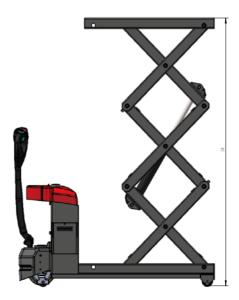
XB Series Pallet Truck With Scissor Lift Specification

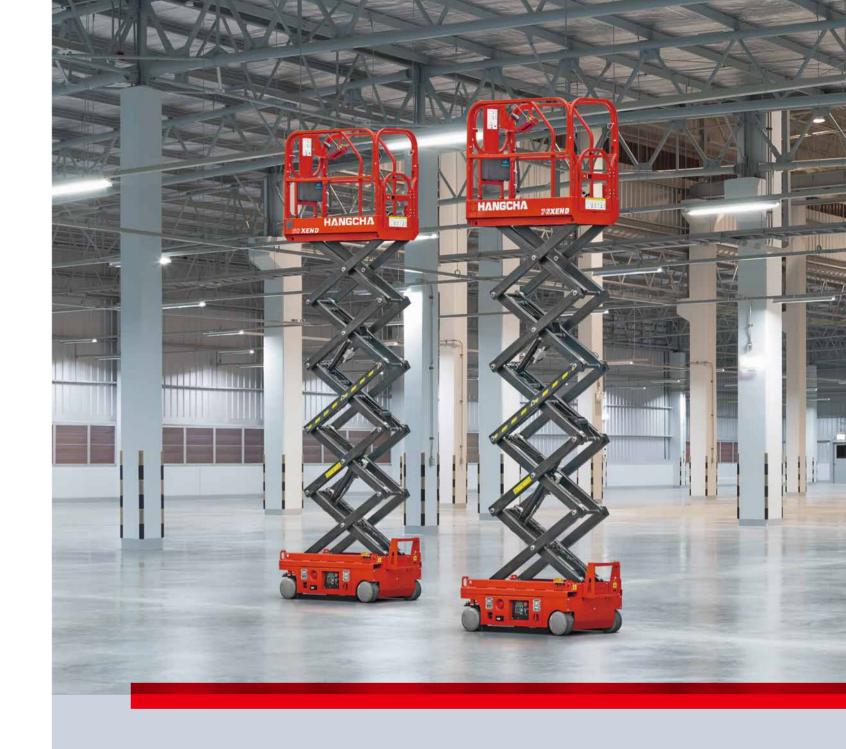
| 01 | Manufacturer | | | HANGCHA GROUP CO.,LTD. | |
|----|--------------------------|---------|------------------|------------------------|-----------------|
| 02 | Model | | 2005XB | 1510XB | 1020XB |
| 03 | Rated load | (kg/lb) | 500/1100 | 1000/2200 | 2000/4400 |
| 04 | Platform lift height | (m/in) | 2/78.7 | 1.5/59 | 1/39.4 |
| 05 | Overall length | (m/in) | 1.51/59.4 | 1.51/59.4 | 2.07/81.5 |
| 06 | Overall width | (m/in) | 0.68/26.8 | 0.68/26.8 | 0.8/31.5 |
| 07 | Overall height | (m/in) | 1.2/47.2 | 1.2/47.2 | 1.2/47.2 |
| 08 | Height with rails folded | (m/in) | 0.46/18.1 | 0.43/16.9 | 0.45/17.7 |
| 09 | Platform size | (m/in) | 1×0.68/39.4×26.8 | 1×0.68/39.4×26.8 | 1.5×0.8/59×31.5 |
| 10 | Ground clearance | (m/in) | 0.06/2.4 | 0.06/2.4 | 0.06/2.4 |
| 11 | Turning radius inside | (m/in) | 0 | 0 | 0 |
| 12 | Turning radius outside | (m/in) | 1.45/57 | 1.45/57 | 2.04/80.3 |
| 13 | Batteries | (V,AH) | 24,70 | 24,70 | 24,100 |
| 14 | Weight ±30 | (kg/lb) | 340/750 | 340/750 | 490/1080 |
| 15 | Travel speed km/h | (mph) | 0~2.8(0~1.74) | 0~2.8(0~1.74) | 0~2.8(0~1.74) |
| 16 | Gradeability | | 6% | 6% | 6% |
| | | , | | | |











Mini Self-propelled Scissor Lifts (Electric Motor Drive)

Aerial work platform





Anti-overturning system, When the machine raises to more than 2m, this system will work automatically, to protect the machine from overturning while walking at un-leveling ground



Manual lowering handle, When the operation system failed or the battery power is too low to let the platform decline, we can use this handle to 301 lower the machine



LCD screen, used to display fault code and adjust parameters



Supporting arms, To protect the operator when he is doing repair or maintenance job

Designed to be used in buildings

/ The working height can perfectly adapt to the needs of building working.

Mini Size

/ The compact size makes the machine gets into the elevator with free access.

Light Weight

/ The weight is very light, which can meet the load limit of elevator and better protect the ground.

Large Capacity

/ Though the self-weight is light, it has a large capacity, the machine can allow two peoples working together.

High Efficiency

/ Equipped with efficient fully electrified DC drive system, more durable.

Low Failure Rate

/ Simple and clear system, drawer structure, easier maintenance, lower use cost.

High Rewarding

/ Transport and procurement costs are lower, and rental prices are comparable to regular models.

Green Environment Protection

/ Electric drive walking system, zero emission, low noise, more suitable for indoor use.





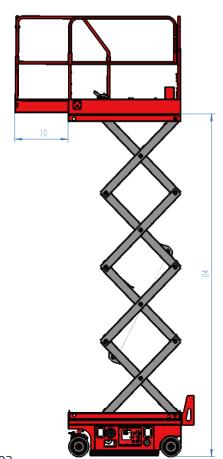


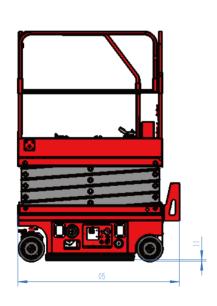


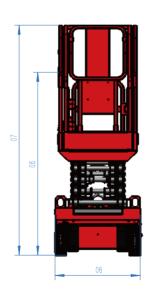


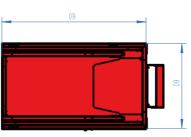
Mini Self-propelled Scissor Lifts (Electric Motor Drive) Specification

| 01 | Manufacturer | | HANGCHA GF | ROUP CO.,LTD. |
|----|--------------------------|---------|---|---|
| 02 | Model | | 60XEND | 76XEND |
| 03 | Working height | (m/in) | 5.9/233 | 7.6/300 |
| 04 | Platform height | (m/in) | 3.9/153 | 5.6/220 |
| 05 | Overall length | (m/in) | 1.44/57 | 1.52/60 |
| 06 | Overall width | (m/in) | 0.76/30 | 0.81/32 |
| 07 | Overall height | (m/in) | 2.08/81.8 | 2.18/85.8 |
| 08 | Height with rails folded | (m/in) | 1.71/67.3 | 1.81/71.3 |
| 09 | Platform size | (m/in) | 1.29×0.7/50.8×27.5 | 1.37×0.7/54×27.5 |
| 10 | Platform extension size | (m/in) | 0.6/23.6 | 0.6/23.6 |
| 11 | Ground clearance | (m/in) | 0.06/2.4 | 0.06/2.4 |
| 12 | Turning radius inside | (m/in) | 0.4/15.7 | 0.45/17.7 |
| 13 | Turning radius outside | (m/in) | 1.55/61 | 1.6/63 |
| 14 | Rated load | (kg/lb) | 250/551 | 230/507 |
| 15 | Load on extension | (kg/lb) | 113/250 | 113/250 |
| 16 | Batteries | (V,AH) | 24,80 | 24,80 |
| 17 | Weight ±30 | (kg/lb) | 900/1984 | 1270/2910 |
| 18 | Travel speed km/h | (mph) | 0~4(0~2.48) | 0~4(0~2.48) |
| 19 | Lift time | (s) | 32 | 26 |
| 20 | Lowered time | (s) | 27 | 21 |
| 21 | Tyre | | Non-mark Tyres | Non-mark Tyres |
| 22 | Maximum slope | | 2°/3° | 1.5°/3° |
| 23 | Gradeability | | 30% | 30% |
| 24 | Working area | | "indoor Okm/h(Omph) outdoor 12.5km/h(7.77mph)" | "indoor Okm/h(Omph) outdoor 12.5km/h(7.77mph)" |











Self-propelled Electric Scissor Lifts

Aerial work platform

HANGCHA self-propelled electric scissor lifts are the high efficient, safe and ideal solution for modern industry. Ideal for maneuvering in tight Spaces, they're excellent for indoor and outdoor application, all the functions, lifting, lowing, steering, forward and backward are under operator's control. Easy maintenance and service after opening the battery cover, all key parts are easy access. With low noise level, and high reliability, HANGCHA self-propelled electric scissor lifts are always your best partner.

Characteristics

- / The proportional control system: Control the speed Of Traveling and lifting as you need
- / Control box: This box is including the function Of Traveling and lifting, when you use the joystick, you can Operate the machine With only one hand.
- / Self-leveling sensor. When the degree is more than 1.5°(horizontal direction)/ 3°(vertical direction), it will
- / LED display: Easy for maintenance.
- / Steering system. The turning radius is small,it can work In the narrow space.
- / Extension deck: You can reach the working place by the Extended platform.
- / Reasonable arrangement: All the parts of hydraulic system and electric system are located In the side doors, convenient to repair.
- / Safety: Alloy steel axis, to make sure the safety, reliable and efficient.
- / Internal charger: You can charge the battery directly, do not need to remove it from machine.
- / Hydrostatic transmission: Using hydrostatic transmission system technology.

Application

/ Locomotive maintenance station, airport, power station, gym, big company ect.

Standard Equipment

- / The lifting system
- / The proportional control
- / Anti-overturning system
- / Control box
- / Internal Charger
- / Hour meter
- / Alarm light
- / Maintenance free battery(Lead-acid)

Options

- / Working lights(two lights)
- / Socket device on the basket
- / Leakage protector for socket
- / Beeper
- / Warning tape
- / Anti-overload system(Required by CE)
- / Imported brand control system
- / Air pipe to basket
- / Anti-explosion modification
- / Special color customization







160XEN































78XEN

Battery





| | Standard: Maintenance free battery (lead acid) | | | | | | | |
|---------------|--|-----------|-----------|-----------|--|--|--|--|
| | 65XEN | 78XEN | 80XENS | 100XENS | | | | |
| Battery(4x6v) | 24V,200Ah | 24V,200Ah | 24V,200Ah | 24V,200Ah | | | | |

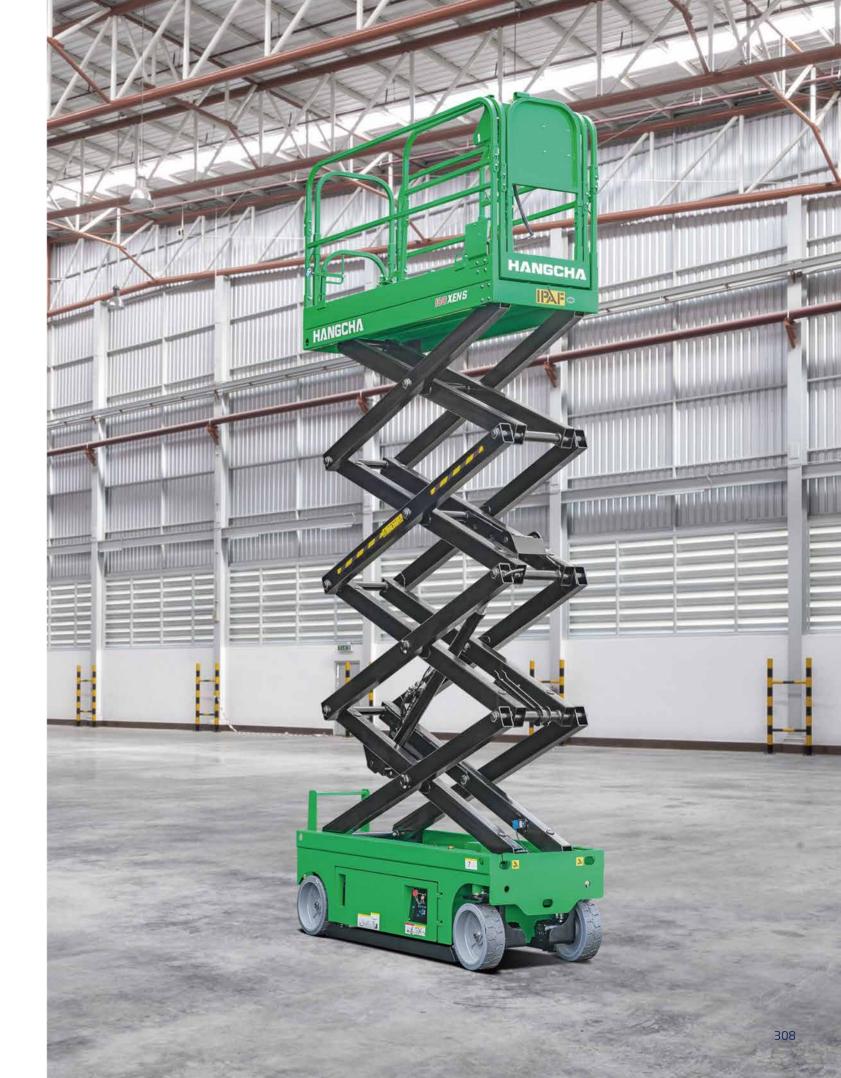
| Standard: Maintenance free battery (lead acid) | | | | | | | | | |
|--|--|--|--|--|--|--|-----------|--|--|
| 80XEN 100XEN 120XEN 140XEN 160XEN 160XENS | | | | | | | | | |
| Battery(4x12v) 24V,200Ah 24V,200Ah 24V,200Ah 24V,200Ah 24V,200Ah | | | | | | | 24V,200Ah | | |





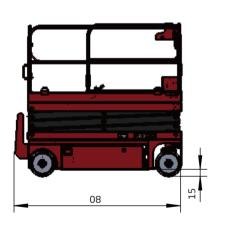
| Option: Lithium battery | | | | | | | | |
|--|-----------|-----------|-----------|-----------|--|--|--|--|
| HS0608HI(65XEN) HS0708HI(78XEN) HS0808HI(80XENS) HS1008HI(100X | | | | | | | | |
| Battery(CATL) | 24V,150ah | 24V,150ah | 24V,150ah | 24V,150ah | | | | |

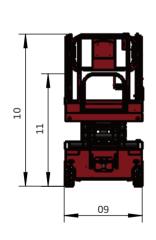
| | Option: Lithium battery | | | | | | | | |
|----------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| HS0812HI | | | | | | | | | |
| | Battery (CATL) | 24V,200ah | 24V,200ah | 24V,200ah | 24V,200ah | 24V,200ah | 24V,200ah | | |

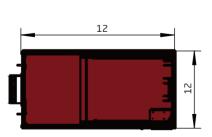


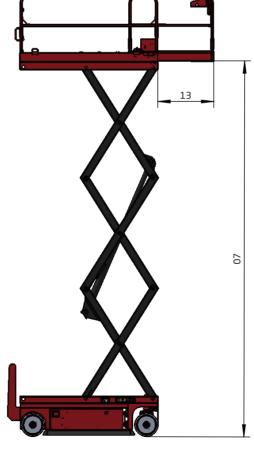
Self-propelled Electric Scissor Lifts

| | | HANGGIA CRAID CO. LTD. | | | | | | | | | | |
|----|--|------------------------|--------------------|--------------------|-------------|-------------|--------------------|--------------------|--------------------|-------------|--------------------|------------|
| | Manufacturer | | ı | | | | HANGCHA GR | | T | I | | |
| - | Model | | 65XEN | 78XEN | 80XENS | 100XENS | 80XEN | 100XEN | 120XEN | 140XEN | 160XEN | 160XENS |
| 03 | Maximum load capacity(outdoor/indoor) | kg | 320 | 230 | 380 | 230 | 450 | 450 | 320 | 320 | 230 | 230 |
| 04 | Maximum load capacity of extended platform | kg | 113 | 113 | 113 | 113 | 113 | 113 | 113 | 113 | 113 | 113 |
| 05 | Maximum number of workers | | Indoor 2/outdoor 1 | Indoor 2/outdoor 1 | Indoor 2 | Indoor 2 | Indoor 2/outdoor 1 | Indoor 2/outdoor 1 | Indoor 2/outdoor 1 | Indoor 2 | Indoor 2 | Indoor 2 |
| 06 | Height,working | m | 6.5 | 7.8 | 8 | 10 | 8 | 10 | 12 | 13.8 | 15.7 | 15.7 |
| 07 | Height, platform | m | 4.5 | 5.8 | 6 | 8 | 6 | 8 | 10 | 11.8 | 13.7 | 13.7 |
| 08 | Length | m | 1.89 | 1.89 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.84 | 2.84 |
| 09 | Width | m | 0.81 | 0.81 | 0.81 | 0.81 | 1.15 | 1.15 | 1.15 | 1.15 | 1.4 | 1.25 |
| 10 | Height(Guardrail Unfolded) | m | 2.07 | 2.19 | 2.23 | 2.37 | 2.23 | 2.37 | 2.5 | 2.64 | 2.64 | 2.64 |
| 11 | Height(Guardrail Folded) | m | 1.72 | 1.84 | 1.88 | 2.02 | 1.63 | 1.77 | 1.9 | 2.04 | 2.04 | 2.04 |
| 12 | Working dimensions | m | 1.68×0.78 | 1.68×0.78 | 2.27×0.81 | 2.27×0.81 | 2.27×1.14 | 2.27×1.14 | 2.27×1.14 | 2.27×1.14 | 2.64×1.14 | 2.64×1.14 |
| 13 | Length, extended maximum | m | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 14 | Wheel base | m | 1.36 | 1.36 | 1.87 | 1.87 | 1.87 | 1.87 | 1.87 | 1.87 | 2.22 | 2.22 |
| 15 | Ground distance | cm | 7.7(fold) | 1.6(lift) | 10(fold) | 1.6(lift) | | | 10(fold) 2(lif | t) | | |
| 16 | Turning radius(inside) | m | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Turning radius(outside) | m | 1.64 | 1.64 | 2.1 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.7 | 2.65 |
| 18 | Drive speeds | km/h | 0-3.5 | 0-3.5 | 0-3.5 | 0-3.5 | 0-3.5 | 0-3.5 | 0-3.5 | 0-3.5 | 0-3 | 0-3 |
| 19 | Up time | S | 12±2 | 16±2 | 20±2 | 28±2 | 25±3 | 34±3 | 53±3 | 63±5 | 65±5 | 65±5 |
| 20 | Down time | s | 26±4 | 36±4 | 37±4 | 50±5 | 37±5 | 50±5 | 50±5 | 60±7 | 70±7 | 70±7 |
| 21 | Lifting speed (unladen) | m/s | 0.3 | 0.3 | 0.24 | 0.24 | 0.2 | 0.2 | 0.16 | 0.16 | 0.19 | 0.19 |
| 22 | Descending speed (unladen) | m/s | 0.14 | 0.14 | 0.13 | 0.13 | 0.14 | 0.14 | 0.17 | 0.17 | 0.18 | 0.18 |
| 23 | Motor model | | XQD-4.5HP-2 | XQD-4.5HP-2 | XQD-4.5HP-2 | XQD-4.5HP-2 | XQD-4.5HP-2 | XQD-4.5HP-2 | XQD-4.5HP-2 | XQD-4.5HP-2 | XQD-4.5-9 | XQD-4.5-9 |
| 24 | Motor rated power | kw | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 4.5 | 4.5 |
| 25 | Battery | V/Ah | 24V/200 | 24V/200 | 24V/200 | 24V/200 | 24V/200 | 24V/200 | 24V/200 | 24V/200 | 24V/200 | 24V/200 |
| 26 | Charger | V/A | 24/30 | 24/30 | 24/30 | 24/30 | 24/30 | 24/30 | 24/30 | 24/30 | 24/30 | 24/30 |
| 27 | Maximum slope rating | % | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 28 | Maximum allowable inclination | ۰ | 3° | 3° | 3° | 3° | 3° | 3° | 3° | 3° | 3° | 3° |
| 29 | Tire size | mm | Ф305×100mm | Ф305×100mm | Ф381×127mm | Ф381×127mm | Ф381×127mm | Ф 381×127mm | Ф381×127mm | Ф381×127mm | Ф 381×127mm | Ф381×127mm |
| 30 | Weight | kg | 1315 | 1435 | 2085 | 2180 | 2230 | 2370 | 2810 | 3040 | 3240 | 3280 |











Vertical Mast Lift

The HANGCHA HV110D is a jib machine that offers outreach capability to get virtually any job done. A 130° rotating jib and 345° non-continuous hydraulic turntable allows for exceptional range of motion and precise positioning. These capabilities combined with the efficient electric drive motors and a low machine weight make the HANGCHA HV110D lift the solution for hard-to-reach jobsite needs. It has the characteristics of compact body size, small turning radius, good handling performance and strong endurance. It is mainly used in warehouse, exhibition hall, aircraft maintenance, mechanical equipment installation, equipment maintenance and other fields.

Anti-overturning system

/ When the machine raises, this system will open automatically, to protect the machine from overturning while walking at un-leveling ground.

Safety

/ Alloy steel axis, to make sure the safety, reliable and efficient.

Internal charger

/ You can charge the battery directly, do not need to remove it from machine.

The working scope

/ It can go to the working area rapidly trough lifting, lowering, travelling forward and backward, turret turning, etc.

Self-leveling sensor

/ When the degree is more than 2.5°, it will alarm.

The proportional control system

/ Control the speed of traveling, lifting and turret turning as you need.

The turning radius

/ It can work in a very compact area.

LED display

/ Easy for troubleshooting.



CAN BUS control system

/ The machine is equipped with CAN BUS control system, it makes the electrical system simple, reliable, easy maintenance and troubleshooting.



Options

- / Basket socket device
- / Work lamp
- / Anti-collision sensor

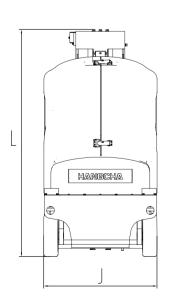
Standard Specification

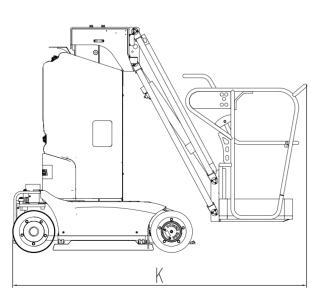
- / The proportional joystick
- / The anti-overturning system
- / Easy access
- / Self-propelled
- / No marking tyre
- / 4X2 drive
- / Automatic break
- / Emergency lower system
- / Flashing light
- / Emergency stop system
- / Explosion proof valve
- / Fault diagnosis
- / Self-leveling sensor
- / 345°non-continuous turret turning
- / Buzzar
- / Horn
- / Swing cover

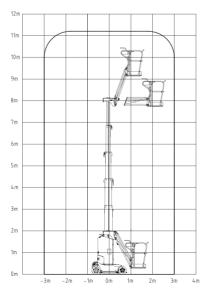


Vertical Mast Lift Specification

| 01 | Manufacturer | | HANGCHA GROUP CO.,LTD. |
|----|-------------------------------|------|------------------------|
| 02 | Model | | HV110D |
| 03 | Maxi.working height | m | 11.22 |
| 04 | Maxi.platform height | m | 9.22 |
| 05 | Up and over height | m | 7.89 |
| 06 | Horizontal height | m | 3 |
| 07 | Jib movement | ۰ | +70 /-60 |
| 08 | Turret rotation | ۰ | 345 |
| 09 | Capacity | kg | 210 |
| 10 | Maximum number of workers | m | 2/1 |
| 11 | Platform dimensions | m | 0.93×0.65 |
| 12 | Width | m | 1 |
| 13 | Length | m | 2.65 |
| 14 | Height | m | 2 |
| 15 | Turning radius(inside) | m | 0.23 |
| 16 | Turning radius(outside) | m | 1.65 |
| 17 | Ground distance | m | 0.06 |
| 18 | Wheelbase | m | 1.22 |
| 19 | Maxi. Travelling speed | km/h | 4.5 |
| 20 | Mini. Travelling speed | km/h | 0.5 |
| 21 | Maxi slop rating | % | 25 |
| 22 | Maximum allowable inclination | ۰ | 2.5 |
| 23 | Tyre | mm | 381×127 |
| 24 | Weight | kg | 2930 |
| 25 | Charger | V/A | 24/30 |
| 26 | Battery | V/ah | 24/240 |
| | | | |









Articulating Booms

GTHZ120 / GTHZ170 / GTHZ170C / HZ210AI

This machine has articulation boom which can work across the obstacle. It can carry two people and some tools in the basket. The machine allows you to operate it in limited place with narrow design and small radius turning system. You can operate the machine from basket or base control, so when you want to move it, you do not need to go down the machine. Multi-motion control allows you to operate several actions simultaneously. With this machine, you can do work more efficient and comfortable.

Features

- / Increase the ground clearance to improve passability;
- / This platform is provided with rough terrain tires, which are more suitable for working outside;
- / The driving speed is 6.1km/h.
- / Climbing performance is increased to 30%;
- / Integrated design of motor and reducer. The motor controls the reducer to brake, reducing the impact of braking and improving
- / Potentiometer is installed on the equipment, so that the left and right wheels have different speed when steering, so the steering is more stable.
- / The drive motor is AC motor.

Standard specification

- / Electrical battery traction
- / Negative brakes
- / Lifting brakests
- / Hour meter
- / Warning buzzer in the basket
- / 220V predisposal
- / Voltage indicator
- / Safety manual pump
- / Bus CAN technology
- / Diagnostic help integrated
- / Dual electrical motors / No marking tires
- / Anti-roll system
- / Integrated charger

Options

- / Working lights
- / Flashing light(all motion alarm)
- / Buzzer
- / Air predisposal
- / Electrical plug 220V
- / Over-load sensor system

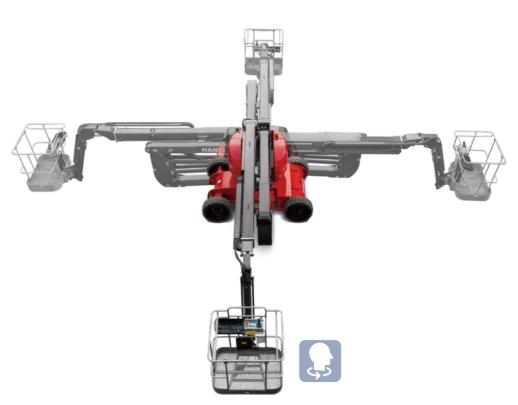










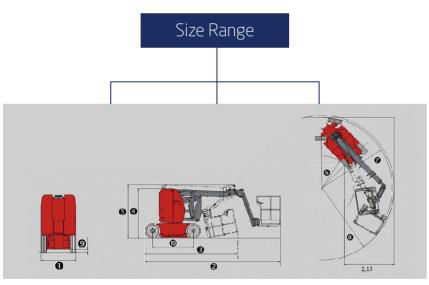


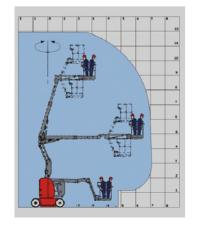


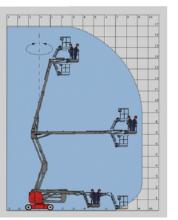
GTHZ170C GTHZ170 GTHZ120

Articulating Booms

| 1 | Manufacturer | | | HANGCHA GROUP CO.,LTD. | |
|----|---------------------------------|------|-------------|------------------------|-------------|
| 2 | Model | | GTHZ120 | GTHZ170 | GTHZ170C |
| 3 | Working height | m | 11.95 | 16.75 | 16.95 |
| 4 | Platform height | m | 9.95 | 14.75 | 14.95 |
| 5 | Horizontal height | m | 7.00 | 9.43 | 9.43 |
| 6 | Up and over height | m | 4.77 | 7.16 | 7.3 |
| 7 | Length | m | 5.48 | 6.84 | 6.9 |
| 8 | Length (storage) | m | 3.74 | 5.4 | 5.4 |
| 9 | Wheel base | m | 1.65 | 2 | 2 |
| 10 | Width | m | 1.22 | 1.75 | 1.75 |
| 11 | Height | m | 1.99 | 2.09 | 2.15 |
| 12 | Height (storage) | m | 2.16 | 2.09 | 2.15 |
| 13 | Basket size | m | 1.20x0.77 | 1.20x0.77 | 1.80x0.77 |
| 14 | Turning radius inside | m | 1.55 | 2.0 | 2.0 |
| 15 | Turning radius outside | m | 3.25 | 4.30 | 4.30 |
| 16 | Turning radius outside (basket) | m | 3.34 | 5.6 | 5.6 |
| 17 | Ground Clearance | m | 0.10 | 0.15 | 0.20 |
| 18 | Capacity | kg | 200 | 200 | 230 |
| 19 | Jib movement | | ±70° | ±70° | ±70° |
| 20 | Basket roration | | 140° | 140° | 140° |
| 21 | Turret rotation | | 350° | 355° | 355° |
| 22 | Drive speed | km/h | 6.00 | 4.50 | 6.10 |
| 23 | Working speed | km/h | 0.60 | 0.60 | 0.60 |
| 24 | Gradeability | % | 25% | 22% | 30% |
| 25 | Maxi slope acceptable | % | 3° or 5% | 3° or 5% | 3° or 5% |
| 26 | Tires | m | 0.60x0.19 | 0.60x0.19 | 0.73x0.225 |
| 27 | Wheel steer | | 2 | 2 | 2 |
| 28 | Wheel drive | | 2 | 2 | 2 |
| 29 | Batteries (C5) | V/Ah | 240Ah,2x24V | 300Ah,2x24V | 300Ah,2x24V |
| 30 | Weight | kg | 6550 | 7030 | 7130 |









307 GTHZ120 GTHZ170

Your reliable partner for outdoor construction and industrial applications, the Hangcha first rough terrain articulating boom lift with capabilities provides lifting versatility with a combination of up, out and over positioning capabilities.

Safe and reliable

- / Swing shaft design, good off-road performance, keep stable when crossing potholes;
- / Middle arm frame, compact structure, safe and stable.
- / Control system redundancy design, cylinder to the top buffer design, the boom movement is smooth, comfortable operation;
- / All key parts adopt well-known brands in the industry, with high reliability;
- / Four-wheel electromagnetic braking;

Energy saving and efficient

- / Standard lithium iron phosphate battery, energy saving and environmental protection, short charging time, long life;
- / Gravity drop hydraulic system, energy saving, strong endurance;
- / The whole vehicle with ac system, high efficiency;
- / Using proportional valve, stepless speed regulation, fast response, stable operation;
- / Equipped with large size platform and three doors design.

Intelligent

/ Cloud intelligent module, which can realize the remote management of vehicles.

Storage

/ Can be transported by container.



HZ210Al Specification

| 1 | Manufacturer | HANGCHA GROUP CO.,LTD. |
|----|---|------------------------|
| 2 | Max. platform height | 18.80m |
| 3 | Max. working height | 20.80m |
| 4 | Max. up and over height | 8.28m |
| 5 | Max.horizontal height | 11.45m |
| 6 | Max.horizontal working height | 11.95m |
| 7 | Overall length | 8.63m |
| 8 | Overall width | 2.49m |
| 9 | Width (storage, change the tyres for container) | 2.3m |
| 10 | Overall height | 2.43m |
| 11 | Wheel base | 2.5m |
| 12 | Grand clearance | 0.31m |
| 13 | Platform size | 2.2m×0.8m×1.1m |
| 14 | Tire | 315/55 D20 |
| 15 | Capacity | 255kg(350kg) |
| 16 | Operators | 2 |
| 17 | Max. Manual force | 400N |
| 18 | Max.driving speed (transport mode) | 6.1km/h |
| 19 | Max. driving speed (working mode) | 0.8km/h |
| 20 | Mini. turnig radius inside | 2.05m |
| 21 | Gradeability/Slope (transport mode) | 40% / 22° |
| 22 | Max. slope angle (working mode) | 5° |
| 23 | Turret rotation | 360°continually |
| 24 | Tail swing | 0.31m |
| 25 | Max. wind speed | 12.5m/s |
| 26 | Basket rotation | 180° |
| 27 | Jib movement | 70°/-60° |
| 28 | Wheel drive | 4WD×2WS |
| 29 | Drive motor | 6kW |
| 30 | Hydraulic motor | 3.3kW |
| 31 | Oil tank | 60L |
| 32 | Lithium battery | 48V, 375Ah |
| 33 | Electrical system voltage | 48V |
| 34 | Control system voltage | 12V |
| 35 | Weight | 9300kg |
| 36 | Tire load | 5000kg |



319 HZ210AI

