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HANGCHA trucks conform  
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Requirements.

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## A Series High Range Pedestrian Pallet Stacker With Initial Lift

with capacities of 1,200 to 1,600kg

*The World of Hangcha*  
SINCE 1956



# A Series High Range Pedestrian Pallet Stacker With Initial Lift

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.



Tiller

## 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 slope.
- / 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.



The non-contact proximity switch has a long life and can work reliably

## 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.



Designed to be narrow with large round corners to improve suitability for concentrated shelves and with a wedge-shape chassis to provide higher passing ability



With the upper and lower pallet handling design to meet the stacking operation need and enable a higher efficiency of goods handling

## 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 convenient.
- / 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.

## 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
- / Automatic battery charger
- / Load backrest
- / Mast shield
- / Lithium Battery 202Ah
- / Lead-acid battery 240/280/340Ah

## 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 effective protection for goods.



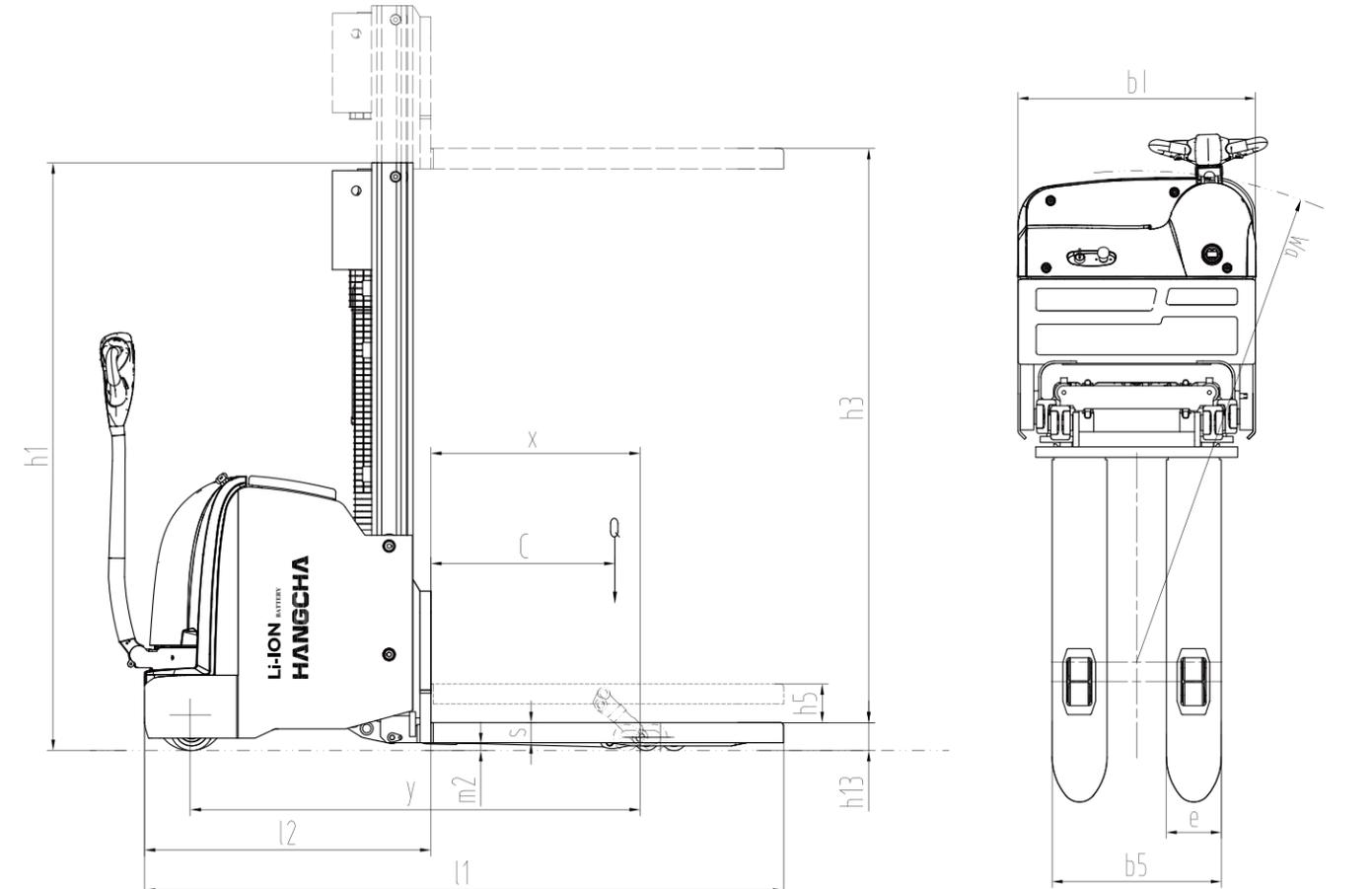
# A Series High Range Pedestrian Pallet Stacker With Initial Lift Specification

| Characteristics  | 1.1                   | Manufacturer   | HANGCHA GROUP CO.,LTD.     |                            |                            |                              |                              |                              |                     |
|------------------|-----------------------|--|----------------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|---------------------|
|                  | 1.2                   | Manufacturer's type designation                            | CDD12-AC2-L<br>CDD12-AZ3-L | CDD14-AC2-L<br>CDD14-AZ3-L | CDD16-AC2-L<br>CDD16-AZ3-L | CDD12-AC2-LI<br>CDD12-AZ3-LI | CDD14-AC2-LI<br>CDD14-AZ3-LI | CDD16-AC2-LI<br>CDD16-AZ3-LI |                     |
| Weight           | 1.4                   | Operator type  | Pedestrian                 | Pedestrian                 | Pedestrian                 | pedestrian                   | pedestrian                   | pedestrian                   |                     |
|                  | 1.5                   | Load capacity  | Q(kg)                      | 1200                       | 1400                       | 1600                         | 1200                         | 1400                         | 1600                |
|                  | 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)                      | 683 <sup>3)4)</sup>        | 683 <sup>3)4)</sup>        | 683 <sup>3)4)</sup>          | 683 <sup>3)4)</sup>          | 683 <sup>3)4)</sup>          | 683 <sup>3)4)</sup> |
|                  | 1.9                   | Wheelbase  | y(mm)                      | 1467 <sup>3)</sup>         | 1467 <sup>3)</sup>         | 1467 <sup>3)</sup>           | 1467 <sup>3)</sup>           | 1467 <sup>3)</sup>           | 1467 <sup>3)</sup>  |
| Wheels/chassis   | 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                         | Φ230×75                    | Φ230×75                    | Φ230×75                      | Φ230×75                      | Φ230×75                      | Φ230×75             |
|                  | 3.3                   | Tyre size, rear  | mm                         | Φ85×70                     | Φ85×70                     | Φ85×70                       | Φ85×70                       | Φ85×70                       | Φ85×70              |
|                  | 3.4                   | Additional wheels(dimensions)                              | mm                         | Φ140×55                    | Φ140×55                    | Φ140×55                      | Φ140×55                      | Φ140×55                      | Φ140×55             |
|                  | 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              |
|                  | 3.6                   | Tread, front   | b10(mm)                    | 525                        | 525                        | 525                          | 525                          | 525                          | 525                 |
| Dimensions       | 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   | h5(mm)                     | 125                        | 125                        | 125                          | 125                          | 125                          | 125                 |
|                  | 4.15                  | Height, lowered  | h13(mm)                    | 90                         | 90                         | 90                           | 90                           | 90                           | 90                  |
|                  | 4.19                  | Overall length   | l1(mm)                     | 2083 <sup>4)</sup>         | 2083 <sup>4)</sup>         | 2083 <sup>4)</sup>           | 2083 <sup>4)</sup>           | 2083 <sup>4)</sup>           | 2083 <sup>4)</sup>  |
|                  | 4.20                  | Length to face of forks                                    | l2(mm)                     | 934 <sup>4)</sup>          | 934 <sup>4)</sup>          | 934 <sup>4)</sup>            | 934 <sup>4)</sup>            | 934 <sup>4)</sup>            | 934 <sup>4)</sup>   |
|                  | 4.21                  | Overall width  | b1(mm)                     | 800                        | 800                        | 800                          | 800                          | 800                          | 800                 |
|                  | 4.22                  | Fork dimensions  | s/e/(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                  |
| Performance data | 4.33                  | Aisle width for pallets 1000 x 1200 crossways              | As1(mm)                    | 2283 <sup>1)</sup>         | 2283 <sup>1)</sup>         | 2283 <sup>1)</sup>           | 2283 <sup>1)</sup>           | 2283 <sup>1)</sup>           | 2283 <sup>1)</sup>  |
|                  | 4.34                  | Aisle width for pallets 800 x 1200 lengthways              | As2(mm)                    | 2334 <sup>2)</sup>         | 2334 <sup>2)</sup>         | 2334 <sup>2)</sup>           | 2334 <sup>2)</sup>           | 2334 <sup>2)</sup>           | 2334 <sup>2)</sup>  |
|                  | 4.35                  | Turning radius   | Wa(mm)                     | 1635 <sup>3)</sup>         | 1635 <sup>3)</sup>         | 1635 <sup>3)</sup>           | 1635 <sup>3)</sup>           | 1635 <sup>3)</sup>           | 1635 <sup>3)</sup>  |
|                  | 5.1                   | Travel speed, unladen                                      | km/h                       | 6/6                        | 6/6                        | 6/6                          | 6/6                          | 6/6                          | 6/6                 |
|                  | 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           |
| Electric Engine  | 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           |
|                  | 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            |
| Other            | 6.1                   | Drive motor rating S2 60 min                               | kW                         | 1.5                        | 1.5                        | 1.5                          | 1.5                          | 1.5                          | 1.5                 |
|                  | 6.2                   | Lift motor rating at S3 15 %                               | kW                         | 2.2                        | 3.2                        | 3.2                          | 2.2                          | 3.2                          | 3.2                 |
|                  | 6.4                   | Battery voltage/nominal capacity K5                        | V/Ah                       | 24/240                     | 24/240                     | 24/280                       | 24/125                       | 24/125                       | 24/125              |
| 8.1              | Type of drive control |  | AC CURTIS/ZAPI             |                            |                            |                              |                              |                              |                     |

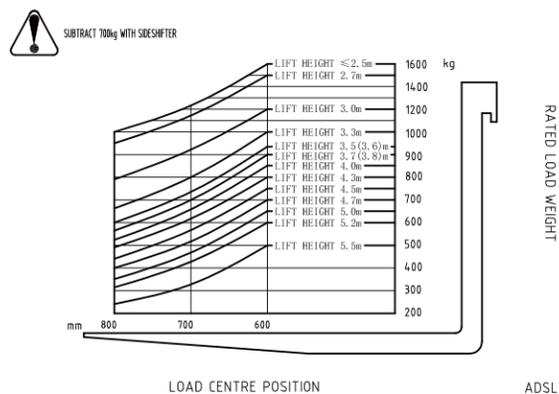
Note : 1) VDI2198:+233mm; 2) VDI2198:+157mm; 3) Load section lowered:+68mm; 4) Triplex Mast:x-21mm; l1+21mm; l2+21mm

# Mast Specification

| Type                             | Fork lift height h <sub>1</sub> | Max.fork height (h <sub>3</sub> +h <sub>13</sub> ) | Mast lowered h <sub>1</sub> | Mast extended h <sub>4</sub> | Free lift height | Load Capacity at 600mm |      |      |
|----------------------------------|---------------------------------|--|-----------------------------|------------------------------|------------------|------------------------|------|------|
|                                  |                                 |  |                             |                              |                  | 1.2t                   | 1.4t | 1.6t |
|                                  |                                 |  |                             |                              |                  | kg                     | kg   | kg   |
| Wide view mast                   | 2000                            | 2090   | 1582                        | 2582                         | 90               | 1200                   | 1400 | 1600 |
|                                  | 2500                            | 2590   | 1832                        | 3082                         | 90               | 1200                   | 1400 | 1600 |
|                                  | 2700                            | 2790   | 1932                        | 3282                         | 90               | 1200                   | 1300 | 1500 |
|                                  | 3000                            | 3090   | 2082                        | 3582                         | 90               | 1130                   | 1130 | 1200 |
|                                  | 3300                            | 3390   | 2232                        | 3882                         | 90               | 950                    | 950  | 1000 |
|                                  | 3500                            | 3590   | 2332                        | 4082                         | 90               | 900                    | 900  | 940  |
|                                  | 3600                            | 3690   | 2382                        | 4182                         | 90               | 890                    | 890  | 930  |
|                                  | 3700                            | 3790   | 2432                        | 4282                         | 90               | 850                    | 850  | 900  |
|                                  | 3800                            | 3890   | 2482                        | 4382                         | 90               | 840                    | 840  | 890  |
|                                  | 4000                            | 4090   | 2682                        | 4682                         | 90               | 800                    | 800  | 850  |
| Wide view full free duplex mast  | 4300                            | 4390   | 2832                        | 4982                         | 90               | 750                    | 750  | 800  |
|                                  | 4500                            | 4590   | 2932                        | 5182                         | 90               | 700                    | 700  | 750  |
|                                  | 2000                            | 2090   | 1635                        | 2635                         | 1090             | 1200                   | 1400 | 1600 |
|                                  | 2500                            | 2590   | 1885                        | 3135                         | 1340             | 1200                   | 1400 | 1600 |
|                                  | 2700                            | 2790   | 1985                        | 3335                         | 1440             | 1200                   | 1300 | 1500 |
|                                  | 3000                            | 3090   | 2135                        | 3635                         | 1590             | 1130                   | 1130 | 1200 |
|                                  | 3300                            | 3390   | 2285                        | 3935                         | 1740             | 950                    | 950  | 1000 |
|                                  | 3500                            | 3590   | 2385                        | 4135                         | 1840             | 900                    | 900  | 940  |
|                                  | 3600                            | 3690   | 2435                        | 4235                         | 1890             | 890                    | 890  | 930  |
|                                  | 3500                            | 3590   | 1884                        | 4254                         | 1220             | 890                    | 890  | 930  |
| Wide view full free triplex mast | 3700                            | 3790   | 1949                        | 4449                         | 1290             | 850                    | 850  | 900  |
|                                  | 4000                            | 4090   | 2049                        | 4749                         | 1390             | 800                    | 800  | 850  |
|                                  | 4300                            | 4390   | 2149                        | 5049                         | 1490             | 750                    | 750  | 800  |
|                                  | 4500                            | 4590   | 2199                        | 5199                         | 1590             | 700                    | 700  | 750  |
|                                  | 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  |



RATED CAPACITIES AND LOAD CENTRES GRAPH



| Q1(hg) |     | Q2(hg) |     | Q1-Q2(hg) |     |
|--------|-----|--------|-----|-----------|-----|
| max    | min | max    | min | max       | min |
| 2000   | 0   | 0      | 0   | 2000      |     |
| 1500   | 100 | 100    |     |           |     |
| 1400   | 200 | 200    |     |           |     |
| 1300   | 300 | 300    |     | 1600      |     |
| 1200   | 400 | 400    |     |           |     |
| 1100   | 500 | 500    |     |           |     |
| 1000   | 600 | 600    |     |           |     |
| 900    | 700 | 700    |     |           |     |
| 800    | 800 | 800    |     |           |     |

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