

# **Технический каталог штабелёров HANGCHA CQDB12/16-AC2S-J**

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Заводской каталог серии А с выдвижными вилами. Полные обозначения CQDB12-AC2S-J и CQDB16-AC2S-J со знаком CE напечатаны в технической таблице на странице 4 исходного файла.

На странице 2 отдельно описаны литиевые исполнения CQDB12/16-AC2S-IJ. Их батареи и гарантийные условия не переносятся на карточки AC2S-J. Мачту, батарею и оборудование сверяют с выбранным исполнением. Это каталог серии, а не индивидуальный паспорт поставляемой машины.

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

with capacities of 1,200 to 1,600kg

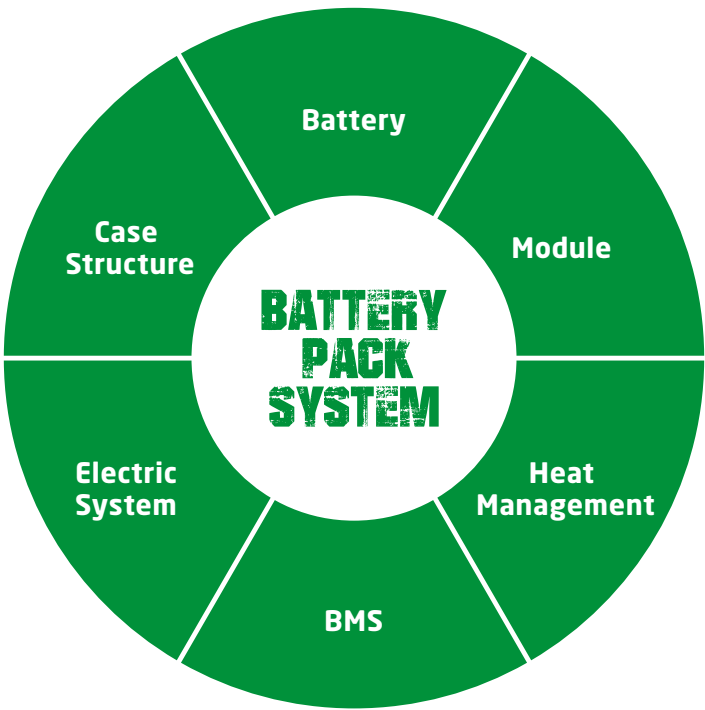
*The World of Hangcha*





# INNOVATIVE SOLUTIONS NEW POWER NOW

- / 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 75%.
- / Maintenance-free: Battery does not require manual maintenance.
- / Green and clean: Pollution-free, zero emissions.



Li-Ion  
**2 hours**  
**100%**

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

**Rapid charging and opportunity charging ensure continuous availability of vehicles.**

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

## Li-Ion Battery Pack specification

| Type                    |      | CQDB12-AC2S-IJ* | CQDB16-AC2S-IJ* |
|-------------------------|------|-----------------|-----------------|
| Li-Ion battery          | V/Ah | 24/125          | 24/125          |
| Li-Ion battery,Optional | V/Ah | 24/228          | 24/228          |

Note: \* CE model



HANGCHA provides Li-Ion battery (LiFePO4) with 6 years or 12000 hours warranty.

**6 YEARS**  
**WARRANTY**

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

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.

## Easy/ Efficiency/ Economy

### 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.



### High Performance

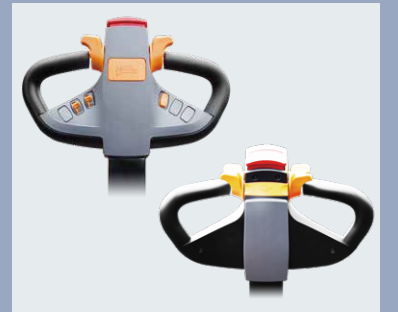
- / EPS (Electric Power Steering) system offer easier and more flexible operation.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The latest CURTIS AC control system realizes accurate and 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.

### 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.

### 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

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 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 (only available for duplex mast)
- / Multi-function tiller
- / Reach distance of fork:590mm



1.2t/1.6t Mast specification

| Type                             | Fork lift height<br>h <sub>3</sub> | Mast lowered<br>h <sub>1</sub> | Mast extended<br>h <sub>4</sub> | Free lift height<br>h <sub>2</sub> | Capacity               |      |
|----------------------------------|------------------------------------|--------------------------------|---------------------------------|------------------------------------|------------------------|------|
|                                  |                                    |                                |                                 |                                    | Load capacity at 600mm |      |
|                                  |                                    |                                |                                 |                                    | 1.2t                   | 1.6t |
| Wide view mast                   | mm                                 | mm                             | mm                              | mm                                 | kg                     | kg   |
|                                  | 2500                               | 1940                           | 3552                            | 60                                 | 1200                   | 1600 |
|                                  | 2700                               | 2040                           | 3752                            | 60                                 | 1200                   | 1600 |
|                                  | 3000                               | 2190                           | 4052                            | 60                                 | 1200                   | 1600 |
|                                  | 3300                               | 2340                           | 4352                            | 60                                 | 1200                   | 1600 |
|                                  | 3500                               | 2440                           | 4552                            | 60                                 | 1200                   | 1600 |
|                                  | 3600                               | 2490                           | 4652                            | 60                                 | 1200                   | 1550 |
|                                  | 3700                               | 2540                           | 4752                            | 60                                 | 1200                   | 1500 |
|                                  | 3800                               | 2590                           | 4852                            | 60                                 | 1200                   | 1500 |
|                                  | 4000                               | 2790                           | 5052                            | 60                                 | 1200                   | 1430 |
| Wide view full free triplex mast | 4300                               | 2940                           | 5352                            | 60                                 | 1150                   | 1360 |
|                                  | 4500                               | 3040                           | 5552                            | 60                                 | 1100                   | 1300 |
|                                  | 3500                               | 1975                           | 4552                            | 923                                | 1200                   | 1600 |
|                                  | 3700                               | 2040                           | 4752                            | 988                                | 1200                   | 1500 |
|                                  | 4000                               | 2140                           | 5052                            | 1088                               | 1200                   | 1430 |
|                                  | 4300                               | 2240                           | 5352                            | 1188                               | 1150                   | 1360 |
|                                  | 4500                               | 2290                           | 5552                            | 1238                               | 1100                   | 1300 |
|                                  | 4700                               | 2390                           | 5752                            | 1338                               | 1050                   | 1220 |
|                                  | 5000                               | 2490                           | 6062                            | 1438                               | 1000                   | 1130 |
|                                  | 5200                               | 2540                           | 6252                            | 1488                               | 930                    | 1050 |
|                                  | 5500                               | 2640                           | 6552                            | 1588                               | 850                    | 950  |

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

| Distinguishing marks | 1.1    | Manufacturer                                                    |                                     | HANGCHA GROUP CO.,LTD.  |                         |
|----------------------|--------|-----------------------------------------------------------------|-------------------------------------|-------------------------|-------------------------|
|                      | 1.2    | Manufacturer's type designation                                 |                                     | CQDB12-AC2S-J*          | CQDB16-AC2S-J*          |
|                      | 1.3    | Drive: electric (battery or mains), diesel, petrol, fuel gas    |                                     | Electric                | Electric                |
|                      | 1.4    | Operator type: hand, pedestrian, standing, seated, order-picker |                                     | Standing                | Standing                |
|                      | 1.5    | Rated capacity/rated load                                       | Q (kg)                              | 1200                    | 1600                    |
|                      | 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                    |
| Tyres,chassis        | 3.1    | Tyres: solid rubber, superelastic, pneumatic, polyurethane      |                                     | Polyurethane            | Polyurethane            |
|                      | 3.2    | Tyre size, front                                                | mm                                  | Φ230×75                 | Φ250×100                |
|                      | 3.3    | Tyre size, rear                                                 | mm                                  | Φ100×70                 | Φ100×70                 |
|                      | 3.5    | Wheels, number front / rear (x = driven wheels)                 |                                     | 1×/4                    | 1×/4                    |
|                      | 3.6    | Tread, front                                                    | b <sub>10</sub> (mm)                | 0                       | 0                       |
|                      | 3.7    | Tread, rear                                                     | b <sub>11</sub> (mm)                | 1170                    | 1170                    |
|                      | 4.1    | Tilt of fork carriage forward/backward                          | α/β(°)                              | 3/5                     | 3/5                     |
| Dimensions           | 4.2    | Height ,mast lowered                                            | h <sub>1</sub> (mm)                 | 2040                    | 2040                    |
|                      | 4.4    | Lift                                                            | h <sub>3</sub> (mm)                 | 2700                    | 2700                    |
|                      | 4.5    | Height, mast extended                                           | h <sub>4</sub> (mm)                 | 3752                    | 3752                    |
|                      | 4.8    | stand height                                                    | h <sub>7</sub> (mm)                 | 185                     | 185                     |
|                      | 4.10   | Height of wheel arms                                            | h <sub>8</sub> (mm)                 | 130                     | 130                     |
|                      | 4.19   | Overall length                                                  | l <sub>1</sub> (mm)                 | 2295                    | 2295                    |
|                      | 4.20   | Length to face of forks                                         | l <sub>2</sub> (mm)                 | 1225                    | 1225                    |
|                      | 4.21   | Overall width                                                   | b <sub>1</sub> /b <sub>2</sub> (mm) | 800/1270                | 800/1270                |
|                      | 4.22   | Fork dimensions                                                 | s/e/l (mm)                          | 35/100/1070             | 35/100/1070             |
|                      | 4.24   | Fork-carriage width                                             | b <sub>3</sub> (mm)                 | 920                     | 920                     |
|                      | 4.25   | Distance between fork-arms                                      | b <sub>5</sub> (mm)                 | 200-896                 | 200-896                 |
|                      | 4.26   | Distance between wheel arms                                     | b <sub>4</sub> (mm)                 | 1070                    | 1070                    |
|                      | 4.28   | Reach distance                                                  | l <sub>4</sub> (mm)                 | 590                     | 590                     |
|                      | 4.32   | Ground clearance, centre of wheelbase                           | m <sub>2</sub> (mm)                 | 70                      | 70                      |
|                      | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways                   | A <sub>st</sub> (mm)                | 2701                    | 2701                    |
|                      | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways                   | A <sub>st</sub> (mm)                | 2739                    | 2739                    |
|                      | 4.35   | Turning radius                                                  | W <sub>a</sub> (mm)                 | 1682                    | 1682                    |
|                      | 4.37   | Length across wheel arms                                        | l <sub>7</sub> (mm)                 | 1794                    | 1794                    |
| Performance data     | 5.1    | Travel speed, laden/unladen                                     | km/h                                | 5.5/6.0                 | 5.5/6.0                 |
|                      | 5.2    | Lift speed, laden/unladen                                       | m/s                                 | 0.100/0.130             | 0.090/0.120             |
|                      | 5.3    | Lowering speed, laden/unladen                                   | m/s                                 | 0.180/0.165             | 0.165/0.150             |
|                      | 5.4    | Reaching speed, laden/unladen                                   | m/s                                 | 0.115/0.165             | 0.115/0.165             |
|                      | 5.8    | Max.gradeability, laden/unladen                                 | %                                   | 6/10                    | 6/10                    |
|                      | 5.10   | Service brake                                                   |                                     | Electromagnetic braking | Electromagnetic braking |
| Electric-engine      | 6.1    | Drive motor rating S2 60 min                                    | kW                                  | 1.5                     | 3                       |
|                      | 6.2    | Lift motor rating at S3 15%                                     | kW                                  | 3                       | 3                       |
|                      | 6.4    | Battery voltage/nominal capacity K5                             | V/Ah                                | 24/280                  | 24/340                  |
|                      | 6.5    | Battery weight                                                  | kg                                  | 250                     | 280                     |
| Addition data        | 8.1    | Type of drive control                                           |                                     | AC CURTIS               | AC CURTIS               |
|                      | 10.5   | Steering design                                                 |                                     | EPS                     | EPS                     |

Note: \* CE model

