

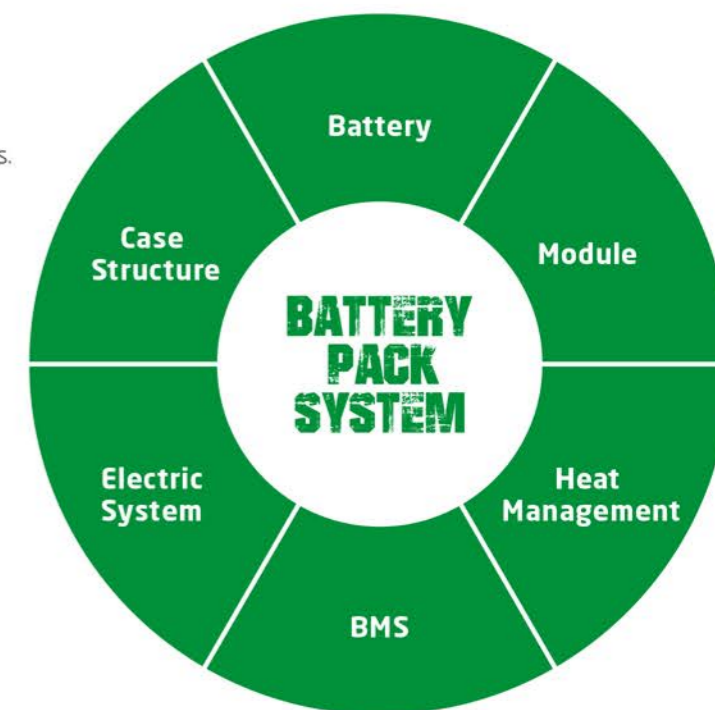
LET THE LITHIUM POWER BE REEL



INNOVATIVE SOLUTIONS NEW POWER NOW

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

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



Li-Ion
2 hours
100%

Lead-acid batteries
8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

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

Li-Ion Battery Pack specification

Type		CDD12-AC1S-I	CDD14-AC1S-I	CDD16-AC1S-I	CDD20-AC1S-I	CTD12-AC1S-I	CTD14-AC1S-I	CTD16-AC1S-I	CTD20-AC1S-I	CDD12-AC1-I	CDD14-AC1-I	CDD16-AC1-I	CDD20-AC1-I
Li-Ion battery	V/Ah	24/120	24/120	24/120	24/120	24/120	24/120	24/120	24/120	24/120	24/120	24/120	24/120
Li-Ion battery,Optional	V/Ah	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202
Titans charger		SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100



HANGCHA provides Li-Ion 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 CANBUS 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

- / 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 operation.
- / 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 damaging.
- / Turning speed is automatically reduced when steering only for stand-on.
- / 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

A Series High Range Stand-on Pallet Stacker / Li-Ion

LI-ION
TECHNOLOGY

INNOVATIVE LITHIUM-ION



The World of Hangcha
SINCE 1956


HANGCHA

CDD16-AC1S-I

Features:

- / The truck is developed based on the A series Hi Range stand-on pallet stacker, and inherits all merits of A series pallet stacker.
- / Li-Ion technology are applied, with safety protector which can ensure safety of lithium ion battery during operation.
- / Quick charging technology is applied, which not only can charge the battery to full capacity within 2-2.5 hours, but also is safer and more reliable, avoiding the truck from paralysis because of self-power consumption.
- / The battery features long service life, and can have up to 3000 charge-discharge cycles.
- / High protection grade (IP54) can guarantee reliability of the battery.
- / In comparison with lead-acid battery, lithium ion battery features smaller voltage fluctuation during entire cycle of discharging, as well as higher power utilization efficiency.
- / Except the battery, commonality with lead-acid battery trucks of same model from Hangcha can reach above 95%.
- / The battery is maintenance-free, no potential pollution of heavy metal, and is environmentally friendly.
- / Lithium ion battery can be charged and used at any time.

Specification:

Model		CDD16-AC1S-I
Type of operation		Standing
Rated load capacity	kg	1600
Load center distance	mm	600
Minimum turning radius	mm	1662
Maximum travel speed	km/h	7.0
Maximum lifting speed	mm/s	118
Gradeability, laden	%	5
Power of drive motor	kW	2.2
Power of lift motor	kW	3.0
Standard battery	V/Ah	24/150



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to the European Safety
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