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# A Series Three-Wheel High Level Order Picker

with capacities of 3,000lbs



*The World of Hangcha*  
SINCE 1956



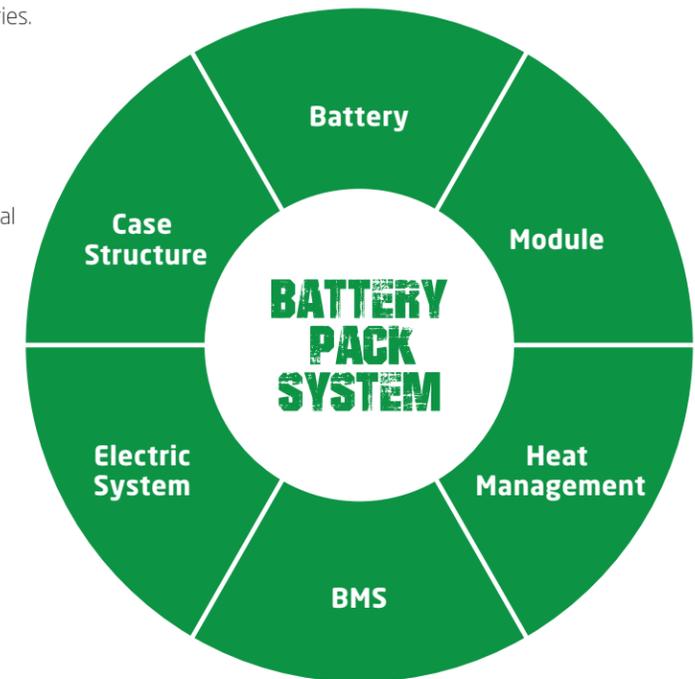
# LET THE LITHIUM POWER TAKE OVER



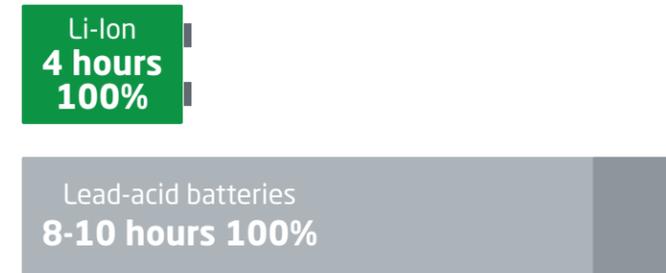
# INNOVATIVE SOLUTIONS NEW POWER NOW

Lithium-ion technology (Lithium Iron-Phosphate), was developed jointly by HANGCHA and CATL for use in material handling equipment applications. These innovative and reliable battery cells and modules are manufactured to the highest standard by CATL exclusively for HANGCHA's forklift line.

- / **Battery Technology:** We use square lithium iron phosphate batteries. These are the same type of batteries used in new electric vehicles.
- / **Design:** The module uses a sturdy and lightweight aluminum alloy frame. It is also designed to provide excellent heat dissipation.
- / **Safe and Effective:** Charging efficiency as high as 98% and the thermal runaway temperature is at 600 °C and above.
- / **Adapted to Low Temperatures:** Comes standard with an electrical heating feature, ensuring normal operation in low temperatures.
- / **Quick Charging:** Fully charges in 4 hours.
- / **Efficient:** Can use opportunity charging to allow for continuous use in multi-shift operations.
- / **Long-Lasting:** 4000 charging cycles with a capacity retention greater than 80%.
- / **Maintenance-Free:** Lithium-ion batteries do not require manual maintenance such as watering.
- / **Green and clean:** The batteries are pollution-free, release zero emissions, and are recyclable.



## RAPID CHARGING



**Rapid and opportunity charging ensure continuous availability of material handling equipment**

The chargers allow for fast full charging or boost charging (100 % charge in 4 hours). The lithium-ion batteries are maintenance free and do not require a battery change when used in multi-shift operations. Instead, the batteries can be charged during user breaks and shift changes which allows the forklift to continuously run during multi-shift operations.



**TITAN CHARGER**

### Li-Ion Battery Pack Specification

Type		CJD13-AC2-HNAI
Li-Ion battery	V/Ah	36/813
Titans charger		SKC-48250NA



HANGCHA PROVIDES **10 YEAR**  
**OR 20000 HOURS** GUARANTEE  
ON LITHIUM BATTERY.





# A Series Three-Wheel High Level Order Picker

The A Series Three-Wheel High Level Order Picker is designed to meet order fulfillment needs in narrow aisle environments. This order 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 perfect choice for stock picking in a stereoscopic warehouse of 197"-366" in height.

## NARROW- AISLE SOLUTIONS

### High Performance

- / The maximum full-load travel speed is 7.5mph. This allows for an increase in productivity.
- / The German ZF gearbox and German Schabmueller AC drive and steering motors provide performance, stability, and are reliable.
- / The AC hydraulic lifting system is highly efficient and maintenance-free.
- / The advanced CURTIS control system provides precise, smooth, and efficient control of the order picker.
- / CANBUS structure allows for the whole vehicle to communicate faster and more reliably.





## Comfort

- / As a part of the standard configuration, a height sensor is provided.
- / Shifting and lifting or lowering of the mast are buffered to enable more comfort.
- / CURTIS multi-function instruments include functions such as mode selection and wheel position. The instruments also clearly display various information about the order picker.

## Safety

- / The full body harness provides protection for the operator.
- / A tilt switch sensor is provided to improve operational safety.
- / The left and right guardrails are equipped with safety switches.
- / The function of proportional speed reduction in corners is equipped as standard to ensure smooth and safe turning.
- / An emergency lowering feature is included standard. This operation can be carried out via the control platform or from the rear of the vehicle, respectively.

## Reliability

- / The vehicle's frame is robust and reliable thanks to its high-strength steel frame structure.
- / All of the order 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.



The A series lift truck provides operators with an unobstructed view. This contributes to an increase in the operator's confidence at height.



Fully variable lift/lower speeds provide precise control.



LORD steering gear with torque feedback is provided to enable higher operating safety and operator comfort.



With a safety factor of 10, the mast chain is equipped with a chain safety switch.



The manual-locking pallet clamp works on a wide range of pallets. It also accommodates pallet stringers ranging from 1" to 2" so operators can safely handle any pallet.

## Maintenance

- / The brushless AC motor is maintenance-free. This saves the end-user time and money.
- / The integrated power display, timing, and fault self-diagnosis meter are convenient for maintenance.
- / The rear hood can be easily removed without tools. This is convenient for maintenance of the hydraulic unit, electric control, motor, and other parts.

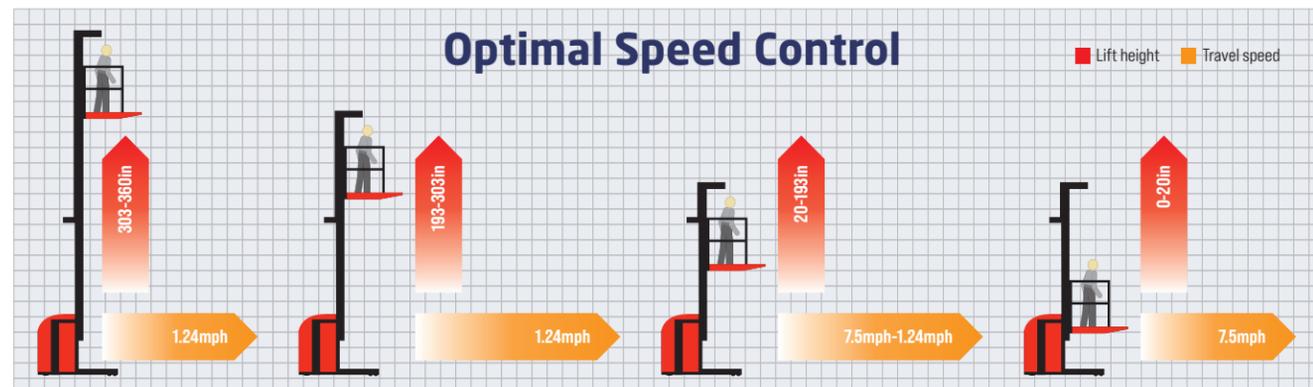
## Standard Features

- / 36V Electrical System
- / ZF Drive Unit
- / INTORQ Electromagnetic Brake
- / LORD Steering Gear
- / CURTIS AC Motor Controller
- / CURTIS Multi-Function Instrument
- / Chain Switch
- / Reflective Mirror
- / LED Ceiling Light
- / LED Side Light
- / Emergency Cut Off Switch
- / Alarm Light
- / Height Sensor
- / Safety Pedal
- / Tilt Switch
- / Left and Right Guard Rail
- / Guard Rail Switch
- / Electrostatic Belt
- / Electromagnetic Brake
- / Full Body Harness and Energy-Absorbing Tether
- / Pallet Clamp
- / Fully Variable Lift/Lower Controls
- / Manual Emergency Lowering System
- / Work Material Storage Compartments
- / Cushioned Mast Stops
- / Cushioned Mast Staging
- / Automatic Return to Center Drive Wheel Upon Start-Up
- / Electronic Power Steering
- / Battery Compartment Rollers



## Optional Equipment

- / Side Roller
- / Blue Light
- / Head Lamp
- / Wire Mesh Screen



A series order picker is available with advanced intellispeed system, which smoothly coordinates travel speeds and load height. Compared to conventional speed control, intellispeed maximizes truck speed as the platform rises, capitalizing on an area of opportunity for providing faster travel between picks.



## A Series Four-Wheel High Level Order Picker Specification

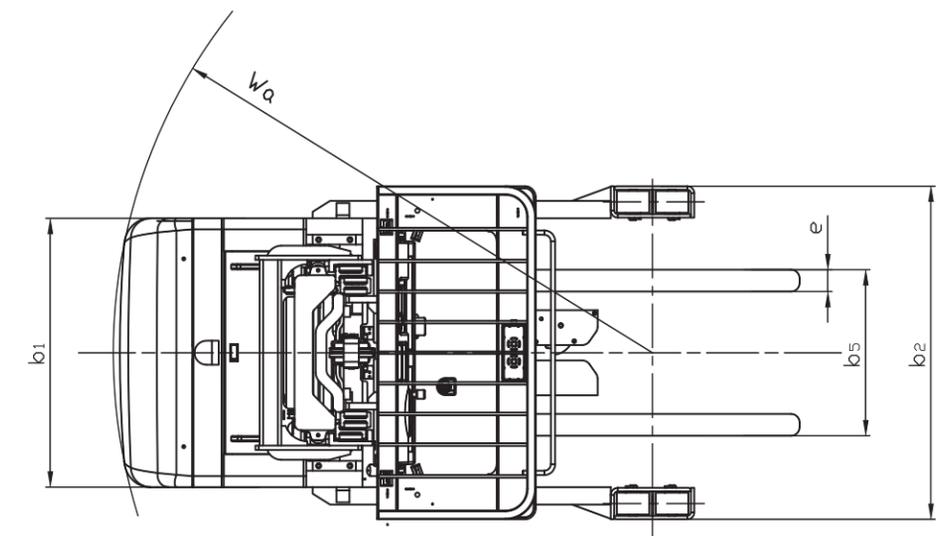
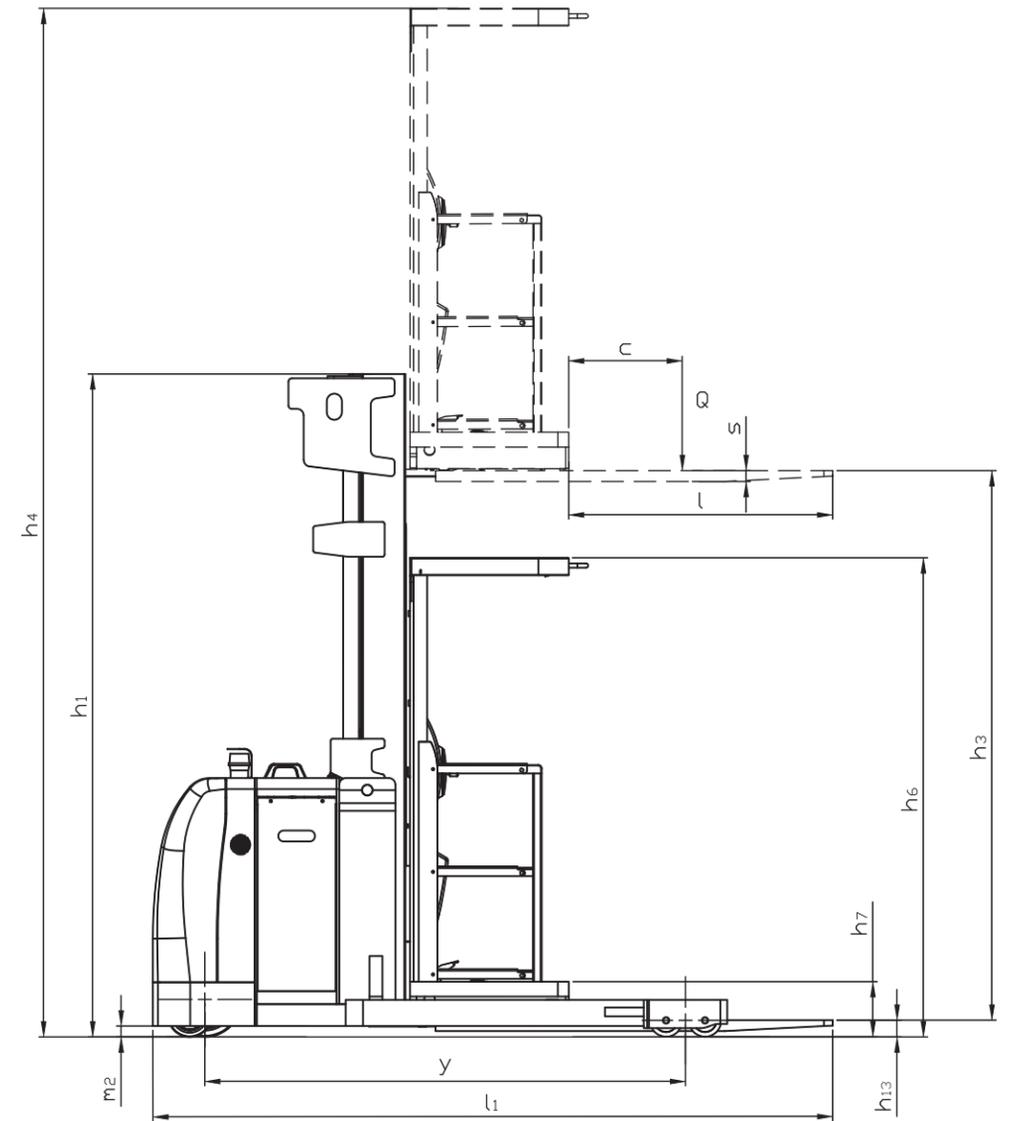
Distinguishing mark	Manufacturer	HANGCHA GROUP CO.,LTD.	
	HCFA Model	OPHT13	
	Model	CJD13-AC2-HNA	
	Drive:electric (battery or mains),diesel,petrol,fuel gas	Electric	
	Operator type:hand,pedestrian,standing,seated,order-picker	Order Picker	
	Rated capacity/rated load	Q(lb/kg)	3000/1360
	Load centre distance	c(in/mm)	24/600
	Wheelbase	y(in/mm)	61.3/1556
Weight	Service weight(without battery)	See table 1	
	Tires: solid rubber, superelastic, pneumatic, polyurethane	Polyurethane	
Tires, chassis	Tire size, front	in/mm	Ø13.5×5.5 Ø343×140
	Tire size, rear	in/mm	Ø6×4 Ø150×100
	Wheels, number front/rear (× = driven wheels)	1×, /4	
	Height, mast lowered	See table 1	
Dimensions	Lift	See table 1	
	Height, mast extended	See table 1	
	Height of overhead guard (cabin)	hs(in/mm)	92.3/2345
	Standing height	hr(in/mm)	10/253
	Height, lowered	hs(in/mm)	3/75
	Overall length	l(in/mm)	130.1/3305
	Overall width	See table 1	
	Fork dimensions DIN ISO 2331	s/e/l(in/mm)	2/4/48 50/100/1220
	Width across forks	bs(in/mm)	24-30/610-760
	Ground clearance, centre of wheelbase	mz(in/mm)	2/50
	Turning radius	Wa(in/mm)	71.3/1810
	Performance data	Travel speed, laden/unladen	See table 2
Lift speed, laden/unladen		fpm mm/s	69/94.6 350/480
Lowering speed, laden/unladen		fpm mm/s	78.8/78.8 400/400
Gradeability, laden/unladen		%	5/10
Service brake		Electromagnetic	
Electric-engine	Drive motor rating S2 60 min	hp/kw	8.6/6.4
	Lift motor rating at S3 15 %	hp/kw	17.2/12.8
	Battery voltage/nominal capacity K5	V/Ah	36/900
	Battery size	in/mm	38.7×20.7×31 983×527×787
	Battery weight	lb/kg	2101/954
Addition data	Sound pressure level at the driver's seat	dB(A)	69

### Table 1

	lift	Height, mast lowered	Height, mast extended	Stand height, elevated	Service weight(without battery)	Overall width
	hs(in/mm)	h1(in/mm)	h4(in/mm)	hs(in/mm)	lb/kg	b1/b2(in/mm)
N5000	197/5000	100/2540	289/7345	206.7/5250	6730.7/3053	40/42 1015/1220
N6100	240/6100	114.4/2905	332.5/8445	250/6350	6984/3168	40/42 1015/1220
N7000	275.5/7000	126.2/3205	368/9345	285.4/7250	7204.7/3268	40/54 1015/1370
N8000	315/8000	139.4/3540	407.3/10345	324.8/8250	7436/3373	40/54 1015/1370
N9300	366/9300	156.3/3970	458.5/11645	376/9550	7733.8/3508	40/60 1015/1525

### Table 2

Lift Height hs in(mm)	Travel speed mph(km/h)
0-20(0-500)	7.5(12)
20-193(500-4900)	7.5-1.24(12-2)
193-303(4900-7700)	1.24(2)
303-366(7700-9300)	1.24(2)



CJD13-AC2S-HNA