

HC FORKLIFT AMERICA CORPORATION

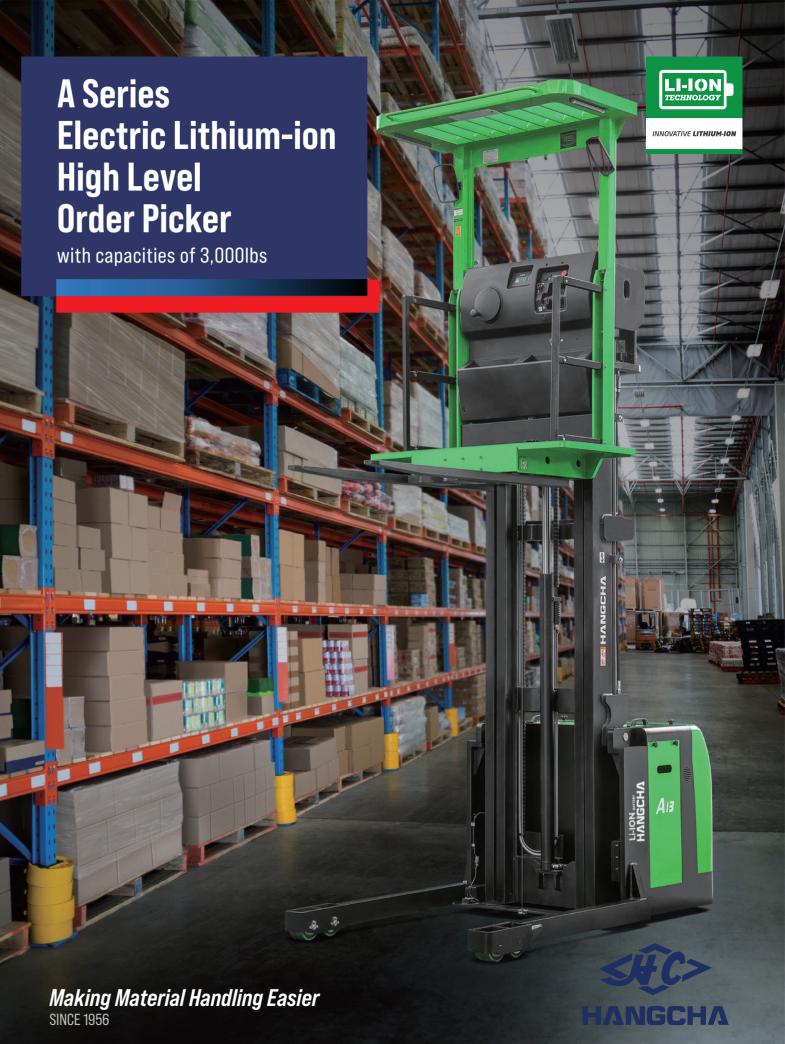
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HANGCHA PROVIDES UP TO A 10 YEAR OR 20000 HOUR GUARANTEE ON THE LITHIUM-ION BATTERY PACKS.





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 2 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.

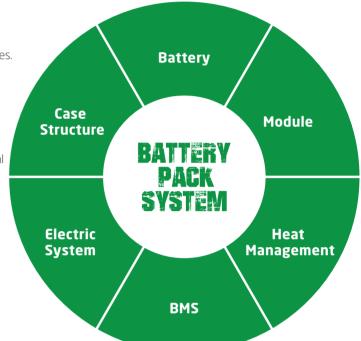
RAPID CHARGING

Li-Ion 2 hours 100%

Lead-acid batteries 8-10 hours 100%

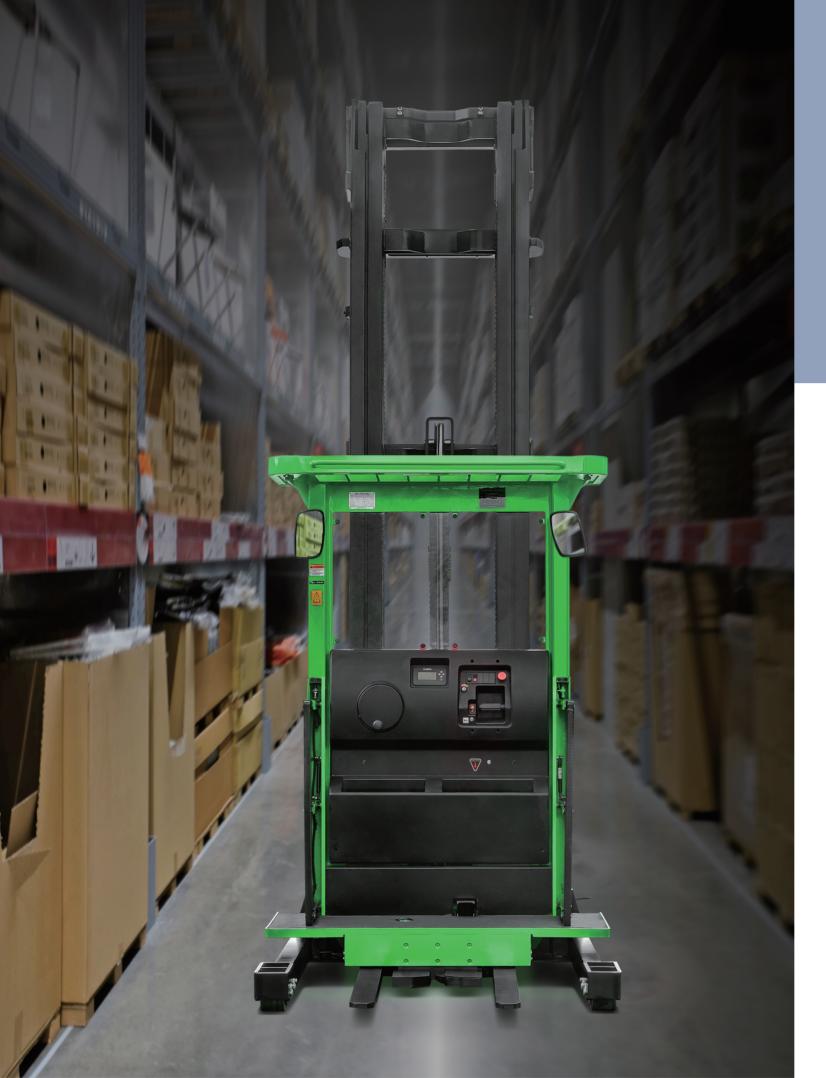
Rapid and opportunity charging ensure continuous availability of material handling equipment

The chargers allow for fast full charging or boost charging (100 % charge in 2 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 contiuously run during multi-shift operations.





(48V/200Ah)



A Series Electric Lithium-ion High Level Order Picker

The A Series Four-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 the perfect choice for stock picking in a stereoscopic warehouse of 197"-366" in height.

NARROW-ASLE 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.



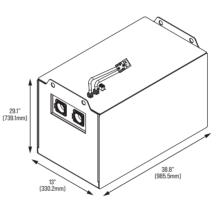


CATL Lithium Iron Phosphate Battery Packs

- / Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.
- / HANGCHA provides these Lithium Iron Phosphate (LiFePO4) battery packs with up to a 10 year or 20,000 hour warranty.
- / See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.

Standard	Standard Battery Capacity		
Model	OPHT13Li	OPH13Li	
Battery Capacity (V/Ah) (kW·h)	36V/813Ah 29.27kW∙h	36V/606Ah 21.82kW∙h	

OPH13Li



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.

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.



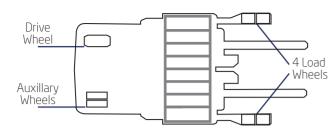






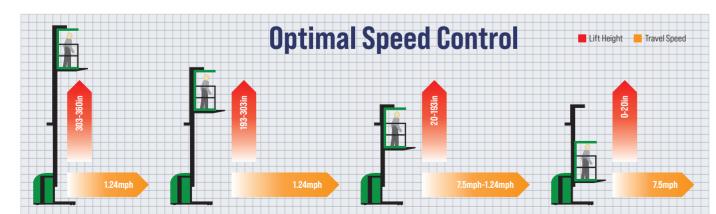


Four-Wheel Layout



Standard Specification

- / 36V Electrical System
- / ZF Drive Unit
- / INTORQ Electromagnetic Brake
- / LORD Steering Gear
- / CURTIS AC Motor Controller
- / CURTIS Multi-Function Instrument Display
- / Chain Safety Switch
- / Guard Rail 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
- / Electrostatic Belt
- / Electromagnetic Brake
- / Full Body Harness & Energy-Absorbing Tether
- / Pallet Clamp
- / Fully Variable Lift/Lower Controls
- / Manual Emergency Lowering
- / 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



The A Series Order Picker is available with the advanced intellispeed system. This system 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.

Options

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





A Series Electric Lithium-ion High Level Order Picker Specification

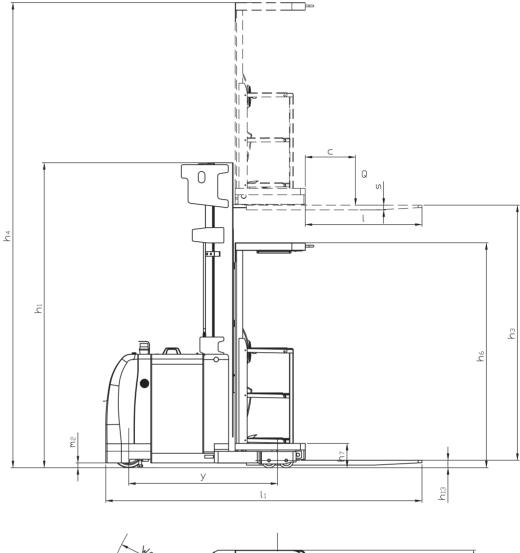
	Manufacturer		HANGCHA GROUP CO.,LTD.
	HCFA Model		OPH13Li
Ð	Model		CJD13-AC2S-HNAI
Distinguishing Marks	Drive: electric (battery or mains),diesel,petrol,fuel gas		Electric
tingu Mar	Operator Type: hand,pedestrian,standing,seated,order-picker		Order Picker
Dis	Rated Capacity/Rated Load	Q(lb/kg)	3000/1360
	Load Centre Distance	c(in/mm)	24/600
	Wheelbase	y(in/mm)	87.5/2222
Weight	Service Weight(without battery)		See table 1
sis	Tires: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane
Tires & Chassis	Tire size, front	in/mm	Ø13.5×5.5 Ø343×140
ss & [Tire size, rear	in/mm	Ø6×4 Ø150×100
Tir	Wheels, number front/rear (× = driven wheels)		1x,1/4
	Height, mast lowered		See table 1
	Lift		See table 1
	Height, mast extended		See table 1
	Height of Overhead Guard (cabin)	h6(in/mm)	92.3/2345
	Standing Height	h7(in/mm)	10/253
Dimensions	Height, lowered	h13(in/mm)	3/75
mens	Overall Length	lı(in/mm)	123.7/3142
ia	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	m2(in/mm)	2/50
	Turning Radius	Wa(in/mm)	98.5/2500
a	Travel Speed, laden/unladen		See table 2
e Dati	Lift Speed, laden/unladen	fpm mm/s	67/74.9 340/380
ance	Lowering Speed,laden/unladen	fpm mm/s	86.7/80.8 440/410
Performance Data	Gradeability, laden/unladen	%	5/10
Pei	Service Brake		Electromagnetic
	Drive Motor Rating S2 60 min	hp/kw	8.6/6.4
lotor	Lift Motor Rating at S3 15 %	hp/kw	17.2/12.8
Electric Motor	Battery Voltage/Nominal Capacity K5	V/Ah	36/606
Elect	Battery Size	in/mm	38.8x13x29.1 985.5×330.2×739.1
_	Battery Weight	lb/kg	507/229.9
Additional Data	Sound Pressure Level at the Driver's Seat	dB(A)	69

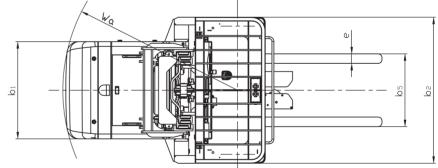


	Lift Height	Height, mast lowered	Height, mast extended	Stand Height, elevated	Service Weight (without battery)	Overall Width
	hs(in/mm)	hı(in/mm)	h4(in/mm)	hı2(in/mm)	lb/kg	b1/b2(in/mm)
N5000	197/5000	100/2540	289/7345	206.7/5250	8053.5/3656.3	40/42 1015/1220
N6100	240/6100	114.4/2905	332.5/8445	250/6350	8307/3771.4	40/42 1015/1220
N7000	275.5/7000	126.2/3205	368/9345	285.4/7250	8529.7/3872.5	40/54 1015/1370
N8000	315/8000	139.4/3540	407.3/10345	324.8/8250	8759/3976.6	40/54 1015/1370
N9300	366/9300	156.3/3970	458.5/11645	376/9550	9056.6/4111.7	40/60 1015/1525

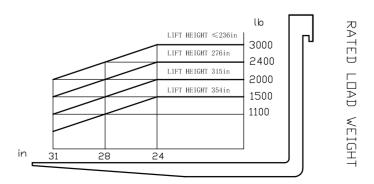
Table 2

Lift Height h3 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-AC2-HNA



LOAD CENTRE POSITION