



**HANGCHA FORKLIFT CANADA INC.**

**Company address:**  
100-3801 F.-X.-Tessier,  
Vaudreuil-Dorion, QC J7V 5V5

Tel: 877-319-4232  
info@hcforkliftcanada.com  
www.hcforkliftcanada.com



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ISO 45001:2018



ISO 14001:2015



ISO 9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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# A Series Electric Lithium-ion Narrow Aisle High Level Order Picker

with capacity of 3,000lbs

**HANGCHA** Lithium-ion

Re-imagining **POWER**



**HANGCHA**

*Making Material Handling Easier*  
SINCE 1956

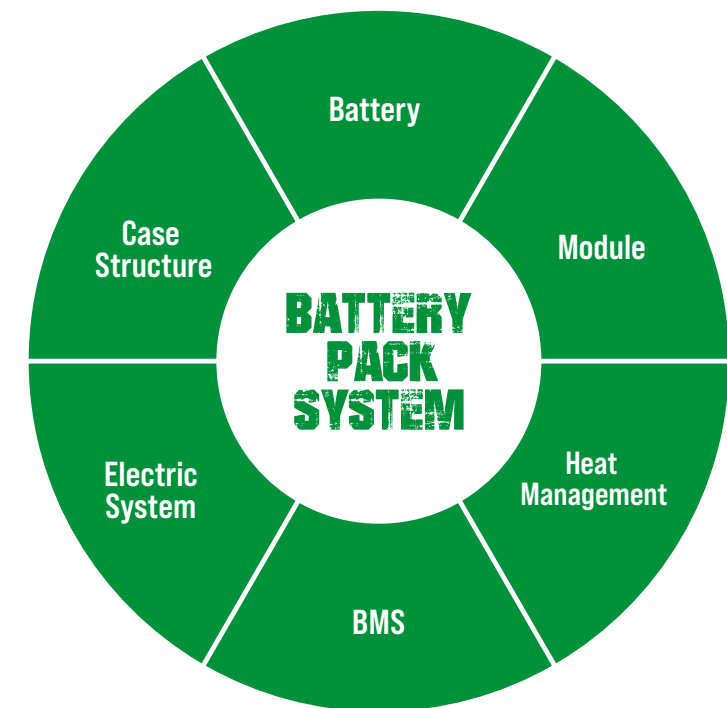
# LET THE LUM POWERED



## INNOVATIVE SOLUTIONS NEW POWER NOW

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

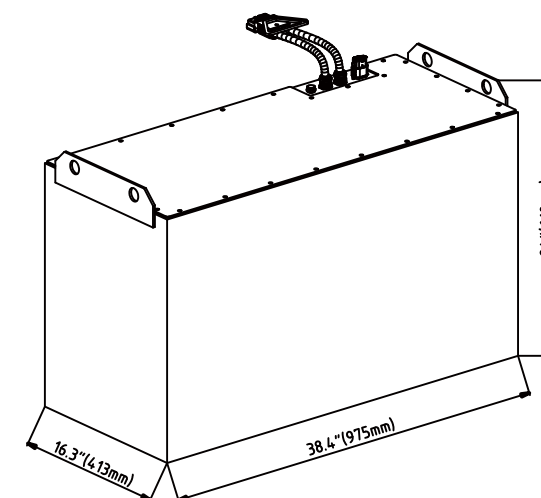
- / **Battery Technology:** We use square Lithium Iron Phosphate cells. These are the same type of batteries used in new electric vehicles.
- / **Design:** The module uses a sturdy and lightweight aluminum alloy frame. It is also designed to provide excellent heat dissipation.
- / **Safe and Effective:** 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.
- / **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.



### Lithium Iron Phosphate Battery Pack

- / Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.
- / See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.

Standard Battery Capacity	
Battery Capacity (V/Ah) (kW·h)	36V/684Ah 24.43kW·h



### *Rapid Charging and Opportunity Charging ensure continuous availability of the Order Picker*

Combined with a Hangcha Lithium-ion Charger, the order picker will charge fast. This technology also means that they are maintenance-free and won't require a battery change when used for multi-shift operations.



# DESIGNED TO INCREASE PRODUCTIVITY

■ EXCELLENT ERGONOMICS

■ MAINTENANCE-FREE BATTERY

■ RELIABLE

■ ADVANCED CONTROL SYSTEM

■ HIGH PERFORMANCE

■ COMFORTABLE

■ SAFE

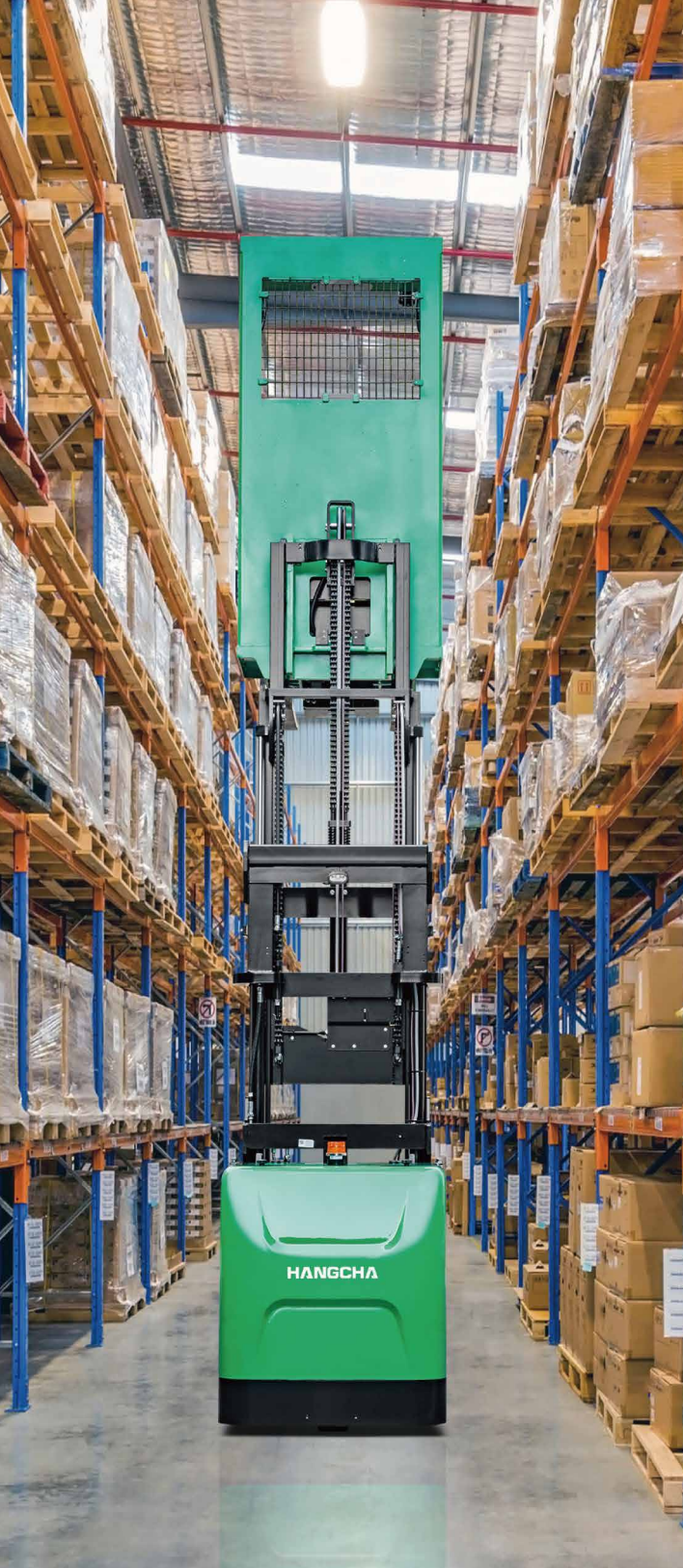


## A SERIES ELECTRIC LITHIUM-ION NARROW AISLE HIGH LEVEL ORDER PICKER

Your reliable and powerful material handling partner.

The A Series Electric Lithium-ion Narrow Aisle High Level Order Picker is a new logistics handling device developed by Hangcha Group for the high-intensity operating conditions of the North American market. With AC drive technology, it offers excellent performance and low maintenance costs. It is also safe, reliable, stable, and can be easily operated. This is ideal for stock picking in low and medium level stereoscopic warehouses of 20' in height or lower.





# EVERY JOB IS IN YOUR REACH

## HIGH PERFORMANCE

- The order picker can reach a maximum laden driving speed of 7.5mph. This enables the operator to work efficiently.
- The AC drive motor offers excellent acceleration, good climbing performance, & low heat generation. In addition, it is maintenance-free thanks to the motor not having carbon brushes.
- The advanced CURTIS AC control system provides precise, smooth, and efficient control of the order picker.
- The CANBUS communication structure allows for each of the order picker's systems to communicate faster and more reliably.

 **7.5** mph  
Travel Speed  
(laden)

 **14** in/s  
Lift Speed  
(laden)

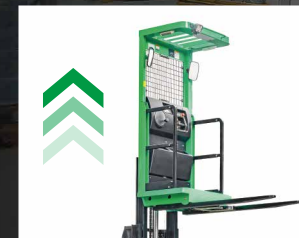
## RELIABILITY

- The frame is made of high-strength steel. This creates a robust and durable product that is able to successfully take on the wear and tear of a warehouse environment.
- All wires and cables are reliably protected to ensure the reliability of the electrical system.



## DECELERATION CUSHIONING SYSTEM

The operator compartment has a cushioning speed reduction function when being raised to the top and lowered to the bottom. This prevents harsh impacts and improves comfort.



## COMFORT

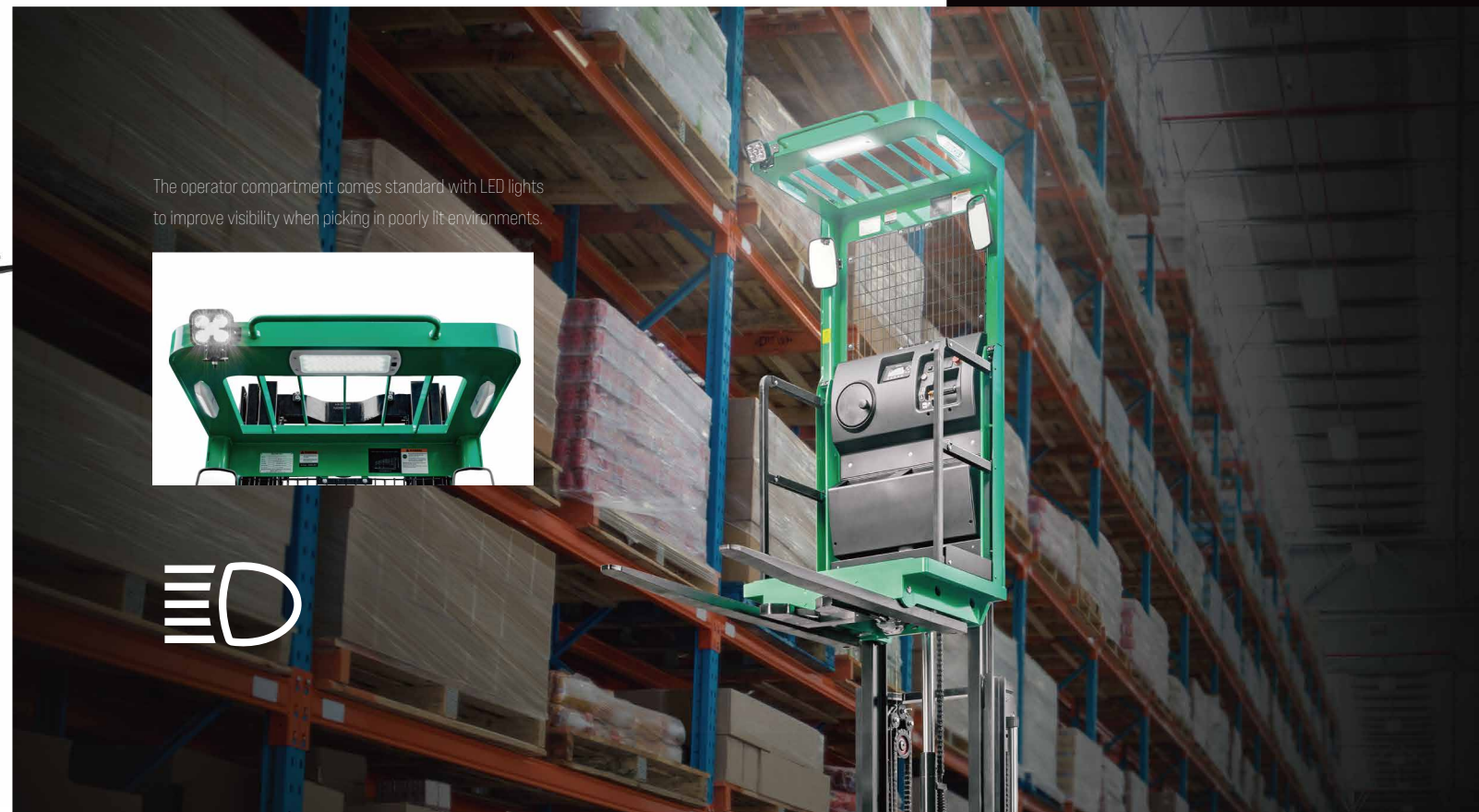
- The operator compartment is lifted and dropped at a proportionately adjusted speed with accurate control.
- The large multifunctional instrument display has many functions including speed selection, wheel display, etc. In addition, it clearly displays various information about the order picker's various systems.



The multi-layer damping pedal pad improves the operator's comfort level and reduces their fatigue.

## Designed for Narrow Aisle Environments

The 40" width of the order picker makes it perfect for narrow aisle order picking environments.

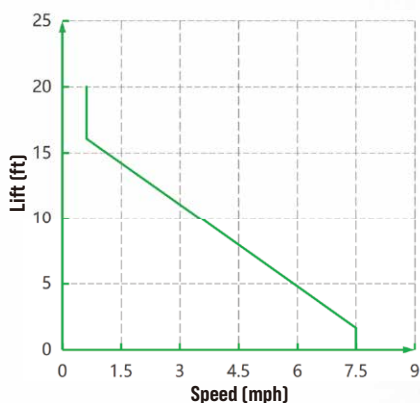


The operator compartment comes standard with LED lights to improve visibility when picking in poorly lit environments.





# PROTECT YOUR INVESTMENT



## INTELLIGENT DRIVING DECELERATION SYSTEM

**The travel speed is directly related to the lifting height.**

The higher the lifting height, the lower the travel speed and the smaller the acceleration.

The function of proportional speed reduction in corners is equipped as standard to ensure smooth and safe turning of the order picker.



## MAINTENANCE

- The AC motor has no carbon brush. This means that it decreases maintenance costs by being maintenance-free.
- The integrated display, timing and fault self-diagnosis meter is convenient for maintenance.
- The rear hood can be easily removed for easy maintenance of hydraulic unit, electronic control, motor and other parts.



## SAFETY



There are safety guardrails on the left and right sides of the operator compartment. The guardrails are equipped with detection switches to prevent operation when the guardrails aren't down in their locked position.



The mast chain is equipped with a chain that is 10 times stronger and features a safety switch.



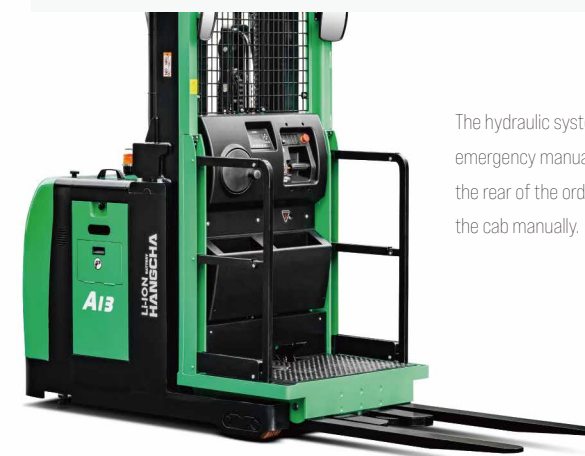
Operators must step on the safety pedal to move the order picker. This is designed to increase safety when operating the order picker.



The order picker features a pallet lock on the forks to prevent a pallet from following. Hangcha also offers an optional double-clamp pallet lock which is suitable for different pallet types.

**The tilt switch is equipped standard.**

When the order picker is tilted to a certain angle, forward, backward, or to the left or right, it stops working. The cabin must be lowered to a certain height to continue working.



The hydraulic system has an emergency manual lowering valve at the rear of the order picker to lower the cab manually.



Technical Data

Distinguishing Marks	1.1	Manufacturer (abbreviation)		HANGCHA GROUP CO.,LTD.
		HCFA Model Designation		OPHTS13Li
	1.2	Manufacturer's Type Designition		CJD13-AC4-HNAZT1
	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		Electric
	1.4	Operator Type: hand, pedestrian, standing, seated, order picker		Order Picker
	1.5	Rated Capacity/Rated Load	Q (lb/kg)	3000/1360
	1.6	Load Centre Distance	c (in/mm)	24/600
	1.8	Load Distance, centre of drive axle to fork	x (in/mm)	8.5/216
	1.9	Wheelbase	y (in/mm)	56.8/1442
Weight	2.1	Service Weight	(lb)/(kg)	See Table 1
Tires & Chassis	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane
	3.2	Tire Size, front	Φin/mm×in/mm	Ø13.5×5.5 Ø343×140
	3.3	Tire Size, rear	Φin/mm×in/mm	*Ø6×4 Ø152.4×100"
	3.5	Wheels, number front/rear (× = driven wheels)		1×, /4
Dimensions	4.2	Height, mast lowered	h1 (in/mm)	See Table 1
	4.4	Lift	h3 (in/mm)	See Table 1
	4.5	Height, mast extended	h4 (in/mm)	See Table 1
	4.7	Height of Overhead Guard (cabin)	h6 (in/mm)	90.9/2310
	4.8	Seat Height relating to SIP/Stand Height	h7 (in/mm)	10/254
	4.14	Stand Height, elevated	h12 (in/mm)	See Table 1
	4.15	Height, lowered	h13 (in/mm)	3/75
	4.19	Overall Length	l1(in/mm)	120.4/3058
	4.20	Length to Face of Forks	l2(in/mm)	78.3/1988
	4.21	Overall Width	b1/b2(in/mm)	40/40 1015/1015
	4.22	Fork Dimensions DIN ISO 2331	s/e/l (in/mm)	2/4/42 50/100/1070
	4.25	Fork Spread	b5(in/mm)	28/710
Performance Data	4.32	Ground Clearance, centre of wheelbase	m2(in/mm)	2/50
	4.35	Turning Radius	Wa(in/mm)	67.7/1720
	5.1	Travel Speed, laden/unladen	mph km/h	See Table 2
	5.2	Lift Speed, laden/unladen	fpm mm/s	69/94.5 350/480
	5.3	Lowering Speed, laden/unladen	fpm mm/s	92.5/70.9 470/360
	5.8	Max. Gradeability, laden/unladen	%	5/5
	5.10	Service Brake		Regenerative Braking
Electric Motor	b)	Parking Brake		Electromagnetic Braking
	6.1	Drive Motor Rating S2 60 min	hp/kW	8.6/6.4
	6.2	Lift Motor Rating at S3 15 %	hp/kW	17.2/12.8
		Battery Voltage/Nominal Capacity	V/Ah	36/684
		Battery Weight	lb/kg	639.3/290

Table 1

					OPHTS13Li
	Lift	Height, Mast Lowered	Height, Mast Extended	Stand Height, Elevated	Service Weight (without battery)
	h3(in/mm)	h1(in/mm)	h4(in/mm)	h12(in/mm)	lb/kg
N5000	197/5000	92.7/2355	287.8/7310	206.7/5250	7176/3255
N5350	210.6/5350	97.2/2470	301.6/7660	220.5/5600	7231/3280
N6100	240/6100	107/2720	331.1/8410	250/6350	7352/3335

Table 2

CJD13-AC4-HNAZT1	
Lift Height h3 in (mm)	Travel Speed, laden/unladen mph(km/h)
0-20 (0-500)	7.5 (12)
20-193 (500-4900)	7.5-0.62 (12-1)
193-240 (4900-6100)	0.62 (1)

Features

Truck	Standard Features	Options
AC Drive Motor	●	
Ground Strap	●	
Pallet Lock (single-clamp)	●	
Pallet Lock (double-clamp)		○
Various Mast Heights		○
Side Roller		○
Wire Guidance		○
Operator Compartment		
Easy-to-Operate Controls	●	
Key switch	●	
Large Multifunctional Color Instrument Display	●	
Rearview Mirrors	●	
Storage Compartment	●	
Controls and Instruments		
AC Drive Motor Controller	●	
Automatic Speed Reduction when Cornering	●	
Safety Chain Switch	●	
Emergency Shut-Off Switch	●	
Tilt Switch	●	
Safety		
Left and Right Guard Rail	●	
Guard Rail Safety Switch	●	
Horn	●	
Safety Pedal	●	
Electromagnetic Brake	●	
Light		
LED Operator Compartment Lights	●	
Strobe Light	●	
Blue Light		○
Operation Light		○

