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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.



A SERIES

ELECTRIC LITHIUM-ION NARROW
AISLE ORDER PICKER

With capacity of 3,000lbs

LI-ION POWERED

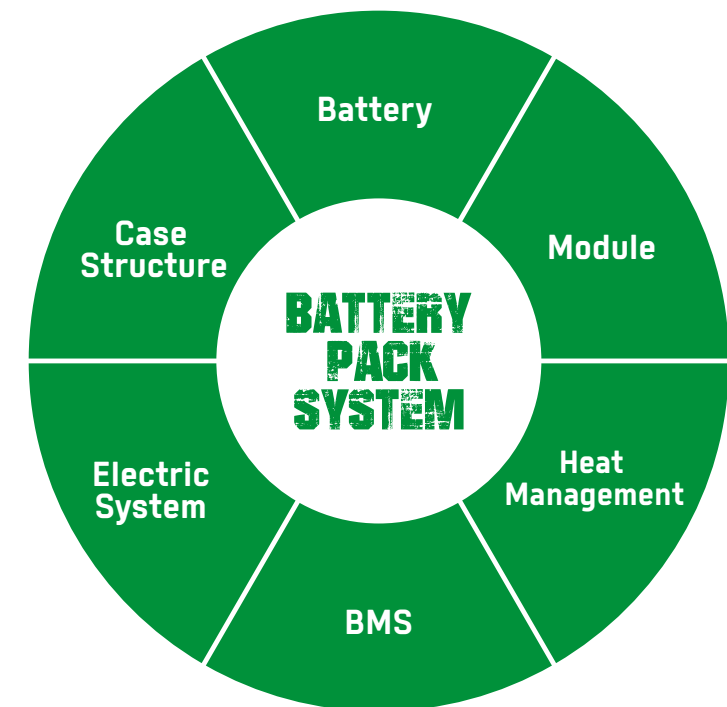


HANGCHA provides Li-ion battery (LiFePO₄) with 6 years or 12000 hours warranty.

**6 YEARS
WARRANTY**

INNOVATIVE SOLUTIONS NEW POWER NOW

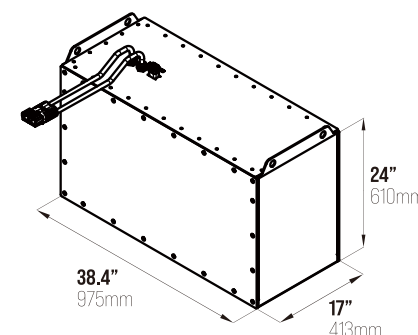
- / **Battery Technology:** We use square lithium iron phosphate cells. These are the same type of cells used in new electric vehicles.
- / **Design:** The module uses a sturdy and lightweight aluminum alloy frame. It is also designed to provide excellent heat dissipation.
- / **Safe and Effective:** 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 75%.
- / **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.



CATL Lithium Iron Phosphate Battery Packs

- / 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 NARROW HIGH-POSITION STOCKPICKERS

Your reliable and powerful material handling partner.

The A Series Electric Lithium-ion Narrow Aisle 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 240' 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.



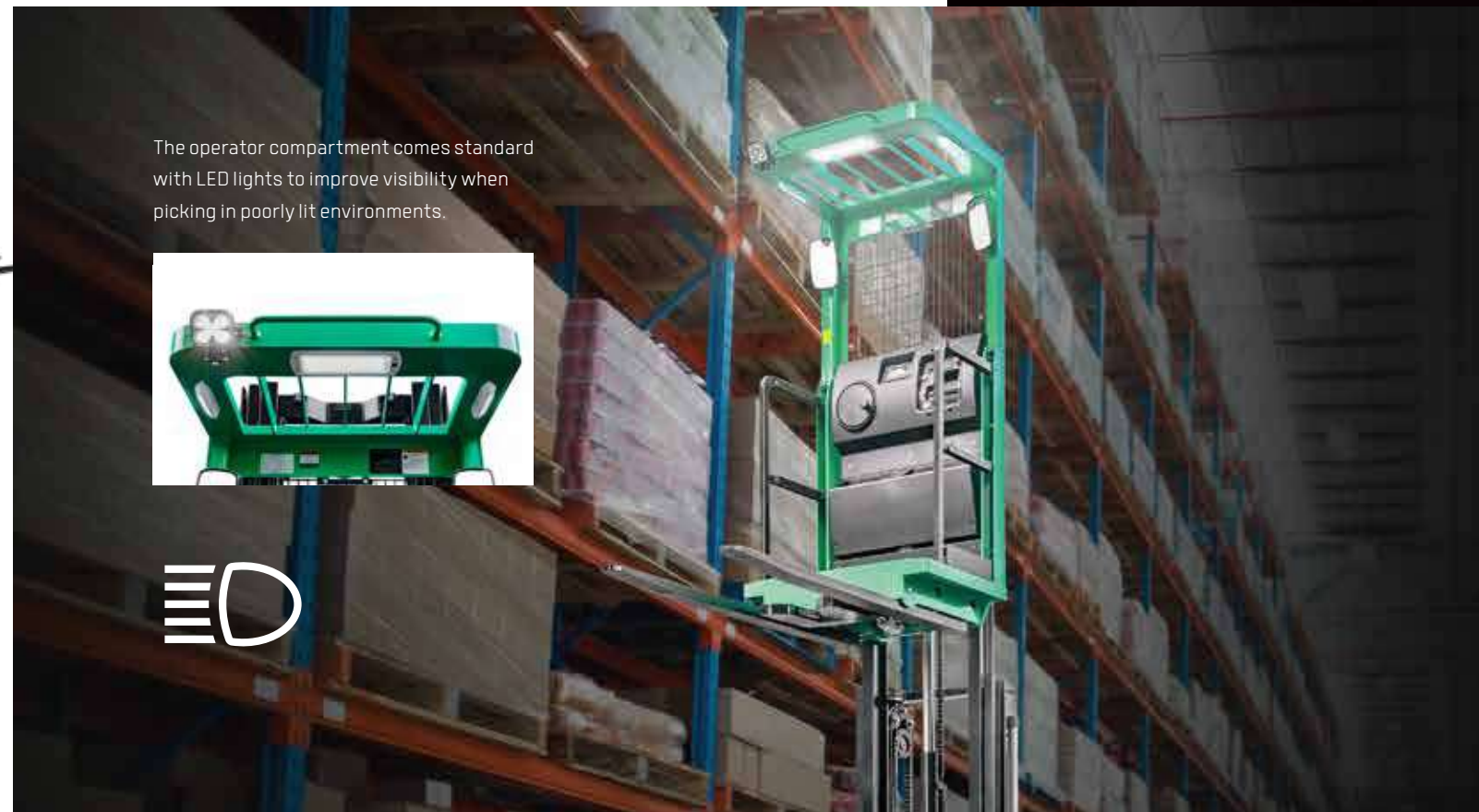
The multi-layer damping pedal pad can improve the operator's comfort level and reduce the fatigue.



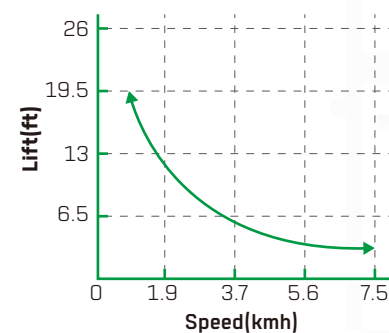
Designed for Narrow Aisle Environments

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 Speed (mph) 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 safety switch and is 10 times stronger.



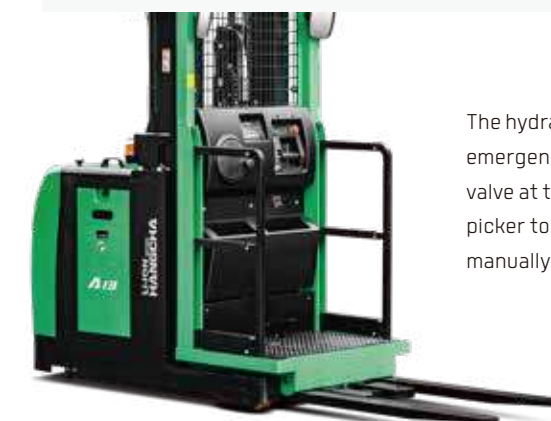
Operators must step on the safety pedal to move the order picker. This is designed to increase safety when operating the order picker.



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 as standard.

When the vehicle 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.

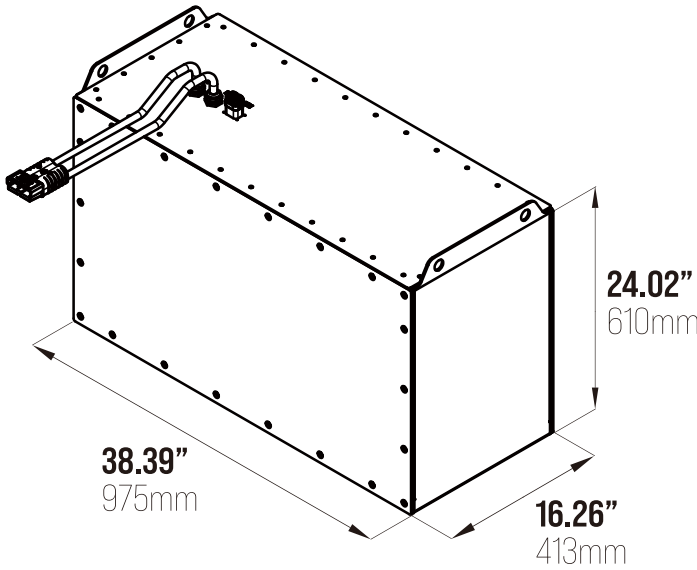


The hydraulic system has an emergency manual lowering valve at the rear of the order picker to lower the cab manually.

Technical data

Distinguishing mark	1.1	Manufacturer [abbreviation]		HANGCHA GROUP CO.,LTD.	
	1.2	Manufacturer's type designation		CJD13-AC4-HNAZT	CJD13-AC4-HNAZTI
	1.5	Rated capacity/ rated load	Q [lb/kg]	3000/1360	3000/1360
	1.6	Load centre distance	c [in/mm]	24/600	24/600
	1.8	Load distance, centre of drive axle to fork	x [in/mm]	8.5/216	8.5/216
	1.9	Wheelbase	y [in/mm]	56.8/1442	56.8/1442
Weight	2.1	Service weight	(lb)/(kg)	See table 1	See table 1
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	/	PU	PU
	3.2	Tyre size, front	in/mm	Ø13.5-5.5/Ø343-140	Ø13.5-5.5/Ø343-140
	3.3	Tyre size, rear	in/mm	Ø6-3.5/Ø150-90	Ø6-3.5/Ø150-90
	3.5	Wheels, number front/rear (* = driven wheels)	/	1x/4	1x/4
Dimensions	4.2	Height, mast lowered	h1 [in/mm]	See table 1	See table 1
	4.4	Lift	h3 [in/mm]	See table 1	See table 1
	4.5	Height, mast extended	h4 [in/mm]	See table 1	See table 1
	4.7	Height of overhead guard (cabin)	h6 [in/mm]	90.6/2300	90.6/2300
	4.11	Additional lift	h9 [in/mm]	/	/
	4.15	Height, lowered	h13 [in/mm]	3/75	3/75
	4.19	Overall length	l1 [in/mm]	120.4/3058	120.4/3058
	4.2	Length to face of forks	l2 [in/mm]	78.3/1988	78.3/1988
	4.21	Overall width	b1/b2 [in/mm]	(40/40)/(1015/1015)	(40/40)/(1015/1015)
	4.22	Fork dimensions DIN ISO 2331	s/e/l [in/mm]	(2/4/42)/(50/100/1070)	(2/4/42)/(50/100/1070)
	4.32	Ground clearance, centre of wheelbase	m2 [in/mm]	2/50	2/50
	4.35	Turning radius	Wa [in/mm]	67.6/1716	67.6/1716
Performance data	5.1	Travel speed, Max, laden/unladen	[mph]/[km/h]	7.5/12	7.5/12
	5.2	Lift speed, laden/unladen	[fpm]/[mm/s]	(69/94.5)/(350/480)	(69/94.5)/(350/480)
	5.3	Lowering speed, lade/unladen	[fpm]/[mm/s]	(71/92.5)/(360/470)	(71/92.5)/(360/470)
	5.1	Service brake	/	Regenerative	Regenerative
		Parking brake	/	Electromagnetic	Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 min	hp/kW	8.6/6.4	8.6/6.4
	6.2	Lift motor rating at S3 15 %	hp/kW	17.2/12.8	17.2/12.8
	6.4	Battery voltage/nominal capacity	[V]/[Ah]orkWh	36/775	36/684

				CJD13-AC4-HNAZT	CJD13-AC4-HNAZTI
	lift	Height, mast lowered	Height, mast extended	Service weight(without battery)	Service weight(without battery)
	h3[in/mm]	h1[in/mm]	h4[in/mm]	lb/kg	lb/kg
N5000	197/5000	92.7/2355	285.4/7250	5864/2660	7161/3248
N5350	210.6/5350	97.2/2470	299.2/7600	5922/2686	7218/3274
N6100	240.2/6100	107/2720	328.7/8350	6045/2742	7341/3330



Features

Truck	Standard	Options
AC drive motor	●	
Electrostatic belt	●	
Pallet lock (single-clamp)	●	
Pallet lock (double-clamp)		○
The lifting height of the mast is 5.3m or 6.1m.		○
Side roller		○
Reflective mirror	●	
Storage box	●	
Controls and instruments		
AC drive motor controller	●	
Automatic speed reduction in corners	●	
Chain switch	●	
Emergency shut-off switch	●	
Tilt switch	●	
Acceleration tiller	●	
Key switch	●	
Multifunctional large color-screen instruments	●	
Safety		
Guard rail switch	●	
Horn	●	
Safety pedal	●	
Left and right guard rail	●	
Electromagnetic brake	●	
Light		
LED ceiling light	●	
LED side light	●	
Alarm light	●	
Blue light		○
Operation light		○

