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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 High Level Order Picker

with capacities of 3,000lbs

HANGCHA Lithium-ion
Re-imagining **POWER**



Making Material Handling Easier
SINCE 1956



LET THE LITHIUM POWER BE REVEALED



HANGCHA PROVIDES UP TO A
7 YEAR OR 15,000 HOUR GUARANTEE
ON THE LITHIUM-ION BATTERY PACKS.

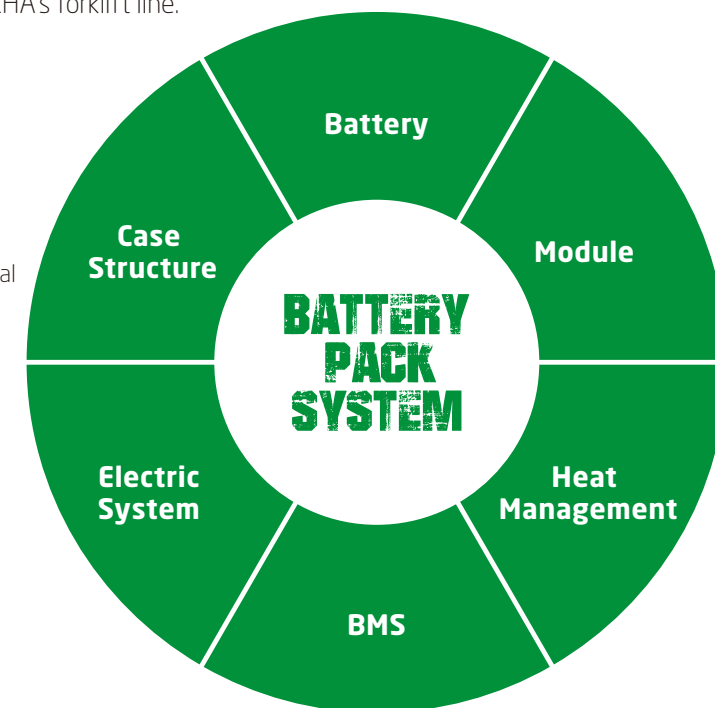


**7 YEAR
WARRANTY**

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.
- / **Quick Charging:** Fully charges in 2.5 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
**2.5 Hours
100%**

Using Dual Charger Function

Li-Ion
**4.5 Hours
100%**

Standard Charger

Lead Acid Battery
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 2.5 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.



**Standard Charger
(36V/200A)**



A Series Electric Lithium-ion 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 the perfect choice for stock picking in a stereoscopic warehouse of 275.5"-366" in height.

Appearance

- / The A Series Electric High Level Order Picker has a smooth vivid profile and was designed to be ergonomic. The exterior of this forklift is powder coated in a durable, easy to see, green finish that designates it as a lithium-ion powered order picker.
- / This pallet truck uses stamped steel plates and injection molded parts. This creates a robust and durable product that is able to successfully take on the wear and tear of a warehouse environment.

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.

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.



The A Series Order Picker provides operators with an unobstructed view contributing to an increase in the operator's confidence at height.



Fully variable lift and lower speeds provide precise control.



The 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.



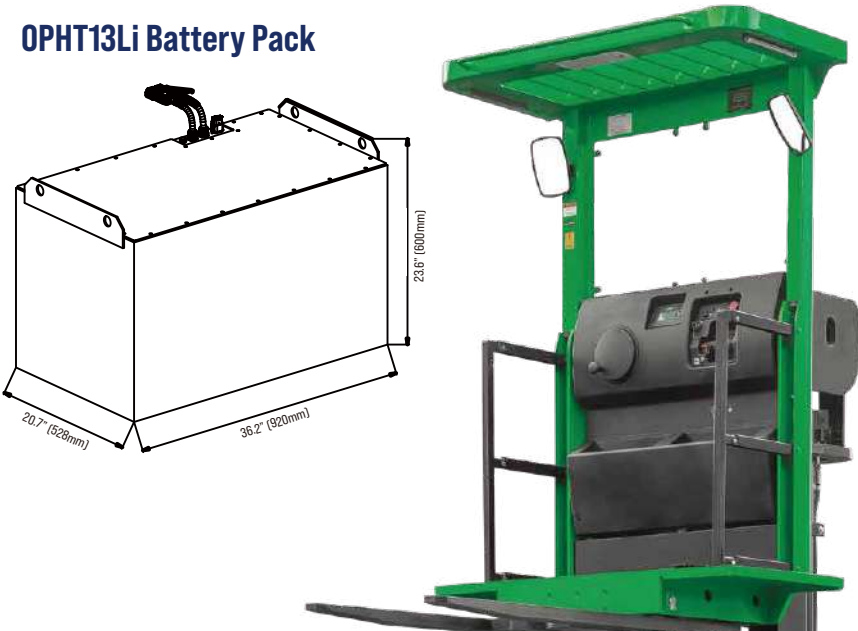
The manual-locking pallet clamp works on a wide range of pallets. It also accommodates pallet stringers ranging from 1" to 2" so operators can safely handle any pallet.

Lithium Iron Phosphate Battery Pack

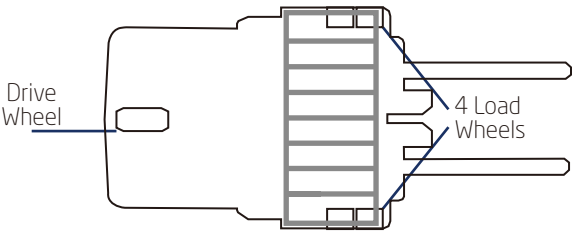
- / Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.
- / HANGCHA provides these Lithium Iron Phosphate (LiFePO₄) battery packs with up to a 7 year or 15,000 hour warranty.
- / See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.

Standard Battery Capacity	
Model	0PHT13Li
Battery Capacity (V/Ah) (kW-h)	36V/906Ah 32.62kW-h

0PHT13Li Battery Pack



Three-Wheel Layout

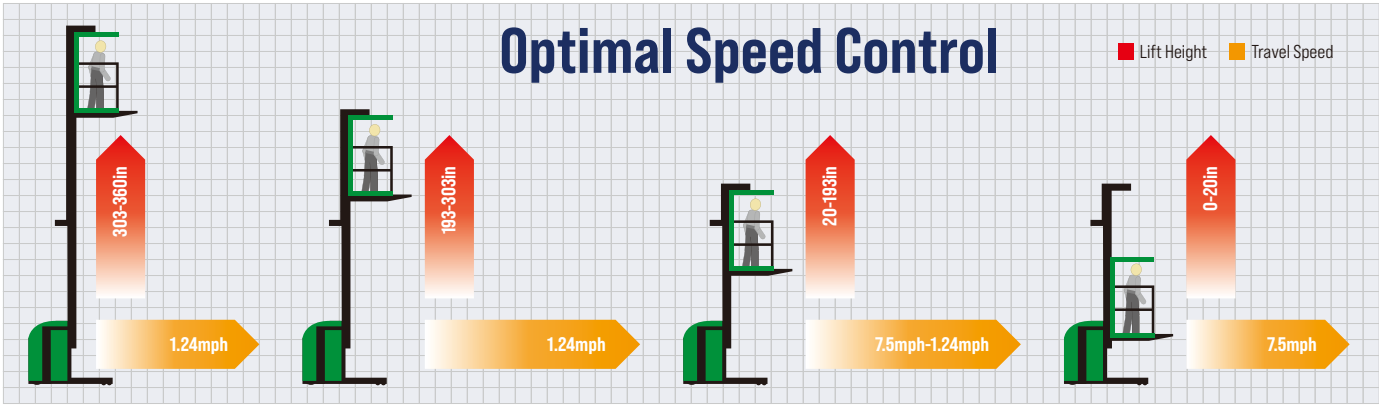


Standard Specification

- / 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
- / 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

Options

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



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.

A Series Lithium-ion Electric High Level Order Picker Specification

Distinguishing Marks	Manufacturer		HANGCHA GROUP CO.,LTD.
	HCFA Model		0PHT13Li
	Model		CJD13-AC4-HNAI
	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
	Load distance, centre of drive axle to fork	x (in/mm)	7.8/199
	Wheelbase	y (in/mm)	61.3/1556
Weight	Service Weight(without battery)	lb/kg	See Table 1
Tires & Chassis	Tires: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane
	Tire size, front	Φin/mm×in/mm	Ø13.5×5.5 Ø343×140
	Tire size, rear	Φin/mm×in/mm	"06×4 Ø152.4×100"
	Wheels, number front/rear (× = driven wheels)		1x./4
Dimensions	Height, mast lowered	h1 (in/mm)	See Table 1
	Lift	h3 (in/mm)	See Table 1
	Height, mast extended	h4 (in/mm)	See Table 1
	Height of Overhead Guard (cabin)	h6 (in/mm)	92.3/2345
	Seat height relating to SIP/Stand Height	h7 (in/mm)	10/253
	Stand Height, elevated	h12 (in/mm)	See Table 1
	Height, lowered	h13 (in/mm)	3/75
	Overall Length	l1 (in/mm)	130.1/3305
	Length to Face of Forks	l2 (in/mm)	82/2085
	Overall Width	b1/b2 (in/mm)	See Table 1
	Fork Dimensions DIN ISO 2331	s / e / l (in/mm)	2/4/48 50/100/1220
	Fork Spread	b5 (in/mm)	24 ~ 30/610 ~ 760
Performance Data	Ground Clearance, centre of wheelbase	m2 (in/mm)	2/50
	Turning Radius	Wa (in/mm)	71.9/1827
	Travel Speed, laden/unladen	mph km/h	See Table 2
	Lift Speed, laden/unladen	fpm mm/s	69/94.5 350/480
	Lowering Speed,laden/unladen	fpm mm/s	92.5/70.9 470/360
	Maximum Gradeability, laden/unladen	%	5/10
	Service Brake		Regenerative Braking
Electric Motor	Parking Brake		Electromagnetic Braking
	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	(V)/(Ah)	36/906
	Battery Weight	lb/kg	749.6/340

Table 1

	Lift	Height, mast lowered	Height, mast extended	Stand Height, elevated	Service Weight (without battery)		Overall Width
					0PHT13		0PHT13
	h ₃ in(mm)	h ₁ in(mm)	h ₄ in(mm)	h ₁₂ in(mm)	lb(kg)		b ₁ /b ₂ in(mm)
N5000	197/5000	92.7/2355	286/7270	203.7/5275	7961/3611		40/48(1015/1220)
N6100	240/6100	107.1/2720	329.5/8370	247/6275	8215/3726		40/48(1015/1220)
N7000	275.5/7000	118.9/3020	365/9270	282.4/7175	8437/3827		40/54(1015/1370)
N8000	315/8000	132/3355	404.3/10270	321.8/8175	8666/3931		40/54(1015/1370)
N9300	366/9300	154.9/3935	455.5/11570	373/9475	9057/4108		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)



