



# A series Medium Level Order Picker

with capacities of 1,000kg



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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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*The World of Hangcha*

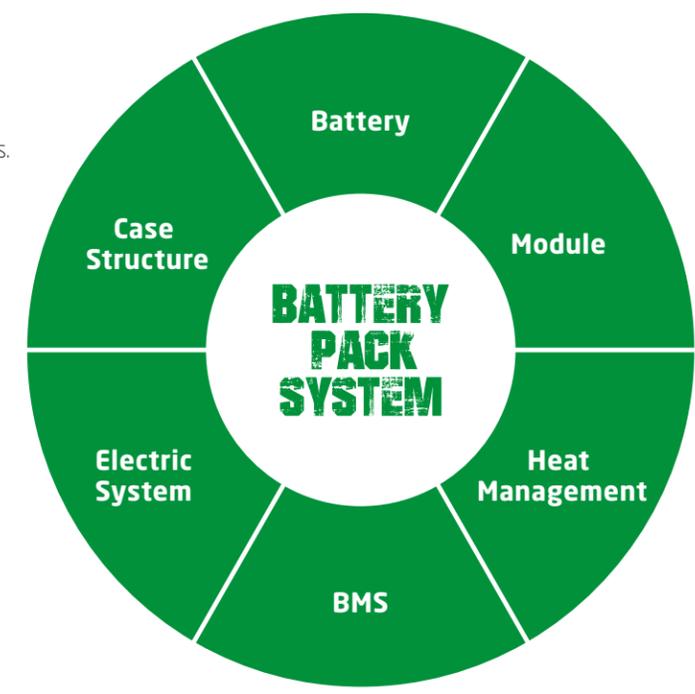


# LET THE LITHIUM POWER TAKE OVER



# INNOVATIVE SOLUTIONS NEW POWER NOW

- / We use square lithium iron phosphate batteries and modules used in large quantities by commercial vehicles in mature economies.
- / The module uses an aluminum alloy frame which is sturdy, lightweight and with excellent heat dissipation.
- / Safe and effective: Charging efficiency as high as 98%, thermal runaway temperature 600 °C or above.
- / Adapted to low temperatures: Comes standard with an electrical heating feature, ensuring normal operation in low temperatures.
- / Quick charging: 2 hours full charge, economic use of each break.
- / Long-working: 4000 charging cycles, capacity retention greater than 75%.
- / Maintenance-free: Battery does not require manual maintenance.
- / Green and clean: Pollution-free, zero emissions.



Li-Ion  
**2 hours**  
**100%**

Lead-acid batteries  
**8-10 hours** 100%

**Rapid charging and opportunity charging ensure continuous availability of vehicles.**

Li-Ion powered forklifts are always available. They allow for fast full charging or boost charging (100 % charge in 2 hours). They are maintenance free and do not require a battery change when used for multi-shift operations.

### Li-Ion Battery Pack specification

Type		CJD10-AC3-M1I*	CJD10-AC3-M1KI*	CJD10-AC4-M2I*	CJD10-AC4-M2KI*
Li-Ion battery	V/Ah	24/604	24/604	24/604	24/604
Titans charger		SPC-24100Q	SPC-24100Q	SPC-24100Q	SPC-24100Q

Note: \* CE model



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

**6 YEARS**  
**WARRANTY**



## A series Medium Level Order Picker

The A series medium level order picker is a type of high-end truck of warehouse equipment.

The truck features complete safety protection system, excellent ergonomic design, and cutting-edge control system. With reliability, stability, comfort, safety, and excellent performance, it is suitable for order picking operations for low and medium-level automatic storage & retrieval system with height below 5m.

### Move freely, Lift freely

#### High Performance

- / Maximum full-load travel speed can reach 9km/h, which increases efficiency substantially.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The cutting-edge CURTIS AC control system realizes accurate and stable control, and higher efficiency.
- / The CANBUS structure makes communication of the entire truck faster and more reliable.





## Standard Specification

- / AC driving motor
- / CURTIS controller
- / Free accelerator lever (with sensor switch)
- / Automatic deceleration at turns
- / CURTIS instrument
- / Chain switch
- / Side barriers switch
- / Rear-view mirror
- / LED lamp
- / Emergency power off switch
- / Alarm light
- / Horn
- / Safety pedal
- / Tilt angle detection system
- / Side barriers
- / File folder
- / Back cushion
- / Cup holder
- / Electrostatic belt
- / Electromagnetic brake
- / Battery side roll out

## Safety

- / The tilt angle detection system, as standard configuration, makes the truck stop operation when it tilts forward / backward or left / right to certain angle, and the operation may not be resumed until the cab is lowered to the level below certain height.
- / Side barriers with detecting switch are provided at both left and right sides, and the truck works only when such side barriers are lowered to positions.
- / Mast chain of 10 times of safety factor is provided, including chain safety switch.
- / Travel speed and lifting speed are interlinked, with lower travel speed as lifting height increases, also with lower acceleration.
- / The proportional deceleration function at turns, as standard configuration, guarantees stability and safety when the truck turns.
- / The safety pedal of standard configuration must be treaded down to enable other operations, so as to increase safety.
- / The hydraulic system has an emergency manual lowering valve, which can be operated at rear of the truck to lower the cab.

## Maintenance

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.

## Comfort

- / Buffering and deceleration functions of the mast when it rises / descends to the top / bottom can avoid impact and thus increase comfort.
- / Rising / descending speed of both the cab and fork can be regulated in proportion to control accuracy.
- / LED cab top lamp and side lamp, as standard configuration, feature attractive appearance and bright illumination, and are helpful for order picking operations in space with poor lighting.
- / The CURTIS multi-functional instrument, as standard configuration, has multiple functions including speed selection and wheel position display, and can clearly display various types of information about the truck.
- / With a sub-operation system, rising / descending of the cab and fork can be manipulated to facilitate order picking operations.

## Reliability

- / The high-strength steel plate framed structure of chassis features a long service life.
- / All wires and cables have reliable protection, which increases reliability of electrical system significantly.
- / Switches, plug connectors, meters, and other important parts are all imported from abroad, with excellent performance and reliable quality.



Order picker works only when the side barriers are all lowered



The FREE accelerator lever with sensor switch, as standard configuration, can prevent mis-operation during the work



The rear hood can be removed easily to facilitate maintenance work on parts such as hydraulic unit, electronic control system and the motor



LED top lamp can provide bright operating environment



Battery side roll out



Better vision for operation

## A Series Medium Level Order Picker

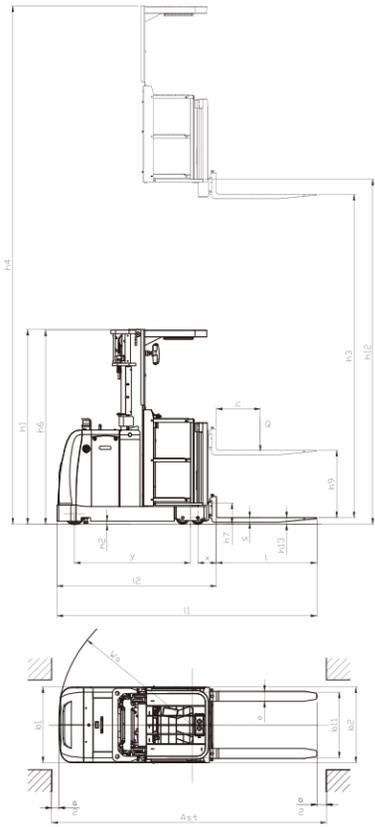
			HANGCHA GROUP CO.,LTD.									
			CJD10-AC3-M1*	CJD10-AC3-M1K*	CJD10-AC3-M1I*	CJD10-AC3-M1KI*	CJD10-AC4-M2*	CJD10-AC4-M2I*	CJD10-AC4-M2K*	CJD10-AC4-M2KI*		
Distinguishing mark	1.1	Manufacturer (abbreviation)										
	1.2	Manufacturer's type designation										
	1.3	Drive: electric		Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
	1.4	Operator type		Order-picker	Order-picker	Order-picker	Order-picker	Order-picker	Order-picker	Order-picker	Order-picker	Order-picker
	1.5	Rated capacity/rated load	Q (kg)	1000	1000	1000	1000	1000	1000	1000	1000	1000
	1.6	Load centre distance	c (mm)	600	600	600	600	600	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	225	225	225	225	225	225	225	225	225
	1.9	Wheelbase	y (mm)	1385	1385	1385	1385	1385	1385	1385	1385	1385
Weight	2.1	Service weight (incl.battery)	kg	2516	2336	2516	2336	2805	2625	2805	2625	2625
		Service weight (without battery)	kg	2031	1851	2346	2166	2255	1976	2635	2455	2455
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU	PU	PU	PU	PU	PU
	3.2	Tyre size, front	mm	Ø250×100	Ø250×100	Ø250×100	Ø250×100	Ø250×100	Ø250×100	Ø250×100	Ø250×100	Ø250×100
	3.3	Tyre size, rear	mm	Ø152.4×76.2	Ø152.4×76.2	Ø152.4×76.2	Ø152.4×76.2	Ø152.4×76.2	Ø152.4×76.2	Ø152.4×76.2	Ø152.4×76.2	Ø152.4×76.2
	3.5	Wheels, number front/rear (* = driven wheels)		1x/4	1x/4	1x/4	1x/4	1x/4	1x/4	1x/4	1x/4	1x/4
	3.7	Tread, rear	b <sub>11</sub> (mm)	780	780	780	780	880	880	880	880	880
Dimensions	4.2	Height, mast lowered	h <sub>1</sub> (mm)	2310	2310	2310	2310	3060	3060	3060	3060	3060
	4.4	Lift	h <sub>3</sub> (mm)	3000	3000	3000	3000	4500	4500	4500	4500	4500
	4.5	Height, mast extended	h <sub>4</sub> (mm)	5310	5310	5310	5310	7560	7560	7560	7560	7560
	4.7	Height of overhead guard (cabin)	h <sub>6</sub> (mm)	2300	2300	2300	2300	2300	2300	2300	2300	2300
	4.8	Seat height relating to SIP/stand height	h <sub>7</sub> (mm)	252	252	252	252	252	252	252	252	252
	4.11	Additional lift	h <sub>9</sub> (mm)	800	/	800	/	800	/	800	/	/
	4.14	Stand height, elevated	h <sub>12</sub> (mm)	3252	3252	3252	3252	4752	4752	4752	4752	4752
	4.19	Overall length	l <sub>1</sub> (mm)	3110	3110	3110	3110	3110	3110	3110	3110	3110
	4.20	Length to face of forks	l <sub>2</sub> (mm)	1910	1910	1910	1910	1910	1910	1910	1910	1910
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub> (mm)	900/900	900/900	900/900	900/900	900/1000	900/1000	900/1000	900/1000	900/1000
	4.22	Fork dimensions DIN ISO 2331	s / e / l (mm)	55/122/1200	55/100/1200	55/122/1200	55/100/1200	55/122/1200	55/100/1200	55/122/1200	55/100/1200	55/100/1200
	4.25	Fork spread	b <sub>5</sub> (mm)	/	540	/	540	/	540	/	540	540
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	35	35	35	35	35	35	35	35	35
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	A <sub>st</sub> (mm)	3235	3235	3235	3235	3235	3235	3235	3235	3235
	4.35	Turning radius	W <sub>a</sub> (mm)	1610	1610	1610	1610	1610	1610	1610	1610	1610
Performance Data	5.1	Travel speed, laden/unladen	km/h	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9	9/9
	5.2	Lift speed, laden/unladen	mm/s	115/150	115/150	115/150	115/150	200/260	200/260	200/260	200/260	200/260
	5.3	Lowering speed, lade/unladen	mm/s	230/225	230/225	230/225	230/225	320/300	320/300	320/300	320/300	320/300
	5.8	Max. gradeability, laden/unladen	%	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10
	5.10	Service brake		Regenerative	Regenerative	Regenerative	Regenerative	Regenerative	Regenerative	Regenerative	Regenerative	Regenerative
Electric engine	6.1	Drive motor rating S2 60 min	kW	3	3	3	3	3	3	3	3	3
	6.2	Lift motor rating at S3 15 %	kW	3.2	3.2	3.2	3.2	6.4	6.4	6.4	6.4	6.4
	6.4	Battery voltage/nominal capacity K5	V/Ah	24/625	24/625	/	/	24/700	24/700	/	/	/
		Battery voltage/nominal capacity	V/Ah	/	/	24/604	24/604	/	/	24/604	24/604	24/604
		Battery weight	kg	485	485	170	170	550	550	170	170	170

Note : ★ CE model

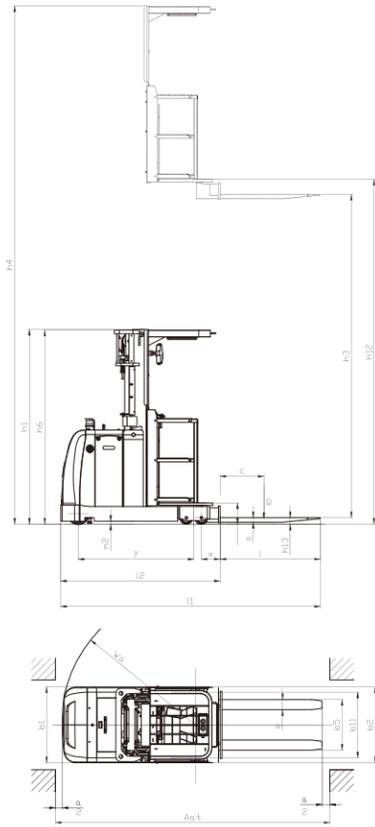
## Mast Specification

Type	Model	Lift h <sub>3</sub> (mm)	Lowered overall height h <sub>1</sub> (mm)	Extended mast height h <sub>4</sub> (mm)	Stand height h <sub>12</sub> (mm)	Service weight (Excluding battery)							
						kg							
						CJD10-AC1/C3-M1	CJD10-AC1/C3-M1K	CJD10-AC1/C3-M1I	CJD10-AC1/C3-M1KI	CJD10-AC2/C4-M2	CJD10-AC2/C4-M2I	CJD10-AC2/C4-M2K	CJD10-AC2/C4-M2KI
Duplex mast	M3000	3000	2310	5310	3252	2031	1851	2346	2166	/	/	/	/
	M4500	4500	3060	7560	4752	/	/	/	/	2255	1976	2635	2455
Triplex mast	N4500	4500	2310	6810	4752	/	/	/	/	2460	2181	2840	2660
	N5000	5000	2460	7460	5252	/	/	/	/	2500	2221	2880	2700

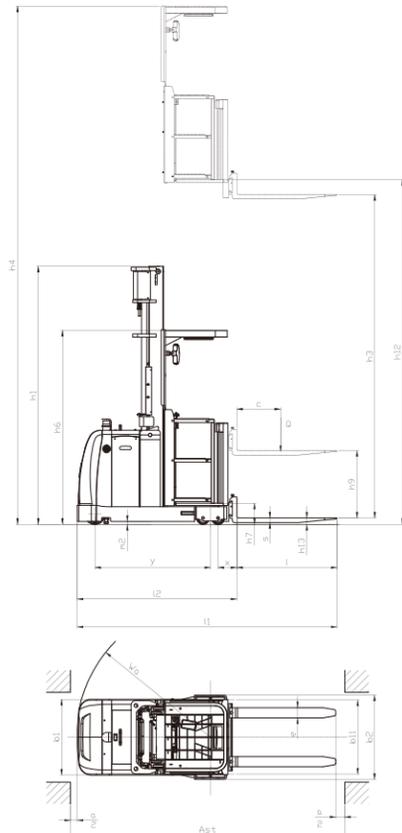
CJD10-AC1/C3-M1(I)



CJD10-AC1/C3-M1K(I)



CJD10-AC2/C4-M2(I)



CJD10-AC2/C4-M2K(I)

