Features

Truck	Standard	Options
48V permanent magnet synchronous drive motor	•	
Hydraulic power unit	•	
PU wheel	•	
1150mm fork length	•	
570mm outside fork width	•	
Overhead guard	•	
Lifting damping system	•	
Multi-function tiller	•	
48V/80Ah lithium battery (EVE)	•	
Additional wheels	•	
Dual load wheels	•	
USB power supply	•	
Fork lift & lower adopts stepless speed regulating	•	
Different length of forks		0
Different width of outside fork		0
Different lift height (see mast table)		0
Key switch		0
48V/105Ah lithium battery (EVE)		0
48V/125Ah lithium battery (CATL)		0
Load backrest		0
Lithium battery(48V/80Ah,EVE) with the on-board charger(48V,20A)		0
Lithium battery(48V/105Ah,EVE) with the on-board charger(48V,20A)		0
Controls and instruments		
Electric steering	•	
Systech controller	•	
nteractive meter	•	
Non contact interlock switch	•	
Safety		
Emergency disconnect switch	•	
Horn	•	
PIN code access	•	
Turning deceleration	•	
Mast protection		0

1.4t/1.6t Mast Specification

	Max. lifting height ha	Ground clearance, fork (h3 +h13)	Lowered height hı	Extended height	Free lift	Load Capacity at 600mm	
Туре				h4	Tree int	1.4t	1.6t
	mm	mm	mm	mm	mm	kg	kg
	20001)	2090	1540	2540	90	1400	1600
	24001)	2490	1740	2940	90	1400	1600
m >	2700	2790	1890	3240	90	1400	1600
Double cylinders Duplex wide view	2900	2990	1990	3440	90	1400	1600
e ji	3000	3090	2040	3540	90	1400	1600
wicy.	3300	3390	2190	3840	90	1250	1350
ble ex	3500	3590	2290	4040	90	1150	1220
0 ds	3800	3890	2440	4340	90	1030	1080
	4000	4090	2540	4540	90	950	1000
	4200	4290	2640	4740	90	890	940
	4500	4590	2790	5040	90	760	810
9 0	20001)	2090	1540	2540	1020	1400	1600
± ≥	24001)	2490	1740	2940	1220	1400	1600
Duplex full-free wide view	2700	2790	1890	3240	1370	1400	1600
ex f	3000	3090	2040	3540	1520	1400	1600
ੜੂ >	3300	3390	2190	3840	1670	1250	1350
ă	3500	3590	2290	4040	1770	1150	1220
	3500 ¹⁾	3590	1660	4020	1160	1150	1220
	38001	3890	1760	4320	1260	1030	1080
Triplex full-free wide view	40001	4090	1830	4520	1330	950	1000
	4200	4290	1890	4720	1390	890	940
	4500	4590	1990	5020	1490	760	810
	4700	4790	2060	5220	1560	700	750
vid je	4800	4890	2090	5320	1590	680	730
분 1	5000	5090	2160	5520	1660	650	700
	5200	5290	2230	5720	1730	600	650
	5500	5590	2330	6020	1830	550	600
	6000	6090	2500	6520	2000	450	500

Note: 1)Optional feature for battery side roll out was necessary, It can make changing the battery easier.



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X SERIES RIDER PALLET STACKERS

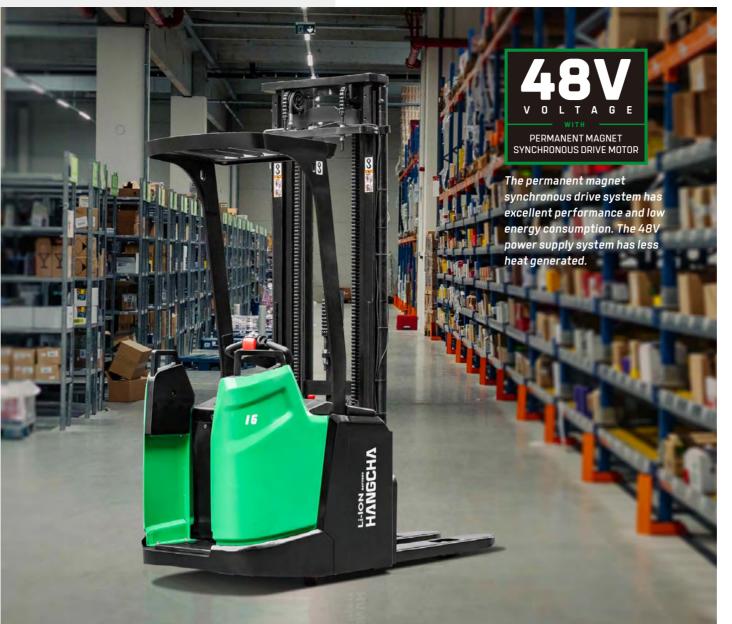
Are a new generation of products newly developed by Hangcha for warehousing and logistics applications. Using the advanced permanent magnet brushless drive technology and equipped with a new 48V system, the products have advanced performance, comfortable, safe and reliable operations and low use and maintenance costs, and are ideal tools for loading, unloading and handling palletized goods in warehouses, supermarkets, workshops.

APPEARANCE

The X series rider pallet stacker adopts a professional industrial design of exterior and a series family design.

The truck has a smooth vivid profile and a fully ergonomic design, following the latest exterior design trend.





HIGH PERFORMANCE

- With the VCU control, the truck can be controlled accurately, stably and more efficiently.
- Regenerative brake and slope anti-slide function are offered by this truck.
- The electric steering feature enables easier and more flexible operation.



With high power drive motor, provides fast travel speed and good gradeability.









9.0 km/



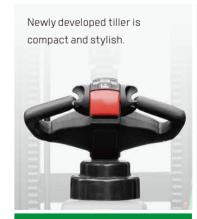
The proportional lifting/lowering speed regulation system enables more stable and accurate

COMFORT

- Customer can choose different width of outside fork and length of forks to fit variable pallet.
- The standing driving pedal with shock-absorbing design significantly improves standing driving comfort and reduces long-time driving fatigue.









Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.



The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.



PROTECT YOUR INVESTMENT

RELIABILITY

The battery is reliably fixed and the battery cover is support by soft materials, so that the vibration and noise generated during the operation of the vehicle are reduced.

The stamped fork with higher strength and impact resistance, and guided fork prongs, further improve operation efficiency.



Water-proof plugs and connectors applied to provide a reliable protection to electric system.

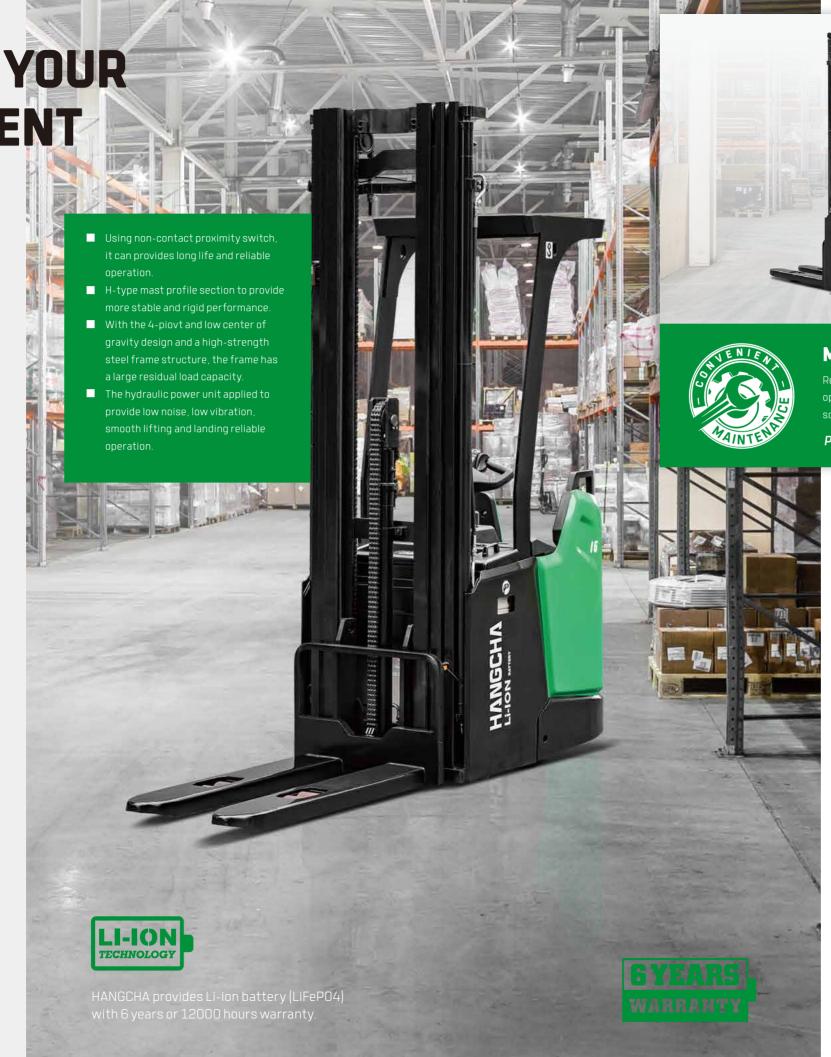


The power plug is fixed on the truck body to avoid damage from battery installment.



(Option)Lithium battery with the on-board charger(48V,20A)





The fault information can be checked directly via the interactive instruments instead of the manual.



MAINTENANCE

Rear cover can be completely open, so the maintenance is very convenient.

All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

Permanent magnet synchronous motor need no maintenance.

SAFETY

- Turning speed is automatically reduced when steering.
- With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- The applied slope anti-slip function ensures the safety of the operation.
- The lifting buffering function can ensure the safety of the truck when the fork is lifted to the top.



The truck with assembly overhead guard can protect the driver's safety in case of high-position cargo falling. avoid the harm to the driver.



The emergency button on the tiller head can effectively



Foot detection sensor - trucks slows down or stops if operator's foot is detected outside of the platform contours



Travel speed will be automatically reduced after fork lifting 500mm. It has an intelligent soft landing that automatically slows down the lowering speed when the fork is less than **100mm** above the ground, effectively protecting cargo safety. (available for duplex mast)

LITHIUM POWERED



LITHIUM BATTERY ADVANTAGES



4000 full charging cycles with at least 75% residual capacity.



Return on investment

Add flexibility to your operation, cost-saving in the long term, increased efficiencies.



Maintenance free

No topping up of water or checking acid levels.



High energy density

The high energy density of the Li-lon battery ensures long working times and increases the high availability.



Cold area application

Li-lon batteries maintain high performance at temperatures



High safety and reliability

Intelligent battery management monitoring every important function, no emission of battery gasses.



Opportunity charging

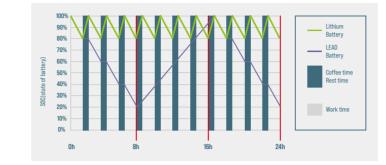
Full performance during several shifts thanks to effective interim charging.



FEATURES & BENEFITS THE HANGCHA DIFFERENCE

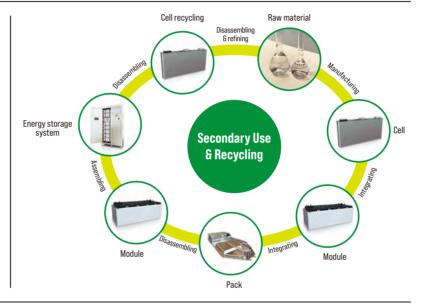
Efficiency

By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.



Safety

- / Intelligent battery management monitoring every important function.
- / Higher user safety, thanks to acid-free use. / User friendly due to avoided battery change. / No emission of battery gasses.



: What are the characteristics of lithium batteries, especially hen used in high and low temperature environments?

-30°C -65°C Discharge temperature: -30°C -65°C Storage environment temperature: -30 °C -65 °C

After the truck key switch is closed, the instrument battery condition needs to be checked:

1. Confirm that there is no battery system alarm message on the instrument panel. 2. Please check the remaining power before use. It is recommended to use the SOC $\,$ between 50% and 100%.

3. If the SOC is lower than 20%, it is not recommended to continue using it. Please charge it as soon as possible.



Q: What is the charging time and usage time calculation of forklift ium batterv?

. Available power of lithium battery (kWh) = rated voltage × rated power × 90% (To avoid over-discharge damaging the battery, the forklift is equipped with low power protection (less than 10%)).

2. Charging time (h) = rated capacity of lithium battery (Ah) \times 90% \div charger output current (A).

3. The power consumed for charging (kWh) = the available power of the lithium battery ± 93% (the charging efficiency of the charger is calculated as 93%). 4. Usage time (h) = available power of lithium battery + energy consumption data. For specific energy consumption values, please refer to the technical table on the sharing platform.



Q: How does Hangcha BMS work to ensure the safety of the lithium battery?

HANGCHA BMS (battery management system) can monitor the cells at all times. As a result, hangcha lithium power is the reliable solution



Battery Safety Management:

Overcharge/over discharge protection Overcurrent/over-temperature/low-temperature protection Multi-level fault diagnosis protection Double fault monitoring



Battery Parameter Detection:

Battery voltage detection and analysis Battery current detection and analysis Battery temperature detection and analysis



Equilibrium Management:

Equalization based on voltage mode Equalization based on time mode Equalization based on battery cell SOC Active/passive equalization optional



Other Features:

Low cost, low power consumption Historical data record Flexible cascade expansion CRC data validation

Technical data

	1.1	Manufacturer		OUP CO.,LTD.	
	1.2	Manufacturer's type designition		CDD14-XT1S-SISU	CDD16-XT1S-SISU
Distinguishing mark	1.3	Drive: electric (battery type, mains,), diesel, petrol, fuel gas		electric	electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		standing	standing
ngui mar	1.5	Rated capacity/rated load	kg	1400	1600
Disti	1.6	Load centre distance	c (mm)	600	600
_	1.8	Load distance, centre of drive axle to fork	x (mm)	700	700
	1.9	Wheelbase	y (mm)	1331	1331
Veight	2.1	Service weight	kg	1290	1290
	2.2	Axle loading, laden front/rear	kg	1100/1590	1180/1710
	2.3	Axle loading, unladen front/rear	kg	970/320	970/320
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU
	3.2	Tyre size, front		Ø250×80	Ø250×80
ssis	3.3	Tyre size, rear		Ø83×80	Ø83×80
Tyres, chassis	3.4	Additional wheels (dimensions)		Ø140×55	Ø140×55
res,	3.5	Wheels, number front/rear (x = driven wheels)		1x+1/4	1x+1/4
٦	3.6	Tread, front	b10 (mm)	516	516
	3.7	Tread, rear	b11 (mm)	385	385
	4.2	Height, mast lowered	h1 (mm)	1890	1890
	4.3	Free lift	h2 (mm)	90	90
	4.4	Lift	hs (mm)	2700	2700
	4.5	Height, mast extended	h4 (mm)	3240	3240
	4.9	Height drawbar in driving position min./max.	h14 (mm)	1220	1220
	4.15	Height, lowered	h13 (mm)	90	90
suc	4.19	Overall length	I1 (mm)	2455 ³⁾	2455 ³
Dimensions	4.20	Length to face of forks	I2 (mm)	1305 ³⁾	1305 ³
Ë	4.21	Overall width	b1/b2 (mm)	800	800
_	4.22	Fork dimensions DIN ISO 2331	s/e/I(mm)	60/185/1150	60/185/1150
	4.25	Fork spread	b5 (mm)	570	570
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	25	25
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2655 ^{1]3]}	26551 3
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	2705 ^{2 3}	27052 3
	4.35	Turning radius	Wa (mm)	2005	2005
	5.1	Travel speed, laden/unladen	km/h	9/11	9/11
Performance	5.2	Lift speed, laden/unladen	m/s	0.195/0.4	0.18/0.4
	5.3	Lowering speed, lade/unladen	m/s	0.45/0.4	0.45/0.4
	5.8	Max. gradeability, laden/unladen	%	10/16	8/16
	5.10	Service brake		Regenerative	Regenerative
	6.1	Drive motor rating S2 60 min	kW	2.2	2.2
Electric- engine	6.2	Lift motor rating at S3 15 %	kW	4.2	4.2
eng	6.4	Battery voltage/nominal capacity	(V)/(Ah) or kWh	48/80	48/80
ш	6.5	Battery weight	kg	60	60

