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ISO45001:2018

ISO14001:2015

ISO9001:2015

HANGCHA trucks conform to the European Safety Requirements.



XA SERIES

MINI PALLET TRUCK

With capacity of 1,500 to 2,000kg

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Making Material Handling Easier

XA SERIES

MINI PALLET TRUCK

The XA series 1.5t-2.0t mini pallet truck is a new generation product developed by HANGCHA for warehousing and logistics applications. It adopts advanced permanent magnet brushless (PMBL) technology, offering advanced performance, comfortable operation, high reliability and safety, and low operating and maintenance costs.

Appearance

The XA series mini pallet truck features professional industrial design styling, inheriting the XA series family design concept. The vehicle features smooth and dynamic lines with a compact form factor, fully considering ergonomics and conforming to the latest design trends.

High Performance

- Powerful drive with 1.5/2.0 ton load capacity, meeting the material handling requirements of most customers.
- Permanent Magnet Brushless (PMBL) motor adopted for high performance, low heat generation, and low noise.
- Permanent magnet brushless control system for lower energy consumption.



CAN bus control handle with standard display screen for quick and convenient fault diagnosis; integrated key switch, RFID card reader or password lock with rich functionality.

SMART SOLID

Rated capacity

1.5T-2.0T

5/5.5 km/h

Travel speed, laden/unladen

8/16 %

Max. gradeability, laden/unladen





SAFETY IS OUR **RESPONSIBILITY**

Emergency reverse button on tiller head effectively protects operator from injury during emergency situations while traveling in reverse.

- Release braking and emergency braking functions ensure safe travel.
- Ramp anti-rollback function ensures operational safety on inclines.
- Standard electronic lift limit switch prevents impact at maximum lift height, effectively protecting the lift motor and ensuring cargo safety.

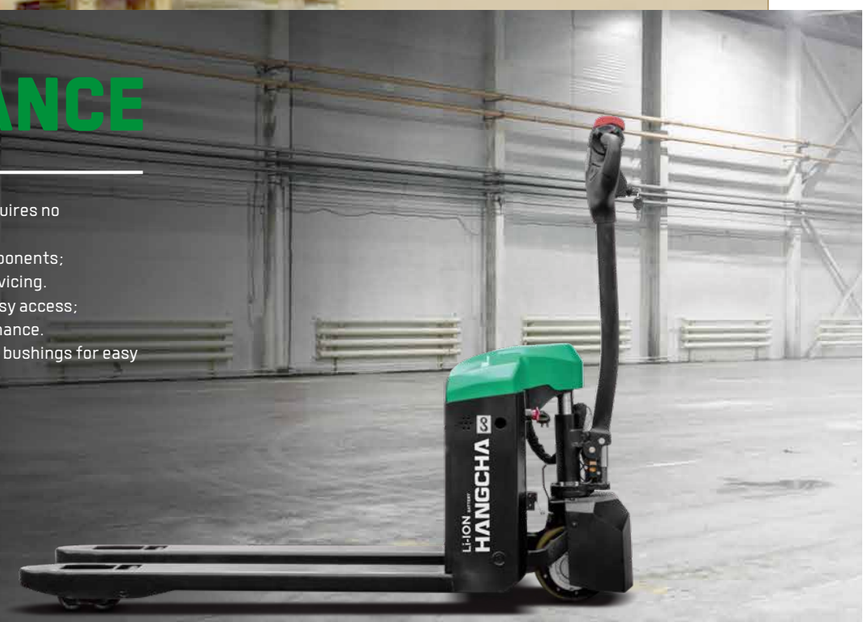




MAINTENANCE

- Permanent magnet brushless motor requires no maintenance.
- Removable hood for easy access to components; convenient overall maintenance and servicing.
- Front battery compartment panel for easy access; convenient battery removal and maintenance.
- All pivot points equipped with lubricated bushings for easy maintenance and extended service life.

CONVENIENT MAINTENANCE



RELIABILITY



Connectors from well-known brands; all wiring harnesses and cables with reliable protection, greatly improving electrical system reliability.



Steel stamped motor hood and wheel covers for improved component reliability.

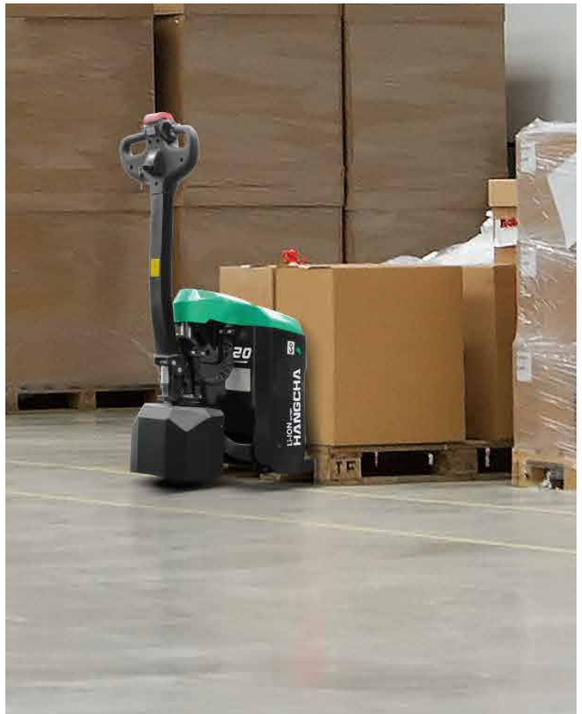


Stamped formed forks with higher strength and impact resistance; fork tip guides further improve operational efficiency.



Optimized lifting linkage design for smooth, reliable operation with reduced structural stress.

- Key switch with standard dust cover for dust, water, and oil protection, significantly improving reliability in harsh operating conditions.
- Mature and stable hydraulic power unit (HPU) with low noise, low vibration, and smooth, reliable lifting/lowering.
- Interlock switch uses non-contact proximity switch for extremely high reliability.





LI-ION TECHNOLOGY

HANGCHA provides Li-ion battery (LiFePO4) with 3 years or 6000 hours warranty.

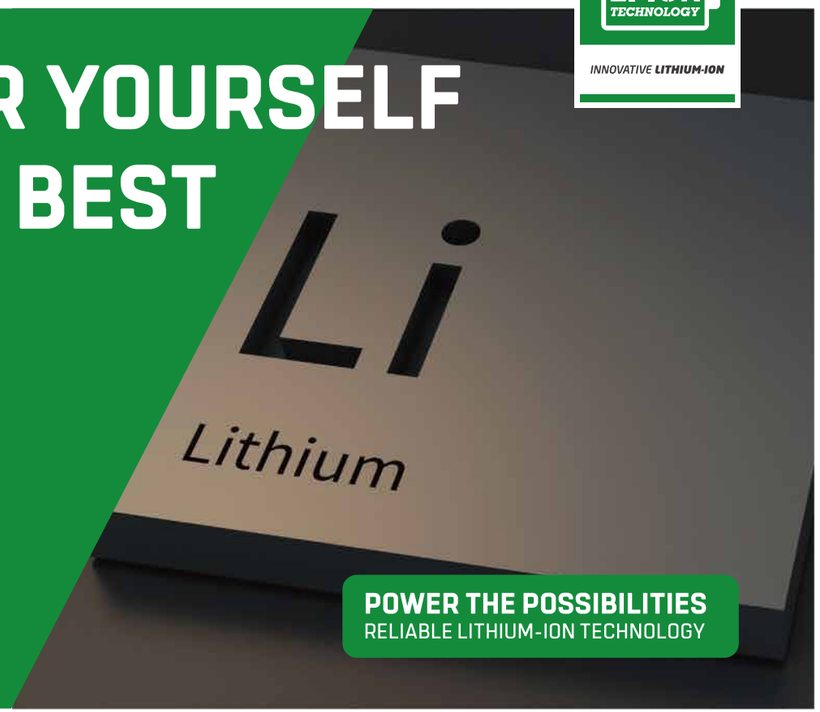
3 YEARS WARRANTY

LITHIUM POWERED

LI-ION TECHNOLOGY

INNOVATIVE LITHIUM-ION

EMPOWER YOURSELF WITH THE BEST



V24 LITHIUM ION

POWER THE POSSIBILITIES
RELIABLE LITHIUM-ION TECHNOLOGY

LITHIUM BATTERY ADVANTAGES

Long service life

2000 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-Ion battery ensures long working times and increases the high availability.

Cold area application

Li-Ion batteries maintain high performance at temperatures below freezing.

High safety and reliability

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

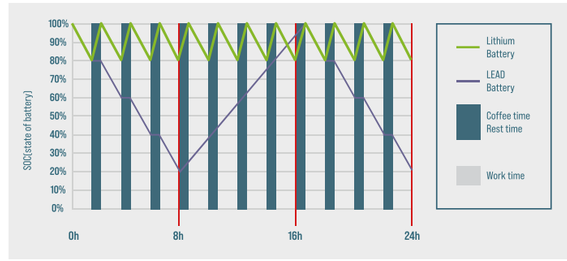
Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS
THE HANGCHA DIFFERENCE

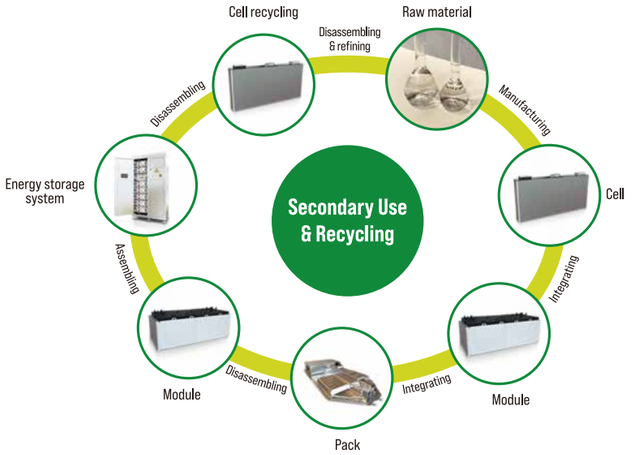
Efficiency

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.



QUESTION 1

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

Charging temperature:	0℃-55℃
Discharge temperature:	-20℃-65℃
Storage environment temperature:	-20℃-55℃

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.

QUESTION 2

Q: What is the charging time and usage time calculation of forklift lithium battery?

1. 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) × 90% ÷ 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.

QUESTION 3

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

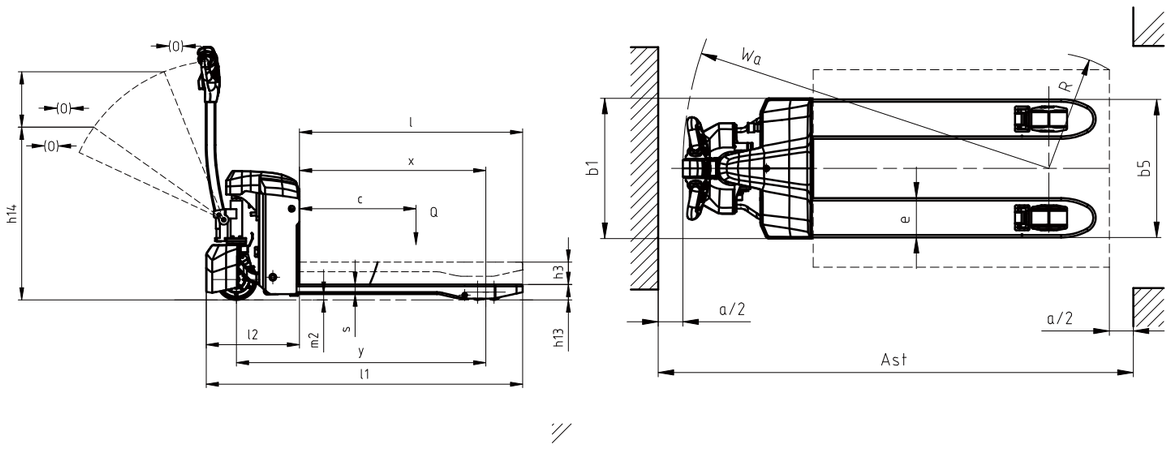
Equilibrium Management:
Equalization based on voltage mode
Equalization based on time mode
Equalization based on battery cell SOC
Active/passive equalization optional

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

Technical data

Distinguishing mark	1.1	Manufacturer (abbreviation)		HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designition		CBD15-XAMN11-I CBD15-XAMT15-I	CBD20-XAMN11-I CBD20-XAMT15-I	CBD15-XAMN11 CBD15-XAMT15	CBD20-XAMN11 CBD20-XAMT15
	1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas		Electric	Electric	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian	Pedestrian	Pedestrian	Pedestrian
	1.5	Rated capacity/rated load	kg	1500	2000	1500	2000
	1.6	Load centre distance	c (mm)	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	900/960	900/960	900/960	900/960
	1.9	Wheelbase	y (mm)	1225/1285	1225/1285	1225/1285	1225/1285
Weight	2.1	Service weight	kg	165	180	187	233
	2.2	Axle loading, laden front/rear	kg	489/1176	635/1545	495/1192	655/1578
	2.3	Axle loading, unladen front/rear	kg	120/45	125/55	136/51	160/73
Tyres/chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU
	3.2	Tyre size, front		Ø210×70	Ø210×70	Ø210×70	Ø210×70
	3.3	Tyre size, rear		Ø80×64	Ø80×64	Ø80×64	Ø80×64
	3.4	Additional wheels (dimensions)		/	/	/	/
	3.5	Wheels, number front/rear (X=driven wheels)		1X./4	1X./4	1X./4	1X./4
	3.6	Tread, front	b_{10} (mm)	400	400	400	400
	3.7	Tread, rear	b_{11} (mm)	/	/	/	/
Dimensions	4.4	Lift	h_3 (mm)	120	120	120	120
	4.9	Height drawbar in driving position min./max.	h_{14} (mm)	890/1271	890/1271	890/1271	890/1271
	4.15	Height, lowered	h_{13} (mm)	80	80	80	80
	4.19	Overall length	l_1 (mm)	1630	1630	1630	1630
	4.20	Length to face of forks	l_2 (mm)	480	480	480	480
	4.21	Overall width	b_1/b_2 (mm)	568	568	568	568
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	50/160/1150	50/160/1150	50/160/1150	50/160/1150
	4.25	Fork spread	b_5 (mm)	560	560	560	560
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	30	30	30	30
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast (mm)	1815[1]	1815[1]	1815[1]	1815[1]
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast (mm)	1885[2]	1885[2]	1885[2]	1885[2]
	4.35	Turning radius	Wa (mm)	1445	1445	1445	1445
Performance data	5.1	Travel speed, laden/unladen	km/h	4.5/5	5/5.5	4.5/5	5/5.5
	5.2	Lift speed, laden/unladen	m/s	0.037/0.054	0.030/0.048	0.037/0.054	0.030/0.048
	5.3	Lowering speed, lade/unladen	m/s	0.045/0.038	0.045/0.030	0.045/0.038	0.045/0.030
	5.8	Max. gradeability, laden/unladen	%	6/16	8/16	6/16	8/16
	5.10	Service brake		Regenerative	Regenerative	Regenerative	Regenerative
Electric-engine	6.1	Drive motor rating S2 60 min	kW	0.65	0.8	0.65	0.8
	6.2	Lift motor rating at S3 15 %	kW	0.8	0.8	0.8	0.8
	6.4	Battery voltage/nominal capacity	(V)/(Ah) or kWh	24/40	24/40	24/65	24/85
	6.5	Battery weight	kg	8	8	17*2	26*2

Note: 1) According to VDI2198 standard+410mm. 2) According to VDI2198 standard+226mm.



Features

Truck	Standard	Options
24V AC drive motor	●	
Hydraulic power unit (HPU)	●	
Polyurethane (PU) wheels	●	
Fork length 1150mm	●	
Fork spread 560mm	●	
Fork ground clearance 80mm	●	
Electronic lift limit switch	●	
On-board battery charger	●	
Battery	●	
Dual load wheels	●	
Key switch	●	
Fork length 1220mm		○
Fork spread 680mm		○
Additional wheels		○
Charging power cord (European standard / CEE)		○
Controls and instruments		
Controller	●	
Integrated control Tiller head	●	
Electromagnetic brake / EMB	●	
Hour meter with battery discharge indicator (BDI)		○
Safety		
Horn	●	



